



**2023-2024**  
**University Catalog**

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**Disclaimer:**

Programs and courses are under constant review. This catalog is a source of general information and does not constitute an irrevocable contract between Baldwin Wallace University and any individual person. The University reserves the right to make necessary changes to the provisions and policies of this catalog at any time. All such changes are effective at such time as determined by the University and may apply to all prospective and matriculated students.

## About Baldwin Wallace University

Founded in 1845, Baldwin Wallace was among the first colleges to admit students without regard to race or gender. That spirit of inclusiveness and innovation continues today. The academic program, rooted in the liberal arts & sciences, yet balanced by abundant opportunities for career exploration and application, is designed to prepare students to make a living...and a life *worth* living. Baldwin Wallace University is an independent, coeducational University located in Berea, Ohio, a suburb southwest of Cleveland. Today, the University serves approximately 3000 full-time undergraduates, 300 students in evening and weekend programs, and over 600 graduate students.

The University maintains more than 80 academic programs from the College of Arts & Sciences, College of Education & Health Sciences, Conservatory of Music, and the Carmel Boyer School of Business.

## Non-Discriminatory Policy

Baldwin Wallace University does not discriminate because of race, creed, age, disabilities, national origin, gender or sexual orientation in the administration of its policies or programs.

## Statement of Mission of Baldwin Wallace University

Baldwin Wallace University is an academic community committed to the liberal arts and sciences as the foundation for lifelong learning.

The University fulfills this mission through a rigorous academic program that is characterized by excellence in teaching and learning within a challenging, supportive environment that enhances students' intellectual and spiritual growth.

Baldwin Wallace assists students in their preparation to become contributing, compassionate citizens of an increasingly global society and encourages their pursuit of personal and professional excellence.

## Division III Athletic Philosophy Statement

### Athletic Department Vision

To provide our student athletes with exceptional opportunities to learn and grow through intercollegiate athletics as part of their learning experience and to strive to achieve excellence in individual and team athletic performance at the conference, regional, and national level.

### Athletic Department Mission Statement

The Intercollegiate Athletic Department is committed to the vision and mission of Baldwin Wallace University in which a student's athletic activities are conducted as an integral part of the total educational experience. Intercollegiate athletics provide a unique learning environment for developing and teaching teamwork, patience, persistence, service to others, respect for authority, ethics, leadership, commitment, and a strong work ethic.

### **Guiding Principles:**

- Expect and support student athlete academic success
- Value cultural diversity and gender equity
- Conduct and represent all programs and Baldwin Wallace University with sportsmanship, integrity, and professionalism.
- Follow all rules and regulations established by the University, OAC, and NCAA
- Since the student athlete participation is conducted as an integral part of the total educational experience, the purpose of the intercollegiate athletic program is therefore no different than that of any academic program; to achieve the highest possible standard of excellence.

To achieve this end, Baldwin Wallace University

- a. places special importance on the impact of athletics on the participants rather than on the spectators and greater emphasis on the internal constituency (students, alumni, institutional personnel) than on the general public and its entertainment needs;

- b. awards no athletically related financial aid to any student;
- c. assures that athletics participants are treated no differently than any other member of the student body;
- d. assures that athletics programs support the institution's educational mission by financing, staffing, and controlling the programs through the same general procedures as other departments of the institution;
- e. provides equitable athletics opportunities for males and females and gives equal emphasis to men and women's sports.

## **Accreditation**

Baldwin Wallace University is accredited by The Higher Learning Commission. The address and website for this accrediting body is 230 South LaSalle Street, Suite 7-500, Chicago, Illinois 60604-1411; [www.hlcommission.org](http://www.hlcommission.org)

Additional accreditation information can be found at: <https://www.bw.edu/academics/accreditations/>.

# 2023-24 Majors, Minors and Other Undergraduate Academic Programs

## MAJORS

Allied Health, Sport & Wellness  
 Community Health Promotion  
 Exercise Science  
 Physical Activity & Recreation Administration  
 Pre-Allied Health/Pre-Physical Therapy  
 Applied History  
 Art: Studio Art  
 Arts Management & Entrepreneurship  
 Biology  
 Business:  
 Accounting\*  
 Applied Business Administration (partnership)\*  
 Business Administration\*  
 Business Information Systems  
 Business of Healthcare\*  
 Digital Marketing  
 Economics  
 Enterprise Risk Analytics  
 Finance\*  
 Human Resource Management\*  
 Hospitality & Tourism Management  
 International Business  
 Management & Innovation\*  
 Marketing\*  
 Organizational Leadership (only AT&MS)\*  
 Sport Management  
 Chemistry  
 Communication:  
 Communication Studies  
 Film Studies  
 Media Production  
 Public Relations  
 Communication Sciences & Disorders  
 Computer Science  
 Criminal Justice  
 Cybersecurity Analyst  
 Data Analytics  
 Data Science  
 Digital Media & Design:  
 Graphic Design  
 Interactive Design  
 Education:\*  
 Adolescent & Young Adult (7-12)  
*AYA Content Majors Include:*  
 English: Integrated English Language Arts#  
 History: Integrated Social Studies Teacher Education#  
 Life Science#  
 Social Science: Int. Social Studies Teacher Education#  
*Additional AYA Content Areas Include:*  
 Integrated Mathematics  
 Integrated Science Teacher Education  
 Physical Science  
 Dual Primary & Primary Intervention Specialist (PreK-5)  
 Middle Childhood (4-9) (students must select two out of the following four content areas: mathematics; science; reading/language arts; social studies.)

Mild/Moderate Educational Needs (K-12)  
 Multi-Age Education (preK-12)  
*Multi-Age Content Majors Include:*  
 Art Education (Visual Arts)  
 French & Francophone Studies  
 German  
 Music Education  
 Spanish  
 English:\*  
 English  
 Creative Writing  
 Environmental Science  
 History\*  
 Industrial & Organizational Psychology#  
 International Studies  
 Mathematics:  
 Applied Mathematics  
 Mathematics  
 Music:  
 Composition  
 Music History & Literature  
 Music Theatre Music Direction  
 Music Theatre  
 Music Theory  
 Music Therapy  
 Performance  
 Music Education (BME)  
 Music in Liberal Arts (BA)  
 Music Industry (BA)  
 National Security  
 Neuroscience  
 Nursing\*  
 Philosophy  
 Physics:  
 Engineering  
 Physics  
 Physics-Based Engineering Areas  
 Chemistry-Based Engineering Areas  
 Political Science  
 Psychology\*  
 Public Health  
 Public History  
 Religion  
 Sociology\*  
 Software Engineering  
 Sustainability  
 Theatre:  
 Acting  
 Acting & Directing  
 Dance/Movement  
 Design & Technical  
 Stage Management  
 World Languages, Literatures, & Cultures:  
 French & Francophone Studies  
 German  
 Spanish

## MINORS

Africana Studies  
Allied Health, Sport & Wellness  
Athletic Coaching  
Family Studies  
Health Coaching & Health Promotion  
Nutrition  
Sports Medicine  
Art  
History of Art  
Studio Art  
Arts Management  
Asian Studies  
Audio Production & Sound Design  
Biology  
Business:  
Accounting\*  
Applied Business\*  
Business Administration\*  
Business Analytics  
Entrepreneurship  
Finance\*  
Health Care Management  
Hospitality & Tourism Management  
Human Resource Management\*  
International Business  
Management \*  
Marketing\*  
Chemistry  
Communication:  
Communication Studies\*  
Convergent Journalism  
Film Studies  
Media Production  
Public Relations\*  
Social Media Production  
Communication Sciences & Disorders  
Computer Science:  
Computer Information Systems\*  
Computer Programming  
Computer Science  
Network Administration  
Software Engineering  
Web Programming  
Criminal Justice  
Dance  
Diversity Studies  
Economics  
Educational Studies  
English:  
Creative Writing  
English  
Forensic Science  
Gender Studies  
Geology  
Graphic Design  
History\*  
International Studies  
Latin American Studies  
Legal Studies  
Mathematics

Middle Eastern & North African Studies  
Music  
Music Industry  
National Security  
Neuroscience  
Philosophy  
Physics  
Political Communication  
Political Science\*  
Psychology\*  
Public Health  
Public History  
Religion  
Research and Data Analytics  
Sociology\*  
Statistics  
Sustainability  
Theatre  
Urban Studies  
World Languages, Literatures, & Cultures:  
French & Francophone Studies  
German  
Spanish  
Spanish for the Professions

## DUAL-DEGREE PROGRAMS

Accounting and MAcc  
Communication Science & Disorders, BS and Speech-  
Language Pathology, MS  
Computer Science and MBA  
Software Engineering and MBA  
Human Resource and MBA  
Pre-Engineering (Chemistry- or Physics- based), affiliation  
with:  
Case Western Reserve University  
Pre-Social Work (Psychology- or Sociology- based), affiliation  
with:  
Case Western Reserve University

## OTHER PROGRAMS OF CONCENTRATION

Medical Technology  
Middle Childhood Education Generalist Endorsement  
Pre-Pharmacy  
Primary Healthcare Advancement

## UNDERGRADUATE CERTIFICATES

English as a Second Language Learner  
Human Resource Management  
Public History  
Sustainability  
Teaching Artist

**\*Also available to Adult, Transfer & Military Service (evening) students.**

**Some programs may require some day classes.**

**\*\*Does not apply to Music Education licensure.**

**#Not offered as a primary major**

# Undergraduate Academic Policies and Procedures

## Introduction

The general requirements for a bachelor's degree are intended to achieve four major goals:

- an individualized academic program reflecting each student's special needs, interests, and aspirations;
- sufficient work in a variety of academic areas to introduce breadth into the academic program;
- an exploration in depth of at least one area of knowledge;
- a sufficient number of elective hours to enable the student to pursue secondary interests that support and supplement other requirements.

The University attempts to provide an atmosphere in which the student can develop the abilities to think creatively and critically, to make honest and objective judgments, to perceive and utilize patterns of balance between personal needs and the needs of others; and, finally, to work independently in exploring areas of knowledge and growth beyond those studied formally in the classroom. In line with these principles, the academic program undertaken by each student is comprised of the general requirements described in this section, a major in an academic area, a minor in an academic area, an approved experiential learning experience and elective courses the student carefully chooses to pursue special interests.

**The student, working with a faculty advisor, is responsible for planning his/her own course of study. While academic advising is a process of communication and information exchange between student and advisor, the ultimate responsibility for program, course selection, and meeting graduation requirements rests with the student.**

## Degrees

Except those subsequently noted, Baldwin Wallace University grants the degree of **Bachelor of Arts (B.A.)** and **Bachelor of Science (B.S.)** to students who complete the requirements for graduation in majors designated with these degrees. The degree of **Bachelor of Science in Education (B.S. in Ed.)** is granted to students who major in adolescent & young adult education, early childhood/dual primary education, middle childhood, mild/moderate educational needs, and multi-age education. The degrees of **Bachelor of Music (B.M.)** and **Bachelor of Music Education (B.M.E.)** are granted to those students who complete the respective programs in the Conservatory. The **Bachelor of Science in Nursing (B.S.N.)** is awarded to our nursing graduates. Acting majors earn a **Bachelor of Fine Arts (B.F.A)** degree.

A student who desires two bachelor's degrees must meet the following requirements: (1) The candidate must meet the particular subject requirements for both degrees and the core requirements. (2) An additional 30 credit hours must be completed at Baldwin Wallace beyond the requirements of the first degree. (3) There can be no duplication of departmental major fields. As an example, a student earning a Bachelor of Music degree and a Bachelor of Arts degree cannot elect a major in music for the BA degree. (4) Comprehensive examinations or their equivalent, as required by major departments, must be completed.

**For information on graduate degrees offered by Baldwin Wallace University, see** Graduate Program Requirements.

## The University Core

The Baldwin Wallace Core Curriculum prepares students to think from the perspectives of multiple scholarly disciplines and cultural points of view. Students begin with Foundations: First-Year Experience (FYE), Math, English, and Wellness.

At the Perspectives level, students choose from a menu of courses that offer training in different modes of disciplinary analysis and expression, including scientific method, mathematical reasoning, social scientific analysis, historical analysis, religious and ethical thinking, literary analysis, and aesthetic understanding. They also take courses that offer international and diverse perspectives.

At the Extensions level, students reinforce their skills in writing, quantitative reasoning, and interdisciplinary thinking. Each core course provides students with an opportunity to hone a Core Skill or Competency in Effective Communication, Critical Thinking, Quantitative Literacy, Cultural Knowledge and Competence, or Civic Learning.

**Specific area, course and credit requirements for fulfillment of the University core are described in Undergraduate Program Requirements.**

## Core Curriculum Requirements for Transfer Students

### A2BW – Transfer Students with an Associate Degree

BW will accept the associate degree, including 24 credits of the Ohio Transfer 36 (OT36), as meeting the Baldwin Wallace University Core, excluding the following requirements:

- Students who have not completed the equivalent of ENG 131 as part of their Associate degree are required to complete ENG 131 at BW.
- Students who have not completed the required math for the core and/or major as part of their Associate degree are required to complete the required MTH at BW.
- The EXP requirement must be completed at BW.

### Transfer Core for students without an Associate Degree:

Transfer students with 25 credits or more in transfer will follow the Ohio Transfer 36 (OT36) to meet core requirements at Baldwin Wallace.

The Ohio Transfer 36 contains Core Ohio Transfer General Education Foundation courses (24 credits):

- 3 cr. English Composition and Oral Communication
- 3 cr. Mathematics, Statistics and Logic
- 6 cr. Arts and Humanities (2 different disciplines)
- 6 cr. Social and Behavioral Sciences (2 different disciplines)
- 6 cr. Natural Sciences (at least 1 lab course)
- **Plus** 12 credits of additional coursework from the disciplines listed above.
- **Note:** the equivalent of ENG 111 cannot count toward the English Composition or Arts and Humanities areas.

**The transfer core does not apply to freshmen.** Incoming first year freshmen, regardless of the number of transfer credits, follow the current BW core requirements. (Freshmen with a 2.75 GPA or higher completing an associate degree through CCP do receive the A2BW core waiver.)

## Academic Majors and Minors

**The Academic Major:** Students must complete a major in an academic area, and are encouraged to declare a major early in their sophomore year. Students who meet the minimum requirements of the University may major in any course of study offered by the University. Some majors may have special requirements needed for admission into the program.

If the major is in a single academic department, it will include a minimum of 23 semester credits of courses in the department plus additional requirements as stipulated. These may include specific courses, a specified number of credits in excess of 23 semester credit hours, courses in other departments, proficiency examinations, and other appropriate activities such as recitals, exhibitions and student teaching.

Transfer students are required to complete at least 40% in their major field of study at BW. Exceptions may be made by an individual department based on an examination or other appropriate evaluative methods. Some departments require more than 40%.

A self-directed **interdepartmental major** may be arranged in consultation with the heads of the departments concerned. Interdepartmental majors must include coursework from three departments and **a minimum of 36 credit hours, of which 15 must be at the 300-400 level.** Written copies of the agreement specifying the requirements for the interdepartmental major must be signed by the heads of these departments and filed with both the University



Registrar and the student's faculty advisor. This request must be made prior to the student's earning 91 semester credits towards a degree at Baldwin Wallace University.

**Only four credits of "D" (D+, D, and/or D-) in a major** may be counted toward the total number of credits required in a student's major department. If a student exceeds the four-credit rule, the major department will decide if the student should take an additional course(s) beyond the minimum credits required for the major or repeat the course(s) graded "D." If a student is required to repeat a course, the total number of credits required for graduation will be increased. Post-baccalaureate programs may adhere to different policies.

**The Academic Minor:** All students\* must complete an academic minor. (A second major will also satisfy this requirement.) An academic minor consists of at least 17 semester credits as specified by the department offering the minor. A minimum of six of the 17 credits must be earned at Baldwin Wallace. A student may fulfill the minor requirement in any department or school, as long as the minor selected is not identical to the student's major or is not otherwise prohibited by the department in which the major resides. Consult the section of the catalog that describes the requirements for each major to identify those minors that are not permitted.

\*Does not apply to Music majors (other than Music in Liberal Arts), Bachelor of Fine Arts in Acting, Accelerated Nursing program, or students pursuing licensure in Early Childhood/Dual Primary Education.

A self-directed **interdepartmental minor** may be arranged in consultation with the heads of the departments concerned. Interdepartmental minors must include coursework from two departments and a minimum of 17 credit hours, of which 9 must be at the 300-400 level. Written copies of the agreement specifying the requirements for the interdepartmental minor must be signed by the heads of these departments and filed with both the University Registrar and the student's faculty advisor. This request must be made prior to the student's earning 91 semester credits towards a degree at Baldwin Wallace University.

**Please note, students may only declare either one major and one minor, one major and two minors, or two majors. Students should declare a major early in their sophomore year and all credentials must be declared prior to earning senior standing (91 semester credits).**

**Specific major and minor requirements, course descriptions and other programs of study are described in detail in the Undergraduate Program Requirements section of this catalog.**

## **The Experiential Learning Requirement**

Experiential learning is a process through which students develop knowledge, skills, and values from direct experiences. Experiential learning encompasses a variety of activities which already exist as structured experiences within the BW curriculum, including internships, service learning, undergraduate research, study abroad, and other creative coursework and professional experiences within majors and minors.

Learning that is considered "experiential" includes all the following elements:

1. Reflection, critical analysis and synthesis
2. Opportunities for students to take initiative, make decisions, and be accountable for the results
3. Opportunities for students to engage intellectually, creatively, emotionally, socially, or physically
4. A designed learning experience that includes the possibility to learn from natural consequences, mistakes, and successes

The experiential learning requirement may be met by either completing a pre-approved course or by completing an individually designed experience. Students who choose to complete an individually designed experience will work with a faculty or staff mentor who will approve the experience; help to connect classroom knowledge and out-of-classroom experience; and guide them as they reflect on the experience. Every BW student must complete the Experiential Learning Requirement prior to graduation. Transfer credit will not be accepted to meet the BW experiential learning requirement. <http://www.bw.edu/academics/experiential-learning/>

# Grading System

At the completion of a semester's work, students are graded in each subject. Grades given are:

## Grade Quality

### Points:

A+	4.000	S	Satisfactory hours earned toward degree, equivalent to A, B or C, no quality points
A	4.000	U	Unsatisfactory. No hours earned toward degree, equivalent to C-or below
A-	3.667	I	Incomplete
B+	3.333	W	Withdrawal prior to completion of 60% of the course
B	3.000	WP	Withdrawal passing after completion of 60% of course with registrar's approval
B-	2.667	WX	Withdrawal failing after completion of 60% of course with registrar's approval
C+	2.333	AU	Audit. No credit
C	2.000	NR	Non-reported grade by instructor
C-	1.667	CIP	Courses in progress
D+	1.333	T	Temporary grade for continuing course, work must be validated by subsequent letter grade to count for credit
D	1.000		grade to count for credit
D-	0.667	F#	Failure for stop attending a class
F	0.000	*	Grade Forgiveness. First attempt not in GPA
		^	Returning Student Forgiveness. First attempt not in GPA.

Quality points are used in calculating the student's grade point average (GPA). To find the GPA, multiply the number of credit hours in a course by the quality point value of the letter grade (A, four, B, three, etc.); then add the quality points earned for each course and divide by the total number of graded credit hours attempted. Courses graded S, U, I, T, AU, NR, W, WX, and WP are not used in computing GPA.

A GPA Calculator can be found at <https://www.bw.edu/one-stop/plan-degree/gpa-calculators/>.

## Incomplete Grades

The mark "I" is given only when, through no fault of his/her own, a student is unable to complete the work. It is the responsibility of the student to inform the instructor why he/she is unable to complete the work, and the instructor shall determine whether the mark "I" is justifiable. Students receiving an "I" Incomplete grade have until the end of week six, of the immediate subsequent Fall or Spring semester in which they are enrolled, to complete all coursework before they are converted to a grade of "F". All "I" grades will convert to an "F" one calendar year following the completion of the semester in which the "I" grade was given. Extensions to the above deadlines may be recorded, by the instructor of the class, in the grading tool.

## Temporary Grade

The mark "T" is given in courses which are completed over a two- or three-semester period. The "T" indicates that the course work is progressing satisfactorily. A completion date must be stipulated when the instructor submits the "T" grade. Failure to complete work by the established date will result in the grade of "F" being automatically awarded. Work which is given a "T" must be validated by a subsequent letter grade to count for credit.

### **Satisfactory/Unsatisfactory Grades**

**S/U Grading (Pass/Fail)** In order to provide students the opportunity to explore a greater variety of academic disciplines outside their major fields and at the same time reduce the stress of competition with majors in these disciplines, Baldwin Wallace has instituted a "satisfactory-unsatisfactory" (S/U) grading system. Performance in a course equivalent to the traditional "A+" through "C" level will be considered satisfactory (S), while a "C-" through "F" level of performance will be deemed unsatisfactory (U). Students earning an "S" grade will receive credit toward graduation for the course. A "U" grade will appear on the student's transcript but will not provide credit toward graduation. S/U grades do not affect the student's grade point average (GPA). The S/U option is designed to operate on two levels and may be initiated either by the faculty or by the individual student as stipulated below.

- **Faculty Option:** The S/U option may be used, with the approval of the Curriculum Advisory Board of the University faculty, for those courses in which the department concerned feels that the students taking the course cannot be successfully graded according to the traditional "A+" through "F" system. There is no limit to the number of such courses a student may take.
- **Student Option:** Sophomores, juniors and seniors not on academic probation may also elect a maximum of four credit hours per semester, up to a maximum of 20 credit hours, to be graded on an S/U basis. A student may take any course **except those in his major or minor department, those required by his major or minor department and foundation courses ENG 131 and the core MTH course** on an S/U basis. All other courses, including the general curriculum requirements, may be taken under the S/U option. If a student declares their major as undecided but, at a later date, majors in the department that was taken as a S/U, the professor will be asked to submit a grade and it will be calculated into the GPA. The decision by the student to take a course on this basis must be declared to the registrar by the last day of the fourth week of the term. The student may, within the same period, nullify the election of this option. Students being graded under the S/U option must fulfill all requirements of the course.

### **Repeated Courses and Grades**

Any course in which a grade of "C-" through "F" is received may be repeated; credit toward the degree (hours earned) may be received only once. However, the hours and quality points represented by each attempt will be included in the grade point average (GPA). See Grade Forgiveness Policy for an alternative option available to undergraduate students. See Returning Student Grade Forgiveness Policy for an alternative option for students who have not attended for a minimum of 5 years.

### **Audit Credit**

Grades are not given for non-credit (audit) work. A student who desires a grade in a course must take it for credit. Courses are offered for credit or audit. A student taking a course on an audit basis will agree with the course instructor to participate in certain aspects of the course (often this is class attendance). If this agreement is fulfilled, the course instructor will authorize the registrar to indicate on the student's transcript that the course was taken on an audit basis. If the agreement is not fulfilled, a grade of "W" will appear on the transcript. Changes from audit to credit may not be made after the first week of the semester.

### **Grade Forgiveness Policy**

All undergraduate students can retake a course only once and the new grade replaces the previous grade in their GPA calculation. While both grades would still appear on a university transcript, the first grade would not count toward the GPA and would be designated as such. The total number of forgiveness credit hours (attempted a second time) shall not exceed 10 and may only apply toward 300 or lower level courses. Student credits forgiven under the old Freshman Forgiveness Policy will count toward the maximum 10 credits in this policy.

### **Returning Student Grade Forgiveness Policy**

A student returning to Baldwin Wallace University can request to benefit from the Returning Student Grade Forgiveness Policy. Under that policy, the student's grade point average (GPA) does not include the grades earned in prior attempts at Baldwin Wallace University.

The following requirements apply:

1. The returning student must have been separated from Baldwin Wallace University for a minimum of five years.
2. The returning student must have either
  - a. Demonstrated academic improvement at another two- or four-year accredited institution by earning a minimum GPA of 2.75 for a minimum of 12 credit hours.
  - or
  - b. Earned a GPA of 2.75\* upon completion of 12 credit hours after being re-admitted to Baldwin Wallace University.  
(\*Candidates for licensure must meet the required GPA as stipulated by their school of study.)
3. After re-admission, the student must earn the minimum number of credits required by the residency requirements of the University.
4. All grades previously earned at Baldwin Wallace University will remain on the student's transcript, whether passing or failing, but will be marked with a code ^ explaining that these grades have been "forgiven" and were not used to calculate the student's cumulative GPA.
5. Only those courses in which the student earned a non-failing grade will be counted toward graduation.

## Graduation Requirements

It is the responsibility of the student to meet all requirements for graduation. Students are eligible for the bachelor's degree when they have fulfilled the following requirements:

1. They must have completed the minimum designated credit amount of their degree program. These credits must include the requirements for a major and a minor in an academic area, in addition to the general core curriculum requirements and completion of an approved Experiential Learning Requirement.
2. Students must have at least a 2.00 grade point average.
3. All financial obligations to the University must have been met.
4. Students are required to complete 45 of the required credits for graduation at BW.
5. Students must successfully complete the comprehensive examinations if required by the major department.
6. Students must participate in any assessment activities for which they have been selected unless they have been excused by the Assessment Director.
7. Students must file an application for graduation no later than the beginning of the semester preceding the one in which they expect to graduate. The application is available on the students My Records menu.
8. Graduating seniors are expected to attend the Commencement exercises.

## Graduation with Honors

Honors are based on all undergraduate work at Baldwin Wallace. Candidates for academic honors at the end of the senior year are recognized at Commencement. Eligibility is determined by the completion of the minimum designated credit amount of their degree program with the following minimum grade point averages:

For a degree *cum laude* 3.60

For a degree *magna cum laude* 3.75

For a degree *summa cum laude* 3.90

In order to receive a diploma with academic honors, a student must have completed at least 45 at Baldwin Wallace in courses graded A+ through F.

Transfer students are eligible to graduate with honors provided their grade point average earned at Baldwin Wallace meets the stated minimum requirements.

## Dean's List

Degree-seeking undergraduate students with superior academic standing are recognized each semester by the Dean. Any full-time student who achieves a GPA of at least 3.8 for twelve or more graded hours (not including grades of S), or part-time student who achieves a GPA of at least 3.8 for six or more graded hours (not including grades of S), in the Fall or Spring semester will be placed on the Dean's List. To be eligible for the Dean's List, no

student may have a grade of U (unsatisfactory), I (incomplete), NR (non-reported), or WX (withdraw failing) as of the day final grades are due in the Registrar's Office.

## **Alpha Sigma Lambda**

Alpha Sigma Lambda is the premier national honor society for non-traditional students. The local chapter, Beta Upsilon, is one of more than 300 throughout the country. It sponsors campus scholarships open to all qualifying undergraduate adult, transfer, and military students. Membership selection occurs once a year. Members are selected from the highest 20 percent of eligible students who have a minimum 3.2 GPA, 24 graded hours at Baldwin Wallace and are matriculated in an undergraduate degree program.

## **Dayton C. Miller Honor Society**

The Dayton C. Miller Honor Society was founded at Baldwin Wallace University in 1948 and recognizes the top 100 current student GPA's. This ceremony is in memory of Dayton C. Miller (Class of 1886), one of the most distinguished graduates of the University. Dr. Miller was noted for his research into the science of acoustics and for his unique collection of flutes, currently held by the Smithsonian. He served as secretary and later president of the Baldwin Wallace University Board of Trustees, and he was active in the University community until his death in 1941.

Requirements for induction: Students who have earned a minimum of 70 semester hours, with minimum of 45 semester hours at BW, and whose GPAs are in the top 100 current BW student GPAs are eligible for the honors society, if they are not already a member.

## **Academic Calendar**

The Academic Calendar can be found at <https://www.bw.edu/one-stop/registration/calendar/>.

## **Academic Assessment Program**

As stated in the University mission, Baldwin Wallace University strives to provide a rigorous academic program characterized by excellence in teaching and learning within a challenging and supportive environment that enhances students' intellectual and spiritual growth. Toward that end, and consistent with accreditation standards, Baldwin Wallace University has developed a comprehensive plan to assess student academic outcomes. By determining what Baldwin Wallace students learn, the University seeks to continuously monitor and improve the quality of its academic program (pedagogy, curriculum, instructional resources and student services). Baldwin Wallace's Assessment Plan focuses on measuring academic outcomes (performance) at appropriate points during students' University careers. To this end, students are assessed at both the core curriculum level, which may occur at the institutional or program level, and at the program (academic major) level. From these data, the University produces aggregate and group level comparisons of student performance over time. While not all students will be asked to participate in core curriculum assessment at the institutional level, it is possible that a student may be selected more than once (for example, during their freshman and senior year). It is important to note that when a student does participate in these University-wide core assessment activities, in no way will the student's performance affect a course grade, graduation eligibility, class rank or overall grade point average. Program-level academic major assessment activities may or may not impact student grades, at the discretion of individual departments.

In addition to the assessments described above, students are asked to voluntarily participate in national surveys at different points in their academic careers to assess their engagement and satisfaction with various aspects of their experience at the University.

## Undergraduate Academic Opportunities

In addition to established courses and programs of study that fulfill requirements for the University core, majors, minors, and electives, the following credit opportunities are available to undergraduates at Baldwin Wallace.

### Advanced Placement Program

Advanced Placement (AP) examination scores prepared by the College Entrance Examination Board in the following subjects will be considered for credit at Baldwin Wallace: history of art, studio art, biology, chemistry, computer science, economics, environmental science, literature and english composition, foreign languages, geography, government and politics, history, mathematics, music, physics, and psychology.

Baldwin Wallace University recognizes the merits of the Advanced Placement Program and awards credit as appropriate. Students who present a score of 3, 4 or 5 in the Advanced Placement Program examination may be awarded credit, with placement and course equivalents determined by the academic department.

<https://www.bw.edu/one-stop/plan-degree/advanced-placement/>

The program is administered by the Registrar who processes credit awards and notifies students concerning application of credit and placement.

### International Baccalaureate Program

Baldwin Wallace University recognizes the merit of the International Baccalaureate and awards credit as appropriate for higher level examinations on which the student scores a 5, 6, or 7. Subjects that may be considered for credit upon approval of the appropriate academic department are: English Composition, Foreign Language, Biology, Chemistry, History, Mathematics, Physics and Psychology. <https://www.bw.edu/one-stop/plan-degree/international-baccalaureate-credits/>

### The College Level Examination Program (CLEP)

The College Level Examination Program, an activity of the College Board, makes examinations available through which a student may receive credit toward the bachelor's degree. Two types of examinations are offered: general examinations (humanities, natural sciences and social sciences) and a number of subject examinations ranging from American Government through Western Civilization. Baldwin Wallace University is a CLEP Test Center.

The faculty of the University recognizes the merits of CLEP and is prepared to make the following awards to those students who qualify:

1. In order to qualify for credit in any of the examinations offered in CLEP, the student must meet each of the following requirements:
  - a. The student may not receive credit for a general examination if he/she has already earned University credit in more than one discipline covered by the appropriate general examination.
  - b. The student may not receive credit for a subject examination that covers the same subject area in which the student has already earned University credit.
2. Credits awarded from the CLEP program are considered transfer credit.
3. Further information concerning the details of the various examinations, score requirements, and registration procedures is available on the BW web site at <https://www.bw.edu/one-stop/plan-degree/advanced-placement/#clep>.

### Advanced (A/AS) Level Examinations

Baldwin Wallace University recognizes Advanced (A) or Advanced Subsidiary (AS) Level Examinations administered by Cambridge International Assessment (CIA), Pearson-Edexcel, Oxford International AQA, The Assessment and Qualifications Alliance (AQA), and The Oxford, Cambridge & RSA Examinations (OCR). AS-Levels are awarded 4 semester credits for grades "a" through "e". A-Levels are awarded 8 semester credits for grades "A\*" through "E". Official score reports must be submitted to Baldwin Wallace University Admissions Office before credit can be applied to a student's academic record.

## Prior Learning Assessment

Prior Learning Assessment allows students to identify University-level learning already acquired, relate it to the curriculum at BW, and develop a portfolio. The student must have previously completed an English composition course at BW or another educational institution to participate in Prior Learning Assessment.

The student develops a portfolio to document University-level learning. The portfolio is submitted for faculty and academic department assessment and determination of credits. Fees are charged for assessment of the portfolio and transcription of credit earned.

## Departmental Thesis/Project

The Departmental Thesis/Project gives juniors and seniors the opportunity to do intensive work in a particular subject. Students develop their study under the direct supervision of a faculty member as approved by the head of the department or program in which the study will be done. The departmental thesis/project is intended to afford students an opportunity to engage in study of a significant field of knowledge, to carry on original investigation when possible, and to further develop their abilities of self-expression.

## Faculty-Student Collaboration Courses

The broad goals of the FSC courses are: (1) to encourage and support faculty-student collaborations as they tackle the unscripted problems typical of research, scholarship and other creative endeavors; and (2) to facilitate deep learning as student-faculty teams examine, create, and share new knowledge or original works.

The Baldwin Wallace University program to encourage **Faculty-Student Collaboration** (FSC) is based in the knowledge that strategies that have proven successful for creative work also enable student learning. Systematic exploration of unscripted problems exercises all of the core skills that we wish our students to possess.

<http://www.bw.edu/academics/research/>

## Independent Study Program

Independent study is designed to encourage the study of academic topics beyond those included in the course offerings of the University, providing an opportunity for students to explore an area of special interest. Approved independent study proposals may not duplicate a course presently in the curriculum without permission of the department. Independent study is an individualized academic investigation carried out by a student under faculty supervision. Any full-time or part-time student who is sophomore status and has a GPA of 2.00 or better may participate in an approved independent study.

## Internship Program

An internship is a form of experiential learning (EXP) that integrates knowledge and theory learned in the classroom with practical application and skills development in a professional setting. Internships give students the opportunity to gain valuable applied experience and make connections in professional fields they are considering for career paths and give employers the opportunity to guide and evaluate talent. Internships for academic credit are undertaken with faculty supervision to supplement or complement the student's academic programs. The Career Center facilitates the process by which students earn academic credit for internships and/or EXP. Students participating in a noncredit internship for EXP are supervised by the Career Center's professional EXP mentor to ensure their internship enables the student to develop their professional skills using the NACE Career Readiness Competencies as a foundation. Students interested in pursuing an internship for academic credit or EXP must view the Internship Registration Workshop Video and submit their Internship Registration Request Form within the first two weeks of starting the internship. EXP and academic credit for internships must be registered during the semester that the work is completed. For details please see: <https://bw.joinhandshake.com/stu/articles/4816>.

## Language Across the Curriculum

The Language Across the Curriculum (LAC) program is an exciting curricular option at Baldwin Wallace University that provides students with an excellent opportunity to practice their foreign language skills in non-language courses and enhance their understanding of course content. Students have the opportunity to read, write, or speak in a foreign language, thereby strengthening their language skills and at the same time enriching their understanding of



the course material from the perspective of another culture. Consistent with BW's mission to create "caring, compassionate citizens of an increasingly global society," LAC helps students gain an appreciation of language, an understanding of how other cultures express themselves, and an opportunity to apply their language skills in a practical setting. LAC is designed for students with varying degrees of language proficiency.

## Course Assistants

Course Assistants are undergraduate students who work with BW faculty members in the planning and implementation of a class. Students working as course assistants are required to meet all the expectations of the Internship Program in order to receive academic credit.

- Credit for internships as a course assistant is designated under the number x96.
- The faculty member teaching the class in which the student is serving as a course assistant is designated as their "Employer Supervisor."
- Another faculty member will serve as a Faculty Coordinator.
- Course assistantships are graded S/U and require final evaluations to be submitted to the Career Center for the grade to be released.

## Reserve Officers' Training Corps (ROTC)

Reserve Officers' Training Corps (ROTC) programs are available to Baldwin Wallace University students through cooperative arrangements with Kent State University, for Air Force ROTC and with John Carroll University, for Army ROTC. Each of these universities offer military studies, leadership, and training courses. Participating students may seek transfer credit at Baldwin Wallace University for some of these courses. Please contact John Carroll University or Kent State University for more detailed information on their ROTC programs. Also see ROTC Scholarship information at: <https://www.bw.edu/one-stop/finances/scholarships/rotc/>.

## Explorations/Study Abroad

The Explorations/Study Abroad Center is part of a larger effort to expand students' learning by linking the curriculum to the world beyond Baldwin Wallace. The University offers study away opportunities in various countries around the globe and across the country. With an increased emphasis on globalization in the marketplace, off-campus study can be an integral part of any student's University education. Whether his/her major is art, economics, or anything in between, studying away provides students with an invaluable learning experience. An Explorations program is not a simple sightseeing tour, but rather a wonderful opportunity that allows students to experience their education in a different setting. Credits and costs for the majority of these programs are comparable to that of a semester at BW. However, studying away fosters the type of personal and professional growth that may be difficult to experience on campus. <http://www.bw.edu/academics/study-abroad/>.

## Carmel Living Learning Center

Carmel is a living learning community (LLC) which links academic course work and specialized programming within the residence hall. As a Carmel resident, students are presented with many valuable "life" opportunities:

- Meet Peer Mentors who aid students in questions pertaining to majors, classes, clubs, and more
- Cultivate greater awareness of personal beliefs and values
- Explore academic and career goals
- Enhance intercultural knowledge and competence
- Develop a deeper understanding of personal and civic responsibility
- Connect with others in the residential, campus and local communities

Two specific LLC programs are housed in Carmel. Those include the Science-Technology-Engineering-Math (S.T.E.M.) and the Sophomore Year Experience (SYE) communities.

**S.T.E.M. (Science-Technology-Engineering-Math)** provides students that are in a STEM major a residential setting to live and learn with other students in the STEM majors. Programming such as speakers and dinner discussions with STEM professors are provided by the Residence Life staff. More information about S.T.E.M. can be found at <http://www.bw.edu/academics/stem/>.



**Sophomore Year Experience (SYE)** provides sophomore students a career preparation and exploration experience. Students enroll in a Career Decision Making course and participate in multiple outlets that will enhance their in and out of classroom experience. Students will conduct informational interviews with professionals in fields of interest, explore experiential learning opportunities such as an internship, undergraduate research or service learning and gain valuable insight in the career(s) that interest them.

## **Adult and Military Students**

Baldwin Wallace has been active in adult education since 1947 and continues to provide a rigorous curriculum and services designed for non-traditional students. Degree-seeking students can find both day and evening programs and course options to accommodate the time constraints of working adults. Many degree completion programs and certificates are designed with flexibility and convenience. Adult and military students receive the added benefit of priority registration.

Adult and military students should refer to other sections of the Catalog for more details related to undergraduate degree requirements, special academic opportunities such as field experience and independent study, financial aid, academic support services, credit for prior learning, transfer credit, and admissions.  
<http://www.bw.edu/undergraduate-admission/adult/>.

## **Evening and Immersion Class Schedule and Formats**

Baldwin Wallace offers courses in the evenings during Fall, Spring, and Summer terms.

**New courses are available for registration every eight weeks during the Fall and Spring terms. Multiple course formats are available during the summer term.**

The number and length of meeting times will depend on the course credit and format involved. Evening courses typically begin at 6:15 p.m. Check the schedule for meeting times.

**Minimesters** are offered in the evening and in hybrid or online formats from some degree programs. Minimesters are accelerated 8-week sessions that require extensive out of class coursework and often include an advance assignment.

**Immersion Courses** are typically completed in one or two weeks. **Be sure to check the course schedule for exact days, dates and times for class meetings.** In addition, an advance or pre-assignment may be required and a post-completion assignment may be due several weeks after the class is over.

**Hybrid and Online Courses** – Hybrid courses meet in the classroom two or three times during the term. All other course assignments, group projects and learning activities are completed online or independently by the students, providing a flexible time format for busy individuals. Online courses are completed totally online. In order to participate, each student must have a computer and a reliable, high-speed internet connection. Canvas, the University's online course management system, will be utilized. Organized and self-disciplined students are encouraged to try the hybrid or online course format.

# Academic Support Services

## Academic Advising

Academic Advising at Baldwin Wallace University is a developmental process of faculty members working with students to strategize, develop, and implement a plan related to students' educational, career, and personal goals. Through this interactive relationship, students learn how to utilize resources and tools to make effective, self-directed decisions. While this process is a collaborative effort, the ultimate responsibility for making decisions rests with the individual student.

**Academic Advising** is available to all students who are admitted to Baldwin Wallace University. Advising for full-time undergraduate day students is provided by faculty and Learning Center specialists and coordinated by the Office of Academic Advising. Students who have declared a major will be advised by faculty in that department or school. Students whose majors are undecided are advised by a faculty member in a department of interest, a faculty member who works with undecided students or by the Office of Academic Advising.

Students should contact the Office of Academic Advising to talk to an advising professional about planning their courses, to discuss academic issues, or exploring different major or minors.

For more information, visit <http://www.bw.edu/academics/student-success/advising/>, call 440-826-2188, or e-mail at [advising@bw.edu](mailto:advising@bw.edu).

## Career Center

The mission of the BW Career Center is to connect students and alumni with personalized resources, information, and networks that empower them to reflect on their experiences, understand and articulate their skills and strengths, and design plans for personal and professional success. We support students and alumni in planning, preparing, and managing their careers by helping them to:

- Identify and explore career areas that align with one's interests and priorities through a process of self-discovery, experimentation, and reflection.
- Connect and engage with others to develop mutually supportive relationships and cultivate a network of professional contacts.
- Apply effective job/internship search and graduate school application skills in the attainment of desired career goals.
- Recognize and convey value to a potential employer or graduate school through the articulation of skills and strengths in both written and verbal forms of communication.

For more information please visit: <https://jacketconnect.bw.edu/careercenter/home/>.

## Graduate Study

The University encourages students to continue their formal education in graduate programs and post baccalaureate certificates and professional degrees. Baldwin Wallace has such programs in the Carmel Boyer School of Business, School of Education, and School of Health Sciences. The Office of Career Services hosts a graduate school fair for BW and other universities each year. Their advisors also offer graduate school workshops and have extensive resources on graduate programs and standard, pre-admission exams.

Baldwin Wallace offers six graduate degrees:

Master of Business Administration <http://www.bw.edu/graduate/business/mba/>

Master of Arts in Education <https://www.bw.edu/academics/master-of-arts-in-education/> and <https://www.bw.edu/academics/leadership-higher-education/>

Master of Medical Science <http://www.bw.edu/graduate/physician-assistant/>

Master of Science <https://www.bw.edu/academics/speech-language-pathology/>

Master of Public Health <http://www.bw.edu/academics/master-public-health/>

Master of Accountancy <https://www.bw.edu/schools/business/graduate-professional/master-accountancy/>

## Information Technology

The Department of Information Technology maintains a reliable, secure network and communication infrastructure, while supporting applications, training, and services for the students, faculty, and staff. <http://www.bw.edu/about/offices/information-technology/>

## Ritter Library

Ritter Library, located on BW's North Campus, provides extensive informational resources for student and faculty use. Over 600,000 ebooks, 120,000 print volumes, 118,000 online journal subscriptions and access to more than 285 databases make Ritter Library an important resource for student and faculty research. Ritter Library's website: <https://libguides.bw.edu/library/> provides on-and-off campus access to all its resources. Through Ritter Library's membership in OhioLINK, BW students and faculty can easily borrow materials from nearly all academic libraries in Ohio, plus several major public library systems.

Ritter Library's professional reference staff provides direct one-on-one assistance to library users in person, or remotely via phone, chat or email (see Services - Meet with a Librarian from the library website). Reference librarians also provide library instruction to BW courses, and develop subject guides and online tutorials. The librarians serve as liaisons with academic departments, in order to build the collections and promote usage.

Public scanners and a printer are available. A computer lab with 23 workstations and 25 additional computer workstations are available throughout the building. Ritter has wireless internet access, study rooms, student collaborative worktables and a comfortable student lounge. Study rooms can be reserved from the library homepage.

## Center for Academic Success & Achievement (CASA)

The Center for Academic Success & Achievement (CASA) offers a robust selection of services to help students build the reading, writing, and learning skills necessary for their coursework and career advancement after graduation. Learn more by visiting the CASA website ([bw.edu/CASA](http://bw.edu/CASA)) or Jacket Connect page ([jacketconnect.bw.edu/CASA](http://jacketconnect.bw.edu/CASA)). Stop by the top floor of Ritter Library to study independently, meet with a group, work with a tutor, or attend a workshop.

**Individual Services:** Work one-on-one with professional staff or peer tutors by making appointments for Academic Coaching, Individual Tutoring, Reading Support, and Writing Support.

**Group Services:** Engage with a community of learners by visiting Drop-In Tutoring, attending Supplemental Instruction (SI) sessions, participating in a Success Seminar, or joining a study group.

**External Online Services:** When CASA staff and tutors are unavailable, BW students have 24/7 access to on-demand online tutoring services.

Reach out to us by phone (440-826-2425) or email ([casa@bw.edu](mailto:casa@bw.edu)) with questions.

## Office of Accessible Education

The Office of Accessible Education collaborates with students, faculty, and staff to help create equitable, inclusive educational environments for qualified students with disabilities. Accessible Education works to address educational barriers by providing access to reasonable accommodations, services and resources while maintaining the rigorous academic standards and integrity of Baldwin Wallace University. We engage in outreach across campus to ensure a more accessible and welcoming environment for people with varying disabilities.

For detailed information on our policies and procedures, please visit [www.bw.edu/accessible-education](http://www.bw.edu/accessible-education).

Location: Bonds Administration Building

Email: [disability@bw.edu](mailto:disability@bw.edu) Web: [www.bw.edu/accessible-education](http://www.bw.edu/accessible-education)

# Student Status Policies

## Criteria Related to Status

**Undergraduate Full-time status**—Students who have met the entrance requirements and are enrolled in a program of 12 to 18 credit hours per semester. The average class load is 15 or 16 hours. The maximum load is 18. Students are not permitted to take more than 18 credit hours unless they have a cumulative GPA of 3.00 and written permission of their Faculty Advisor and the Registrar. A class load below 12 credit hours carries the status of part-time student.

**Sophomore, Junior, Senior status**—To be ranked a sophomore, a student must have earned at least 25 credits; a junior must have earned at least 57 credits; and a senior must have earned at least 91 credits.

## Academic Standing

The criteria to measure academic performance is the semester and the cumulative grade point averages (GPA), computed on the basis of that portion of the student's coursework which is graded on a letter-grade basis.

There are four categories of academic performance recognized by the University:

**Good Standing** — Students who are making satisfactory progress toward the completion of their degree requirements and whose semester and cumulative GPA meet the University's minimum levels of acceptable performance (see below). A minimum 2.000 GPA is required for graduation.

**Academic Alert** — Full-time students whose cumulative GPA has fallen below the minimum levels of acceptable performance for the first time (see table below), or new full-time students who earn a first semester GPA between 1.201 - 1.699.

**Academic Probation** — Full-time students whose cumulative GPA has fallen below the minimum levels of acceptable performance for a second time (see table below), or new full-time students who earn a first semester GPA between 0.500 - 1.200.

**Academic Suspension** — Students that fail to meet the conditions of their Academic Contract, or full-time students earning a semester GPA of 0.499 or below will be placed on Academic Suspension. Students suspended will have their permission to register revoked. Once suspended, individuals must remain on suspension for a minimum of one academic semester (Fall or Spring) before applying to be reinstated. Students who are placed on Academic Suspension at the end of the Spring semester may not take summer classes. (see **Reinstatement** below).

With respect to these criteria, there are a series of plateaus to allow time for adjustment to the expectations of the University. **The minimum levels of acceptable performance are:**

Hours Attempted or Earned (whichever is greater)	Minimum Cumulative GPA Required
1-11	--
12-24	1.700
25-40	1.800
41-56	1.900
57+	2.000

## Restrictions

### Academic Alert Status

Students on Academic Alert are subject to the following restrictions:

1. They must complete an Academic Self-Assessment by the first week of the semester.
2. They must meet with an assigned mentor and develop an Academic Contract by the fourth week of the semester.
3. They may not hold any office or leadership role in any student or University organization or activity.
4. They may not participate in April Reign activities.
5. They may not pledge, nor be initiated into, a national social fraternity or sorority.
6. They may not represent the University in any on- or off-campus event.
7. They are ineligible to represent the University in intercollegiate athletic competition.
8. Other restrictions may be established for individual situations.

### Academic Probation Status

Students on Academic Probation are subject to the following restrictions:

1. They must complete an Academic Self-Assessment by the first week of the semester. Failure to do so will result in immediate Academic Suspension.
2. They must meet with an assigned mentor and develop an Academic Contract by the fourth week of the semester. Failure to do so will result in immediate Academic Suspension.
3. They may not hold any office or leadership role in any student or University organization or activity.
4. They may not participate in April Reign activities.
5. They may not pledge, nor be initiated into, a national social fraternity or sorority.
6. They may not represent the University in any on- or off-campus event.
7. They are ineligible to represent the University in intercollegiate athletic competition.
8. Other restrictions may be established for individual situations.

### Procedure for Changing Categories

The general procedure to be followed in changing a student's academic standing will be:

1. At the end of each academic semester, the Registrar will ascertain the GPA for each student. An "I" grade will be referred to the Academic Appeals Board for a ruling on academic standing.
2. Each student will be placed in one of the four categories of academic standing described above. Academic standing will be determined on the basis of the total number of academic hours attempted or earned, whichever is greater as of the end of the most recent semester. Students transferring to Baldwin Wallace will be required to achieve at the academic level corresponding to the number of hours transferred plus the number of hours attempted at Baldwin Wallace since transferring.
3. A student who fails to meet the minimum level of performance for the criteria listed above will be placed on Academic Alert or Academic Probation and will be subject to the restrictions described above. A student will be removed from Academic Alert or Academic Probation when their cumulative GPA meets the required minimal levels and they have met the conditions of their Academic Contract.
4. A student placed on Academic Probation for a second time will be placed on Academic Suspension. A student who has been placed on Academic Probation and has shown significant improvement but whose cumulative GPA does not meet the minimum requirement may be Permitted to Continue on Probation at the discretion of the Academic Appeals Board.
5. Students who are placed on Academic Suspension at the end of the spring semester may not take summer classes and must remain on suspension for a minimum of one academic term (Fall or Spring) before applying for reinstatement.
6. A full-time student who, in any semester, receives a semester GPA of less than 0.500 will be placed on Academic Suspension. A full-time student who drops a course, is graded on 7-11 remaining hours, and earns a GPA below 0.500 will be placed on Academic Suspension. If a full-time student receives an "I"

grade in one or more courses, but the graded courses result in a GPA below 0.500 the case will be referred to the Academic Appeals Board for evaluation. This evaluation will be based on such considerations as the student's previous record, the reason for the "I" grade(s), and the quality of the work prior to the "I" being given.

7. Students enrolled for fewer than 12 hours during any semester will be considered part-time students. They will be evaluated whenever they have attempted or earned enough hours to take them to the next acceptable performance plateau or at the end of every 15-hour block of hours attempted after they have attempted more than 57 credit hours.

## Reinstatement

When a student has been placed on Academic Suspension, the only way that the student may return is to petition for Reinstatement after stopping-out for at least one semester. The student must present a typed application for reinstatement to the Academic Appeals Board by the deadline for the desired semester of return (for Fall Semester, July 31; for Spring Semester, November 15; for Summer Semester, May 15). Applications for reinstatement can be obtained from the One Stop website. The Academic Appeals Board will review each petition, any supporting evidence, and will interview the applicant before deciding whether or not the students will be reinstated and, if so, the conditions under which reinstatement may occur. The decision of the Academic Appeals Board is final, although students may reapply in subsequent semesters. Unless permission has been obtained from the Academic Affairs Office, any coursework completed at another college while a student was suspended from Baldwin Wallace will not transfer back to BW unless approved by the Academic Appeals Board or the Associate Provost. If the student does not return to study at Baldwin Wallace University for the semester of reinstatement for which he/she/they applied, the academic status will undergo another administrative review to determine eligibility for the semester the student does intend to return.

## Attendance Policy

All faculty must have a clearly stated attendance policy in their course syllabus.

In the absence of an attendance policy in a course syllabus, the default University attendance policy (below) will be followed.

- A. The policy of the University is that all students are expected to attend all classes. It is realized, of course, that not all students will, or can, attend all classes due to intercollegiate athletic events, university-sanctioned co-curricular activities, course field trips, religious holidays, family emergencies, and personal illness. As a result, students will be allowed to miss a maximum of 10% of the class meeting time without grade penalty. The student is responsible for all course material and graded work due to absences. It is up to the discretion of the professor to decide if, when, where, and how the missed work is completed.
- B. Since cumulative absences compromise students' fulfillment of course requirements, the final grade will be lowered incrementally for each absence after the students have missed 10% of their class meeting time, regardless of the reason. Students who miss 20% of their class meeting time will earn an F in the course.
- C. Attendance policy for MWF courses
  1. For a full semester course
    - a. Five (5) missed classes represent 10% of the course.
    - b. For every subsequent absence after the fifth absence, a student's final grade will be lowered one-third of a grade for each absence.
    - c. If a student misses nine (9) classes, the student will earn an F in the course.
  2. For a mini-semester course
    - a. Three (3) missed classes represent 10% of the course.
    - b. For every subsequent absence after the third absence, a student's final grade will be lowered one-half of a grade for each absence.
    - c. If a student misses five (5) classes, the student will earn an F in the course.
- D. Attendance policy for TTh courses
  1. For a full semester course
    - a. Three (3) missed classes represent 10% of the course.

- b. For every subsequent absence after the third absence, a student's final grade will be lowered one-half of a grade for each absence.
    - c. If a student misses six (6) classes, the student will earn an F in the course.
  - 2. For a mini-mester course
    - a. Two (2) missed classes represent 10% of the course.
    - b. For every subsequent absence after the second absence, a student's final grade will be lowered one-half of a grade for each absence.
    - c. If a student missed four (4) classes, the student will earn an F in the course.
- E. Attendance policy for once per week courses
  - 1. For a full semester course
    - a. Two (2) classes represent 10% of the course.
    - b. For every subsequent absence after the second absence, a student's final grade will be lowered one full grade for each absence.
    - c. If a student misses four (4) classes, the student will earn an F in the course.

Any student who wishes to notify a professor(s) of an absence due to an unforeseen circumstance (hospitalization, extended illness, injury/accident, family crisis, death of an immediate family member) may complete the Crisis/Emergency Notification form located on the One Stop website <https://www.bw.edu/one-stop/forms/>. Professors will be notified of the absence as a courtesy to the student, but the notification does not serve as an excuse for the absence. The student is ultimately responsible for contacting each professor directly (as soon as able) to discuss the absences and determine next steps.

Any student who wishes to be excused for sports-related, performance-related events or academic field trips must present the professor with advance notification (e.g., a letter signed by a coach or other faculty member) at the beginning of the term for scheduled events, and as far in advance as possible for events scheduled while the term is in progress.

Regardless of reasons for the absence, the student is responsible for contacting the professor at the beginning of the term for scheduled events, and as far in advance as possible for events scheduled while the term is in progress. **The student is responsible for any work he/she may have missed due to absence, excused or unexcused.** It is up to the discretion of the professor to decide when, where, and how the missed work is completed.

## Financial Obligations and Refunds

The payment due dates for all University charges and fees can be found from this link. For each billing cycle, your account statements will be assessed a finance charge on any unpaid balance until the account is paid in full. If full payment cannot be made by the first due date, the student should make alternate arrangements through the Bursar's Office.

For your convenience BW has an online Payment Portal that is available 24/7. Payment can be remitted with VISA, MasterCard, Discover or electronic check. Credit card payments are subject to a 2.85% convenience fee while there is no fee for making a check payment online.

If you would like to spread out your payments for the current semester, you may enroll in the five-month payment plan through the Payment Portal. A small processing fee applies but there are no finance charges if you are on the BW Payment Plan.

**Students with a past due balance will not be allowed to register for the next semester unless full payment of the account has been received prior to the student registration appointment time.** Students who are delinquent in meeting their financial obligations to the University are subject to additional restrictions. Certificates of credit (transcripts) or letters of honorable dismissal will not be issued. Diplomas will not be awarded. Students should contact the Bursar to make arrangements to resolve their past due account status.

University refundable tuition is based on the published refund schedule.

### Certification of Enrollment/Non-Assessment of Late Fees for Chapter 31 or 33 Educational Benefits

Baldwin Wallace University permits any covered individual to attend or participate in the course of education during the period beginning on the date on which the individual provides to the certifying official a certificate of eligibility for entitlement to educational assistance under chapter 31 or 33 and ending on the earlier of the following dates:

1. The date on which payment from the VA is made to the institution.
2. 90 days after the date the institution certified tuition and fees following the receipt of the COE

Baldwin Wallace University will not impose any penalty, including the assessment of late fees, the denial of access to classes, libraries, or other institutional facilities, or the requirement that a covered individual borrow additional funds, on any covered individual because of the individual's inability to meet his or her financial obligations to the institution due to the delayed disbursement of funding from the Department of Veterans Affairs under chapter 31 or 33.

For more information about financial obligations and refunds, go to <https://www.bw.edu/one-stop/finances/payments/billing-refund-policy/>, and for payment <https://www.bw.edu/one-stop/finances/payments/>.

## **Policy on Academic Honesty**

Baldwin Wallace is committed to the growth and learning of its students and believes strongly that such growth and learning prospers best within a community of trust. We believe that academic honesty, the fair and straightforward representation of what one has learned, researched and/or written, is the foundation of a healthy environment for learning. Instructors, administrators, staff, and students alike are responsible for upholding high ethical standards of academic honesty in all academic endeavors, and the academic community of Baldwin Wallace supports the policy that any form of academic dishonesty is a serious breach of ethics and shall be dealt with appropriately. [https://jacketconnect.bw.edu/get\\_file?eid=2762ecab3f6ea86503cf6d6a2e830714](https://jacketconnect.bw.edu/get_file?eid=2762ecab3f6ea86503cf6d6a2e830714)



## Admission Information

### Applying for Admission to Baldwin Wallace University

The Admission Committee carefully examines the academic achievement and aptitude of every candidate for admission to Baldwin Wallace. The goal of the Committee is to admit students who can best benefit from and contribute to the academic program and life of the University.

High school seniors may begin applying to BW for the following fall term as of August 1, though the first notifications for admission will not be sent until early October. Beginning in October, applicants are notified of admission decisions on a rolling basis within two to four weeks upon the completion of their application to BW. The priority application deadline is November 1 for students applying to liberal arts programs. Although students are encouraged to apply before May 1 so they are in a position to meet the priority student deposit deadline, applications will continue to be accepted on a space-available basis until the start of the fall semester. Students applying to the acting BFA program and to the Conservatory of Music have different application and audition deadlines.

Transfer and adult students should apply at least six weeks prior to the beginning of the entry term.

All applications and credentials submitted for admission consideration become the property of Baldwin Wallace University when they are submitted and will not be returned in original or copy form, unless the student has matriculated at Baldwin Wallace University.

For more information on applying to BW, visit <http://www.bw.edu/admission/apply/>.

### First-Time Undergraduate Students

Admission to the University is offered on a selective basis. To be considered for admission, candidates must submit an application at <http://www.bw.edu/admission/apply/>, official high school or GED transcripts, a personal essay, and a summary of school and community activities. A teacher recommendation is optional, as are ACT/SAT standardized test scores. BW requires that applicants have earned either a diploma from an accredited high school or the GED Certificate prior to enrolling at the University. Students who have been homeschooled should consult with the Office of Admission.

While not required, an admission interview, copy of a resume, ACT/SAT standardized test scores, written personal statement, and list of training workshops and seminars are examples of additional information that may be useful for the Admission Committee during the admission process.

Students must provide evidence of their preparation and fit for future success at Baldwin Wallace University consistent with code of conduct statements for the University, program, or profession. All aspects of a student's application are considered and inform an admission decision.

The Admission Committee has determined that the following high school curriculum will best prepare most students for academic success at BW: four units in English; four units in mathematics, including Algebra 2; three units each of social science and natural science coursework; two units in foreign language; and at least three additional elective units from academic areas. Candidates considering majors in the sciences or mathematics are encouraged to include four units of science courses in their high school programs.

Successful candidates for admission have typically earned a minimum B average in their academic coursework and have demonstrated involvement and leadership in school or community organizations.

The University recognizes that some students may be qualified to succeed in an undergraduate program without having followed the recommended high school curriculum. Therefore, applicants whose records indicate academic potential but who have followed an alternate program of study are encouraged to contact the Office of Admission for additional information at 440-826-2222 or [admission@bw.edu](mailto:admission@bw.edu).

### Advanced Placement and International Baccalaureate Programs

Scores from these examinations will be considered for credit by the University. (See Undergraduate Academic Opportunities.) Further information about Advanced Placement credit can be found at <https://www.bw.edu/one-stop/plan-degree/advanced-placement/>. Information regarding International Baccalaureate credit is found at <https://www.bw.edu/one-stop/plan-degree/international-baccalaureate-credits/>.

## Conservatory of Music Students

Admission to the Conservatory is highly selective and is based on the following factors: academic admissibility, audition on primary applied instrument and interviews for the music majors of composition, education, therapy and theory. Students must submit their application, music teacher evaluation, and music profile prior to the audition. Auditions are held in the Conservatory at regular intervals during the academic year. Auditions are filled on a first-come basis after the receipt of the application and audition fee. Audition spots may fill well in advance of the application deadline.

Detailed information concerning admission to specific majors and programs, repertoire requirements, or an appointment for an interview or audition may be obtained by contacting the Conservatory Admission Office by phone at 440-826-2368; by writing to the Conservatory of Music, Baldwin Wallace University, 275 Eastland Road, Berea, Ohio 44017-2088; by email at [music@bw.edu](mailto:music@bw.edu) or via the web at: <http://www.bw.edu/undergraduate-admission/conservatory/>

For policies related to the admission of Conservatory transfer students, see below.

## Acting BFA Students

Similar to admission to the Conservatory, admission to the acting BFA program is highly selective and is based on the following factors: academic admissibility and audition. Auditions are held at regular intervals during the academic year. Auditions are filled on a first-come basis after the receipt of the application and audition fee. Audition spots may fill well in advance of the application deadline.

Specific guidelines can be found at: <http://www.bw.edu/academics/undergraduate/acting>

For policies related to the admission of transfer students to the acting BFA program, see below.

## Adult Students

Adult students applying for admission to Baldwin Wallace must submit an application for admission <http://www.bw.edu/admission/apply/>; official transcripts from all colleges and universities attended, and a letter of recommendation.

At BW, students meeting one or more of the following criteria may be considered an adult student:

- Undergraduates age 24 years or older
- Starting or returning to college more than four years after high school
- Veteran, active military or reservist
- Considered financially independent for purposes of determining financial aid
- Fulfill multiple adult roles such as parent, spouse/partner, caregiver, employee and student

Students who have not completed 25 semester hours of successful college work or have been out of high school less than five years are required to submit an official high school or GED transcript. An on-campus interview with an admission counselor is recommended.

The Admission Committee recognizes that life and career responsibilities, military service and employment history can provide helpful insight into a student's potential for a successful academic experience at the University. As such, each student's previous life experience is considered during the review process. To talk with an admission counselor or learn more about adult programs, call 440-826-8012 or go to <http://www.bw.edu/undergraduate-admission/adult/>.

## Post-Baccalaureate Students

A post-baccalaureate student is someone who has earned a bachelor's degree and wishes to take supplemental undergraduate coursework at Baldwin Wallace University. Post-baccalaureate students may apply online at <http://www.bw.edu/admission/apply/>. Students seeking to earn a second bachelor's degree, a teacher's license, RN license or a certificate program completion must submit official college transcripts from each college or university attended.

BW graduates seeking a second degree from BW after an absence of more than three years will be subject to the institutional (core) and departmental curricular requirements in effect at the time of readmission. BW graduates seeking a second degree after an absence of three years or less will be subject to the institutional (core) requirements in effect when they earned their first degree and to the departmental curricular requirements in effect at the time of readmission. A year is defined as the completion of two consecutive semesters and one summer session.

## **Undergraduate Transfer Students**

Admission to the University is offered on a selective basis. To be considered for admission, transfer candidates must submit an application for admission at <http://www.bw.edu/admission/apply/>; a high school or GED transcript (if out of high school less than five years or if less than 25 transferable college credits have been completed), a letter of recommendation, Office of Student Affairs/Judicial Affairs form (if attending a four-year residential college/university within the last academic year), and official transcripts or evidence of approved withdrawal from all previous colleges and universities attended. ACT or SAT scores are not required. All of the applicant's credentials, including all previous coursework completed at other colleges or universities, are considered in the admission process. Failure to fully disclose all academic records to the Admission Committee at the time of application may be cause for cancellation of admission or dismissal from the University.

Successful candidates for admission typically submit credentials from colleges and universities accredited by a regionally accredited institution, have met the general admission requirements for first-time students and have earned a B average in their college or university coursework. Candidates should be in good academic, social and financial standing at their previous institutions. Students not in good standing at a previous institution may be considered for admission provided they have been out of school at least one full year prior to their proposed date of entrance.

Students must provide evidence of their preparation and fit for future success at Baldwin Wallace University consistent with code of conduct statements for the University, program, or profession. All aspects of a student's application are considered and used as the primary means for informing an admission decision.

The University recognizes that several factors may influence a student's decision to transfer to a new institution. Therefore, a candidate whose record indicates academic potential but who has not met the exact pattern listed above is encouraged to contact the Office of Admission for additional information.

### **Students with Military Experience**

Baldwin Wallace University recognizes military experience as transferable University credit. During the admission process, veterans should submit the DD 214 Form and any military transcripts detailing their training and education in addition to any high school or college academic transcripts. The BW Office of Registration and Records will review these records for possible University credit. For more information, go to <http://www.bw.edu/admission/veterans/>.

### **Conservatory Transfer Students**

Conservatory Transfer Students must submit the BW transfer application with all supporting materials; Conservatory supplement with music essay, music teacher evaluation, and audition fee; and participate in the audition process. The Conservatory reserves the right to assess all music **transfer** credits through placement examinations or course description, particularly in the areas of Music Theory, Music History & Literature, Piano, and Primary Applied Instrument. If a student has had courses in these areas but does not demonstrate the required proficiency, he/she may be required to retake courses as taught by Conservatory faculty. In such a case, the credits will transfer as music electives. Students currently enrolled as music majors at another institution must also submit the transfer release form, per NASM guidelines. <http://www.bw.edu/undergraduate-admission/conservatory/>.

### **Acting BFA Transfer Students**

Students wishing to transfer from another institution to enroll in the acting BFA program at BW must submit the BW transfer application with all supporting materials as outlined on the transfer application webpage, in addition to submitting the audition fee and participating in the audition process. Currently enrolled BW students who wish to transfer into the acting BFA program should contact the director of the acting BFA program to learn more about whether there is space available and, if so, how to schedule an audition.

## Transfer Credit

Courses which fall within the academic scope of the BW curriculum as determined by the faculty and in which a student has received a grade of "C" or better will be considered for transfer credit at BW. The University will transfer credit hours but will not transfer quality points or grades.

Baldwin Wallace will not accept transfer credits earned at an institution without regional accreditation or by examination. University credit may be granted for training programs offered by business and industry and previous military experience as recommended in the American Council on Education's *Guide to Educational Credit for Training Programs*. The training must fall within the academic scope of the Baldwin Wallace curriculum. Official transcripts from the American Council on Education are required before appropriate credit can be determined. The maximum credit accepted from a two-year college is 60 semester hours. More credit is accepted from a four-year college as long as 45 hours of the required 120 hours of coursework is met in residency at Baldwin Wallace.

<http://www.bw.edu/undergraduate-admission/transfer/>

## Associate to Bachelor's Degree (A2BW) Program

Students who have earned an associate degree from any regionally accredited college or university may qualify for BW's streamlined Associate to Bachelor's program to complete their bachelor's degree. **Baldwin Wallace accepts 60 semester hours in transfer for approved associate degrees.** For more information, visit

<http://www.bw.edu/a2bw>.

## Transfer Core

Transfer students with 25 credits or more in transfer, that haven't earned an associate's degree, will follow the Ohio Transfer 36 (OT36) to meet core requirements at Baldwin Wallace.

The Ohio Transfer 36 contains Core Ohio Transfer General Education Foundation courses (24 credits):

- 3 cr. English Composition and Oral Communication
- 3 cr. Mathematics, Statistics and Logic
- 6 cr. Arts and Humanities (2 different disciplines)
- 6 cr. Social and Behavioral Sciences (2 different disciplines)
- 6 cr. Natural Sciences (at least 1 lab course)
- **Plus** 12 credits of additional coursework from the disciplines listed above.
- **Note:** the equivalent of ENG 111 cannot count toward the English Composition or Arts and Humanities areas.

**The transfer core does not apply to freshmen.** Incoming first year freshmen, regardless of the number of transfer credits, follow the current BW core requirements. (Freshmen with a 2.75 GPA or higher completing an associate degree through CCP do receive the A2BW core waiver.)

## Affiliated Partnerships with Ohio Community Colleges

Baldwin Wallace University has established special affiliations with Cuyahoga Community College, Columbus State Community College, Eastern Gateway Community College, Lakeland Community College, Lorain County Community College, and Stark State Community College. Applicants must meet all normal admission requirements and conditions of the University.

## Dual Admission Program

The Dual Admission Program is a joint transfer program with Cuyahoga Community College that allows students to complete an associate degree at Cuyahoga Community College and also be granted admission to Baldwin Wallace University. Students may be admitted to the Dual Admission program directly out of high school depending on the strength of their academic program and performance. Students with less than 25 transferable college credits are encouraged to apply to the program. Once admitted into the Dual Admission program, students must complete a minimum of 25 transferable Tri-C credits, have a minimum cumulative GPA of 2.5, and have completed required English and math courses to be guaranteed degree-seeking admission to BW.

For more detailed information on the Dual Admission Program, please contact the Admission Office or check <http://www.bw.edu/undergraduate-admission/transfer/>.

## **International Students**

International applicants must submit an application at <http://www.bw.edu/admission/apply/>; certified English translations of all official academic records beyond the primary level, the results of the TOEFL, IELTS, SAT or ACT examination, teacher recommendation, a personal statement of educational goals and a statement of financial support. Courses taken at a postsecondary institution outside of the United States need to be evaluated by an agency certified through World Educational Services <https://www.wes.org>; any charges for the service must be paid by student to the agency. For additional information, please visit [www.bw.edu/international](http://www.bw.edu/international) or contact the Office of Admission.

# Registration Policies

## Transient Coursework

Transient status refers to a student who wishes to enroll at another college or university for limited, specific coursework, for the purpose of transferring those courses back to the institution where they are earning a degree.

**Students from other institutions attending BW:** The University may admit a student who has a minimum 2.0 GPA and is in good standing at another institution for specific coursework at Baldwin Wallace. This coursework may apply toward a degree at the student's home institution, based upon regulations at that institution. A transient student application form is available from the Office of Admission (440/826-2222) and must be submitted for each semester of enrollment.

**BW students attending other institutions:** Baldwin Wallace University students may be approved to attend another regionally accredited institution during an academic term and transfer credits to their degree programs at the University. A Transient Student Permit Form must be submitted and approved by the Registrar prior to enrolling at the other institution. Students must be in good academic and financial standing at the University. Course selections must be approved by both the academic department chairperson in whose department the course work will apply and the Registrar of the University. Transient permission is granted semester by semester and may not extend beyond two consecutive semesters.

Students are required to complete 45 semester hours, of their required hours of coursework, in residence at Baldwin Wallace. Transient coursework transferred to the University is subject to all policies and provisions governing transfer course work stated herein. A transient student may not enroll in more credits at another institution than normally could be completed at Baldwin Wallace University in a comparable time period.

## Returning Students

Former Baldwin Wallace students seeking readmission after an absence should contact the Office of Registration and Records and complete the Returning Student Form. Students with senior status (having earned 91 credits or more toward their degree) after an absence of more than three years will be subject to the institutional and departmental curricular requirements in effect at the time of readmission. Students with junior, sophomore or freshman status (having earned 90 credits or less toward their degree) after an absence of more than one year will be subject to the institutional and departmental curricular requirements in effect at the time of readmission. One year is defined as the completion of two consecutive semesters and one summer session. Students who have attended other institutions during the withdrawal period from the University must complete a Transient Student Permit Form and request that an official hard copy of their transcript from their other institution(s) be sent to the BW Office of Registration & Records. Additional instructions will be included in the Returning Student Packet that will be mailed upon submitting the Returning Student form.

Veterans who leave Baldwin Wallace for active duty may reenter the University within one year of discharge from the armed services under the academic requirements in effect at the time of their departure.

## Military Call to Active Duty Policy

Baldwin Wallace University will be as supportive and accommodating as possible for those students who must withdraw in a given semester because they have been called to active military duty. Exceptions to this policy are determined by the Provost's Office.

Those students who are members of the National Guard and Reserve forces of the United States have obligations that may include regularly occurring drill as well as activations under Title 10 U.S.C. and Title 32 U.S.C.

We understand that members of these forces have unique commitments and obligations when called upon, either by the President of the United States or the Governor of the State of Ohio. We remain committed to supporting our students who have made and continue to honor these commitments while working to attain academic success.

Below is an outline of required steps for students who are serving in the National Guard or Reserve forces. Depending on the activation date and the judgment of individual faculty, the student has several options regarding the completion of coursework.

#### Regular Drill Weekend Commitments

- Students are expected to communicate their monthly drill requirements with their professors at the start of each semester. This will ensure early planning can occur for any anticipated missed coursework.
- If it is anticipated that a regular drill weekend will be extended to include a school day, students must communicate this as soon possible to their faculty.

#### Short Term Activations Under Title 10 or Title 32 [5-14 Days]

- A. Students are expected to communicate with their professors when they anticipate an activation lasting between 5 and 14 days.
- B. Students should work with professors to complete any anticipated missed work.
- C. Each program and class is different; therefore, it may not be possible to complete certain coursework such as labs, performances, etc., in advance or at a later date. Students and faculty should work together to determine the impact of missed work on a case-by-case basis.

#### Long term Activations Under Title 10 or Title 32 [15 Days or Greater]

- Any student who is called to active military duty for a period greater than 15 days should present his/her active-duty orders to the Office of the Provost.
- Students facing long term activations have additional options to pursue if coursework cannot be completed successfully based on the length of the activation.
  - a. **A student may request a withdrawal.** The withdrawal will be retroactive to the beginning of the term. A student may do a complete withdrawal resulting in all tuition charges removed. A student may do a partial withdrawal, receiving "W" grades in some courses. Full-time students will not receive a refund if the "W" grades result in part-time status.
  - b. **A student may request an Incomplete\* to be decided by individual instructors.** There will not be any tuition adjustment for courses assigned "I" grades and the student will have six weeks into the next term of enrollment to complete the "I" grade. The Registrar may permit an extension of the six weeks on a case-by-case basis.

\* This option is best utilized if the activation comes in the final few weeks of a semester. Requesting an incomplete in the fall semester often proves difficult for a student to complete the work while also working on spring semester courses. Students should discuss the use of this option with each of their professors to ensure completion of the work.
  - c. **A student may request final grades at the discretion of individual faculty members.** Faculty and students would also have the option of turning the grade into satisfactory/unsatisfactory if departure occurs prior to final exams. Tuition is not adjusted.

In all of the above cases, all room charges will be prorated. The University would not charge a student carrying charges on back balances while he/she is in the military.

Students called to active military duty should also contact the manager of the Veteran and Military Services Office at 440-826-5920. The manager can assist with questions about activations outside of standard drill weekends or the options listed above and can provide information about taking courses through the Acadeum College Consortium\* platform while on extended deployments or when returning from deployment during a semester.

\*Baldwin Wallace University offers select online courses from fellow regionally accredited Council of Independent Colleges through Acadeum. Students may seek permission to enroll in a pre-approved list of consortium courses from partnering institutions to continue making academic progress when a deployment interferes with degree completion.

## Registration

Current students may enroll in classes online at times assigned by the Registrar. Special registration days are scheduled for new undergraduate students entering BW for the first time. Class schedules and plan timelines must be

prepared by students with the assistance of their academic advisors prior to registering for classes. Classes may be canceled at the discretion of the University. In such instances, the students affected will be notified, and assistance in planning alternative schedules will be made available. While Baldwin Wallace makes every effort to assist students in the planning of their programs of study, **it is ultimately each student's personal responsibility to plan and complete all University degree requirements.**

## Full-time and Part-time Enrollment Load

### Enrollment Load Definitions

<b>Undergraduate*</b>	Full-Time	12 or more
	Part-Time	0 - 11.5
<b>Graduate</b>	Full-Time	6 or more
	Part-Time	0 - 5.5

\*18.5 credits or more is considered overload for Undergraduate Students

## Undergraduate Divisions Full-time

### Changes in Schedule

Students may add and/or drop courses only during specified times announced by the Registrar. All seats are maintained on a space available basis.

**The responsibility to complete schedule changes in a timely and proper manner rests with each student.**

Students should consult the Academic Calendar, on the One Stop website, for the exact dates for schedule changes each semester.

Students failing to add a course properly will not receive course credit regardless of course attendance or course work completed. Students failing to drop a course properly will receive a grade of "F" for the course in question.

### Withdrawal from Individual Courses

Students may withdraw from courses before the published last day to drop without academic penalty. A grade of "W" will be assigned for each course withdrawn. Consult the Academic Calendar, on the One Stop website, for withdrawal deadlines and procedures.

Students wishing to withdraw from classes after the deadline to drop, must submit a written petition and documentation of extenuating circumstances to the Office of Registration & Records for review. If the petition is approved, a grade of "WP" or "WX" will be assigned to each course withdrawn. "WP" will be assigned indicating passing coursework at the time of withdrawal. "WX" will be assigned indicating failing coursework at the time of withdrawal. Withdrawal from a course without approval constitutes a failure, and a grade of "F" will be assigned to the course. Petition to Withdraw forms are available on the One Stop website.

### Leave of Absence

For many reasons, a student may need to leave Baldwin Wallace temporarily for a specified period of time.

Permission for a leave of absence may be granted for a maximum of two consecutive semesters and one summer semester. A student who wishes to leave temporarily must communicate his/her plans to leave and return to his/her faculty advisor. The Withdrawal/Leave of Absence form is available from the One Stop website. The official date of withdrawal is the date that the completed form is submitted.



## Withdrawal from the University

Students who wish to completely withdraw from Baldwin Wallace and who do not plan to return must communicate their intention to leave the University to their faculty advisor. They must then complete the Withdrawal/Leave of Absence form available from the One Stop website. The official date of withdrawal is the date that the completed form is submitted.

## Student Records

All academic records are maintained in the Office of Registration and Records. Additional student personnel and advising records are maintained in the Office of Student Affairs and the Office of Academic Advising, by assigned faculty advisors and appropriate academic school offices. These records are made available, in a reasonable length of time, upon request for review by the student to whom they pertain. Baldwin Wallace University designates the following categories of student information as public or "Directory Information," and this information may be disclosed by the institution for any purpose at its discretion.

- Category I:** Name, date of attendance, enrollment status (current, full-time, part-time).
- Category II:** Previous institution(s) attended, address, telephone number, email address, major field of study, degree(s) conferred (including dates), student photo.
- Category III:** Past and present participation in officially recognized sports and activities, physical characteristics of athletes.

Currently enrolled students may withhold disclosure of any category of information under the Family Educational Rights and Privacy Act of 1974. Students who wish to withhold "Directory Information" must make an appointment to discuss this option with the University Registrar. **Baldwin Wallace assumes that unless a student specifically requests withholding of categories of "Directory Information," individual approval for disclosure is granted.**

**Additional information regarding FERPA and Education Records can be found on the Registration & Records the One Stop website.**

## Summer Semester

Undergraduate and graduate courses are offered during the summer. Undergraduate courses are offered in four & eight week summer sessions and are supplemented by immersion, hybrid and on-line courses that are offered throughout the summer. The undergraduate summer schedule is designed for both full and part-time students. Courses and workshops for graduate students are also scheduled throughout the summer. Students should check for specifics as offered by their area of graduate specialization.

# Undergraduate Program Requirements

## Undergraduate Programs

This section includes course descriptions, general information and specific course and credit requirements for the University Core, undergraduate majors, minors and other programs of study.

## Core Curriculum Requirements

The Baldwin Wallace Core Curriculum prepares students to think from the perspectives of multiple scholarly disciplines and cultural points of view. Students begin with Foundations: First-Year Experience (FYE), Math, English, and Wellness. At the Perspectives level, students choose from a menu of courses that offer training in different modes of disciplinary analysis and expression, including scientific method, mathematical reasoning, social scientific analysis, historical analysis, religious and ethical thinking, literary analysis, and aesthetic understanding. They also take courses that offer international and diverse perspectives. At the Extensions level, students reinforce their skills in writing, quantitative reasoning, and interdisciplinary thinking. Each core course provides students with an opportunity to hone a Core Skill or Competency in Effective Communication, Critical Thinking, Quantitative Literacy, Cultural Knowledge and Competence, or Civic Learning.

## Bachelor of Arts and Sciences Core

### Level One: Foundations

#### First-Year Experience (FYE 100)

First Year Experience helps students become acclimated to the academic life of the university and introduces them to the resources and life of the campus community. FYE is required of all entering first-year students, including those first-year students who complete college credit as part of their high school curriculum (i.e., College Credit Plus/dual enrollment prior to high school graduation). Transfer students who have completed more than 15 transferable credit hours after they graduated from high school are exempt from the FYE 100 requirement.

#### Mathematics

MTH 101, MTH 105, MTH 108, MTH 120, MTH 121, MTH 140, MTH 141, MTH 142 or MTH 151. Students majoring in Dual Primary Education and Mild/Moderate Educational Needs take MTH 111 (4 credits) and MTH 113 (4 credits) for core. Prerequisite: Registration into these courses (except for MTH 101, MTH 105, MTH 108, MTH 111, MTH 113, or MTH 161) requires students to have scored at least 22 on the quantitative portion of the ACT, a SAT Math Section Score of 550 or higher, or a SAT Math Test Score of 27.5 or higher. For students with both ACT and SAT scores, the higher placement will be used. Students who wish to challenge their ACT- or SAT-based placement, or students entering Baldwin Wallace University without ACT or SAT test scores, must take a mathematics placement test in order to take their MTH core course. **Students interested in taking the Mathematics Placement test can contact the department chair, Dr. Brent Strunk, of the Department of Mathematics and Statistics at [bstrunk@bw.edu](mailto:bstrunk@bw.edu).** Students should complete their MTH core requirement during their first two semesters at BW if they meet the prerequisite upon entry, or within their first three semesters if the prerequisite must be completed first.

**\*Exception to requirement:** Students who received credit for AP Statistics or AP Calculus are exempt from the MTH core requirement and will receive credits as follows:

Score	Exam	Credit Hours	Course Equivalent
3, 4, 5	AP Statistics	3	MTH 105
3, 4, 5	AP Calc- AB	4	MTH 141
3, 4, 5	AP Calc- BC	8	MTH 141, MTH 142

## English Composition

Foundational English Composition courses ensure that students have the writing skills necessary to succeed in entry-level university courses. ENG 131 - Workshop in Exposition and Argument. Prerequisite: ENG 111 or placement. Students placing into ENG 131 should take it within their first two semesters at BW. Students required to take ENG 111 should take it during their first semester at BW, and should take ENG 131 no later than their third semester at BW.

English Composition placement determined by ACT and SAT scores as follows:

Placement	Placement Scores
ENG 131	ACT 24 or above    SAT 560 or above
ENG 111	ACT 23 or below    SAT 550 or below

## Wellness

Foundational Wellness courses help students learn about the core elements of wellness: emotional, occupational, physical, social, intellectual, and spiritual. Students are required to take 2 credits to fulfill the Wellness requirement with core-designated (W) activity, technique, or health and wellness-related courses. The W course requirement could be completed at any time and up to one credit hour can be transferred into BW.

## Level Two: Perspectives

Students must complete perspectives courses as outlined below. Each Perspective offers students a disciplinary technique of analysis, problem-solving, or expression, or a cultural point of view. Students who complete the Perspectives level of the BW core curriculum become more powerful, flexible thinkers and performers.

### A. One course from each of the following Humanities groups:

1. *Aesthetic Understanding* provides students with a foundation for understanding the creative process and the manifestations of aesthetic expression. The courses taught in this Perspective promote Aesthetic Understanding by teaching students how to analyze and engage in critical inquiry about the fine arts and explore the ways that art asks and solves the problems of humanity within its cultural contexts.
2. *ii. Historical Thinking*. These courses provide students with foundational skills for interpreting human artifacts within their historical-cultural contexts and understanding our human heritage. The courses taught in this Perspective promote historical literacy by teaching students how to acquire knowledge of the past, contextualize historical developments, investigate causation, analyze historical texts and artifacts, and compare interpretations.
3. *iii. Philosophical & Religious Traditions*. These courses provide students with a foundation for understanding the ideas and experiences that shaped a diversity of worldviews, cultures and styles of reasoning. Courses taught in this perspective explore universal questions about reality, life, death, God, knowledge, ethics and meaning while promoting critical inquiry, sound reasoning and close reading of philosophical, religious and related texts. These courses develop students' ability to follow, evaluate and compare arguments and interpretations and to construct arguments and interpretations of their own. As students acquire knowledge about influential ideas and experiences, these courses guide them to reflect on their significance for their own lives as they clarify and enlarge their own worldviews.
4. *iv. Creative Expression and Communication*. These courses provide students with foundational skills in various forms of human expression. Courses in this Perspective emphasize the acquisition of specific knowledge and skills needed to develop and express both messages and themselves to others through media within the Humanities disciplines of Creative, Visual or Performing Arts; World Languages, or Presentational Speaking.

### B. Two Social Science courses from at least two separate departments. Social Science courses teach about the characteristics of individuals and groups, human interactions and decision-making processes,

cultural diversity and social structures. Students learn how to collect and interpret qualitative and quantitative data and how to apply theories of individual or social behavior.

- C. **Two Natural Science courses, one of which must be a lab science.** Natural Science courses teach the scientific method, explore the composition and operation of the natural universe, and/or apply our understanding to real-world problems.
- D. **One Diversity course (with a 'D' designation).** Diversity (D) courses go beyond the mere acknowledgment of difference to address the systematic silencing of marginalized people as we work toward creating a more just world. Diversity encompasses multiple dimensions, including but not limited to race, ability, nationality, ethnicity, religion/faith, geographic origin, class, sexual orientation and identities, gender, gender identities and expressions, and age.

D courses promote students' critical engagement with issues arising from the historical exclusion of oppressed voices. By interrogating systems of power that suppress diversity, these classes seek to advance BW's mission statement of preparing students to become contributing, compassionate citizens of an increasingly global society. As such, courses with a diversity designation enhance student awareness of current and past injustices, as well as the potential role of diversity in enriching society. Upon completion of D courses, students will be given the foundation to:

1. Develop questions about the ways in which systems of power influence individual and group identity, and how these identities shape perceptions of systemic power within social, economic, or historical contexts.
  2. Analyze how individuals, organizations, and institutions create, perpetuate, adapt to, or challenge inequality.
  3. Demonstrate how their intersectionality impacts their thinking and problem-solving within a broad range of contexts.
- E. **The International ("I") core requirement** requires students to engage with a cultural perspective different from that of dominant American (U.S.) culture(s). In an increasingly global society, it has become more important for people to be able to think from multiple frames of reference so that they can see global issues from more than one cultural perspective. Students will have the opportunity to learn about and engage with a non-US culture or cultures in order to understand their languages, histories, customs, values, cultural institutions and artifacts, and/or sociopolitical structures.

Students must fulfill one of the following three options:

1. **World Languages:** Two semesters of world language excluding World Languages & Literature courses taught in English.
  2. **Study Abroad:** Earn academic credit in a BW-approved Global Explorations study abroad program.
  3. **International Coursework (courses with an 'I' designation):** Choose two courses from two different departments. Courses that fulfill the International Studies requirement must meet at least one of the following criteria:
    - a. **Perspective:** Courses that explore cultural, social, economic, and political approaches to issues affecting one or more cultures outside of the United States.
    - b. **Analysis:** Courses with a comparative, multidisciplinary, or interdisciplinary focus on specific cultures, communities, civilizations, or global systems that do or do not include the United States.
    - c. **Application:** Courses that engage in hands-on exploration, international collaboration, or project-based learning activities in a culturally responsive and self-reflective way.
- F. **One Interdisciplinary course.** Interdisciplinary courses train students to integrate questions, methods, and materials from two or more disciplines of the Natural Sciences, Humanities, or Social Sciences.

## **Level Three: Extensions**

**Students must complete one course designated as writing extension and one course designated as a quantitative extension.** Writing Extension courses reinforce the writing skills students learned in their Foundations-level composition courses. Quantitative Extension courses reinforce the mathematical skills students learned in their Foundations-level Math core course and apply those skills to a discipline.

[Click](#) for a specific list of courses that apply toward the Bachelor of Arts and Sciences Core.

### **Course Letter Designations:**

**D = Diversity**

**E = Exploration**

**H = Honors**

**I = International**

**S = Service Learning**

**W = Wellness**

**X = Experiential Learning**

# Africana Studies

## Minors

### Africana Studies Minor

Minimum Credits Required: 18

Required Courses:

- AFR 200D - Introduction to Africana Studies, 3 credit hours
- HIS 250D - African-American History, 3 credit hours

Complete One Of The Following Courses:

- HIS 227I - History of Africa, 3 credit hours
- POL 329 - Politics and Governance in Africa, 3 credit hours

Complete Three Of The Following Courses:

At least one of the courses must be a 300 or 400 level course. HIS 227I or POL 329 may also apply if not used to fulfill the requirement above.

- ART 235I - Topics in Non-Western Art, 3 credit hours
- CAS 277D - Media and Diversity, 3 credit hours
- CAS 278D - Diversity in America, 3 credit hours
- CAS 285D - Introduction to Intercultural Communication, 3 credit hours
- ECN 356D - Urban & Regional Economics, 3 credit hours
- ECN 358 - Environmental Economics, 3 credit hours
- ECN 362 - Economics of Developing Countries, 3 credit hours
- HIS 170D - Diversity in America, 3 credit hours
- HIS 360(X) - An In-depth Study of Topics in History, 3-4 credit hours (Civil Rights Movement)
- INT 200I - Introduction to International Studies, 3 credit hours (When student adopts an African country)
- MUL 178I - World Music, 3 credit hours
- MUL 224D - History of Jazz, 2 credit hours
- PHT 173 - Global Health, 3 credit hours
- PHT 375X - Health and Social Justice, 3 credit hours
- POL 216X - International Organizations: African Union Case Studies, 3 credit hours
- POL 304D - Urban Policy and Politics, 3 credit hours
- POL 333D - Contemporary Political Voices at the Margins, 3 credit hours
- PSY 245D - Multicultural Psychology, 3-4 credit hours
- REL 115D - African-American Religious Experience, 3 credit hours
- SOC 201D - Social Problems, 4 credit hours
- SOC 301D - Social Inequalities, 3 credit hours
- SOC 303I - Urban Community Life, 4 credit hours

Integrative Element: (1-3 credits)

This portion of the minor entails the incorporation of coursework into an integrative/culmination experience that allows the student to incorporate elements of the minor requirements into an integrative experience and utilize that experience to synthesize understanding of the courses chosen. Students can complete this experience in a variety of ways including:

- Service Learning Project
- Internship/Experiential Learning
- Independent Study/Research
- Faculty-Student Collaborative Project
- Urban Semester program
- Project Affinity (summer urban immersion)
- Study Abroad in Africa or western hemisphere African diaspora countries outside the U.S. [e.g., Caribbean region, Brazil] (semester abroad or Explorations faculty-led trip)
- Completion of at least two courses in Arabic, French, Portuguese, or Spanish (indigenous African languages will also count for this option)

Students will discuss the most appropriate alternative with the academic advisor and/or professors in the course s/he has chosen as part of the minor and choose one as the mentor who will supervise the awarding of credit appropriate. Students will also prepare a written reflection making connections between the in and out of classroom experiences associated with the major. This reflection will include an explanation of the choice of experience, the relationship of the experience to minor learning objections, the academic relevance of the experience and the impact on the student's development.

## Allied Health, Sport & Wellness

The Department of Allied Health, Sport and Wellness offers courses that satisfy core curriculum requirements, BW major and minor programs of study, requirements for other University majors, and general electives.

### ASW Core Curriculum Requirements

To satisfy the health and wellness core requirement of the University, students are required to take 2 credits to fulfill the ASW Wellness requirement with core-designated (W) health and wellness related courses. The W course requirement could be completed at any time and up to one credit hour can be transferred into BW.

The goal statement for the requirement is maintained (as approved in 2004):

To encourage students (1) to develop and lead healthy, active lives, assuming lifespan responsibility for personal health, fitness, and worthy use of leisure and/or (2) to become knowledgeable, proactive citizens in dealing with issues and policies related to individual, family, and community health, fitness, and wellness.

#### Diversity requirement of the Core Curriculum

ASW 408D may be applied to the core diversity requirement.

### Majors and Minors

For students planning to major in any one of the majors offered by the Department of Allied Health, Sport and Wellness, the Department recognizes the goals and objectives of each major, explores the body of knowledge, and provides a foundation for students preparing for the job market and/or pursuing graduate study in areas related to the major. Majors are offered in community health promotion, exercise science, physical activity and recreation administration, and pre-allied health/pre-physical therapy. Academic minors are designed to supplement any academic major. Minors are offered in athletic coaching, family studies, health coaching and health promotion, nutrition, and sports medicine.

### Majors

#### Community Health Promotion, B.A.

The major in community health promotion is designed to prepare the undergraduate student for competency in health coaching, promotion and disease prevention by helping individuals and small groups cultivate positive health behavior choices. An emphasis will be placed on program design and behavior modification to educate and support diverse groups of clients achieve health goals. These programs may be implemented in schools or in public and private agencies, at the worksite, or in specialized and clinical settings.

#### Minimum Credits Required: 53

Required courses:

- ASW 201 - AHSW Leadership and Professional Mapping, 1 credit hour
- ASW 207W - Nutrition for Daily Living, 3 credit hours
- ASW 209 - Research Design & Statistics in Sport Sciences, 3 credit hours
- ASW 215 - Foundations for Health and Wellness Professionals, 3 credit hours
- ASW 218W - Consumer Issues, 2 credit hours
- ASW 222W - Community Health, 3 credit hours
- ASW 235 - Fitness & Health Promotion Program Management & Leadership, 3 credit hours
- ASW 270 - Principles of Health Promotion, 3 credit hours
- ASW 312W - Substance Abuse/Chemical Dependency, 3 credit hours
- ASW 330W - Human Sexuality Education, 3 credit hours
- ASW 497X - Internship, Credit hours to be arranged (3 credit hours required)



Interdisciplinary Content Requirements:

- BIO 203 - Human Anatomy and Physiology I, 4 credit hours
- BIO 204 - Human Anatomy and Physiology II, 4 credit hours
- CAS 112 - Presentational Speaking, 3 credit hours
- ENG 309(SX) - Grant Writing, 3 credit hours
- PHT 173 - Global Health, 3 credit hours
- PHT 370 - Health Policy & Public Health, 3 credit hours
- PSY 321 - Human Relations and Group Dynamics, 3 credit hours

Notes:

Students pursuing this major may consider a minor in either Psychology or Public Relations.

It is also highly recommended that students sit for the Certified Health Education Specialist (CHES) Exam during their last semester at BW.

## **Exercise Science, B.S.**

This major is designed to provide an opportunity for students to acquire theoretical and practical knowledge and develop skills related to exercise science, fitness management and strength and conditioning as they pertain to management and organization of corporate, community, or commercial fitness and health promotion and/or rehabilitation programs. Students successfully completing this major will be prepared as "competent entry-level Exercise Science professionals in the cognitive, psychomotor and affective learning domains" which will be demonstrated in the ability to conduct fitness testing and implement exercise programs for low- to moderate-risk clients and for individuals with controlled diseases. In addition, development of strength and conditioning programs for clients and athletes is also a focus for the major. Students completing this major must take an NCCA-accredited Exercise Science national exam prior to graduation with a preference for the American College of Sports Medicine or National Strength and Conditioning Association.

**Minimum Credits Required: 49**

Required courses:

- ASW 201 - AHSW Leadership and Professional Mapping, 1 credit hour
- ASW 202 - Principles of Sports Medicine, 3 credit hours
- ASW 205 - First Aid and Emergency Care Techniques, 3 credit hours
- ASW 209 - Research Design & Statistics in Sport Sciences, 3 credit hours
- ASW 211W - Nutrition for the Athlete, 3 credit hours
- ASW 235 - Fitness & Health Promotion Program Management & Leadership, 3 credit hours
- ASW 280 - Introduction to Exercise Science, 3 credit hours
- ASW 302 - Physiology of Exercise, 3 credit hours
- ASW 303 - Health and Physical Fitness Assessment Techniques, 3 credit hours
- ASW 335 - Health Behavior Management, 3 credit hours
- ASW 402 - Kinesiology/Biomechanics, 3 credit hours
- ASW 403 - Health and Fitness Assessment Practicum, 1 credit hour
- ASW 423 - Exercise Prescription in Chronic Disease and Prevention, 3 credit hours
- ASW 445 - Theory and Practice of Strength and Conditioning, 3 credit hours
- ASW 497X - Internship, Credit hours to be arranged (3 credit hours required)
- BIO 203 - Human Anatomy and Physiology I, 4 credit hours
- BIO 204 - Human Anatomy and Physiology II, 4 credit hours

Notes:

The following Exercise Science coursework **must be completed at BW** unless otherwise approved by the Academic Coordinator: ASW 201, ASW 209, ASW 280, ASW 302, ASW 303, ASW 335, ASW 403, ASW 423, ASW 445.

Required ASW 497X Internship should be taken in student's last semester.

Courses required for the major do not necessarily need to be taken in the sequence listed unless as specified by course prerequisites.

## **Physical Activity & Recreation Administration, B.A.**

The Physical Activity and Recreation Administration (PARA) major emphasizes the development of physical activity programming in community settings. Students will establish a foundation that merges the understanding of physical development with the knowledge and instructional skills in physical activity and recreation. Completing the Physical Activity and Recreation Administration major will equip students with the knowledge, skills and abilities to become PARA leaders in community and recreational settings.

**Minimum Credits Required: 45**

Required Courses:

- ASW 133W - Lifeguarding, 2 credit hours
- OR**
- ASW 301W - Sport Exercise Conditioning and Program Design, 3 credit hours
  
  - ASW 201 - AHSW Leadership and Professional Mapping, 1 credit hour
  - ASW 205 - First Aid and Emergency Care Techniques, 3 credit hours
  - ASW 226 - Introduction to Recreation and Physical Activity, 3 credit hours
  - ASW 235 - Fitness & Health Promotion Program Management & Leadership, 3 credit hours
  - ASW 236 - Recreation & Physical Activity Practicum, 3 credit hours
  - ASW 238 - Research & Development for Physical Activity & Recreation National Certification, 3 credit hours
  - ASW 247 - History and Philosophy of Physical Activity and Recreation, 3 credit hours
  - ENG 309(SX) - Grant Writing, 3 credit hours
  - ASW 321 - Adapted Physical Activity, 3 credit hours
  - ASW 323 - Outdoor Recreation & Education, 3 credit hours
  - ASW 324 - Community Parks & Recreation Administration, 3 credit hours
  - ASW 356 - Risk Assessment & Safety Management in Recreation, 3 credit hours
  - ASW 497X - Internship, Credit hours to be arranged (6 credit hours required)
  - ASW 494 - Physical Activity & Recreation Capstone, 3 credit hours

## **Pre-Allied Health/Pre-Physical Therapy, B.S.**

The major in Pre-Allied Health/Pre-Physical Therapy is designed to provide a strong foundation in the fundamental principles of allied health science. The major offers the preparation necessary for continued study toward a degree in a related allied health profession. Students who complete this program can pursue further education in Physical or Occupational Therapy, Physician Assistants, Athletic Training, Chiropractics, Podiatry and Nursing.

**Minimum Credits Required: 62**

Required Courses:

- ASW 201 - AHSW Leadership and Professional Mapping, 1 credit hour
- ASW 202 - Principles of Sports Medicine, 3 credit hours
- ASW 206 - Medical Terminology, 2 credit hours
- ASW 209 - Research Design & Statistics in Sport Sciences, 3 credit hours
- ASW 302 - Physiology of Exercise, 3 credit hours

- ASW 303 - Health and Physical Fitness Assessment Techniques, 3 credit hours
- ASW 306 - Therapeutic Modalities with Lab, 4 credit hours
- ASW 321 - Adapted Physical Activity, 3 credit hours
- ASW 402 - Kinesiology/Biomechanics, 3 credit hours
- BIO 121 - Principles of Biology I, 4 credit hours
- BIO 122 - Principles of Biology II, 4 credit hours
- BIO 203 - Human Anatomy and Physiology I, 4 credit hours
- BIO 204 - Human Anatomy and Physiology II, 4 credit hours
- CHM 111 - General Chemistry I, 4 credit hours
- CHM 112 - General Chemistry II, 3 credit hours
- CHM 115 - General Chemistry Lab, 1 credit hour
- ASW 497X - Internship, Credit hours to be arranged (1 credit hour required)

**Electives:**

Select 3 of the following BIO, CHM or PHY courses listed below. Choices should be guided by graduate program prerequisites.

- BIO 211 - Genetics, 4 credit hours
- BIO 212 - Microbiology, 4 credit hours
- BIO 330 - Clinical Gross Anatomy, 4 credit hours
- BIO 333 - Human Physiology, 4 credit hours
  
- CHM 251 - Organic Chemistry I, 3 credit hours **AND**
- CHM 255 - Organic Chemistry I Laboratory, .5 credit hour
  
- CHM 252 - Organic Chemistry II, 3 credit hours **AND**
- CHM 256 - Organic Chemistry II Laboratory, 1 credit hour
  
- CHM 311 - Biochemistry, 3 credit hours **AND**
- CHM 315 - Biochemistry Laboratory, 1 credit hour
  
- PHY 145 - Applied College Physics I, 5 credit hours
- PHY 146 - Applied College Physics II, 5 credit hours

**Note(s):**

Students planning to pursue a graduate degree in physical therapy should consider PSY 100, PSY 205, PSY 302, SOC 100D, and an additional statistics course. Students planning to pursue a graduate degree in athletic training should consider PSY 100, ASW 205, and ASW 211W and internships in a variety of settings. Other elective courses might be: ASW 300, ASW 335, ASW 423, ASW 445.

Courses required for the major do not necessarily need to be taken in the sequence listed unless as specified by course prerequisites.

## Minors

### Athletic Coaching Minor

The Athletic Coaching minor provides interested students with the opportunity to gain practical knowledge and experiences guided by the National Association for Sport and Physical Education (NASPE) National Standards for Athletic Coaches. Through the minor the student will be prepared to enter a coaching career or be involved in the management and organization of an athletic program. The minor will emphasize an awareness of the demands of the coaching profession and explore issues and ethical considerations significant to coaching. The minor includes the opportunity for certifications from Positive Coaching Alliance and National Federation of High School Sports.

**Minimum Credits Required: 23**

Required courses:

- ASW 202 - Principles of Sports Medicine, 3 credit hours
  - ASW 207W - Nutrition for Daily Living, 3 credit hours
- OR**
- ASW 211W - Nutrition for the Athlete, 3 credit hours
  - ASW 227 - Principles of Coaching, 3 credit hours
  - ASW 327 - Coaching, 2 credit hours
  - ASW 328 - Skill Concept Development, 2 credit hours
  - SPM 340 - Program Organization & Administration, 3 credit hours
  - ASW 406 - Psychology of Coaching, 3 credit hours
- 
- ASW 301W - Sport Exercise Conditioning and Program Design, 3 credit hours
- OR**
- ASW 445 - Theory and Practice of Strength and Conditioning, 3 credit hours
  - ASW 497X - Internship, Credit hours to be arranged (1 credit hour required)

### **Family Studies Minor**

The interdisciplinary minor in family studies increases the understanding of human development and the dynamic interrelationships among family members. An ecological theoretical approach focused on the interconnectedness of community, child development and family life within our society is emphasized. Students can customize their curriculum and internship experience to complement their career focus and personal interests. A minor in family studies pairs well with majors focused on improving the health, wellbeing and sustainability of modern day families.

**Minimum Credits Required: 20**

Required Courses:

- ASW 216W - Family Relations, 3 credit hours
- ASW 319W - Child in the Family, 3 credit hours
- ASW 320W - Parenting, 3 credit hours
- PSY 205 - Developmental Psychology, 3 credit hours
- PSY 315 - Child Development, 4 credit hours
- CAS 202 - Relationships and Communication, 3 credit hours
- ASW 497X - Internship, Credit hours to be arranged (1 credit hour required)

### **Health Coaching & Health Promotion Minor**

The goal of the minor is to provide an opportunity for students to acquire general theoretical and practical knowledge related to health coaching, promotion and disease prevention and related programs that may be implemented in school, in public and private agencies, at the worksite, or in specialized and clinical settings.

**Minimum Credits Required: 17**

Required Courses:

- ASW 221W - Personal Health, 3 credit hours
- ASW 235 - Fitness & Health Promotion Program Management & Leadership, 3 credit hours
- ASW 270 - Principles of Health Promotion, 3 credit hours
- ASW 335 - Health Behavior Management, 3 credit hours

Choose One Course:

- PSY 304 - Personality Psychology, 4 credit hours
- PSY 321 - Human Relations and Group Dynamics, 3 credit hours
- PSY 326 - Applied Behavior Analysis, 3 credit hours

Electives: complete at least one

- ASW 206 - Medical Terminology, 2 credit hours
- ASW 207W - Nutrition for Daily Living, 3 credit hours
- ASW 218W - Consumer Issues, 2 credit hours
- ASW 222W - Community Health, 3 credit hours
- ASW 302 - Physiology of Exercise, 3 credit hours
- ASW 303 - Health and Physical Fitness Assessment Techniques, 3 credit hours
- ASW 312W - Substance Abuse/Chemical Dependency, 3 credit hours
- ASW 330W - Human Sexuality Education, 3 credit hours

## Nutrition Minor

This interdisciplinary minor is designed to provide a basic understanding of nutrition and the supporting sciences. The minor is particularly suited to majors in health related and pre-professional fields. It does not meet requirements to practice as a credentialed nutritionist nor does it meet the requirements of the Commission on Dietetic Registration (CDR) in the Academy of Nutrition and Dietetics to become a registered dietitian.

**Minimum Credits Required: 25**

Required Courses:

- ASW 207W - Nutrition for Daily Living, 3 credit hours
- ASW 317 - Nutrition Through the Life Cycle, 3 credit hours
- BIO 203 - Human Anatomy and Physiology I, 4 credit hours
- BIO 204 - Human Anatomy and Physiology II, 4 credit hours
- CHM 111 - General Chemistry I, 4 credit hours
- CHM 112 - General Chemistry II, 3 credit hours
- CHM 115 - General Chemistry Lab, 1 credit hour

Nutrition Elective: (Choose one of the following)

- ASW 211W - Nutrition for the Athlete, 3 credit hours
- ASW 263 - Special Topic Seminar, Credit hours to be arranged (Nutrition Topics)

## Sports Medicine Minor

This minor provides students interested in the health care field with a focused knowledge base in the area of musculoskeletal injury. It provides knowledge related to orthopedic evaluation and treatment including but not limited to body mechanics, injury assessment, treatment and methodology. The courses allow students to develop psychomotor clinical evaluation skills that will complement the cognitive content. This minor is highly encouraged for those interested in pursuing a graduate degree in athletic training, physical therapy or exercise science.

**Minimum Credits Required: 23**

Required course:

- ASW 202 - Principles of Sports Medicine, 3 credit hours
- ASW 205 - First Aid and Emergency Care Techniques, 3 credit hours
- ASW 206 - Medical Terminology, 2 credit hours
- ASW 211W - Nutrition for the Athlete, 3 credit hours
- ASW 300 - Evaluation Techniques in Sports Medicine, 3 credit hours
- ASW 316 - Therapeutic Interventions, 3 credit hours

Elective Courses: (6 credit hours required)

- ASW 310 - Medical Topics in Sports Medicine, 3 credit hours
- OR**
- ASW 352 - Motor Learning & Developmental Movement, 3 credit hours
- 
- ASW 408D - Cultural Concepts & Leadership in Healthcare, 3 credit hours
- OR**
- ASW 409 - Advanced Research Design & Statistics in Sport Sciences, 3 credit hours

## Art

The curriculum of the Department of Art has a fourfold objective: to familiarize students with the basic principles of visual art and to prepare them to use the arts intelligently in their own lives: to devote their skills in various techniques and media: to develop their creative, aesthetic awareness and visual expression: and to foster an understanding and appreciation of the arts of other ages and cultures, as well as those of their own time and place.

The department offers two areas of concentration: Art Education and Studio. Students should enroll initially in any of the 100 or 200 entry level courses which do not have prerequisites. (ART 102IF - Art Appreciation is not designed for majors and is not recommended for students who are planning to major in studio art).

## Interested in Graphic Design or Web Design?

Please see the Digital Media and Design: Graphic Design, B.A. or Digital Media and Design: Interactive Design, B.A. major.

The department requests that enrolling freshmen studio majors present a portfolio of six to ten works when meeting with their faculty advisor.

## Majors

### Art Education, B.A.

Multi-age License--Visual Arts

Art education majors will be required to participate in a yearly critique with the studio faculty. In addition, senior candidates for graduation in art education will choose and mount a senior exhibition in April of their graduating year.

**Minimum Credits Required: 43**

Required Courses:

- ART 110 - Drawing I, 2 credit hours
- ART 111 - Drawing II, 2 credit hours
- ART 115 - Two Dimensional Design, 2 credit hours
- ART 116 - Three Dimensional Design, 2 credit hours
- ART 117 - Color Theory, 2 credit hours
- ART 212 - Life Drawing, 2 credit hours
- ART 213 - Introduction to Painting, 2 credit hours
- ART 216 - Introduction to Ceramics, 2 credit hours
- ART 220 - Digital Photography, 2 credit hours
- ART 231I - Art History: from Caves to Cathedrals, 3 credit hours
- ART 232I - Art History: from Renaissance to Modernism, 3 credit hours
- ART 234 - Survey of American Art from Colonial Times to 1945, 3 credit hours
- ART 235I - Topics in Non-Western Art, 3 credit hours
- ART 236I - Modern Art, 1850-1950, 3 credit hours
- ART 246 - Introduction to Sculpture, 2 credit hours
- ART 248 - Introduction to Printmaking, 2 credit hours

Choose One:

- ART 225 - Introduction to Photoshop, 2 credit hours
- ART 226 - Three-dimensional Computer Imaging- Maya, 2 credit hours
- ART 240 - Graphic Design I, 2 credit hours

Choose One 2-Course Sequence:

- ART 217 - Intermediate Ceramics, 2 credit hours **AND**
- ART 318 - Advanced Ceramics, 2 credit hours
- OR**
- ART 214 - Intermediate Painting, 2 credit hours **AND**
- ART 315 - Advanced Painting, 2 credit hours
- OR**
- ART 323 - Advanced Digital Photography, 2 credit hours (taken twice for credit)
- OR**
- ART 347 - Advanced Sculpture, 2 credit hours (taken twice for credit)
- OR**
- ART 349 - Advanced Printmaking, 2 credit hours (taken twice for credit)

Additional Requirement

The student must also satisfy the state requirements in education as offered in other areas of the University, especially those offered by the School of Education. See School of Education for a list of requirements.

## Studio Art, B.A.

Majors are required to take 22 semester hours in Studio Art Foundation, 6 semester hours in a Studio Art Concentration, 6 semester hours of Studio Art Electives at the 300 level, 15 semester hours of Art History and 2 semester hours in the Junior/Senior Seminars.

Majors are required to participate in a yearly critique with the studio faculty beginning in their Junior year, the basis for ART 363 - Junior Seminar. Senior candidates for graduation are required to exhibit their advanced artwork in the Senior Art Exhibition as part of ART - 463 Senior Seminar. The department also requests, but does not require, that enrolling freshmen studio majors present a portfolio of six to ten works when meeting with their faculty advisor.

**Minimum Credits Required: 51**

Required Courses:

Studio Art Foundation--22 credits required

- ART 110 - Drawing I, 2 credit hours
- ART 111 - Drawing II, 2 credit hours
- ART 212 - Life Drawing, 2 credit hours
- ART 115 - Two Dimensional Design, 2 credit hours
- ART 116 - Three Dimensional Design, 2 credit hours
- ART 117 - Color Theory, 2 credit hours
- ART 213 - Introduction to Painting, 2 credit hours
- ART 216 - Introduction to Ceramics, 2 credit hours
- ART 220 - Digital Photography, 2 credit hours
- ART 246 - Introduction to Sculpture, 2 credit hours
- ART 248 - Introduction to Printmaking, 2 credit hours

Studio Art Concentration-- 6 credits required

(Choose ONE of the following programs)

Ceramics

- ART 217 - Intermediate Ceramics, 2 credit hours
- ART 318 - Advanced Ceramics, 2 credit hours
- ART 318 - Advanced Ceramics, 2 credit hours (taken again for credit)



## Painting

- ART 214 - Intermediate Painting, 2 credit hours
- ART 315 - Advanced Painting, 2 credit hours
- ART 315 - Advanced Painting, 2 credit hours (taken again for credit)

## Photography

- ART 225 - Introduction to Photoshop, 2 credit hours
- ART 323 - Advanced Digital Photography, 2 credit hours
- ART 323 - Advanced Digital Photography, 2 credit hours (taken again for credit)

## Printmaking

- ART 225 - Introduction to Photoshop, 2 credit hours
- ART 349 - Advanced Printmaking, 2 credit hours
- ART 349 - Advanced Printmaking, 2 credit hours (taken again for credit)

## 3D Studies

- ART 226 - Three-dimensional Computer Imaging- Maya, 2 credit hours
- ART 347 - Advanced Sculpture, 2 credit hours
- ART 347 - Advanced Sculpture, 2 credit hours (taken again for credit)

## Studio Art Electives-- 6 credits required

- Choose 3 additional courses in Studio Art at the Intermediate or Advanced level.

## History of Art--15 credits required

- ART 103D - Art of Our Time, 3 credit hours
- ART 231I - Art History: from Caves to Cathedrals, 3 credit hours
- ART 232I - Art History: from Renaissance to Modernism, 3 credit hours
- ART 235I - Topics in Non-Western Art, 3 credit hours
- ART 236I - Modern Art, 1850-1950, 3 credit hours

## Junior/ Senior Seminar:

Students majoring in Studio Art are required to enroll in the Junior Seminar course both semesters of their Junior year. Likewise, participation in the Senior Seminar is also required the final two semesters of the student's time at BW. A waiver to this requirement may be granted for the purpose of studying abroad. Please consult with your advisor about the implications to your Senior Exhibition before planning to study abroad.

- ART 363 - Junior Seminar- Portfolio Review & Critique, .5-1 credit hours (2 semesters/1 credit hour total required)
- ART 463X - Senior Seminar- Senior Art Exhibit, .5-1 credit hour (2 semesters/1 credit hour total required)

## Minors

### History of Art Minor

The History of Art minor consists of a total of 18 credits hours. Studio Art majors must complete an additional 12-14 credit hours due to an overlap of requirements.

Requirements:

- ART 103D - Art of Our Time, 3 credit hours
- ART 231I - Art History: from Caves to Cathedrals, 3 credit hours
- ART 232I - Art History: from Renaissance to Modernism, 3 credit hours
- ART 234 - Survey of American Art from Colonial Times to 1945, 3 credit hours
- ART 235I - Topics in Non-Western Art, 3 credit hours
- ART 236I - Modern Art, 1850-1950, 3 credit hours

Studio Art Majors must also complete the following courses:

- ART 295, 395, 495 Independent Study- Research, 3 credit hours
- PBH 200X - Introduction to Archives and Museums, 3 credit hours
- Two semesters of a World Language, 6-8 credit hours

### Studio Art Minor

A minor in art concentrating in the studio area consists of a total of 17 hours.

Requirements:

- ART 110 - Drawing I, 2 credit hours
- ART 115 - Two Dimensional Design, 2 credit hours
- ART 116 - Three Dimensional Design, 2 credit hours
- ART 232I - Art History: from Renaissance to Modernism, 3 credit hours

Studio Art Electives:

Four studio art electives of the student's choice (excluding Graphic Design courses).

One of the four studio art electives must include:

- ART 214 - Intermediate Painting, 2 credit hours
- ART 217 - Intermediate Ceramics, 2 credit hours
- ART 323 - Advanced Digital Photography, 2 credit hours
- ART 347 - Advanced Sculpture, 2 credit hours
- ART 349 - Advanced Printmaking, 2 credit hours

# Arts Management

## Majors

### Arts Management & Entrepreneurship, B.A.

Minimum Credits Required: 51-53

Required Courses:

- AMG 102 - Introduction to Arts Management, 3 credit hours
  - AMG 201 - Principles & Practices of Arts Management I, 3 credit hours
  - AMG 202 - Principles & Practices of Arts Management II, 3 credit hours
  - AMG 297X - On-campus Internship, 1-2 credit hours (2 credit hours required)
  - AMG 301 - Marketing and Audience Development for the Arts, 3 credit hours
  - AMG 302 - Financial Management of Arts Organizations, 3 credit hours
  - AMG 303 - Fundraising for the Arts, 3 credit hours
  - AMG 305 - Special Topics, 1-3 credit hours (3 credit hours required)
  - AMG 397X - Internship, 1-3 credit hours (3 credit hours required)
  - AMG 401 - Senior Experience, 1 credit hour
  - AMG 497X - Internship, Credit hours to be arranged (3 credit hours required)
  - ECN 120 - Survey of Economics, 3 credit hours
  - ENT 215 - Innovation & Entrepreneurship, 3 credit hours
  - ENT 315 - Managing a Growing Venture, 3 credit hours
  - ENT 415X - Entrepreneurship Capstone Experience, 3 credit hours
  
  - ACC 211 - Intro to Financial Accounting, 3 credit hours
- OR**
- ACC 213 - Accounting & Finance Essentials, 3 credit hours

Choose three of the following:

- AMG 203 - Music Industry I, 3 credit hours
- ART 240 - Graphic Design I, 2 credit hours
- CAS 120 - Strategies in Public Relations, 3 credit hours
- CSC 135 - Introduction to Web Site Development, 3 credit hours
- DAN 332 - Introduction to Teaching Dance/Movement, 2 credit hours
- ENG 309(SX) - Grant Writing, 3 credit hours
- HTM 342 - Hospitality and Tourism Marketing and Sales, 3 credit hours
- HTM 343 - Customer Experience Management in Hospitality & Tourism, 3 credit hours
- MKT 337 - Digital Marketing, 3 credit hours
- MUL/MUC 312 - Music Copyright Law, Publishing, and Licensing, 3 credit hours
- THE 286 - Theatre Management, 2 credit hours

Note:

All Arts Management & Entrepreneurship majors are required to complete a minor (or major, where available) in an arts area to include: History of Arts, Studio Arts, Creative Writing (English), Dance, Film Studies, Music or Theatre.

## Minors

### Arts Management Minor

**Minimum Credits Required: 24**

Required Courses:

- AMG 102 - Introduction to Arts Management, 3 credit hours
- AMG 201 - Principles & Practices of Arts Management I, 3 credit hours
- AMG 202 - Principles & Practices of Arts Management II, 3 credit hours
- AMG 397X - Internship, 1-3 credit hours (3 credit hours required)

Choose three of the following:

- AMG 203 - Music Industry I, 3 credit hours
- AMG 301 - Marketing and Audience Development for the Arts, 3 credit hours
- AMG 302 - Financial Management of Arts Organizations, 3 credit hours
- AMG 303 - Fundraising for the Arts, 3 credit hours
- DAN 332 - Introduction to Teaching Dance/Movement, 2 credit hours
- MUL 312 - Music Copyright Law, Publishing, and Licensing, 3 credit hours
- THE 286 - Theatre Management, 2 credit hours

Five credits in one discipline:

All Arts Management minors are required to complete a total of 5 credits in a chosen arts discipline. All five credits must be in one discipline. Students may choose from the following arts disciplines: Art, Creative Writing, Dance, Film Studies, Music or Theatre.

## Asian Studies

The primary goal of the Asian Studies Minor at Baldwin Wallace University is to serve students who have personal and professional interests in learning more about Asia. With Asia's increasing international presence and influence, it is crucial to understand this region's historical, political, economic, and social experiences for students who seek to work in areas of international business, politics, and comparative studies in various fields. The course works for the minor combine the social sciences and the humanities as they investigate many dimensions of Asian life.

A student wishing to declare an Asian Studies Minor is encouraged to meet with the director of the Asian Studies Minor early in the student's University study to develop a plan for completing the minor's requirements. Direct all questions related to the minor to its co-directors, Professor Ellen Posman in the Religion Department, or Professor Haesook Chae in the Political Science Department.

## Minors

### Asian Studies Minor

Students must earn a minimum of 20 credit hours distributed among the following requirements to complete the Asian Studies minor.

Requirements:

- ASN 100I - Understanding Asia, 4 credit hours

Complete one semester of Asian language: 4 credits

These Chinese courses are offered in the Foreign Languages Department at Baldwin Wallace University. Students with native speaking ability or those who have taken an Asian language course (e.g., Japanese, Korean, or Hindi) elsewhere are exempt from the language requirement. The latter group must show a transcript that includes such a course. Students with the language exemption must take another 4 credit hour elective course instead to complete the minimum requirement of the 19 credit hours.

- CHI 101 - Elementary Chinese I, 4 credit hours
- CHI 102 - Elementary Chinese II, 4 credit hours
- CHI 201 - Intermediate Chinese I, 4 credit hours
- CHI 202 - Intermediate Chinese II, 4 credit hours

Elective courses in Humanities and Social Sciences: 12 credits

Electives must include at least 2 courses at the 200-300 level and must include at least one course in Humanities and at least one course in Social Sciences.

The following courses count as electives:

Humanities:

- ART 235I - Topics in Non-Western Art, 3 credit hours
- ENG 335 - Studies in World Literature, 3 credit hours
- ENG 336(D) - Studies in Specific Genres, Themes or Modes, 3 credit hours (when focus is on Asia)
- HIS 236I - Women in Asian Civilizations, 3 credit hours
- HIS 267 - Vietnam War: Causes and Consequences, 3 credit hours
- HIS 288I - Islamic History 600-1800, 3 credit hours
- HIS 291I - History of East Asia I, 3 credit hours
- HIS 292I - History of East Asia II, 3 credit hours
- REL 106I - Religions of Asia, 3 credit hours

- REL 2011 - Buddhist Culture in Asia, 3 credit hours

Social Sciences:

- ECN 362 - Economics of Developing Countries, 3 credit hours
- POL 2211 - Intro to Comparative Politics, 3 credit hours
- POL 314 - Comparative Foreign Relations, 3 credit hours
- POL 326 - Special Comparative Political Studies, 2-3 credit hours
- POL 363(I) - Seminar in Political Science, 2-3 credit hours (when focus is on Asia)
- SOC 250 - Topics in Sociology, 3 credit hours (when focus is on Asia)

## **Astronomy**

Courses in astronomy are offered by the Department of Physics and Astronomy. No major or minor in astronomy is currently being offered. All 100-level AST courses may be applied towards the Natural Science component of the Core general education requirements.

## Biology

The objective of the biology curriculum in the Department of Biology & Geology is to provide a strong foundation in the scientific principles governing living organisms—from the molecular and cellular level to ecological and environmental interactions. The biology major emphasizes research, critical thinking, and communication in order to build the skills and knowledge needed to succeed in a biological career or graduate/professional school. Examples of graduate and professional degrees pursued by recent graduates include medicine, dentistry, pharmacy, veterinary medicine, genetic counseling, nursing, environmental science, and molecular biology. Employers of recent graduates include pharmaceutical companies, school systems, government agencies, zoos, research labs, environmental education centers, and biotechnology companies.

## Majors

### Biology, B.S.

All biology courses for the major have a prerequisite except BIO 121, BIO 122 & BIO 163.

Please contact the department for additional information regarding our Medical Technology, Pre-Pharmacy, & Primary Healthcare Advancement affiliation programs.

**Minimum Credits Required: 49.5**

Required Courses:

- BIO 121 - Principles of Biology I, 4 credit hours
- BIO 122 - Principles of Biology II, 4 credit hours
- BIO 211 - Genetics, 4 credit hours
- BIO 212 - Microbiology, 4 credit hours
- BIO 221 - General Zoology, 3 credit hours
- BIO 222 - General Botany, 3 credit hours
- BIO 163 - Freshman Biology Seminar, .5 credit hour
- BIO 263 - Sophomore Biology Seminar, 1 credit hour
- BIO 363 - Biology Seminar, 0 credit hours
- BIO 463 - Senior Biology Seminar, 1 credit hour
- CHM 111 - General Chemistry I, 4 credit hours
- CHM 112 - General Chemistry II, 3 credit hours
- CHM 115 - General Chemistry Lab, 1 credit hour
- MTH 120/121 - Applied College Mathematics or higher

At least one of the following Structure & Function Biology courses:

- BIO 330 - Clinical Gross Anatomy, 4 credit hours
- BIO 332 - Histology, 3 credit hours
- BIO 333 - Human Physiology, 4 credit hours
- BIO 337 - Plant Physiology, 4 credit hours
- BIO 351 - Head & Neck Anatomy and Facial Reconstruction, 4 credit hours

At least one of the following Cellular and Molecular Biology courses:

- BIO 314 - Molecular Ecology, 4 credit hours
- BIO 331 - Developmental Biology, 4 credit hours
- BIO 336 - Molecular Biology, 4 credit hours
- BIO 341 - Immunology, 4 credit hours



At least one of the following Environmental Biology courses:

- BIO 308 - Evolution of Animal Behavior, 4 credit hours
- BIO 309 - Vertebrate Natural History, 4 credit hours
- BIO 310 - Evolution, 4 credit hours
- BIO 311 - Conservation Biology, 4 credit hours
- BIO 313 - Ecology, 4 credit hours
- BIO 322 - Plant Evolution, 4 credit hours
- BIO 334 - Invertebrate Natural History, 4 credit hours
- ENV 305 - Biogeochemistry, 4 credit hours
- GEO 315 - Hydrology, 4 credit hours
- GEO 316 - Soils and Geomorphology, 4 credit hours

Biology Electives: 6 credits

**Additional biology courses totaling 6 credits are required bringing the minimum to 49.5/50.5 credits.**

#### Additional Information

Courses in organic chemistry, physics, and statistics are recommended for students who expect to continue their education in graduate or professional school. The general biology sequence (BIO 121 and BIO 122) and BIO 163 - Freshman Biology Seminar, .5 credit hour should be taken during the freshman year. The BIO 263 - Sophomore Biology Seminar, 1 credit hour, BIO 221 - General Zoology, 3 credit hours, and BIO 222 - General Botany, 3 credit hours should be taken the sophomore year. The BIO 463 - Senior Biology Seminar, 1 credit hour should be taken either the Fall or Spring semester of the senior year. Biology majors are expected to take the BIO 363 - Biology Seminar, 0 credit hours every semester after their freshman year. The BIO 121, BIO 122 courses are prerequisites for all two, three, and four hundred level biology courses for majors.

## Life Science

This major may only be taken as a double major with Education: Adolescent and Young Adult (7-12), B.S.Ed.

**Minimum Credits Required: 42**

Required Courses:

- BIO 121 - Principles of Biology I, 4 credit hours
- BIO 122 - Principles of Biology II, 4 credit hours
- BIO 203 - Human Anatomy and Physiology I, 4 credit hours
- BIO 204 - Human Anatomy and Physiology II, 4 credit hours
- BIO 211 - Genetics, 4 credit hours
- BIO 221 - General Zoology, 3 credit hours
- BIO 222 - General Botany, 3 credit hours
- BIO 310 - Evolution, 4 credit hours
- BIO 313 - Ecology, 4 credit hours
- CHM 111 - General Chemistry I, 4 credit hours
- CHM 112 - General Chemistry II, 3 credit hours
- CHM 115 - General Chemistry Lab, 1 credit hour

## Minors

### Biology Minor

A minor in biology consists of a minimum of 17 semester credits of biology (BIO) courses.

We encourage students to consult a biology faculty member to help them develop a minor that best suits their needs.

Required:

- BIO 121 - Principles of Biology I, 4 credit hours
- BIO 122 - Principles of Biology II, 4 credit hours

## Business

The Carmel Boyer School of Business trains students to become contributing members of today's corporate, entrepreneurial, public and non-profit organizations. While an objective of the School is to prepare a person for specific career orientation, the School recognizes that the student must also develop into an individual ready to adapt to personal and social problems as well as to a constantly changing global, competitive environment. Communication and leadership skills are critical and will be honed through experiential learning, internship opportunities, and student organizational involvement. Prior to entering a specialized curriculum, students will broaden their preparation in written and oral communications, the social and natural sciences, mathematics and other courses that will prepare them for a lifetime of learning.

**Special Note:** A course taken as an elective for a BUS major cannot be used as an elective to satisfy the requirements of another BUS major or minor.

## Associate's to Bachelor's Program (A2BW)

Baldwin Wallace University offers a streamlined Bachelor's Degree completion program that is open to adult students with work experience who have earned an Associate's Degree from a regionally-accredited institution. Students must apply and be admitted to Baldwin Wallace University.

## Majors

### Accounting, B.A.

The Accounting Major provides both technical accounting, financial skills, and the broad functional business background necessary to succeed in this challenging career field. New financial instruments and accounting pronouncements are being developed constantly. Tax laws are ever changing. While Accounting expertise is critical, managers in the field must make recommendations and decisions with the 'big picture' in mind and communicate information in an open and understandable way to both external and internal users.

**Minimum Total Credits Required: 65**

Accounting Major Required Courses: (31 credit hours)

- ACC 211 - Intro to Financial Accounting, 3 credit hours ^
- ACC 245 - Bloomberg & Excel Certifications, 3 credit hours \*
- ACC 316 - Managerial Accounting, 3 credit hours
- ACC 321 - Intermediate Accounting I, 4 credit hours \*^
- ACC 322 - Intermediate Accounting II, 4 credit hours \*
- ACC 407 - Individual Taxation, 3 credit hours \*
- ACC 408 - Entity Taxation, 3 credit hours \*
- ACC 418 - Govt and Non-Profit Accounting, 2 credit hours \*
- ACC 419 - Auditing Principles, 3 credit hours \*
- ACC 432 - AIS/Data Analytics for Accountants, 3 credit hours \*

Additional Requirements

^ Minimum grade requirement of B- is required for ACC 211 and ACC 321.

Students majoring in Accounting must also meet these requirements:

1. At least six (6) courses at the 300-400 level must be completed in the Carmel Boyer School of Business at Baldwin Wallace University.
2. Students planning to attend graduate school are encouraged to take calculus.

3. A maximum of 4 semester hours of a D grade in a required Business course may be counted toward the major.

Required Foundation Courses: (12 credit hours)

- MTH 120/121 - Applied College Mathematics or higher
- ECN 121 - Principles of Microeconomics, 3 credit hours
- ECN 122 - Principles of Macroeconomics, 3 credit hours
- FNC 280 - Applied Financial Statistics, 3 credit hours

Business Core Required Courses: (22 credit hours)

- MGT 205 - Introduction to Management, 3 credit hours
- MKT 230 - Introduction to Marketing, 3 credit hours
- BUS 326 - Legal Environment of Organizations, 3 credit hours
- FNC 342 - Corporate & Organizational Finance, 3 credit hours
- BUS 358 - Business Communications, 3 credit hours
- BUS 365 - Business Analytics, 3 credit hours
- BUS 451 - Management Strategy & Policy, 4 credit hours

Residency Note:

\*ACC 245,321,322,407,408,418,419, & 432 must be taken at BW. Transfer is permitted for ACC 316. Any other upper level accounting elective will be evaluated for equivalency into the required Undergraduate Accounting Major curriculum. No transfer course if taken outside a 5 year window from semester start or not meeting minimum grade requirements will be accepted. Petitions for exception to this policy must be made to the Accounting Program Director.

## **Applied Business Administration, B.A.A.B.**

This Program promotes lifelong learning for working adults. The focus of the curriculum is on personal development and application of concepts in the workplace. Critical components of globalization, communication, quantitative reasoning, teamwork, and leadership reflect the workforce demands of organizations in Northeast Ohio competing in the global economy.

**Minimum Credits Required: 120**

Analytical Reasoning:

- MTH 101 - Mathematics Modeling & Quantitative Analysis, 3 credit hours
- CSC 141 - Advanced Applications for Information Analysis, 3 credit hours
- PHY 104 - General Problem Solving Techniques, 3 credit hours
- ECN 120 - Survey of Economics, 3 credit hours
- ACC 213 - Accounting & Finance Essentials, 3 credit hours ^

^ The sequence of ACC 211 and ACC 212 (or ACC 316) can be substituted for ACC 213

Statistics: (Choose One)

- MTH 279 - Basic Statistical Methods, 3 credit hours
- FNC 280 - Applied Financial Statistics, 3 credit hours

Professional Preparation:

- CAS 126 - Introduction to Communication, 3 credit hours
- ENG 131 - Workshop in Exposition and Argument, 3 credit hours
- MGT 205 - Introduction to Management, 3 credit hours
- FNC 243W - Personal Finance, 3 credit hours
- ASW 246W - Stress Management, 2 credit hours
- BUS 358 - Business Communications, 3 credit hours

Managing Teams:

- PSY 100 - Principles of Psychological Science, 3 credit hours
- BUS 310I - International Business, 3 credit hours
- MGT 310 - Human Resource Management, 3 credit hours
- MGT 329 - Organizational Ethics, 3 credit hours
- MGT 405 - Leadership Excellence, 3 credit hours
- MGT 409D - Behavioral Theories of Management, 3 credit hours

Persuasive Marketing:

- MKT 230 - Introduction to Marketing, 3 credit hours
  - MKT 332 - B2B Marketing, 3 credit hours
  - MKT 336 - Brand Management, 3 credit hours
  - MKT 337 - Digital Marketing, 3 credit hours
  - MKT 338 - Consumer Behavior, 3 credit hours
  - MKT 431 - Supply Chain Management, 3 credit hours
- Additional focus areas may include: Wellness and Community Health, Information Technology, Criminal Justice, Creative Writing, Innovation

Field Specific Competencies, 12-42 credit hours

Applied Project:

- MGT 355 - Applied Project, 12 credit hours

Individual Development Plan:

- MGT 305 - Individual Development Plan I, 3 credit hours
- MGT 306 - Individual Development Plan II, 3 credit hours

## **Business Administration, B.A.**

**Minimum Credits Required: 58**

Required Foundation Courses:

- ECN 121 - Principles of Microeconomics, 3 credit hours
- ECN 122 - Principles of Macroeconomics, 3 credit hours
- MTH 120/121 - Applied College Mathematics or higher

Technology: (Choose One)

- CSC 141 - Advanced Applications for Information Analysis, 3 credit hours
- CSC 210 - Computer Science I: Programs and Applications, 3 credit hours
- ACC 245 - Bloomberg & Excel Certifications, 3 credit hours

Statistics: (Choose One)

- MTH 279 - Basic Statistical Methods, 3 credit hours
- FNC 280 - Applied Financial Statistics, 3 credit hours

Required Business Courses

- ACC 211 - Intro to Financial Accounting, 3 credit hours
- ACC 212 - Intro to Managerial Accounting, 3 credit hours ^
- MGT 205 - Introduction to Management, 3 credit hours
- MKT 230 - Introduction to Marketing, 3 credit hours
- BUS 326 - Legal Environment of Organizations, 3 credit hours
- FNC 342 - Corporate & Organizational Finance, 3 credit hours
- BUS 358 - Business Communications, 3 credit hours
- BUS 365 - Business Analytics, 3 credit hours
- BUS 451 - Management Strategy & Policy, 4 credit hours

^ ACC 316 may be taken in place of ACC 212.

Elective Business Administration Courses

- Five elective courses at the 300-400 level, 15 credit hours

Two of the five elective courses must be taken at Baldwin Wallace University.

Additional Requirements

Students majoring in Business Administration must also meet these requirements:

1. At least six (6) courses at the 300-400 level must be completed in the Carmel Boyer School of Business at Baldwin Wallace University.
2. Students planning to attend graduate school are encouraged to take calculus.
3. A maximum of 4 semester hours of a D grade in a required Business prefix course may be counted toward the major.

## **Business Information Systems, B.S.**

**Minimum Credits Required: 61**

Required courses:

- MTH 120/121 - Applied College Mathematics or higher
- MTH 160 - Introduction to Discrete Structures, 3 credit hours
- CSC 160 - Introduction to Computing, 3 credit hours
- ECN 120 - Survey of Economics, 3 credit hours

- MGT 205 - Introduction to Management, 3 credit hours
- CSC 210 - Computer Science I: Programs and Applications, 3 credit hours
- ACC 211 - Intro to Financial Accounting, 3 credit hours
- ACC 212 - Intro to Managerial Accounting, 3 credit hours ^
- MKT 230 - Introduction to Marketing, 3 credit hours
- CSC 235 - System Requirements and Testing, 3 credit hours
- CSC 240 - Object-Oriented Programming, 3 credit hours
- CSC 280 - Data Systems, 3 credit hours
- BIS 340 - Visualizing Data for Business Analysis, 3 credit hours
- FNC 342 - Corporate & Organizational Finance, 3 credit hours
- BUS 358 - Business Communications, 3 credit hours
- CSC 360 - Information Systems Project Management, 3 credit hours
- BUS 451 - Management Strategy & Policy, 4 credit hours
- CSC 464 - Information Systems Analyst Senior Project, 3 credit hours
- BIS 475 - Cyber Security Governance, 3 credit hours

^ ACC 316 may be taken in place of ACC 212

Statistics: (Choose One)

- MTH 279 - Basic Statistical Methods, 3 credit hours
- FNC 280 - Applied Financial Statistics, 3 credit hours

Additional Requirements:

Students majoring in Business Information Systems must also meet these requirements:

1. At least six (6) courses at the 300-400 level must be completed in the Carmel Boyer School of Business at Baldwin Wallace University.
2. Students planning to attend graduate school are encouraged to take calculus.
3. A maximum of 4 semester hours of a D grade in a required Business prefix course may be counted toward the major.

## **Business of Healthcare, B.A.**

The Business of Healthcare Major promotes an understanding of America's complex and evolving healthcare system and increases the competencies of students pursuing careers as managers and leaders in that field. Students will analyze perspectives, methods, and values associated with the delivery, management and finance of health services. They will evaluate health data, payments systems, management practices, ethical principles, public policies, promotional strategies and system designs to discover ways to meet the demand for effective, affordable, efficient and responsible health care.

The major promotes organizational insight and managerial ability for those who desire leadership positions in health-related enterprises. The curriculum is designed to meet the needs of both healthcare professionals with technical/clinical degrees as well as those of traditional undergraduate students. The curriculum in total is also geared toward enhancing student knowledge of the healthcare environment, oral and written presentation skills as well as overall problem solving skills.

**Minimum Credits Required: 47**

Required Foundation Courses

- MTH 120/121 - Applied College Mathematics or higher

- ECN 120 - Survey of Economics, 3 credit hours

Technology: (Choose One)

- CSC 141 - Advanced Applications for Information Analysis, 3 credit hours
- CSC 210 - Computer Science I: Programs and Applications, 3 credit hours
- ACC 245 - Bloomberg & Excel Certifications, 3 credit hours

Statistics: (Choose One)

- MTH 279 - Basic Statistical Methods, 3 credit hours
- FNC 280 - Applied Financial Statistics, 3 credit hours

Required Health and Physical Education Course

- ASW 206 - Medical Terminology, 2 credit hours

Required Business Courses

- ACC 213 - Accounting & Finance Essentials, 3 credit hours ^
- MGT 205 - Introduction to Management, 3 credit hours
- MKT 230 - Introduction to Marketing, 3 credit hours
- BUS 358 - Business Communications, 3 credit hours
- BUS 365 - Business Analytics, 3 credit hours
- MGT 367 - Healthcare Law and Ethics, 3 credit hours
- BUS 451 - Management Strategy & Policy, 4 credit hours

^ The sequence of ACC 211 and ACC 212 (or ACC 316) can be substituted for ACC 213

Required Healthcare Management Courses

- MGT 170 - Explorations in Healthcare Careers, 1 credit hour
- BUS 497X - Internship, Credit hours to be arranged (1 credit hour required)
- MGT 357 - American Healthcare System, 3 credit hours
- MGT 377 - Healthcare Finance, 3 credit hours
- MGT 487 - Problem Solving and Applied Healthcare Management, 3 credit hours

Note:

The capstone course can only be taken as the last course in the Business of Healthcare Major. With prior approval, it can be taken simultaneously with another Business of Healthcare Major course.

Students pursuing this major may consider a major in Community Health Promotion, B.A. or Public Health, B.S..

Internship

An internship in, or an independent research project for a health or community agency is required for any student who does not have a minimum of one year of health-care-related work experience. It is also required that students with more than one year of health-care-related work experience participate in an experience that would broaden their focus and understanding of the overall health care world.



### Mentoring Program

Baldwin Wallace University will work with the students in this program to make available mentors from the various healthcare industries to allow the student to have a greater appreciation of the “real world of healthcare.”

### Additional Requirements

Students majoring in Business of Healthcare must also meet these requirements:

1. At least six (6) courses at the 300-400 level must be completed in the Carmel Boyer School of Business at Baldwin Wallace University.
2. Students planning to attend graduate school are encouraged to take calculus.
3. A maximum of 4 semester hours of a D grade in a required Business prefix course may be counted toward the major.

## Digital Marketing, B.A.

**Minimum Credits Required: 59**

### Required Courses:

- MTH 120/121 - Applied College Mathematics or higher
- CAS 126 - Introduction to Communication, 3 credit hours
- CSC 135 - Introduction to Web Site Development, 3 credit hours
- ECN 120 - Survey of Economics, 3 credit hours
- MGT 205 - Introduction to Management, 3 credit hours
- ACC 213 - Accounting & Finance Essentials, 3 credit hours ^
- ART 225 - Introduction to Photoshop, 2 credit hours
- CAS 226 - Writing for Multimedia, 3 credit hours
- MKT 230 - Introduction to Marketing, 3 credit hours
- ACC 245 - Bloomberg & Excel Certifications, 3 credit hours
- MKT 336 - Brand Management, 3 credit hours
- MKT 337 - Digital Marketing, 3 credit hours
- BIS 340 - Visualizing Data for Business Analysis, 3 credit hours
- FNC 342 - Corporate & Organizational Finance, 3 credit hours
- BUS 358 - Business Communications, 3 credit hours
- MKT 415 - Portfolio Review, 1 credit hour
- MKT 432 - Marketing Research & Information Systems, 3 credit hours
- MKT 437X - Content Marketing, 3 credit hours
- BUS 451 - Management Strategy & Policy, 4 credit hours
- BUS 497X - Internship, Credit hours to be arranged (1 credit required)

^ The sequence of ACC 211 and ACC 212 (or ACC 316) can be substituted for ACC 213

### Statistics: (Choose One)

- MTH 279 - Basic Statistical Methods, 3 credit hours
- FNC 280 - Applied Financial Statistics, 3 credit hours

### Additional Requirements:

Students majoring in Digital Marketing must also meet these requirements:

1. At least six (6) courses at the 300-400 level must be completed in the Carmel Boyer School of Business at Baldwin Wallace University.
2. Students planning to attend graduate school are encouraged to take calculus.
3. A maximum of 4 semester hours of a D grade in a required Business prefix course may be counted toward the major.

## **Economics, B.A.**

Students who elect to major in economics will find a broad spectrum of courses enabling them to obtain jobs in the business and financial community, to enter graduate school or to pursue a professional education, such as law. Courses in economic theory are balanced with others in which economics is applied to specific domestic and international issues. Economics majors are exposed to computer techniques and applications in statistics and economic research. Independent study and seminar classes are made available to juniors and seniors.

**Minimum Credits Required: 37**

### Required Courses

- ECN 121 - Principles of Microeconomics, 3 credit hours
- ECN 122 - Principles of Macroeconomics, 3 credit hours
- MTH 279 - Basic Statistical Methods, 3 credit hours
- ECN 301 - Intermediate Economics I (Micro Theory), 3 credit hours
- ECN 302 - Intermediate Economics II (Macro Theory), 3 credit hours
- ECN 320 - Research Methods and Design, 2 credit hours
- ECN 321 - Data Analysis Lab, 1 credit hour
- ECN 339 - Financial Intermediaries and Financial Institutions, 3 credit hours
- ECN 365I - International Economics, 3 credit hours
- ECN 379 - Intermediate Statistical Methods, 3 credit hours
- ECN 397X - Economics Internship, 1 credit hour
- ECN 464 - Research Seminar, 3 credit hours
- 2 Elective Courses in Economics at the 300-400 level, 6 credit hours

### Note:

MTH 140 or MTH 141 can substitute for one of the 2 elective courses in Economics at the 300-400 level. Only C- or above grade(s) in non-Economics course(s) substituting for one of the 300-level elective courses may be counted toward the major.

Students majoring in economics should complete MTH 279 early in their program.

## **Enterprise Risk Analytics, B.S.**

**Minimum Credits Required: 58**

### Required Courses:

- MTH 105 - Introduction to Probability and Statistics, 3 credit hours **AND**
- MTH 106 - Introductory Statistics II, 3 credit hours
- OR**
- MTH 279 - Basic Statistical Methods, 3 credit hours
- OR**
- FNC 280 - Applied Financial Statistics, 3 credit hours
- MTH 141 - Calculus I, 4 credit hours

- ECN 121 - Principles of Microeconomics, 3 credit hours
- ECN 122 - Principles of Macroeconomics, 3 credit hours
- MGT 205 - Introduction to Management, 3 credit hours
- ACC 213 - Accounting & Finance Essentials, 3 credit hours ^
- MKT 230 - Introduction to Marketing, 3 credit hours
- ACC 245 - Bloomberg & Excel Certifications, 3 credit hours
- FNC 281 - Principles of Risk Management and Insurance, 3 credit hours
- BUS 326 - Legal Environment of Organizations, 3 credit hours
- BIS 340 - Visualizing Data for Business Analysis, 3 credit hours
- FNC 342 - Corporate & Organizational Finance, 3 credit hours
- BUS 358 - Business Communications, 3 credit hours
- BUS 364 - Making Hard Decisions- Under Uncertainty and Risk, 3 credit hours
- BUS 365 - Business Analytics, 3 credit hours
- FNC 381 - Enterprise Risk Management, 3 credit hours
- FNC 465 - Risk Management in Financial Institutions, 3 credit hours
- BIS 475 - Cyber Security Governance, 3 credit hours
- FNC 481 - Enterprise Risk Capstone, 3 credit hours

^ The sequence of ACC 211 and ACC 212 (or ACC 316) can be substituted for ACC 213

## Finance, B.A.

The field of financial management, now more than ever, needs ethical professionals with a broad educational background. Financial management examines the sources and uses of funds within an organization, the returns and risks related to an organization's working capital and capital budgeting decisions. Financial curriculum prepares students for challenging and fast-paced positions in financial planning, investment, and services in both public and private sector finance.

**Minimum Credits Required: 58**

### Required Foundation Courses

- MTH 120/121 - Applied College Mathematics or higher
- ECN 121 - Principles of Microeconomics, 3 credit hours
- ECN 122 - Principles of Macroeconomics, 3 credit hours
- ACC 245 - Bloomberg & Excel Certifications, 3 credit hours \*
- FNC 280 - Applied Financial Statistics, 3 credit hours

### Required Business Courses

- ACC 211 - Intro to Financial Accounting, 3 credit hours
- ACC 212 - Intro to Managerial Accounting, 3 credit hours ^
- MGT 205 - Introduction to Management, 3 credit hours
- MKT 230 - Introduction to Marketing, 3 credit hours
- BUS 326 - Legal Environment of Organizations, 3 credit hours
- FNC 342 - Corporate & Organizational Finance, 3 credit hours
- BUS 358 - Business Communications, 3 credit hours
- BUS 365 - Business Analytics, 3 credit hours
- BUS 451 - Management Strategy & Policy, 4 credit hours

^ ACC 316 may be taken in place of ACC 212.

## Required Finance Courses

- FNC 445 - Principles of Investments, 3 credit hours
- FNC 446 - Intermediate Finance, 3 credit hours
- FNC 488 - Financial Modeling Capstone, 3 credit hours

## Finance Elective Courses

Choose two of the following Finance elective courses:

- FNC 441 - Behavioral Finance, 3 credit hours
- FNC 444I - International Financial Management, 3 credit hours
- FNC 455 - Portfolio Analysis and Management, 3 credit hours
- FNC 464 - Real Estate Finance & Investments, 3 credit hours
- FNC 465 - Risk Management in Financial Institutions, 3 credit hours
- FNC 485 - Empirical Methods in Finance, 3 credit hours

## Additional Requirements

Students majoring in Finance must also meet these requirements:

1. At least six (6) courses at the 300-400 level must be completed in the Carmel Boyer School of Business at Baldwin Wallace University.
2. Students planning to attend graduate school are encouraged to take calculus.
3. A maximum of 4 semester hours of a D grade in a required Business prefix course may be counted toward the major.

## Residency Note:

\*ACC 245 must be taken at BW. Two upper level finance electives, that are not from the list of required Finance Major courses, may transfer. Any other upper level finance electives will be evaluated for equivalency into the required Undergraduate Finance Major curriculum. No transfer course if taken outside a 5 year window from semester start or not meeting minimum grade requirements will be accepted. Petitions for exception to this policy must be made to the Finance Program Director.

## **Hospitality & Tourism Management, B.A.**

**Minimum Credits Required: 48**

### Required Courses:

- MTH 120/121 - Applied College Mathematics or higher
- ECN 120 - Survey of Economics, 3 credit hours
- MKT 230 - Introduction to Marketing, 3 credit hours
- HTM 240 - Introduction to Hospitality and Tourism Management, 3 credit hours
- ACC 213 - Accounting & Finance Essentials, 3 credit hours ^
- ACC 245 - Bloomberg & Excel Certifications, 3 credit hours
- MGT 310 - Human Resource Management, 3 credit hours
- HTM 326 - Tourism in Recreation and Leisure, 3 credit hours
- HTM 342 - Hospitality and Tourism Marketing and Sales, 3 credit hours
- HTM 343 - Customer Experience Management in Hospitality & Tourism, 3 credit hours
- HTM 344 - Hospitality & Tourism Lodging and Operations, 3 credit hours
- BUS 358 - Business Communications, 3 credit hours

- MGT 406I - International Organizational Behavior and Management, 3 credit hours
- OR**
- MGT 409D - Behavioral Theories of Management, 3 credit hours
  - SPM 450 - Facility/Event Management, 3 credit hours
  - HTM 497X - Internship, 3 credit hours

^ The sequence of ACC 211 and ACC 212 (or ACC 316) can be substituted for ACC 213

Statistics: (Choose One)

- MTH 279 - Basic Statistical Methods, 3 credit hours
- FNC 280 - Applied Financial Statistics, 3 credit hours

Additional Requirements:

Students majoring in Hospitality & Tourism Management must also meet these requirements:

1. At least six (6) courses at the 300-400 level must be completed in the Carmel Boyer School of Business at Baldwin Wallace University.
2. Students planning to attend graduate school are encouraged to take calculus.
3. A maximum of 4 semester hours of a D grade in a required Business prefix course may be counted toward the major.

## Human Resource Management, B.A.

The Human Resource Management Major provides knowledge in the technical areas of Employment Law, Staffing and Development, Compensation, and Human Resource Strategy. This curriculum aligns with the Society for Human Resource Management recommended course of study. Understanding of the overall organizational strategy and business environments is accompanied by experience in the application of current Human Resource business practices. This knowledge and skill base prepares students to work in both large corporations and small entrepreneurial firms. The Society for Human Resource Management (SHRM) has identified the curriculum at Baldwin Wallace University as aligning with their professional guidelines and requirements. Our curriculum is approved by the Human Resources Certification Institute (HRCI). All for-credit human resources credit, both undergraduate and graduate, is acceptable for HRCI continuing education.

**Minimum Credits Required: 58**

Required Foundation Courses:

- ECN 121 - Principles of Microeconomics, 3 credit hours
- ECN 122 - Principles of Macroeconomics, 3 credit hours
- MTH 120/121 - Applied College Mathematics or higher

Technology: (Choose One)

- CSC 141 - Advanced Applications for Information Analysis, 3 credit hours
- CSC 210 - Computer Science I: Programs and Applications, 3 credit hours
- ACC 245 - Bloomberg & Excel Certifications, 3 credit hours

Statistics: (Choose One)

- MTH 279 - Basic Statistical Methods, 3 credit hours

- FNC 280 - Applied Financial Statistics, 3 credit hours

#### Required Business Courses

- ACC 211 - Intro to Financial Accounting, 3 credit hours
- ACC 212 - Intro to Managerial Accounting, 3 credit hours ^
- MGT 205 - Introduction to Management, 3 credit hours
- MKT 230 - Introduction to Marketing, 3 credit hours
- BUS 326 - Legal Environment of Organizations, 3 credit hours
- FNC 342 - Corporate & Organizational Finance, 3 credit hours
- BUS 358 - Business Communications, 3 credit hours
- BUS 365 - Business Analytics, 3 credit hours
- BUS 451 - Management Strategy & Policy, 4 credit hours

^ ACC 316 may be taken in place of ACC 212.

#### Required Human Resource Courses

- MGT 409D - Behavioral Theories of Management, 3 credit hours
- OR**
- MGT 406I - International Organizational Behavior and Management, 3 credit hours
- 
- MGT 310 - Human Resource Management, 3 credit hours
  - MGT 411 - Compensation, 3 credit hours
  - MGT 412 - Employment Law, 3 credit hours
  - MGT 413 - Staffing and Development, 3 credit hours

Two of the Human Resource courses must be taken at Baldwin Wallace University.

#### Additional Requirements

Students majoring in Human Resource must also meet these requirements:

1. At least six (6) courses at the 300-400 level must be completed in the Carmel Boyer School of Business at Baldwin Wallace University.
2. Students planning to attend graduate school are encouraged to take calculus.
3. A maximum of 4 semester hours of a D grade in a required Business prefix course may be counted toward the major.

## **International Business, B.A.**

The International Business major and minor prepares students to understand diverse cultures, experience a foreign culture, and demonstrate competency in international business practices. The International Business major consists of core Business Courses, international Business courses, a required study abroad experience, and an interdisciplinary requirement.

**Minimum Credits Required: 58**

#### Required Foundation Courses:

- ECN 121 - Principles of Microeconomics, 3 credit hours
- ECN 122 - Principles of Macroeconomics, 3 credit hours
- MTH 120/121 - Applied College Mathematics or higher

Technology: (Choose One)

- CSC 141 - Advanced Applications for Information Analysis, 3 credit hours
- CSC 210 - Computer Science I: Programs and Applications, 3 credit hours
- ACC 245 - Bloomberg & Excel Certifications, 3 credit hours

Statistics: (Choose One)

- MTH 279 - Basic Statistical Methods, 3 credit hours
- FNC 280 - Applied Financial Statistics, 3 credit hours

Required Business Courses

- ACC 211 - Intro to Financial Accounting, 3 credit hours
- ACC 212 - Intro to Managerial Accounting, 3 credit hours ^
- MGT 205 - Introduction to Management, 3 credit hours
- MKT 230 - Introduction to Marketing, 3 credit hours
- BUS 326 - Legal Environment of Organizations, 3 credit hours
- FNC 342 - Corporate & Organizational Finance, 3 credit hours
- BUS 358 - Business Communications, 3 credit hours
- BUS 365 - Business Analytics, 3 credit hours
- BUS 451 - Management Strategy & Policy, 4 credit hours

^ ACC 316 may be taken in place of ACC 212.

Required International Business Course

- BUS 310I - International Business, 3 credit hours

Elective International Business Courses

Choose four International Business elective courses:

- BUS 351I - Global Strategies, 3 credit hours
- BUS 352I - International Logistics, 3 credit hours
- BUS 360I - Political & Social Responsibility of Multinational Corporation, 3 credit hours
- MGT 406I - International Organizational Behavior and Management, 3 credit hours
- MKT 436I - International Marketing, 3 credit hours
- FNC 444I - International Financial Management, 3 credit hours

Two of the International Business elective courses must be taken at Baldwin Wallace University.

Required Study Abroad or Internship Abroad

Study abroad is defined as an approved program of study that includes significant time abroad. Semester long programs are encouraged.

Additional Requirements

Students majoring in International Business must also meet these requirements:

1. At least six (6) courses at the 300-400 level must be completed in the Carmel Boyer School of Business at Baldwin Wallace University.

2. Students planning to attend graduate school are encouraged to take calculus.
3. A maximum of 4 semester hours of a D grade in a required Business prefix course may be counted toward the major.

## **Management & Innovation, B.A.**

**Minimum Credits Required: 58**

Required Foundation Courses:

- ECN 121 - Principles of Microeconomics, 3 credit hours
- ECN 122 - Principles of Macroeconomics, 3 credit hours
- MTH 120/121 - Applied College Mathematics or higher

Technology: (Choose One)

- CSC 141 - Advanced Applications for Information Analysis, 3 credit hours
- CSC 210 - Computer Science I: Programs and Applications, 3 credit hours
- ACC 245 - Bloomberg & Excel Certifications, 3 credit hours

Statistics: (Choose One)

- MTH 279 - Basic Statistical Methods, 3 credit hours
- FNC 280 - Applied Financial Statistics, 3 credit hours

Required Business Courses

- ACC 211 - Intro to Financial Accounting, 3 credit hours
- ACC 212 - Intro to Managerial Accounting, 3 credit hours ^
- MGT 205 - Introduction to Management, 3 credit hours
- ENT 215 - Innovation & Entrepreneurship, 3 credit hours
- MKT 230 - Introduction to Marketing, 3 credit hours
- BUS 326 - Legal Environment of Organizations, 3 credit hours
- MGT 329 - Organizational Ethics, 3 credit hours
- FNC 342 - Corporate & Organizational Finance, 3 credit hours
- BUS 358 - Business Communications, 3 credit hours
- BUS 365 - Business Analytics, 3 credit hours
- BUS 451 - Management Strategy & Policy, 4 credit hours

^ ACC 316 may be taken in place of ACC 212.

Elective Courses

Take 3 elective courses from any of the concentration areas below, or declare a recommended concentration by picking 3 courses from one concentration area. Two of the elective courses must be taken at Baldwin Wallace University.

Leading People Concentration

- ENT 320 - Design Thinking, 3 credit hours
- MGT 310 - Human Resource Management, 3 credit hours



- MGT 405 - Leadership Excellence, 3 credit hours
  - MGT 406I - International Organizational Behavior and Management, 3 credit hours
- OR**
- MGT 409D - Behavioral Theories of Management, 3 credit hours

#### Global Management Concentration

- BUS 310I - International Business, 3 credit hours
- BUS 351I - Global Strategies, 3 credit hours
- BUS 352I - International Logistics, 3 credit hours
- BUS 360I - Political & Social Responsibility of Multinational Corporation, 3 credit hours
- MGT 406I - International Organizational Behavior and Management, 3 credit hours

#### Corporate Social Responsibility Concentration

- BUS 360I - Political & Social Responsibility of Multinational Corporation, 3 credit hours
- MGT 350 - Green Business, 3 credit hours
- SUS/MGT 340 - Biomimicry- Nature Inspired Product Design, 3 credit hours

#### Operations Management Concentration

- MGT 310 - Human Resource Management, 3 credit hours
- MGT 325 - Organizational Project Management, 3 credit hours
- BUS 352I - International Logistics, 3 credit hours
- MKT 431 - Supply Chain Management, 3 credit hours

#### Additional Requirements

Students majoring in Management must also meet these requirements:

1. At least six (6) courses at the 300-400 level must be completed in the Carmel Boyer School of Business at Baldwin Wallace University.
2. Students planning to attend graduate school are encouraged to take calculus.
3. A maximum of 4 semester hours of a D grade in a required Business prefix course may be counted toward the major.

## Marketing, B.A.

The Marketing Major offers an integrative approach to understanding and solving contemporary marketing challenges. The curriculum provides students with an understanding of core marketing tools including consumer analysis, market research, communication, and strategic planning. Students then apply these marketing tools in the development of marketing plans, case studies, and actual marketing strategies. Coursework prepares students for careers in advertising, sales, product development, marketing management, market research, and account management.

**Minimum Credits Required: 58**

Required Foundation Courses:

- ECN 121 - Principles of Microeconomics, 3 credit hours
- ECN 122 - Principles of Macroeconomics, 3 credit hours
- MTH 120/121 - Applied College Mathematics or higher

Technology: (Choose One)

- CSC 141 - Advanced Applications for Information Analysis, 3 credit hours
- CSC 210 - Computer Science I: Programs and Applications, 3 credit hours
- ACC 245 - Bloomberg & Excel Certifications, 3 credit hours

Statistics: (Choose One)

- MTH 279 - Basic Statistical Methods, 3 credit hours
- FNC 280 - Applied Financial Statistics, 3 credit hours

Required Business Courses

- ACC 211 - Intro to Financial Accounting, 3 credit hours
- ACC 212 - Intro to Managerial Accounting, 3 credit hours ^
- MGT 205 - Introduction to Management, 3 credit hours
- MKT 230 - Introduction to Marketing, 3 credit hours
- BUS 326 - Legal Environment of Organizations, 3 credit hours
- FNC 342 - Corporate & Organizational Finance, 3 credit hours
- BUS 358 - Business Communications, 3 credit hours
- BUS 365 - Business Analytics, 3 credit hours
- BUS 451 - Management Strategy & Policy, 4 credit hours

^ ACC 316 may be taken in place of ACC 212.

Elective Marketing Courses

Five elective courses in Marketing for 15 credits, choose from:

- MKT 331 - Services Marketing, 3 credit hours
- MKT 332 - B2B Marketing, 3 credit hours
- MKT 333 - Advertising Management, 3 credit hours
- MKT 334 - Salesmanship & Sales Management, 3 credit hours
- MKT 336 - Brand Management, 3 credit hours
- MKT 337 - Digital Marketing, 3 credit hours
- MKT 338 - Consumer Behavior, 3 credit hours
- MKT 431 - Supply Chain Management, 3 credit hours
- MKT 432 - Marketing Research & Information Systems, 3 credit hours
- MKT 436I - International Marketing, 3 credit hours

Two of the five elective courses must be taken at Baldwin Wallace University.

Additional Requirements

Students majoring in Marketing must also meet these requirements:

1. At least six (6) courses at the 300-400 level must be completed in the Carmel Boyer School of Business at Baldwin Wallace University.
2. Students planning to attend graduate school are encouraged to take calculus.
3. A maximum of 4 semester hours of a D grade in a required Business prefix course may be counted toward the major.

## Organizational Leadership, B.A.

Successful organizations demand successful leaders at all levels. This major focuses on an understanding of human behavior and leadership theory and practice. The Organizational Leadership program integrates courses from across disciplines to stimulate both critical and creative thinking. The broad, interdisciplinary curriculum provides the framework necessary for managing and leading in today's team-based organizations. The Organizational Leadership major is available to adults with work experience who are registered in the Adult, Transfer, & Military Services Program. This major is well suited to occupations in the area of human resources, training and development, other non-fiscal managerial positions.

Organizational Leadership majors may choose to double major in Psychology, Sociology, or Business, or complete a minor in up to two of those fields by counting the required courses in both areas. The Human Resources certificate program also meshes well with the Organizational Leadership major.

### Minimum Credits Required: 36

Required courses:

- ECN 120 - Survey of Economics, 3 credit hours
- MGT 205 - Introduction to Management, 3 credit hours
- ACC 213 - Accounting & Finance Essentials, 3 credit hours ^
- MKT 230 - Introduction to Marketing, 3 credit hours
- MGT 310 - Human Resource Management, 3 credit hours
- MGT 325 - Organizational Project Management, 3 credit hours
- BUS 358 - Business Communications, 3 credit hours
- MGT 405 - Leadership Excellence, 3 credit hours
  
- CSC 141 - Advanced Applications for Information Analysis, 3 credit hours
- OR
- CSC 210 - Computer Science I: Programs and Applications, 3 credit hours
- OR
- ACC 245 - Bloomberg & Excel Certifications, 3 credit hours
  
- BUS 326 - Legal Environment of Organizations, 3 credit hours
- OR
- MGT 329 - Organizational Ethics, 3 credit hours
  
- MGT 406I - International Organizational Behavior and Management, 3 credit hours
- OR
- MGT 409D - Behavioral Theories of Management, 3 credit hours
  
- MTH 121 - Applied College Mathematics, 3 credit hours
- OR
- MTH 101 - Mathematics Modeling & Quantitative Analysis, 3 credit hours

^ The sequence of ACC 211 and ACC 212 (or ACC 316) can be substituted for ACC 213

## Sport Management, B.A.

The major is designed for students who are interested in pursuing a career in professional sports, collegiate athletics, amateur sports, collegiate recreation, youth sports, or organizations with a sport-related component such as private clubs, government agencies, and city recreation departments. Students completing this major may choose any minor

to fully pursue the growing diversity of potential careers in the Sport Management field and to embrace the Liberal Arts mission of Baldwin Wallace University.

**Minimum Credits Required: 54**

Required courses:

- SPM 223 - The History of Sport, 3 credit hours
- SPM 233 - Sport in Society, 3 credit hours
- SPM 243 - Introduction to Sport Management, 3 credit hours
- SPM 244 - Sport Research & Analytics, 3 credit hours
- SPM 245 - Sport Technology, 3 credit hours
- SPM 340 - Program Organization & Administration, 3 credit hours
- SPM 343 - Legal Issues in Sport Management, 3 credit hours
- SPM 344 - Sport Management & Media Relations, 3 credit hours
- SPM 346 - Sport Marketing, 3 credit hours
- SPM 348 - Ethics in Sport Management, 3 credit hours
- SPM 349 - The Industry of Sport, 3 credit hours
- SPM 353 - Sport Sales and Sponsorship, 3 credit hours
- SPM 450 - Facility/Event Management, 3 credit hours
- SPM 452 - Sport Management Capstone, 3 credit hours
- SPM 497X - Internship, Credit hours to be arranged (6 credit hours required)

At least six credits from the following:

- ASW 227 - Principles of Coaching, 3 credit hours
- HTM 240 - Introduction to Hospitality and Tourism Management, 3 credit hours
- HTM 326 - Tourism in Recreation and Leisure, 3 credit hours
- HTM 342 - Hospitality and Tourism Marketing and Sales, 3 credit hours
- HTM 343 - Customer Experience Management in Hospitality & Tourism, 3 credit hours
- HTM 344 - Hospitality & Tourism Lodging and Operations, 3 credit hours
- SPM 350 - Professional Sport Industry, 3 credit hours
- SPM 351 - Collegiate Athletics, 3 credit hours
- SPM 360I - Global Sport Industry, 3 credit hours
- ASW 406 - Psychology of Coaching, 3 credit hours

All Sport Management majors must complete all 3XX & 4XX level classes at Baldwin Wallace University.

## Minors

### Accounting Minor

**Minimum Credits Required: 26**

Required Foundation Courses:

- ECN 120 - Survey of Economics, 3 credit hours ^
- ACC 245 - Bloomberg & Excel Certifications, 3 credit hours \*

Statistics: (Choose one)

- MTH 105 - Introduction to Probability and Statistics, 3 credit hours
- MTH 108 - Biostatistics, 3 credit hours
- MTH 235 - Probability & Statistics for Scientists & Engineers, 3 credit hours
- PSY 278 - Elements of Statistics, 4 credit hours
- MTH 279 - Basic Statistical Methods, 3 credit hours
- FNC 280 - Applied Financial Statistics, 3 credit hours

Required Business Courses:

- ACC 211 - Intro to Financial Accounting, 3 credit hours
- ACC 212 - Intro to Managerial Accounting, 3 credit hours #
- ACC 321 - Intermediate Accounting I, 4 credit hours \*
- ACC 322 - Intermediate Accounting II, 4 credit hours \*

# ACC 316 may be taken in place of ACC 212

Elective Accounting Course:

Choose one of the following:

- ACC 407 - Individual Taxation, 3 credit hours \*
- ACC 408 - Entity Taxation, 3 credit hours \*
- ACC 419 - Auditing Principles, 3 credit hours \*

Note:

^ The sequence of ECN 121 and ECN 122 can be substituted for ECN 120

Residency Note:

\*ACC 245,321,322,407,408, & 419 must be taken at BW. Any other upper level accounting elective will be evaluated for equivalency into the required Undergraduate Accounting Major curriculum. No transfer course if taken outside a 5 year window from semester start or not meeting minimum grade requirements will be accepted. Petitions for exception to this policy must be made to the Accounting Program Director.

## Applied Business Minor

This minor is not available to the following majors: Accounting, Business Administration, Business Information Systems, Business of Healthcare, Digital Marketing, Finance, Human Resource Management, International Business, Management, or Marketing.

**Minimum Credits Required: 24**

Required Courses:

- ECN 120 - Survey of Economics, 3 credit hours ^
- MGT 205 - Introduction to Management, 3 credit hours
- ACC 211 - Intro to Financial Accounting, 3 credit hours
- MKT 230 - Introduction to Marketing, 3 credit hours
- ACC 245 - Bloomberg & Excel Certifications, 3 credit hours
- FNC 342 - Corporate & Organizational Finance, 3 credit hours
- BUS 365 - Business Analytics, 3 credit hours

Statistics: (Choose One)

- MTH 105 - Introduction to Probability and Statistics, 3 credit hours
- MTH 108 - Biostatistics, 3 credit hours
- MTH 235 - Probability & Statistics for Scientists & Engineers, 3 credit hours
- PSY 278 - Elements of Statistics, 4 credit hours
- MTH 279 - Basic Statistical Methods, 3 credit hours
- FNC 280 - Applied Financial Statistics, 3 credit hours

Notes:

^ ECN 121 may be taken in place of ECN 120

## **Business Administration Minor**

**Minimum Credits Required: 27**

Required Foundation Courses:

- ECN 120 - Survey of Economics, 3 credit hours ^

Statistics: (Choose One)

- MTH 105 - Introduction to Probability and Statistics, 3 credit hours
- MTH 108 - Biostatistics, 3 credit hours
- MTH 235 - Probability & Statistics for Scientists & Engineers, 3 credit hours
- PSY 278 - Elements of Statistics, 4 credit hours
- MTH 279 - Basic Statistical Methods, 3 credit hours
- FNC 280 - Applied Financial Statistics, 3 credit hours

Required Business Courses:

- BUS 108 - Introduction to Business, 3 credit hours #
- ACC 211 - Intro to Financial Accounting, 3 credit hours
- ACC 212 - Intro to Managerial Accounting, 3 credit hours \*
- FNC 342 - Corporate & Organizational Finance, 3 credit hours

\* ACC 316 may be taken in place of ACC 212

Elective Business Administration Courses:

- Three Business Administration courses at the 300-400 level 9 credits

Note:

^ The sequence of ECN 121 and ECN 122 can be substituted for ECN 120

# The sequence of MGT 205, MKT 230 & BUS 326 can be substituted for BUS 108

## **Business Analytics Minor**

**Minimum Credits Required: 18**

Required Courses:

- ACC 245 - Bloomberg & Excel Certifications, 3 credit hours
- OR**
- CSC 141 - Advanced Applications for Information Analysis, 3 credit hours
  - BIS 340 - Visualizing Data for Business Analysis, 3 credit hours \*
  - BUS 365 - Business Analytics, 3 credit hours \*
- \* required course and required minimum grade of B- or better to progress to minor electives.

Statistics: (Choose One)

- MTH 105 - Introduction to Probability and Statistics, 3 credit hours
- MTH 108 - Biostatistics, 3 credit hours
- MTH 235 - Probability & Statistics for Scientists & Engineers, 3 credit hours
- PSY 278 - Elements of Statistics, 4 credit hours
- MTH 279 - Basic Statistical Methods, 3 credit hours
- FNC 280 - Applied Financial Statistics, 3 credit hours

Electives: (Choose Two)

- MTH 106 - Introductory Statistics II, 3 credit hours
- CSC 280 - Data Systems, 3 credit hours
- SPM 244 - Sport Research & Analytics, 3 credit hours
- ECN 379 - Intermediate Statistical Methods, 3 credit hours **OR**
- FNC 485 - Empirical Methods in Finance, 3 credit hours
- CSC 210 - Computer Science I: Programs and Applications, 3 credit hours **OR**
- CSC 211 - Introduction to Programming in Python, 3 credit hours **OR**
- CSC 212 - Intro to Programming for Scientists & Engineers, 3 credit hours

## **Economics Minor**

**Minimum Credits Required: 24**

Requirements:

- ECN 121 - Principles of Microeconomics, 3 credit hours
- ECN 122 - Principles of Macroeconomics, 3 credit hours
- MTH 279 - Basic Statistical Methods, 3 credit hours
- ECN 301 - Intermediate Economics I (Micro Theory), 3 credit hours
- ECN 302 - Intermediate Economics II (Macro Theory), 3 credit hours
- ECN 320 - Research Methods and Design, 2 credit hours
- ECN 321 - Data Analysis Lab, 1 credit hour
- ECN 365I - International Economics, 3 credit hours
- One additional economics course at the 300-400 level, 3 credit hours

Note:

MTH 140 or MTH 141 can substitute for the elective course in Economics at the 300-400 level. Only C- or above grade(s) in non-Economics course(s) substituting for one of the 300-level elective courses may be counted toward the major.

## Entrepreneurship Minor

The Entrepreneurship Minor provides a framework to understand the mindset, behaviors, experiences and skills of an entrepreneur; how an entrepreneurial business is planned, started and transitioned to the growth stage; and culminates in the development of a complete business plan. Key components to coursework include learning how to evaluate growth objectively, anticipate problems, develop pragmatic solutions and assemble the resources to implement a strategic vision.

**Minimum Credits Required: 18**

Required Foundation Courses

- ECN 120 - Survey of Economics, 3 credit hours ^
- ^ The sequence of ECN 121 and ECN 122 can be substituted for ECN 120

Required Business Courses

- ACC 213 - Accounting & Finance Essentials, 3 credit hours \*
  - MKT 230 - Introduction to Marketing, 3 credit hours
- \* The sequence of ACC 211, ACC 212 (or ACC 316) and FNC 342 can be substituted for ACC 213

Entrepreneurship Courses

- ENT 215 - Innovation & Entrepreneurship, 3 credit hours
- ENT 315 - Managing a Growing Venture, 3 credit hours
- ENT 415X - Entrepreneurship Capstone Experience, 3 credit hours

## Finance Minor

**Minimum Credits Required: 30**

Required Foundation Courses:

- ECN 120 - Survey of Economics, 3 credit hours ^
- ACC 245 - Bloomberg & Excel Certifications, 3 credit hours \*

Statistics: (Choose One)

- MTH 105 - Introduction to Probability and Statistics, 3 credit hours
- MTH 108 - Biostatistics, 3 credit hours
- MTH 235 - Probability & Statistics for Scientists & Engineers, 3 credit hours
- PSY 278 - Elements of Statistics, 4 credit hours
- MTH 279 - Basic Statistical Methods, 3 credit hours
- FNC 280 - Applied Financial Statistics, 3 credit hours



Required Courses:

- BUS 108 - Introduction to Business, 3 credit hours #
- ACC 211 - Intro to Financial Accounting, 3 credit hours
- ACC 212 - Intro to Managerial Accounting, 3 credit hours +
- FNC 342 - Corporate & Organizational Finance, 3 credit hours
- FNC 445 - Principles of Investments, 3 credit hours
- FNC 446 - Intermediate Finance, 3 credit hours
- FNC 488 - Financial Modeling Capstone, 3 credit hours

+ ACC 316 may be taken in place of ACC 212

Note:

^ The sequence of ECN 121 and ECN 122 can be substituted for ECN 120

# The sequence of MGT 205, MKT 230 & BUS 326 can be substituted for BUS 108

Residency Note:

\*ACC 245 must be taken at BW. Two upper level finance electives, that are not from the list of required Finance Major courses, may transfer. Any other upper level finance electives will be evaluated for equivalency into the required Undergraduate Finance Major curriculum. No transfer course if taken outside a 5 year window from semester start or not meeting minimum grade requirements will be accepted. Petitions for exception to this policy must be made to the Finance Program Director.

## Healthcare Management Minor

**Minimum Credits Required: 24**

Required Foundation Courses:

- ECN 120 - Survey of Economics, 3 credit hours ^

Statistics: (Choose One)

- MTH 105 - Introduction to Probability and Statistics, 3 credit hours
- MTH 108 - Biostatistics, 3 credit hours
- MTH 235 - Probability & Statistics for Scientists & Engineers, 3 credit hours
- PSY 278 - Elements of Statistics, 4 credit hours
- MTH 279 - Basic Statistical Methods, 3 credit hours
- FNC 280 - Applied Financial Statistics, 3 credit hours

Required Business Courses:

- BUS 108 - Introduction to Business, 3 credit hours #
- ACC 211 - Intro to Financial Accounting, 3 credit hours
- MGT 205 - Introduction to Management, 3 credit hours

Healthcare Management Courses:

- MGT 357 - American Healthcare System, 3 credit hours

Choose two courses from the following:

- MGT 367 - Healthcare Law and Ethics, 3 credit hours
- MGT 377 - Healthcare Finance, 3 credit hours
- MGT 409D - Behavioral Theories of Management, 3 credit hours

Note:

^ The sequence of ECN 121 and ECN 122 can be substituted for ECN 120

# The sequence of MGT 205, MKT 230 & BUS 326 can be substituted for BUS 108

## **Hospitality & Tourism Management Minor**

**Minimum Credits Required: 18**

Required Courses:

- MKT 230 - Introduction to Marketing, 3 credit hours
- HTM 240 - Introduction to Hospitality and Tourism Management, 3 credit hours
- HTM 326 - Tourism in Recreation and Leisure, 3 credit hours
- HTM 342 - Hospitality and Tourism Marketing and Sales, 3 credit hours
- HTM 343 - Customer Experience Management in Hospitality & Tourism, 3 credit hours
- HTM 344 - Hospitality & Tourism Lodging and Operations, 3 credit hours

## **Human Resource Management Minor**

**Minimum Credits Required: 24**

Required Foundation Courses

- ECN 120 - Survey of Economics, 3 credit hours ^

Required Business Courses

- BUS 108 - Introduction to Business, 3 credit hours #
- MGT 205 - Introduction to Management, 3 credit hours
- BUS 326 - Legal Environment of Organizations, 3 credit hours
- MGT 310 - Human Resource Management, 3 credit hours

Elective Human Resource Management Courses

Three elective courses in H.R. Management 9 credits, choose from:

- MGT 409D - Behavioral Theories of Management, 3 credit hours
- MGT 411 - Compensation, 3 credit hours
- MGT 412 - Employment Law, 3 credit hours
- MGT 413 - Staffing and Development, 3 credit hours

Note:

^ The sequence of ECN 121 and ECN 122 can be substituted for ECN 120

# The sequence of ACC 211, ACC 212 (or ACC 316), & MKT 230 can be substituted for BUS 108

## **International Business Minor**

**Minimum Credits Required: 18**

Required Foundation Courses:

- ECN 120 - Survey of Economics, 3 credit hours ^

Required Business Courses:

- BUS 108 - Introduction to Business, 3 credit hours #
- BUS 310I - International Business, 3 credit hours

Choose 3 of the following electives:

- BUS 351I - Global Strategies, 3 credit hours
- BUS 352I - International Logistics, 3 credit hours
- BUS 360I - Political & Social Responsibility of Multinational Corporation, 3 credit hours
- MGT 406I - International Organizational Behavior and Management, 3 credit hours
- MKT 436I - International Marketing, 3 credit hours
- FNC 444I - International Financial Management, 3 credit hours

Note:

^ The sequence of ECN 121 and ECN 122 can be substituted for ECN 120

# The sequence of ACC 211, ACC 212 (or ACC 316), & MKT 230 can be substituted for BUS 108

## **Management Minor**

**Minimum Credits Required: 21**

Required Foundation Courses

- ECN 120 - Survey of Economics, 3 credit hours ^

Required Business Courses

- BUS 108 - Introduction to Business, 3 credit hours #
- MGT 205 - Introduction to Management, 3 credit hours
- BUS 326 - Legal Environment of Organizations, 3 credit hours

Elective Management Courses

Three elective courses in Management for 9 credits, choose from:

- BUS 310I - International Business, 3 credit hours
- ENT 320 - Design Thinking, 3 credit hours
- MGT 310 - Human Resource Management, 3 credit hours
- MGT 325 - Organizational Project Management, 3 credit hours
- MGT 329 - Organizational Ethics, 3 credit hours
- SUS/MGT 340 - Biomimicry- Nature Inspired Product Design, 3 credit hours
- MGT 350 - Green Business, 3 credit hours

- BUS 351I - Global Strategies, 3 credit hours
  - BUS 352I - International Logistics, 3 credit hours
  - BUS 360I - Political & Social Responsibility of Multinational Corporation, 3 credit hours
  - MGT 405 - Leadership Excellence, 3 credit hours
- 
- MGT 406I - International Organizational Behavior and Management, 3 credit hours
- OR**
- MGT 409D - Behavioral Theories of Management, 3 credit hours
- 
- MKT 431 - Supply Chain Management, 3 credit hours

Note:

^ The sequence of ECN 121 and ECN 122 can be substituted for ECN 120

# The sequence of ACC 211, ACC 212 (or ACC 316), & MKT 230 can be substituted for BUS 108

## Marketing Minor

**Minimum Credits Required: 21**

Required Foundation Courses

- ECN 120 - Survey of Economics, 3 credit hours ^

Required Business Courses

- BUS 108 - Introduction to Business, 3 credit hours #
- BUS 326 - Legal Environment of Organizations, 3 credit hours
- MKT 230 - Introduction to Marketing, 3 credit hours

Elective Marketing Courses

Three elective courses in Marketing for 9 credits, choose from:

- MKT 331 - Services Marketing, 3 credit hours
- MKT 332 - B2B Marketing, 3 credit hours
- MKT 333 - Advertising Management, 3 credit hours
- MKT 334 - Salesmanship & Sales Management, 3 credit hours
- MKT 336 - Brand Management, 3 credit hours
- MKT 337 - Digital Marketing, 3 credit hours
- MKT 338 - Consumer Behavior, 3 credit hours
- MKT 431 - Supply Chain Management, 3 credit hours
- MKT 432 - Marketing Research & Information Systems, 3 credit hours
- MKT 436I - International Marketing, 3 credit hours

Note:

^ The sequence of ECN 121 and ECN 122 can be substituted for ECN 120

# The sequence of ACC 211, ACC 212 (or ACC 316), & MGT 205 can be substituted for BUS 108

# Chemistry

The Department of Chemistry provides a general knowledge of chemistry and prepares students for professional work in chemistry, graduate school, or professional schools of medicine, pharmacy or engineering.

## Beginning Courses in Chemistry

CHM 111, CHM 112 & CHM 115 are the regular introductory chemistry courses for those students who will need a substantial chemistry background and who have successfully completed high school chemistry. Any qualified student should take this course sequence since it is considered a prerequisite for every other course in the department.

## Majors

### Chemistry, B.S.

**Minimum Credits Required: 53.5**

Required Courses:

- CHM 111 - General Chemistry I, 4 credit hours
  - CHM 112 - General Chemistry II, 3 credit hours
  - CHM 115 - General Chemistry Lab, 1 credit hour
  - CHM 221 - Quantitative Analysis, 3 credit hours
  - CHM 225 - Quantitative Analysis Laboratory, 1 credit hour
  - CHM 251 - Organic Chemistry I, 3 credit hours
  - CHM 252 - Organic Chemistry II, 3 credit hours
  - CHM 255 - Organic Chemistry I Laboratory, .5 credit hour
  - CHM 256 - Organic Chemistry II Laboratory, 1 credit hour
  
  - CHM 331 - Physical Chemistry, 3 credit hours
- OR**
- CHM 332 - Physical Chemistry II, 3 credit hours
  
  - CHM 335 - Physical Chemistry Lab, 1 credit hour
  - CHM 364 - Junior Chemistry Seminar, .5 credit hour
  - CHM 464 - Senior Chemistry Seminar I, 1 credit hour
  - CHM 465 - Senior Chemistry Seminar II, .5 credit hour
  - MTH 141 - Calculus I, 4 credit hours
  - MTH 142 - Calculus II, 4 credit hours
  
  - PHY 131 - Physics for Scientists and Engineers I, 4 credit hours
  - PHY 151 - Introductory Physics Lab I, 1 credit hour
- OR**
- PHY 145 - Applied College Physics I, 5 credit hours  
Either PHY 131 along with PHY 151 or PHY 145, but not both, may be taken for credit.
  
  - PHY 132 - Physics for Scientists and Engineers II, 4 credit hours
  - PHY 152 - Introductory Physics Lab II, 1 credit hour
- OR**
- PHY 146 - Applied College Physics II, 5 credit hours  
Either PHY 132 along with PHY 152 or PHY 146, but not both, may be taken for credit.

A minimum of 9 credits from the following [300 level] courses:  
(Labs do not count as individual courses.)

- CHM 311 - Biochemistry, 3 credit hours
- CHM 315 - Biochemistry Laboratory, 1 credit hour
- CHM 321 - Instrumental Analysis, 3 credit hours
- CHM 325 - Instrumental Analysis Laboratory, 1 credit hour
- CHM 341 - Inorganic Chemistry, 3 credit hours
- CHM 343 - Organometallic Chemistry, 3 credit hours
- CHM 345 - Inorganic Chemistry Laboratory, 1 credit hour
- CHM 351 - Organic Spectroscopy, 2 credit hours
- CHM 352 - Polymer Chemistry, 3 credit hours

A minimum of one credit from the following courses:

- CHM 411 - Topics in Biochemistry, .5-2 credit hours
- CHM 421 - Topics in Analytical Chemistry, .5-2 credit hours
- CHM 431 - Topics in Physical Chemistry, .5-2 credit hours
- CHM 441 - Topics in Inorganic Chemistry, .5-2 credit hours
- CHM 451 - Topics in Organic Chemistry, .5-2 credit hours

More intensive options for the major include:

1. Certification by the American Chemical Society as a professional chemist;
2. Preparation for work toward an advanced degree in chemistry.

The pattern of study is based on the recommendations outlined by the Committee on Professional Training of the American Chemical Society for the ACS certified degree. A copy outlining the various possibilities may be obtained from the department secretary.

## Minors

### Chemistry Minor

**Minimum Credits Required: 19.5**

Required Courses:

Consultation with the Chemistry Department is encouraged.

Students interested in teacher certification must take the required courses in education. See Education.

- CHM 111 - General Chemistry I, 4 credit hours
  - CHM 112 - General Chemistry II, 3 credit hours
  - CHM 115 - General Chemistry Lab, 1 credit hour
  - CHM 251 - Organic Chemistry I, 3 credit hours
  - CHM 252 - Organic Chemistry II, 3 credit hours
  - CHM 255 - Organic Chemistry I Laboratory, .5 credit hour
  - CHM 256 - Organic Chemistry II Laboratory, 1 credit hour
  
  - CHM 221 - Quantitative Analysis, 3 credit hours and
  - CHM 225 - Quantitative Analysis Laboratory, 1 credit hour
- OR**
- CHM 281 - Environmental Chemistry, 3 credit hours and
  - CHM 285 - Environmental Chemistry Laboratory, 1 credit hour

# Communication Arts and Sciences

## Interested in Web Design?

Please see the Digital Media and Design: Graphic Design, B.A. or Digital Media and Design: Interactive Design, B.A. major.

## Majors

### Communication: Communication Studies, B.A.

The major in Communication Studies is designed to provide the student with the opportunity to develop applied communication skills within a framework of communication theory, research, and experiential learning. Coursework prepares the student for graduate work as well as careers in corporate and/or nonprofit organizations. Please note, students cannot double major in another communication major concentration.

**Minimum Credits Required: 43**

Required Courses:

- CAS 112 - Presentational Speaking, 3 credit hours
- CAS 115 - Media Literacy, 3 credit hours
- CAS 126 - Introduction to Communication, 3 credit hours
- CAS 172 - Foundations of Media Production, 3 credit hours
- CAS 202 - Relationships and Communication, 3 credit hours
- CAS 212 - Persuasive Speaking, 3 credit hours
- CAS 215 - Introduction to Communication Research, 3 credit hours
- CAS 226 - Writing for Multimedia, 3 credit hours
- CAS 311 - Quantitative Communication Research I, 3 credit hours
- CAS 312 - Quantitative Communication Research II, 3 credit hours
- CAS 313 - Organizational & Group Leadership, 3 credit hours
- CAS 497X - Internship, Credit hours to be arranged (1 credit hour required)
- CAS 476 - Capstone in Communication, 3 credit hours

Complete one of the following:

- CAS 278D - Diversity in America, 3 credit hours
- CAS 285D - Introduction to Intercultural Communication, 3 credit hours

Complete one of the following:

- CAS 413 - Argumentation and Debate, 3 credit hours
- CAS 425 - Conflict & Communication, 3 credit hours

### Communication: Film Studies, B.A.

The interdisciplinary film major encourages students to explore the relationship between film as an expressive art, and the interaction between films and the culture of which they are a part. The film major emphasizes critical, theoretical, and practical coursework which should provide the student with both an academic and artistic portfolio. Please note, Film Studies majors cannot minor in Media Production or double major in another communication major concentration.

**Minimum Credits Required: 43**

Required Courses:

- CAS 107 - Film and Culture, 3 credit hours
- CAS 115 - Media Literacy, 3 credit hours
- CAS 126 - Introduction to Communication, 3 credit hours
- CAS 172 - Foundations of Media Production, 3 credit hours
- CAS 215 - Introduction to Communication Research, 3 credit hours
- CAS 222 - Film History, 3 credit hours
- CAS 226 - Writing for Multimedia, 3 credit hours
- CAS 274 - Sound, Microphone Technique, and Recording, 2 credit hours
- CAS 370 - Screenwriting, 3 credit hours
- CAS 373 - Lighting for Film, 3 credit hours
- CAS 374 - Audio Editing, Mixing, and Distribution, 2 credit hours
- CAS 474 - Audio for Film, 3 credit hours
- CAS 476 - Capstone in Communication, 3 credit hours

Choose One:

- CAS 272 - Documentary and Field Production, 3 credit hours
- CAS 273 - Narrative Film Production and Direction, 3 credit hours

Choose One Of The Following:

- CAS 322 - Film Themes and Genres, 3 credit hours
- CAS 422 - Film Makers, 3 credit hours
- CAS 432 - Advanced Studies in Film Theory and Criticism, 3 credit hours

## **Communication: Media Production, B.A.**

Please note, Media Production Majors cannot minor in Convergent Journalism or double major in another communication major concentration.

**Minimum Credits Required: 43**

Required Courses:

- CAS 115 - Media Literacy, 3 credit hours
- CAS 126 - Introduction to Communication, 3 credit hours
- CAS 161 - Radio Production and Announcing, 3 credit hours
- CAS 172 - Foundations of Media Production, 3 credit hours
- CAS 215 - Introduction to Communication Research, 3 credit hours
- CAS 226 - Writing for Multimedia, 3 credit hours
- CAS 232 - Workshop in Journalism, 3 credit hours
- CAS 274 - Sound, Microphone Technique, and Recording, 2 credit hours
- CAS 374 - Audio Editing, Mixing, and Distribution, 2 credit hours
- CAS 428 - Media Law and Ethics, 3 credit hours
- CAS 497X - Internship, Credit hours to be arranged (1 credit hour required)
- CAS 476 - Capstone in Communication, 3 credit hours



Complete One Of The Following:

- CAS 272 - Documentary and Field Production, 3 credit hours
- CAS 273 - Narrative Film Production and Direction, 3 credit hours

Complete One Of The Following:

- CAS 277D - Media and Diversity, 3 credit hours
- CAS 372 - Advanced Media Criticism, 3 credit hours

Complete At Least 5 Credits From The Following:

- CAS 251 - Participation in The Exponent, 1-3 credit hours
- CAS 261X - DJ Format Shift, 2 credit hours
- CAS 271 - Participation in BW-TV, 1-3 credit hours
- CAS 305 - Workshop in New Media, 3 credit hours
- CAS 361 - Participation in WBWC, 1-3 credit hours

## **Communication: Public Relations, B.A.**

Please note, students cannot double major in another communication major concentration.

**Minimum Credits Required: 43**

Required Courses:

- CAS 115 - Media Literacy, 3 credit hours
- CAS 120 - Strategies in Public Relations, 3 credit hours
- CAS 125 - Event Planning, 3 credit hours
- CAS 126 - Introduction to Communication, 3 credit hours
- CAS 172 - Foundations of Media Production, 3 credit hours
- CAS 215 - Introduction to Communication Research, 3 credit hours
- CAS 226 - Writing for Multimedia, 3 credit hours
- CAS 230 - Public Relations Cases, 3 credit hours
- CAS 315 - Crisis Communication, 3 credit hours
- CAS 316 - Social Media Fundamentals, 3 credit hours
- CAS 360 - Intro to Visual Communication, 3 credit hours
- CAS 410 - Persuasive Campaigns, 3 credit hours
- CAS 415 - Studies in Public Relations, 3 credit hours
- CAS 476 - Capstone in Communication, 3 credit hours
- CAS 497X - Internship, Credit hours to be arranged (1 credit hour required)

## **Minors**

### **Audio Production and Sound Design Minor**

**Minimum Credits Required: 19**

Required Courses:

- PHY 110 - Physics of Music, 3 credit hours
- CAS 172 - Foundations of Media Production, 3 credit hours
- CAS 274 - Sound, Microphone Technique, and Recording, 2 credit hours
- CAS 374 - Audio Editing, Mixing, and Distribution, 2 credit hours

Concentration Courses:

Complete one of the following 9 credit hour concentrations outside the student's major.

Film-

- CAS 107 - Film and Culture, 3 credit hours
  - CAS 272 - Documentary and Field Production, 3 credit hours
- OR**
- CAS 273 - Narrative Film Production and Direction, 3 credit hours
  - CAS 474 - Audio for Film, 3 credit hours

Media Production/Radio-

- CAS 161 - Radio Production and Announcing, 3 credit hours
- CAS 261X - DJ Format Shift, 2 credit hours
- CAS 361 - Participation in WBWC, 1-3 credit hours (at least 3 credit hours required)

Theatre-

- THE 100 - Introduction To Theatre, 3 credit hours
- THE 110 - Fundamentals of Theatrical Design & Production, 3 credit hours
- THE 384 - Sound Design, 3 credit hours

## Communication Studies Minor

The minor in Communication Studies focuses on application and knowledge of communication theories, skills, and practices.

**Minimum Credits Required: 18**

Required Courses:

- CAS 112 - Presentational Speaking, 3 credit hours
- CAS 126 - Introduction to Communication, 3 credit hours
- CAS 202 - Relationships and Communication, 3 credit hours
- CAS 285D - Introduction to Intercultural Communication, 3 credit hours
- CAS 313 - Organizational & Group Leadership, 3 credit hours

Complete one of the following:

- CAS 413 - Argumentation and Debate, 3 credit hours
- CAS 425 - Conflict & Communication, 3 credit hours

## **Convergent Journalism Minor**

**Minimum Credits Required: 18**

Required Courses:

- CAS 115 - Media Literacy, 3 credit hours
- CAS 232 - Workshop in Journalism, 3 credit hours
- CAS 251 - Participation in The Exponent, 1-3 credit hours (3 credit hours required)
- CAS 316 - Social Media Fundamentals, 3 credit hours
- CAS 428 - Media Law and Ethics, 3 credit hours

Choose One Of The Following:

- CAS 172 - Foundations of Media Production, 3 credit hours
- CAS 226 - Writing for Multimedia, 3 credit hours
- CAS 360 - Intro to Visual Communication, 3 credit hours

## **Film Studies Minor**

The interdisciplinary film minor encourages students to explore the relationship between film as an expressive art, and the interaction between films and the culture of which they are a part. The film minor emphasizes the critical and theoretical coursework of the major, rather than production coursework.

**Minimum Credits Required: 18**

Required Courses:

- CAS 107 - Film and Culture, 3 credit hours
- CAS 222 - Film History, 3 credit hours
- CAS 322 - Film Themes and Genres, 3 credit hours
- CAS 370 - Screenwriting, 3 credit hours
- CAS 432 - Advanced Studies in Film Theory and Criticism, 3 credit hours
- CAS 422 - Film Makers, 3 credit hours

## **Media Production Minor**

**Minimum Credits Required: 19**

Required Courses:

- CAS 115 - Media Literacy, 3 credit hours
- CAS 172 - Foundations of Media Production, 3 credit hours
- CAS 428 - Media Law and Ethics, 3 credit hours

Six Credits From The Following:

- CAS 272 - Documentary and Field Production, 3 credit hours
- CAS 273 - Narrative Film Production and Direction, 3 credit hours
- CAS 274 - Sound, Microphone Technique, and Recording, 2 credit hours
- CAS 374 - Audio Editing, Mixing, and Distribution, 2 credit hours

Four Credits From The Following:

- CAS 251 - Participation in The Exponent, 1-3 credit hours
- CAS 261X - DJ Format Shift, 2 credit hours
- CAS 271 - Participation in BW-TV, 1-3 credit hours

## **Public Relations Minor**

**Minimum Credits Required: 18**

Required Courses:

- CAS 120 - Strategies in Public Relations, 3 credit hours
- CAS 230 - Public Relations Cases, 3 credit hours
- CAS 316 - Social Media Fundamentals, 3 credit hours
- CAS 360 - Intro to Visual Communication, 3 credit hours
- CAS 410 - Persuasive Campaigns, 3 credit hours

Complete one of the following:

- CAS 415 - Studies in Public Relations, 3 credit hours
- CAS 476 - Capstone in Communication, 3 credit hours

## **Social Media Production Minor**

**Minimum Credits Required: 21**

Required Courses:

- CAS 172 - Foundations of Media Production, 3 credit hours
- CAS 226 - Writing for Multimedia, 3 credit hours
- CAS 316 - Social Media Fundamentals, 3 credit hours
- CAS 360 - Intro to Visual Communication, 3 credit hours
- CAS 428 - Media Law and Ethics, 3 credit hours
- MKT 230 - Introduction to Marketing, 3 credit hours
- MKT 337 - Digital Marketing, 3 credit hours

# Communication Sciences & Disorders

## Majors

### Communication Sciences & Disorders, B.S.

The Communication Sciences & Disorders major, a pre-professional program, offers students experience in working with people who have communication problems. In addition, the course work prepares students for entrance into graduate programs in Speech-Language Pathology, Audiology, Speech and/or Hearing Science, or a career in an allied health field.

A five-year integrated B.S./M.S. degree is available for students on an application basis. This program allows students to easily transition from the B.S. to the M.S. program at BW by modifying some requirements. Interested students can contact the department of communication sciences and disorders for more information.

**Minimum Credits Required: 49**

Required Courses:

GPA in major of 3.2 or above or consent of Program Director

- CSD 105D - Introduction to Communication Disorders, 3 credit hours
- CSD 220 - Speech and Language Development, 3 credit hours
- CSD 225 - Phonetics and Phonology, 3 credit hours
- CSD 235 - Clinical Ethics & Management, 2 credit hours
- CSD 236 - Speech & Language Observations, 1 credit hour
- CSD 321 - Neurology, Anatomy & Physiology of the Speech & Hearing Mechanism, 3 credit hours
- CSD 325 - Articulation and Phonology Disorders, 3 credit hours
- CSD 335X - Clinical Practice- Individual, 1 credit hour
- CSD 336X - Clinical Practice II, 1 credit hour
- CSD 340 - Language Disorders, 3 credit hours
- CSD 351 - Speech and Hearing Science, 3 credit hours
- CSD 420 - Audiology, 3 credit hours
- CSD 421 - Aural Rehabilitation, 3 credit hours
- CSD 435X - Clinical Practice- Group, 1 credit hour
- CSD 440 - Research Methods in Communication Disorders, 3 credit hours
- CSD 477 - Capstone in Communication Disorders, 3 credit hours
- PSY 100 - Principles of Psychological Science, 3 credit hours
- PSY 205 - Developmental Psychology, 3 credit hours
- PSY 278 - Elements of Statistics, 4 credit hours

Recommended/Suggested elective courses for Graduate School

- CAS 285D - Introduction to Intercultural Communication, 3 credit hours
- CSD 341 - Voice and Fluency Disorders, 3 credit hours
- CSD 459X - Faculty-Student Collaboration, Credit hours to be arranged
- ASW 206 - Medical Terminology, 2 credit hours
- SOC 281 - Data Analysis Using PASW, 4 credit hours

## Minors

### Communication Sciences & Disorders Minor

A total of 18 credits are required for the Communication Sciences & Disorders minor, courses include:

#### Required Courses

- CSD 105D - Introduction to Communication Disorders, 3 credit hours
- CSD 220 - Speech and Language Development, 3 credit hours
- CSD 225 - Phonetics and Phonology, 3 credit hours

Take 9 credits from the following list of courses:

- CSD 321 - Neurology, Anatomy & Physiology of the Speech & Hearing Mechanism, 3 credit hours
- CSD 325 - Articulation and Phonology Disorders, 3 credit hours
- CSD 340 - Language Disorders, 3 credit hours
- CSD 341 - Voice and Fluency Disorders, 3 credit hours
- CSD 351 - Speech and Hearing Science, 3 credit hours
- CSD 420 - Audiology, 3 credit hours
- CSD 440 - Research Methods in Communication Disorders, 3 credit hours

## Computer Science

The Department of Computer Science offers three majors. The **Computer Science major** prepares graduates to enter positions as software specialists in industry or commerce, or to enter graduate programs in computer science or related fields. The **Software Engineering major** equips students to employ sound engineering principles in the design, development, testing, and maintenance of large, complex software systems. The **Cybersecurity Analyst major** is designed to prepare graduates for positions such as business analyst, requirements engineer, and network engineer or administrator.

Five year programs are offered to specially qualified students and may combine one of the computing majors with a minor in Business Administration and a Masters of Business Administration degree. These programs are designed to prepare graduates for positions in computer and information systems management that require strong technical backgrounds, good communication skills, and an in-depth understanding of the business world. Applicants to the program must have a 3.0 minimum GPA. Those applicants with a cumulative GPA less than a 3.4 will be expected to take the GMAT exam prior to applying to the program. Interested students are strongly encouraged to contact the director of the MBA program in the spring semester of their sophomore year.

A student majoring or double majoring in Computer Science, Software Engineering, or Computer Network and Security Analyst may not use a minor in Computer Science, Computer Information Systems, Computer Programming, Network Administration, Web Programming, or Software Engineering for their minor required by the University core requirements. While completion of one of these minors will appear on the student's transcript if declared, the student will need to complete a minor other than these to meet the minor requirement of the core.

## Interested in Web Design?

Please see the Digital Media and Design: Graphic Design, B.A. or Digital Media and Design: Interactive Design, B.A. major.

## Computer Science Advanced Placement Equivalencies

A student scoring 3 or better on an AP Computer Science examination will be awarded credit as follows:

Exam	Score	Credit Hours	Course Equivalent
A	3, 4, 5	3	CSC 210

## Majors

### Computer Science, B.S.

Core science courses must be selected from those intended for scientists and engineers. The list of eligible courses is provided by the academic advisor.

Please note, Computer Science Majors must select a minor outside of the department.

**Minimum Credits Required: 61**

Required Computer Science Courses: 44 credits

- CSC 160 - Introduction to Computing, 3 credit hours
- CSC 210 - Computer Science I: Programs and Applications, 3 credit hours
- CSC 240 - Object-Oriented Programming, 3 credit hours
- CSC 245 - Data Structures, 3 credit hours
- CSC 280 - Data Systems, 3 credit hours

- CSC 291 - Computer Science Research Methods, 2 credit hours
- CSC 320 - Computer Architecture & Organization, 3 credit hours
- CSC 400 - Operating Systems, 3 credit hours
- CSC 430 - Algorithm Design and Analysis, 3 credit hours
  
- CSC 411 - Comparative Programming Languages, 3 credit hours
- OR**
- CSC 420 - Formal Languages, 3 credit hours
  
- CSC 497X - Senior Internship, 1 or 3 credit hours (3 credits hours required)
- OR**
- CSC 494 - Computer Science Research Capstone, 1-2 credit hours (3 credit hours required)

Choose four CSC electives: (12 credits & at least 6 credits from 300-400 level)

- CSC 235 - System Requirements and Testing, 3 credit hours
- CSC 253 - Seminar in Computing for the Community I, 3 credit hours
- CSC 270 - Data Communication Concepts, 3 credit hours
- CSC 275 - Info Systems Security, Privacy, & Ethics, 3 credit hours
- CSC 300 or 400 level elective courses (other than those required in the major)

Required Mathematics Courses: 17 credits

- MTH 161 - Discrete Structures for Computing, 3 credit hours
- MTH 141 - Calculus I, 4 credit hours
- MTH 142 - Calculus II, 4 credit hours
- MTH 235 - Probability & Statistics for Scientists & Engineers, 3 credit hours
- One MTH course numbered above 201, 3 or more credit hours

## **Cybersecurity Analyst, B.S.**

Please note, Cybersecurity Analyst Majors must select a minor outside of the department.

**Minimum Credits Required: 48**

Required Communication Studies Course: 3 credits

- CAS 112 - Presentational Speaking, 3 credit hours

Required Mathematics Courses: 6 credits

- MTH 105 - Introduction to Probability and Statistics, 3 credit hours
- MTH 160 - Introduction to Discrete Structures, 3 credit hours **OR**
- MTH 161 - Discrete Structures for Computing, 3 credit hours

Required Business Course: 3 credits

- BUS 358 - Business Communications, 3 credit hours



Required Computer Science: 36 credits

- CSC 160 - Introduction to Computing, 3 credit hours
  - CSC 210 - Computer Science I: Programs and Applications, 3 credit hours
  - CSC 270 - Data Communication Concepts, 3 credit hours
  - CSC 275 - Info Systems Security, Privacy, & Ethics, 3 credit hours
  - CSC 280 - Data Systems, 3 credit hours
  - CSC 285 - Network Diagnostics and Troubleshooting, 3 credit hours
  - CSC 290 - Computer Networks, 3 credit hours
  - CSC 315 - Network Administration, 3 credit hours
  - CSC 360 - Information Systems Project Management, 3 credit hours
  - CSC 410 - Advanced Computer Networks, 3 credit hours
  - CSC 415 - Penetration Testing and Defense, 3 credit hours
  
  - CSC 497X - Senior Internship, 1 or 3 credit hours (3 credit hours required)
- OR**
- CSC 471 - Senior Project, 3 credit hours

## **Software Engineering, B.S.**

Please note, Software Engineering Majors must select a minor outside of the department.

**Minimum Credits Required: 79**

Required Mathematics Courses: 14 credits

- MTH 141 - Calculus I, 4 credit hours
- MTH 142 - Calculus II, 4 credit hours
- MTH 161 - Discrete Structures for Computing, 3 credit hours
- MTH 235 - Probability & Statistics for Scientists & Engineers, 3 credit hours

Required Computer Science Courses: 45 credits

- CSC 160 - Introduction to Computing, 3 credit hours
- CSC 210 - Computer Science I: Programs and Applications, 3 credit hours
- CSC 235 - System Requirements and Testing, 3 credit hours
- CSC 240 - Object-Oriented Programming, 3 credit hours
- CSC 245 - Data Structures, 3 credit hours
- CSC 310 - Software Engineering I, 3 credit hours
- CSC 311 - Software Engineering II, 3 credit hours
- CSC 335 - Software Validate, Verification and Security, 3 credit hours
- CSC 360 - Information Systems Project Management, 3 credit hours
- CSC 380 - Database: Theory, Application, & Administration, 3 credit hours
- CSC 400 - Operating Systems, 3 credit hours
- CSC 430 - Algorithm Design and Analysis, 3 credit hours
- CSC 497X - Senior Internship, 1 or 3 credit hours (3 credit hours required)
- CSC 480 - Senior Software Engineering Project I, 3 credit hours
- CSC 481 - Senior Software Engineering Project II, 3 credit hours

Choose one of the following: 3 credits

- CSC 270 - Data Communication Concepts, 3 credit hours
- CSC 275 - Info Systems Security, Privacy, & Ethics, 3 credit hours
- CSC 320 - Computer Architecture & Organization, 3 credit hours
- CSC 440 - Intelligent Systems, 3 credit hours

Additional Science/Math Requirements:

- A two semester sequence chosen from: (8-10 credits)
  - BIO 121 and BIO 122
  - CHM 111, CHM 112 and CHM 115
  - PHY 131/151 or PHY 145 and PHY 132/152 or PHY 146
- Additional electives from AST, BIO, CHM, GEO, MTH, PHY totaling 31 Science/Math credit hours (including Required Mathematics courses listed above)

## Minors

### Computer Information Systems Minor

The minor includes a minimum of 18 credits (plus prerequisites as indicated):

Required Computer Science Courses:

- CSC 160 - Introduction to Computing, 3 credit hours
- CSC 210 - Computer Science I: Programs and Applications, 3 credit hours
- CSC 235 - System Requirements and Testing, 3 credit hours
- CSC 270 - Data Communication Concepts, 3 credit hours
- CSC 280 - Data Systems, 3 credit hours
- CSC 340 - Data Analysis & Visualization, 3 credit hours

### Computer Programming Minor

The minor includes a minimum of 18 credits (plus prerequisites as indicated).

Required Courses:

- CSC 160 - Introduction to Computing, 3 credit hours
- CSC 210 - Computer Science I: Programs and Applications, 3 credit hours
- CSC 240 - Object-Oriented Programming, 3 credit hours
- CSC 250 - Multimedia Programming, 3 credit hours
- CSC 280 - Data Systems, 3 credit hours
- CSC 330 - Web & Mobile Programming, 3 credit hours

### Computer Science Minor

The minor includes a minimum of 27 credits (plus prerequisites as indicated):

Mathematics Requirements: 3 credits (plus prerequisites as indicated)

- MTH 161 - Discrete Structures for Computing, 3 credit hours

Required Computer Science Courses: 24 credits (plus prerequisites as indicated)

- CSC 160 - Introduction to Computing, 3 credit hours
  - CSC 210 - Computer Science I: Programs and Applications, 3 credit hours
  - CSC 235 - System Requirements and Testing, 3 credit hours
  - CSC 240 - Object-Oriented Programming, 3 credit hours
  - CSC 245 - Data Structures, 3 credit hours
  
  - CSC 280 - Data Systems, 3 credit hours
- OR**
- CSC 380 - Database: Theory, Application, & Administration, 3 credit hours

Two of the following:

- CSC 310 - Software Engineering I, 3 credit hours
- CSC 320 - Computer Architecture & Organization, 3 credit hours
- CSC 400 - Operating Systems, 3 credit hours
- CSC 430 - Algorithm Design and Analysis, 3 credit hours
- CSC 440 - Intelligent Systems, 3 credit hours

## **Network Administration Minor**

The minor includes a minimum of 18 credits (plus prerequisites as indicated).

Required Courses:

- CSC 160 - Introduction to Computing, 3 credit hours
- CSC 210 - Computer Science I: Programs and Applications, 3 credit hours
- CSC 270 - Data Communication Concepts, 3 credit hours
- CSC 285 - Network Diagnostics and Troubleshooting, 3 credit hours
- CSC 290 - Computer Networks, 3 credit hours
- CSC 315 - Network Administration, 3 credit hours

## **Software Engineering Minor**

The minor includes a minimum of 21 credits (plus prerequisites as indicated).

Required Courses:

- MTH 161 - Discrete Structures for Computing, 3 credit hours
- CSC 160 - Introduction to Computing, 3 credit hours
- CSC 210 - Computer Science I: Programs and Applications, 3 credit hours
- CSC 235 - System Requirements and Testing, 3 credit hours
- CSC 240 - Object-Oriented Programming, 3 credit hours
- CSC 245 - Data Structures, 3 credit hours
- CSC 310 - Software Engineering I, 3 credit hours

## **Web Programming Minor**

The minor includes a minimum of 18 credits (plus prerequisites as indicated).

\*Digital Media majors may not declare the Web Programming minor.

### Required Courses:

- CSC 135 - Introduction to Web Site Development, 3 credit hours
- CSC 160 - Introduction to Computing, 3 credit hours
- CSC 211 - Introduction to Programming in Python, 3 credit hours
- CSC 250 - Multimedia Programming, 3 credit hours
- ART 225 - Introduction to Photoshop, 2 credit hours
- ART 240 - Graphic Design I, 2 credit hours
- ART 241 - Graphic Design II, 2 credit hours

# Criminal Justice

The interdisciplinary major in Criminal Justice, offered by the School of Social Sciences, is designed to provide students with a series of academic courses and related experiences appropriate for career interests in the following areas: probation and parole, law enforcement, juvenile justice, courts and corrections. The sequence of courses will enable students to understand the psychological, sociological, and political factors underlying criminal, delinquent, asocial and anti-social behavior. A seminar at the senior level provides an integration of material regarding issues within the major areas of the criminal justice system.

The criminal justice major is also intended to provide students with academic preparation for graduate school in criminal justice or law and/or help prepare the student academically to become a practitioner in the criminal justice system. In order to "bridge" the transition from University to the world of work within the criminal justice system, students are strongly encouraged (optional) to complete a field experience (internship) in an area pertaining to their career aspirations. There are a variety of internship opportunities in the areas of local law enforcement, federal law enforcement, juvenile justice, probation and courts/law. Students should be aware that opportunities may vary from year to year; also, some internships are competitive in nature and require substantial lead time in terms of the application process.

The program in criminal justice is designed as both a four-year major and as an affiliated program for students transferring from community colleges. Students transferring to Baldwin Wallace after completion of the A.A.S. (Associates of Applied Science) degree in law enforcement, criminal justice or police science will be awarded up to 62 semester hours of transfer credit as Criminal Justice majors if the A.A.S. degree is from Cuyahoga Community College or Lakeland Community College. A.A.S. degrees from other institutions will be evaluated on a case-by-case basis.

*Direct all questions related to the major in Criminal Justice to Dr. Louis San Marco, Director of the Criminal Justice Program, in the Department of Sociology.*

## Majors

### Criminal Justice, B.A.

**Minimum Credits Required: 48**

Prerequisites:

- PSY 100 - Principles of Psychological Science, 3 credit hours
- POL 101D - U.S. Government and Politics, 3 credit hours
- SOC 100D - Principles of Sociology, 3 credit hours

Note:

These courses are to be completed before taking other required courses in that department as indicated below.

Criminal Justice core: 24-25 hours required

- CRJ 165 - Overview of the Criminal Justice System, 3 credit hours
- POL 207 - Introduction to Law, 3 credit hours
- CRJ 223 - Juvenile Delinquency & the Juvenile Justice System, 3 credit hours
- CRJ 265 - Policing in Society, 3 credit hours
- SOC 313 - Criminology, 3 credit hours
- CRJ 361 - Corrections, 3 credit hours
- CRJ 464 - Integrative Seminar in Criminal Justice, 3 credit hours

Select one of the following:

- ACC 378 - Principles of Fraud Examination, 3 credit hours
- CRJ 255 - Forensic Science and Criminalistics, 4 credit hours
- CRJ 256 - Criminal Investigations, 3 credit hours
- SOC 320X - Victimology, 4 credit hours

Psychology: 9-11 hours required

- PSY 100 - Principles of Psychological Science, 3 credit hours

Select two of the following:

- PSY 205 - Developmental Psychology, 3 credit hours
- PSY 302 - Psychological Disorders, 4 credit hours
- PSY 316D - Child Psychopathology, 3 credit hours
- PSY 325 - Adolescent Development, 4 credit hours
- PSY 339 - Social Psychology, 4 credit hours

Political Science: 6 hours required

- POL 101D - U.S. Government and Politics, 3 credit hours

Select one of the following:

- CRJ 309 - Criminal Law and the Constitution, 3 credit hours
- INT 250I - Security, Technology and Threat Assessment, 3 credit hours
- POL 303 - Public Policy and Administration, 3 credit hours
- POL 304D - Urban Policy and Politics, 3 credit hours

Sociology: 6 hours required

- SOC 100D - Principles of Sociology, 3 credit hours

Select one of the following:

- SOC 206 - Crime in Organizations, 3 credit hours
- SOC 270I - Terrorism: Roots and Responses, 3 credit hours
- CRJ 277 - Race, Gender & Justice, 3 credit hours
- SOC 317 - Sociology of Deviance, 3 credit hours
- CRJ 345 - Crime in the Media, 3 credit hours
- SOC 365 - Perspectives on Violence, 3 credit hours

Statistics: 3-4 hours required

Select one of the following:

- MTH 105 - Introduction to Probability and Statistics, 3 credit hours

- MTH 279 - Basic Statistical Methods, 3 credit hours
- POL 240 - Research Design and Methods, 4 credit hours
- PSY 278 - Elements of Statistics, 4 credit hours

**Important Note Regarding D grades in the CRJ interdisciplinary major:**

Students should also be aware that they cannot have more than 4 credit hours of "D" in the CRJ interdisciplinary major (including prerequisites PSY 100, POL 101D, SOC 100D). If you must repeat a course under those circumstances, you will not be given duplicate credit for the same course. (**Note:** PSY 278 and MTH 279 are equivalent courses.) If a student has more than one "D" in the CRJ interdisciplinary major, he/she should consider whether to remain in the CRJ major.

Strongly recommended courses for students planning to go on to graduate school or enter the area of Criminal Justice Planning:

- SOC 280 - Research Methods, 4 credit hours crosslisted as
- PSY 380 - Research Methods, 4 credit hours
- PSY 381X - Thesis in Psychology, 3 credit hours

CRJ Elective for all CRJ majors:

- CRJ 295 - Independent Study, 1-4 credit hours
- CRJ 395 - Independent Study, 1-4 credit hours
- CRJ 495 - Independent Study, 1-4 credit hours  
(must have 3.0 GPA or above)

Strongly recommended for all CRJ majors:

- CRJ 298X - Internship, Credit hours to be arranged
- CRJ 398X - Internship, Credit hours to be arranged
- CRJ 498X - Internship, Credit hours to be arranged

## Minors

### Criminal Justice Minor

**Minimum Credits Required: 18**

Required courses:

- CRJ 165 - Overview of the Criminal Justice System, 3 credit hours
- CRJ 223 - Juvenile Delinquency & the Juvenile Justice System, 3 credit hours
- CRJ 265 - Policing in Society, 3 credit hours
- SOC 313 - Criminology, 3 credit hours
- CRJ 361 - Corrections, 3 credit hours

Select one of the following courses:

- CRJ 309 - Criminal Law and the Constitution, 3 credit hours

- PSY 302 - Psychological Disorders, 4 credit hours
- SOC 206 - Crime in Organizations, 3 credit hours
- SOC 270I - Terrorism: Roots and Responses, 3 credit hours
- CRJ 464 - Integrative Seminar in Criminal Justice, 3 credit hours (with permission of the CRJ program director)

## Forensic Science Minor

**Minimum Credits Required: 34**

Required courses:

- BIO 121 - Principles of Biology I, 4 credit hours
  - BIO 122 - Principles of Biology II, 4 credit hours
  - CHM 111 - General Chemistry I, 4 credit hours
  - CHM 112 - General Chemistry II, 3 credit hours
  - CHM 115 - General Chemistry Lab, 1 credit hour
  - CRJ 165 - Overview of the Criminal Justice System, 3 credit hours
  - CRJ 255 - Forensic Science and Criminalistics, 4 credit hours
  - CRJ 256 - Criminal Investigations, 3 credit hours
- 
- POL 207 - Introduction to Law, 3 credit hours
- OR**
- CRJ 309 - Criminal Law and the Constitution, 3 credit hours

Select two of the following courses:

- MTH 105 - Introduction to Probability and Statistics, 3 credit hours
- OR**
- MTH 279 - Basic Statistical Methods, 3 credit hours
- OR**
- PSY 278 - Elements of Statistics, 4 credit hours
- 
- PHY 145 - Applied College Physics I, 5 credit hours
- OR**
- PHY 131 - Physics for Scientists and Engineers I, 4 credit hours and
  - PHY 151 - Introductory Physics Lab I, 1 credit hour
- 
- PHY 146 - Applied College Physics II, 5 credit hours
- OR**
- PHY 132 - Physics for Scientists and Engineers II, 4 credit hours and
  - PHY 152 - Introductory Physics Lab II, 1 credit hour
- 
- PSY 100 - Principles of Psychological Science, 3 credit hours
  - PSY 302 - Psychological Disorders, 4 credit hours
  - SOC 100D - Principles of Sociology, 3 credit hours
  - SOC 313 - Criminology, 3 credit hours
  - POL 207 - Introduction to Law, 3 credit hours
  - BIO 203 - Human Anatomy and Physiology I, 4 credit hours
  - BIO 211 - Genetics, 4 credit hours



- BIO 330 - Clinical Gross Anatomy, 4 credit hours
- BIO 334 - Invertebrate Natural History, 4 credit hours
- BIO 336 - Molecular Biology, 4 credit hours
- BIO 405 - Advanced Topics In Biology, 1-4 credit hours (when offered as) Facial Anatomy and Reconstruction
- CHM 221 - Quantitative Analysis, 3 credit hours
  
- CHM 311 - Biochemistry, 3 credit hours
- AND**
- CHM 315 - Biochemistry Laboratory, 1 credit hour
  
- CHM 321 - Instrumental Analysis, 3 credit hours
- AND**
- CHM 325 - Instrumental Analysis Laboratory, 1 credit hour
  
- ART 220 - Digital Photography, 2 credit hours
- ACC 378 - Principles of Fraud Examination, 3 credit hours
- GEO 111 - The Dynamic Earth, 4 credit hours

# Data Science & Analytics

## Majors

### Data Analytics, B.A.

Minimum Credits Required: 54

Required Courses:

- CSC 210 - Computer Science I: Programs and Applications, 3 credit hours
- OR**
- CSC 212 - Intro to Programming for Scientists & Engineers, 3 credit hours
  - CSC 280 - Data Systems, 3 credit hours
  - CSC 340 - Data Analysis & Visualization, 3 credit hours
  - MTH 141 - Calculus I, 4 credit hours
  - MTH 235 - Probability & Statistics for Scientists & Engineers, 3 credit hours
  - DSA 101 - Introduction to Data Science, 3 credit hours
  - DSA 201 - Data Colloquium, 1 credit hour (should be taken twice)
  - DSA 301 - Data Practicum, 3 credit hours
  - DSA 401 - Applied Machine Learning, 3 credit hours
  - DSA 494 - Data Science Senior Capstone Project, 3 credit hours
  - DSA 497X - Data Science and Analytics Internship, 3 credit hours

Additional Requirements:

- BUS 358 - Business Communications, 3 credit hours
- BUS 365 - Business Analytics, 3 credit hours
- CAS 263 - Seminar, 1-4 credit hours (3 credits required)

Concentration: (12-18 credit hours)

Complete at least one Data Science & Analytics Concentration.

### Data Science, B.S.

Minimum Credits Required: 64

Required Courses:

- CSC 210 - Computer Science I: Programs and Applications, 3 credit hours
- OR**
- CSC 212 - Intro to Programming for Scientists & Engineers, 3 credit hours
  - CSC 280 - Data Systems, 3 credit hours
  - CSC 340 - Data Analysis & Visualization, 3 credit hours
  - MTH 141 - Calculus I, 4 credit hours
  - MTH 235 - Probability & Statistics for Scientists & Engineers, 3 credit hours

- DSA 101 - Introduction to Data Science, 3 credit hours
- DSA 201 - Data Colloquium, 1 credit hour (should be taken twice)
- DSA 301 - Data Practicum, 3 credit hours
- DSA 401 - Applied Machine Learning, 3 credit hours
- DSA 494 - Data Science Senior Capstone Project, 3 credit hours
- DSA 497X - Data Science and Analytics Internship, 3 credit hours

Additional Requirements:

- CSC 240 - Object-Oriented Programming, 3 credit hours
- CSC 245 - Data Structures, 3 credit hours
- CSC 440 - Intelligent Systems, 3 credit hours
- MTH 142 - Calculus II, 4 credit hours
- MTH 161 - Discrete Structures for Computing, 3 credit hours
- MTH 211 - Linear Algebra, 3 credit hours

Concentration: (12-18 credit hours)

Complete at least one Data Science & Analytics Concentration.

## Concentration

### Data Science & Analytics Concentrations

The Data Science, B.S. and Data Analytics, B.A. programs require a concentration, or a collection of courses (at least 12 credits) that begins to develop expertise in a subject area and permits a student to answer a meaningful data-oriented question in that area.

Art History Concentration: (18 credit hours)

- ART 103D - Art of Our Time, 3 credit hours
- ART 231I - Art History: from Caves to Cathedrals, 3 credit hours
- ART 232I - Art History: from Renaissance to Modernism, 3 credit hours
- ART 234 - Survey of American Art from Colonial Times to 1945, 3 credit hours
- ART 235I - Topics in Non-Western Art, 3 credit hours
- ART 236I - Modern Art, 1850-1950, 3 credit hours

Analytics in the Social Sciences Concentration: (12 credit hours)

- MTH 279 - Basic Statistical Methods, 3 credit hours
- ECN 320 - Research Methods and Design, 2 credit hours
- ECN 321 - Data Analysis Lab, 1 credit hour
- ECN 379 - Intermediate Statistical Methods, 3 credit hours
- ECN 464 - Research Seminar, 3 credit hours

Neuroscience Concentration: (13 credit hours)

- NRO 110 - Introduction to Brain & Behavior, 3 credit hours
- NRO 200 - Introduction to Cell and Molecular Neuroscience, 3 credit hours
- NRO 210 - Neuroanatomy, 4 credit hours

- NRO 280 - Neuroscience Research Methods and Techniques, 3 credit hours

History Concentration: (12 credit hours)

Select four of the following:

- HIS 200 - Quantitative Research Methods for Humanities, 3 credit hours
- HIS 227I - History of Africa, 3 credit hours
- HIS 250D - African-American History, 3 credit hours
- HIS 270I - Latin America, 3 credit hours
- HIS 321 - Classical Antiquity to the Fall of Rome, 3 credit hours
- HIS 322 - Medieval Europe to the Black Death, 3 credit hours
- HIS 323 - Enlightenment, French Revolution, and Napoleon, 3 credit hours
- HIS 349I - Modern Britain, 3 credit hours
- HIS 355 - Modern America: 1920-1945, 3 credit hours
- HIS 356 - Recent America: 1945-present, 3 credit hours
- HIS 381I - The Arab-Israeli Conflicts, 4 credit hours
- HIS 389I - The Modern Middle East, 4 credit hours
- PBH 200X - Introduction to Archives and Museums, 3 credit hours
- PBH 300X - Community Research & Oral History, 3 credit hours

Biology/Ecology Concentration: (12 credit hours)

- BIO 121 - Principles of Biology I, 4 credit hours
- BIO 122 - Principles of Biology II, 4 credit hours
- BIO 313 - Ecology, 4 credit hours

Biology/Bioinformatics Concentration: (15 credit hours)

- BIO 121 - Principles of Biology I, 4 credit hours
- BIO 122 - Principles of Biology II, 4 credit hours
- BIO 211 - Genetics, 4 credit hours
- BIO 335 - Bioinformatics and Genomics, 3 credit hours

Geology Concentration: (12 credit hours)

- GEO 111 - The Dynamic Earth, 4 credit hours
- GEO 205 - Geographic Information Systems, 4 credit hours
- GEO 212 - Earth History, 4 credit hours

Marketing/International Business Concentration: (12 credit hours)

- MKT 230 - Introduction to Marketing, 3 credit hours

Select three of the following:

- MKT 336 - Brand Management, 3 credit hours
- MKT 337 - Digital Marketing, 3 credit hours
- MKT 338 - Consumer Behavior, 3 credit hours
- MKT 431 - Supply Chain Management, 3 credit hours
- MKT 432 - Marketing Research & Information Systems, 3 credit hours
- MKT 436I - International Marketing, 3 credit hours

Epidemiology and Health Analytics Concentration: (12 credit hours)

- PHT 285 - Fundamentals of GIS, 3 credit hours
- PHT 330 - Spatial Epidemiology, 3 credit hours
- PHT 410 - GIS Models in Public Health, 3 credit hours
- PHT 490 - Applied Epidemiologic Methods, 3 credit hours

World Languages Concentration: (12 credit hours)

- Four World Language courses at the 202 level (Intermediate II) and above.
- FRN/GER/SPN 250I or FRN/GER/SPN 260I recommended.
- HUM 285I, FRN/GER/SPN 240I, and SPN 265D may be included.

Digital Philosophy Concentration: (18 credit hours)

- PHL 205 - Topics in Ethics, 3-4 credit hours
- PHL 272I - International Ethics, 3 credit hours
- PHL 273(X) - Environmental Ethics, 3 credit hours
- PHL 274 - Bioethics, 3 credit hours
- PHL 314 - Contemporary Philosophy, 3-4 credit hours
- PHL 371 - Advanced Topics, 3-4 credit hours

Communication Competence Concentration: (12 credit hours)

- CAS 112 - Presentational Speaking, 3 credit hours
- CAS 115 - Media Literacy, 3 credit hours
- CAS 202 - Relationships and Communication, 3 credit hours
- CAS 316 - Social Media Fundamentals, 3 credit hours

Sports Medicine Concentration: (14 credit hours)

- ASW 202 - Principles of Sports Medicine, 3 credit hours
  - ASW 206 - Medical Terminology, 2 credit hours
  - ASW 211W - Nutrition for the Athlete, 3 credit hours
  - ASW 300 - Evaluation Techniques in Sports Medicine, 3 credit hours
  
  - ASW 310 - Medical Topics in Sports Medicine, 3 credit hours
- OR**
- ASW 352 - Motor Learning & Developmental Movement, 3 credit hours

Health and Wellness Concentration: (12 credit hours)

- ASW 110W - Personal Wellness, 1 credit hour
- ASW 218W - Consumer Issues, 2 credit hours
- ASW 222W - Community Health, 3 credit hours
- ASW 270 - Principles of Health Promotion, 3 credit hours
- ASW 312W - Substance Abuse/Chemical Dependency, 3 credit hours

Finance Concentration: (12 credit hours)

- ACC 211 - Intro to Financial Accounting, 3 credit hours
- FNC 342 - Corporate & Organizational Finance, 3 credit hours

- FNC 445 - Principles of Investments, 3 credit hours

Select one of the following:

- FNC 446 - Intermediate Finance, 3 credit hours
- FNC 465 - Risk Management in Financial Institutions, 3 credit hours
- FNC 485 - Empirical Methods in Finance, 3 credit hours

Cognitive-Behavioral Concentration: (14 credit hours)

- PSY 100 - Principles of Psychological Science, 3 credit hours
- PSY 326 - Applied Behavior Analysis, 3 credit hours
- PSY 327 - Psychology of Learning, 4 credit hours
- PSY 328 - Cognitive Processes, 4 credit hours

Developmental Concentration: (13 credit hours)

- PSY 100 - Principles of Psychological Science, 3 credit hours
- PSY 205 - Developmental Psychology, 3 credit hours
- PSY 315 - Child Development, 4 credit hours
- PSY 325 - Adolescent Development, 4 credit hours

Social-Personality Concentration: (13 credit hours)

- PSY 100 - Principles of Psychological Science, 3 credit hours

Select three of the following:

- PSY 245D - Multicultural Psychology, 3-4 credit hours
- PSY 304 - Personality Psychology, 4 credit hours
- PSY 321 - Human Relations and Group Dynamics, 3 credit hours
- PSY 339 - Social Psychology, 4 credit hours

Mental Health Concentration: (13 credit hours)

- PSY 100 - Principles of Psychological Science, 3 credit hours

Select three of the following:

- PSY 302 - Psychological Disorders, 4 credit hours
- PSY 312D - Counseling Psychology, 4 credit hours
- PSY 316D - Child Psychopathology, 3 credit hours
- PSY 326 - Applied Behavior Analysis, 3 credit hours

International Conflict Concentration: (12 credit hours)

- POL 211I - International Politics, 3 credit hours

Select three of the following:

- INT 250I - Security, Technology and Threat Assessment, 3 credit hours
- POL 315 - International Organization, 3 credit hours
- POL 363I - Cybersecurity and Tech Frontiers, 3 credit hours

# Digital Media and Design

## Majors

### Digital Media and Design: Graphic Design, B.A.

Digital Media majors may not declare the Web Programming minor. Students may not major in both the Digital Media and Design: Graphic Design and the Digital Media and Design: Interactive Design concentrations.

**Minimum Credits Required: 49**

Required Courses:

- ART 103D - Art of Our Time, 3 credit hours
- ART 110 - Drawing I, 2 credit hours
- ART 115 - Two Dimensional Design, 2 credit hours
- ART 117 - Color Theory, 2 credit hours
- ART 220 - Digital Photography, 2 credit hours
- ART 225 - Introduction to Photoshop, 2 credit hours
- ART 226 - Three-dimensional Computer Imaging- Maya, 2 credit hours
- ART 240 - Graphic Design I, 2 credit hours
- ART 241 - Graphic Design II, 2 credit hours
- CAS 112 - Presentational Speaking, 3 credit hours
- CSC 135 - Introduction to Web Site Development, 3 credit hours
- CSC 160 - Introduction to Computing, 3 credit hours
  
- ART 111 - Drawing II, 2 credit hours
- OR**
- ART 210 - Intro to Illustration, 2 credit hours
- OR**
- ART 248 - Introduction to Printmaking, 2 credit hours
  
- CSC 210 - Computer Science I: Programs and Applications, 3 credit hours
- OR**
- CSC 211 - Introduction to Programming in Python, 3 credit hours
  
- CSC 235 - System Requirements and Testing, 3 credit hours
- OR**
- CSC 250 - Multimedia Programming, 3 credit hours

Graphic Design Concentration:

- ART 261 - Typography, 2 credit hours
- ART 320 - Special Topics in Graphic Design, 1-2 credit hours (2 credit hours required)
- ART 350 - Graphic Design III, 2 credit hours
- ART 362 - Logos & Symbols, 2 credit hours
- ART 452 - Portfolio Review, 2 credit hours
- ART 497X - Digital Media Design Internship, 3 credit hours

Digital Media and Design majors may complete a minor in Studio Art, with consultation from an Art Department advisor to avoid overlapping coursework.

## **Digital Media and Design: Interactive Design, B.A.**

Digital Media majors may not declare the Web Programming minor. Students may not major in both the Digital Media and Design: Graphic Design and the Digital Media and Design: Interactive Design concentrations.

**Minimum Credits Required: 54**

Required Courses:

- ART 103D - Art of Our Time, 3 credit hours
- ART 110 - Drawing I, 2 credit hours
- ART 115 - Two Dimensional Design, 2 credit hours
- ART 117 - Color Theory, 2 credit hours
- ART 220 - Digital Photography, 2 credit hours
- ART 225 - Introduction to Photoshop, 2 credit hours
- ART 226 - Three-dimensional Computer Imaging- Maya, 2 credit hours
- ART 240 - Graphic Design I, 2 credit hours
- ART 241 - Graphic Design II, 2 credit hours
- CAS 112 - Presentational Speaking, 3 credit hours
- CSC 135 - Introduction to Web Site Development, 3 credit hours
- CSC 160 - Introduction to Computing, 3 credit hours
  
- ART 111 - Drawing II, 2 credit hours
- OR**
- ART 210 - Intro to Illustration, 2 credit hours
- OR**
- ART 248 - Introduction to Printmaking, 2 credit hours
  
- CSC 210 - Computer Science I: Programs and Applications, 3 credit hours
- OR**
- CSC 211 - Introduction to Programming in Python, 3 credit hours
  
- CSC 235 - System Requirements and Testing, 3 credit hours
- OR**
- CSC 250 - Multimedia Programming, 3 credit hours

Interactive Design Concentration:

- MTH 160 - Introduction to Discrete Structures, 3 credit hours
- OR**
- MTH 161 - Discrete Structures for Computing, 3 credit hours
  
- CSC 240 - Object-Oriented Programming, 3 credit hours
- CSC 280 - Data Systems, 3 credit hours
- CSC 330 - Web & Mobile Programming, 3 credit hours
- CSC 340 - Data Analysis & Visualization, 3 credit hours
- CSC 471 - Senior Project, 3 credit hours



Digital Media and Design majors may complete a minor in Studio Art, with consultation from an Art Department advisor to avoid overlapping coursework.

## Minors

### Graphic Design Minor

**Minimum Credits Required: 20**

Required Courses:

- CAS 112 - Presentational Speaking, 3 credit hours
  - CSC 135 - Introduction to Web Site Development, 3 credit hours
  - ART 225 - Introduction to Photoshop, 2 credit hours
  - ART 240 - Graphic Design I, 2 credit hours
  - ART 241 - Graphic Design II, 2 credit hours
  - ART 261 - Typography, 2 credit hours
  - ART 362 - Logos & Symbols, 2 credit hours
  
  - ART 115 - Two Dimensional Design, 2 credit hours
- OR**
- ART 117 - Color Theory, 2 credit hours
- 
- ART 220 - Digital Photography, 2 credit hours
- OR**
- ART 226 - Three-dimensional Computer Imaging- Maya, 2 credit hours

## Diversity Studies

The minor in Diversity Studies has two purposes: to teach students about diversity of the United States, with a special focus on gender, and to help students find innovative ways of living within a pluralistic society. For the purposes of this minor, "diversity" encompasses cultural, racial, ethnic, religious, sexual, generational, and physical diversities within the United States. "Gender" is understood as a subset of diversity, and includes the physiology, sociology, or psychology of gender difference, sexual identities, gender stereotypes, and/or social, economic, cultural and historical structures relating to men's and women's status.

The minor is intended to complement students' majors. Its interdisciplinary design introduces students to the different ways the disciplines conceptualize, investigate, and analyze issues of diversity. The program of study will also aid students in refining and expressing their own ideas about diversity, and will encourage them to bring new perspectives to bear on their other areas of study. A capstone seminar will provide students with theoretical tools to integrate the material from their courses with their research or career choices in a sophisticated manner.

Direct all questions related to the Diversity Studies minor to the director of the Diversity Studies Minor: Dr. Deb Esty, in the Psychology Department.

## Minors

### Diversity Studies Minor

15 hours will be selected from a menu of existing courses (Gender Studies and Diversity Studies lists below), and students will also take a 3 credit capstone seminar (DST 463) that will provide students with theoretical tools to integrate the knowledge from the various classes they have taken into a final research project.

#### **Minimum Credits Required: 18**

Required Course: 3 credits

- DST 463 - Seminar in Diversity Studies, 3 credit hours

Elective courses:

Choose 15 credits from the following course listing. Choose at least one course from the Gender Studies course list and one from the Diversity Studies course list. To foster an interdisciplinary perspective on diversity, no more than two courses from a single department and no more than two Gender Studies courses may count toward the minor.

Gender Studies courses:

- CAS 328 - Special Topics in Communication and Ethics, 3 credit hours (*when taught as Gender Communications*)
- ENG 336(D) - Studies in Specific Genres, Themes or Modes, 3 credit hours Early American Women's Narratives
- ASW 263 - Special Topic Seminar, Credit hours to be arranged The History of Women in Sport
- ASW 263 - Special Topic Seminar, Credit hours to be arranged Gender, Health, and Equity
- MUC 363 - Seminar, Variable credit Gender and Sexuality in Music Scholarship
- POL 305 - Women, Politics, and Law, 3 credit hours
- PHL 207 - Topics in Philosophy, 3-4 credit hours Feminist Philosophy
- PHL 271D - Philosophy of Sexuality, 3-4 credit hours
- PSY 215D - Psychology of Women, 4 credit hours
- REL 293 - Topics in Religion, 2-4 credit hours Race, Religion & Gender in Movies
- REL 393 - Religion, the Body, and Gender, 4 credit hours
- SOC 290D - Gender Roles, 3 credit hours

- Seminar and Topics courses as deemed appropriate

Diversity Studies courses:

- MGT 409D - Behavioral Theories of Management, 3 credit hours
- CAS 277D - Media and Diversity, 3 credit hours
- CAS 278D - Diversity in America, 3 credit hours
- CAS 285D - Introduction to Intercultural Communication, 3 credit hours
- ECN 341 - US Economic History, 3 credit hours
- ECN 356D - Urban & Regional Economics, 3 credit hours
- HIS 170D - Diversity in America, 3 credit hours
- HIS 260(D) - Topics in History, 3-4 credit hours (*when taught as African-American History*)
- MUL 224D - History of Jazz, 2 credit hours
- POL 202 - Major Policy Issues, 1-3 credit hours
- POL 263 - Seminar in Political Science, 1-3 credit hours (*when topic is Civil Rights*)
- POL 304D - Urban Policy and Politics, 3 credit hours
- POL 333D - Contemporary Political Voices at the Margins, 3 credit hours
- PSY 245D - Multicultural Psychology, 3-4 credit hours
- REL 108I - Islam, 2 credit hours
- REL 110 - Judaism, 3 credit hours
- REL 115D - African-American Religious Experience, 3 credit hours
- REL 193(D) - Topics in Religion, 2-4 credit hours (*when taught as Dr. Martin Luther King Jr. or King and American Racism*)
- REL 218D - World Religions in the U.S., 3 credit hours
- REL 293 - Topics in Religion, 2-4 credit hours (*when taught as History of Gospel Music*)
- SOC 201D - Social Problems, 4 credit hours
- SOC 301D - Social Inequalities, 3 credit hours
- Seminars and Topics courses as deemed appropriate.

## Education

The College of Education & Health Sciences faculty, along with their Arts and Sciences and Conservatory faculty partners, are committed to the development of a strong performance-based program of teacher education. The teacher education curriculum is arranged conceptually around six teacher/ educator attributes: content knowledge, professional knowledge, pedagogical knowledge, diversity, educational technology, and professional dispositions. These six attributes comprise a conceptual framework for guiding the academic experiences of all students.

Teacher Education candidates participate in field experiences, seminars, classes, and assessment and remediation activities. Successful teacher education candidates learn the art of self-reflection and embody the characteristics of all BW students in becoming contributing, compassionate, competent educators.

Field Experiences are developmentally sequenced to allow students the opportunity to explore teaching as a career choice early in their University experience. Initial field experiences include observation, tutoring, and assisting teachers in their classrooms. Before their final year, candidates have not only practiced teaching in their BW classes, they have planned, conducted and evaluated their teaching in an actual school classroom. By completing a series of steps to qualify for each transition point in the program, students are allowed opportunities to develop the necessary skills, knowledge, and dispositions to move confidently into their final clinical experience, student teaching.

## Dispositions

The Baldwin Wallace University Department of Education recognizes that certain educator dispositions are essential to the integrity of the professional teaching license, and will therefore be assessed as the teacher candidates' progress through the program. Candidates must meet acceptable scores on these assessments to progress to the next level of EDU coursework. The assessment will examine a candidate's dispositions in regards to professionalism, collaboration, communication, positive attitude, value of diversity, self-regulated learning and social/emotional well-being. Educator dispositions will also be assessed during the Clinical Practice field experience.

The teacher preparation program at Baldwin Wallace University is accredited by the National Council for Accreditation of Teacher Education (Now CAEP, Council for the Accreditation of Educator Preparation). This accreditation includes both undergraduate and graduate programs leading to initial or advanced teacher licensure. The accreditation does not include individual education courses that the institution offers to P-12 educators for professional development, re-licensure, or other purposes. The Department of Education is approved for teacher education by the Ohio Department of Higher Education in the following undergraduate areas: dual primary & primary intervention specialist (prekindergarten-grade 5), middle childhood education (grades 4-9), mild/moderate educational needs (kindergarten-grade 12), adolescent young adult education (grades 7-12), for teaching regular academic subjects offered in middle and senior high schools, and multi-age education (prekindergarten-grade 12), for teaching subjects such as foreign language, music, and visual arts.

## Licensure

Baldwin Wallace University serves as the recommending agent for a license granted by the Ohio Department of Education (ODE). It does so only if the professional education coursework has been completed at Baldwin Wallace University. A Four Year Resident Educator License, will be issued by the State of Ohio to candidates who earn the baccalaureate degree, including the prescribed program of general and professional education courses and who successfully complete the State License Examinations. This license is required for entry into the Resident Educator Program and may be used for substitute teaching. Once the initial license has been issued, candidates do not need to apply for a separate license to substitute teach.

## Licensure in Other States

Qualification for a teaching license in Ohio is usually sufficient for an initial license/certificate in other states. A majority of states participate in a reciprocal agreement with the State of Ohio. If a teacher candidate is interested in teaching in another state, they should contact that state's Department of Education to see what specific state requirements (if any) must be fulfilled. In addition, accreditation by the Council for the Accreditation of Educator Preparation may facilitate the securing of a license/certificate outside of Ohio.

## **Placement and Job Opportunities**

The Center of Academic and Career Excellence assists students with self-assessment, career information and placement. Students are actively engaged in these areas through individual guidance and group programs. Education majors are encouraged to begin their resumes and portfolios as freshmen or sophomores and pursue internships working with youth or educational organizations throughout University. Career Services meets with students early and often during their University experience so they may realize their goal of employment upon graduation.

Information on teaching opportunities may be obtained from the Center of Academic and Career Excellence, rather than the School of Education. Students should study the Job Bulletins which are issued weekly by the Center of Academic and Career Excellence. Students can also find on-campus interview schedules and other teaching opportunities posted on various bulletin boards on campus.

Although the Center of Academic and Career Excellence offers valuable assistance to prospective teachers, final job placement resides with the candidate. Both the Department of Education and Center of Academic and Career Excellence are pleased to help; the initiative, however, must come from the candidate.

## **Field and Clinical Experiences**

The Department of Education believes that it must provide its teacher candidates with extensive opportunities to participate in meaningful classroom experiences where they are able to put theory and knowledge into action.

Field experiences, embedded within certain teacher education courses at Baldwin Wallace University, are designed to support the development of competent and professional teachers. In addition, field experiences are designed to give teacher candidates diverse experiences in demographic locations, cultures, racial and ethnic backgrounds, and diversity of students' abilities and needs.

The Department of Education field experiences are designed in a sequential and timely manner to provide teacher candidates with classroom opportunities to observe and to apply their knowledge of curriculum development and theoretical perspectives presented to them in their university classrooms.

This progression of field experiences culminates in the clinical practice (Student Teaching) experience. Clinical practice is designed to be the most valuable and intense learning experience prior to graduation. Teacher candidates are to refer to the *Clinical Practice Handbook* for all policies, experiences, requirements, and procedures related to student teaching.

Teacher candidates must successfully complete all requirements for each experience before progressing to the next field or clinical experience.

Transportation to and from any field-based experience, including clinical practice, is the responsibility of the student. Although the Department of Education will consider requests for placement within driving distance, the student must assume the responsibility both for such transportation and for adequate insurance protection.

## **Teacher Education Handbook**

Each fall the Department of Education prepares and posts to its BW/Department of Education portal a handbook entitled "Department of Education Handbook." All students entering preparation for teaching should refer to this handbook on a regular basis.

## **Admission and Continuation in the Teacher Education Program Leading to Licensure**

As the teacher candidate progresses through the program, assessment data are collected via major assessment components. The data are reviewed at key transition points within the program. The purpose of these transition points is to assess and monitor the candidates' competencies to ensure that candidates are proficient in the knowledge, skills, and dispositions appropriate for the developmental stage of the program. These transition points are points for

intervention or remediation if proficiencies are not met. The following identifies the transition points and competency criteria required to progress through the program.

### **Transition Points**

#### **Point One: Provisional Entry**

**Students may take the 100 level courses with the following conditions:**

#### **Admission to Baldwin Wallace University Criteria:**

- The criteria for admission are established by the University officers and published in the current University catalog.
- Obtain a "clear" Bureau of Criminal Identification and Investigation (BCII) report and a "clear" Federal Bureau of Investigation (FBI) report (valid for one year) before 100 level field observations.
- If transferring to BW from another institution, have a 2.800 cumulative GPA from previous institution(s) before being admitted to 100 level EDU courses.

**Point Two: Formal admission to the Teacher Education Program and advancement to 200\* level courses will be determined by the following:**

- Have a cumulative GPA of 2.800
- Have a GPA of 2.800 in EDU courses
- Have completed all prerequisite coursework with a grade of C or better in all 100 level EDU courses
- Have successfully completed the professional dispositional assessment
- Have completed all 100 level EDU field experiences successfully
- Submit "Good Moral Character" form to the Department of Education
- Obtain a "clear" criminal background check that includes both Ohio Bureau of Criminal Identification and Investigation (BCII) and Federal Bureau of Investigation (FBI) fingerprinting - completed within the last year
- Have a "negative" TB test on file in the Department of Education (required for Early Childhood majors only)
- If transferring to BW from another institution, have a 2.800 cumulative GPA from previous institution(s)

\*Some individual courses may have additional requirements for participation

#### **Point Three: Prior to Acceptance to Professional Sequence (Methods Courses)**

- Have a cumulative GPA of 2.800
- Have a GPA of 2.800 in EDU courses
- Meet all Teaching Field/Department GPA requirement(s)- see *Department of Education Handbook*
- Have a grade of C or better in all EDU courses
- Complete all Mathematics (MTH) core requirements (if MTH-111, MTH-112, or MTH-113 is required, a grade of C- or better is required for each course)
- Obtain a "clear" criminal background check that includes both Ohio Bureau of Criminal Identification and Investigation (BCII) and Federal Bureau of Investigation (FBI) fingerprinting - both completed within the last year
- Have a "negative" TB test on file in the School of Education
- Participate in Child Abuse Prevention Training before starting the field experience

#### **Point Four: Prior to Acceptance to Clinical Practice**

- Have a cumulative GPA of 2.800
- Have a GPA of 2.800 in EDU courses
- Meet all Teaching Field / Department GPA requirement(s)- see *Department of Education Handbook*

- Have a grade of C or better in all EDU courses, including required methods courses
- Complete all methods field experiences successfully
- Obtain a "clear" criminal background check that includes both Ohio Bureau of Criminal Identification and Investigation (BCII) and Federal Bureau of Investigation (FBI) fingerprinting - both completed within the last year
- Participate in Child Abuse Prevention Training before starting the field experience
- Register for the required Educator Licensure Exam(s)

**Point Five: Prior to Receiving School of Education Recommendation for the Four Year Resident Educator License (Signed by the Dean of the School of Education)**

- Submit an application for licensure to the Ohio Department of Education
- Have successfully completed all required coursework and, if appropriate, all degree requirements
- Have a cumulative GPA of 2.800
- Have a GPA of 2.800 in EDU courses
- Meet all Teaching Field / Department GPA requirement(s)- *see Department of Education Handbook*
- Obtain passing scores for required Ohio Assessment for Educator Licensure Exam(s)
- Have satisfactorily completed Clinical Practice field experience(s), including the dispositional assessment
- Obtain a "clear" criminal background check that includes both Ohio Bureau of Criminal Identification and Investigation (BCII) and Federal Bureau of Investigation (FBI) fingerprinting - completed within the last year

**Appeal Procedure**

Any student has the right to request, in writing, that the Teacher Education Committee review decisions made on the status of his/her candidacy. This committee makes recommendations to the Dean of the College of Education & Health Sciences whose decision is final.

**Review Procedure**

All teacher education candidates who do not qualify at any transition point in the program will be counseled by their academic advisor. The advisor may recommend the following types of remediation: additional course work, repeating a course, or other forms of student support. However, candidates are limited to two (2) cases of academic ineligibility, i.e., grades or grade point averages, during his/her enrollment in the teacher education program. If, after two occurrences, a candidate does not meet academic eligibility criteria for continuation in the program, he/she must consider an alternative to teacher licensure. In cases where continuation is in question, the advisor, current faculty members and the Dean may confer to determine a suggested course of action, including withdrawal from the program.

**Transfer Courses Policy and Term Limits for Program Completion**

The Department of Education has a six year time limit on Education (EDU) courses that are to be applied toward teacher licensure. This time limit applies to graduate and undergraduate candidates, and to transfer as well as current and returning students. If the EDU course work is required for licensure, it must have been completed within six years of the candidate's application for a teaching license. Exceptions to this rule may be made on a case by case basis if adequate course materials are available for review.

**Code of Professional Behavior**

A code of Professional Behavior is outlined for all candidates in the Student Handbook. The Code identifies professional dispositions expected of all pre-service and advanced candidates. Faculty may identify candidates who exhibit behaviors that are inconsistent with the Code and provide a written referral to the Dean. If a response is warranted, a team of appropriate faculty, field or administrative staff will meet with the candidate to determine an appropriate course of remedial action.

## Dual Primary & Primary Intervention Specialist (PK-5) Education Program

The Department of Education offers a major in primary & primary intervention specialist leading to licensure in grades PK through 5. Candidates majoring in the dual primary & primary intervention specialist program do not need to have an additional minor as required by the University. The candidate majoring in this program must meet the University requirements for a baccalaureate degree and must also satisfy the Ohio Department of Education and BW Department of Education requirements for licensure as a primary (PK-5) teacher and primary intervention specialist (PK-5). Dual primary & primary intervention specialist majors must complete the courses as listed on the current "Program Outline." Candidates who complete this major will earn a Bachelor of Science degree in Education (B.S. in Ed.).

## Middle Childhood Education Program

The Department of Education offers a major in middle childhood education leading to licensure in two teaching fields within grades 4 through 9. The candidate majoring in middle childhood education must meet the University requirements for a baccalaureate degree and must also satisfy the Ohio Department of Education and BW Department of Education requirements for licensure as a middle childhood education teacher. Courses included in this prescribed program cover general education/ Core requirements, professional education and curriculum content specific to their two teaching fields (which are University minors). Candidates who complete a major in Middle Childhood Education will earn a Bachelor of Science degree in Education (B.S. in Ed.).

Candidates must select **TWO** teaching field areas:

- Middle Childhood Language Arts and Reading
- Middle Childhood Mathematics
- Middle Childhood Science
- Middle Childhood Social Studies

## Middle Childhood Education Generalist Endorsement

The Department of Education offers a middle childhood generalist endorsement which leads to an endorsement for teaching additional content areas for grades 4 through 6. The endorsement may be added to a middle childhood license and adds additional content areas to the two areas of concentration. Candidates must complete the prescribed courses and pass the appropriate OAE content test to be eligible for the endorsement.

## Adolescent Young Adult/Multi-Age Program

The Department of Education offers majors in Adolescent Young Adult Education (grades 7-12) and in Multi-Age Education (grades PK-12) leading to licensure within the designated grade bands as well as a specific content area major of choice. The candidate majoring in adolescent and young adult education or multi-age education must meet the University requirements for a baccalaureate degree and must also satisfy the Ohio Department of Education and BW Department of Education requirements for licensure. Courses included in this prescribed program cover general education/core requirements, professional education and courses specific to the candidate's major.

**Programs offered in AYA include:**

Integrated Language Arts	Integrated Mathematics
Integrated Science	Integrated Social Studies
Life Science	Physical Sciences

**Programs offered in Multi-Age include:**

Foreign Language\*: French, German, Spanish  
Music\*\*  
Visual Arts

\*Foreign language candidates are required to complete a semester abroad



\*\*The Bachelor of Music Education Degree program at Baldwin Wallace is a comprehensive curriculum leading to teaching proficiency in both choral and instrumental music. The curriculum consists of a total of 136.5 semester credit hours, which requires a candidate to average 18 credit hours per semester (with the exception of the student teaching semester). Program tracking sheets are available in the Conservatory office or at <https://www.bw.edu/academics/undergraduate/music-education/>. For further information regarding the music education program, please contact the Chair of the Music Education Department.

## **Intervention Specialist (Kindergarten through grade twelve) Mild/Moderate Educational Needs Program**

The Department of Education offers a major in mild/moderate educational needs leading to licensure in grades PK through 12. Candidates majoring in mild/moderate educational needs must have an additional minor as required by the University. The candidate majoring in mild/moderate educational needs must meet the University requirements for a baccalaureate degree and must also satisfy the Ohio Department of Education and BW Department of Education requirements for licensure. Courses included in this prescribed program cover general education/core requirements, professional education and courses specific to the candidate's specialization. Candidates who complete a major in Mild/Moderate Educational Needs will earn a Bachelor of Science degree in Education (B.S. in Ed.).

Candidates may also complete additional coursework in order to obtain licensure in Mild/Moderate Educational Needs in addition to our Middle Childhood Education, Adolescent Young Adult Education, or Multi-Age Education licensure programs.

Successful completion of state-approved exams is required for each licensure area/endorsement and/or teaching field. Additional program requirements may be required based on program and/or license. Those seeking Mild/Moderate licensure are required to take the Ohio Assessment for Educators Reading K-12 licensure subtests.

## **English for the Second Language Learner (ESLL) Certificate**

The Baldwin Wallace University English for the Second Language Learner (ESLL) Certificate provides candidates in any program with the skills to help the non-English speaking student learn academic content in the PK-12 classroom is available to any EDU major & non-EDU major. For further information, please consult the university catalog. Note: This is not an Ohio teaching license or certificate but will appear on your transcript when completed.

## **Educator License Examination**

Baccalaureate and graduate level licensure candidates must successfully complete the required Ohio Assessment for Educator Licensure Exam(s) to be eligible for an initial license. The Ohio Assessment for Educators exams (OAE) assess the content-area and professional (pedagogical) knowledge of candidates who are seeking initial licensure in the state of Ohio.

## **Licensure Only Option**

The Licensure Only program is designed for candidates who have already earned a Bachelor's degree, but do not have a teaching license through the state of Ohio. Candidates who hold a bachelor's degree, but not a teaching license, may pursue a Four Year Resident Educator License through the Licensure Only program. The Licensure Only program combines undergraduate education and content-area courses leading to an initial Ohio teaching license in one of the following areas:

- Early Childhood Education (PK–5)
- Middle Childhood Education (4–9)
- Adolescent/Young-Adult Education (7–12)
- Multi-Age Education (K–12)
- Mild/Moderate Educational Needs (K–12)

Information is available in the Office of Admission and by contacting the Academic Advisor for the Licensure Only/License + Master's programs.

## License+Master's Program

The License+Master's program is an alternative licensure program for a student with a degree and seeking a license. Through a combination of graduate and undergraduate courses, the individual may complete a Master of Arts in Education degree, plus licensure in any of the following areas:

Early Childhood Education License with Reading Endorsement.  
Early Childhood Education License with Mild/Moderate Educational Needs License.  
Early Childhood Education License with Educational Technology Endorsement.

Middle Childhood Education with Reading Endorsement.  
Middle Childhood Education with Mild/Moderate Educational Needs License.  
Middle Childhood Education with Educational Technology Endorsement

Adolescent Young Adult Education/ Multi-Age License with Reading Endorsement  
Adolescent Young Adult Education/ Multi-Age License with Mild/Moderate Educational Needs License.  
Adolescent Young Adult Education/ Multi-Age License with Educational Technology Endorsement.

Model Program Sheets delineating the requirements for each License+Master's program may be obtained in the Department of Education.

Information on admission and program requirements are available in the Office of Admission and by contacting the Academic Advisor for the Licensure Only/License + Master's programs.

## Majors

### Education: Adolescent and Young Adult (7-12), B.S.Ed.

The Adolescent and Young Adult (AYA) Program provides the graduate with the degree to teach a single content area (mathematics, science, physical science, history, social studies, English, and biology) in all grades 7-12. (A student may choose as many content areas as they wish, though it would mean adding several semesters to the four-year AYA Program if more than one is chosen.) The student who chooses the AYA Major will also select a content area from the following choices: Integrated Mathematics, Integrated Science, Physical Science, History: Integrated Social Studies, Social Science: Integrated Social Studies, English: Integrated Language Arts, and Life Science. To complete the required courses for the AYA B.S.Ed., students will need to complete Education Required Courses and Required Content Area Courses, as shown below, as well as the BW Core.

#### Minimum Credits Required: 51

Required Courses:

- PSY 100 - Principles of Psychological Science, 3 credit hours
- PSY 325 - Adolescent Development, 4 credit hours
- EDU 101X - Introduction to Education and Teaching, 3 credit hours
- EDU 103DX - Education of Children with Special Needs, 2 credit hours
- EDU 114 - 21st Century Productivity Tools, 1 credit hour
- EDU 206 - Introduction to Adolescent Education, 3 credit hours
- EDU 211D - Exploring Education in a Diverse Society, 3 credit hours
- EDU 212 - Teaching and Learning, 3 credit hours

- EDU 214 - Media Resources for the Education Professional, 2 credit hours
- EDU 306 - Differentiated Instruction and Assessment, 3 credit hours
- EDU 312 - Classroom Learning Environment, 3 credit hours
- EDU 314 - 21st Century Classroom Technology, 1 credit hour
- EDU 358 - Reading in the Content Area: AYA, 3 credit hours
- Methods of Instruction, 3 credit hours (EDU 451, EDU 455, EDU 456, or EDU 457)
- EDU 475X - Internship in Adolescent/Young Adult and Multi-Age Education, 2 credit hours
- EDU 487 - Clinical Practice, Adolescent Young Adult, 9 credit hours
- EDU 492 - Senior Capstone Seminar, 3 credit hours

Required Content Area (Choose at least one):

Declarable Content Area Majors:

- History: Integrated Social Studies Teacher Education Major
- Social Science: Integrated Social Studies Teacher Education Major
- English: Integrated English Language Arts Major
- Life Science Major

Declarable Content Area Teaching Fields:

Integrated Mathematics: (meets the requirements to earn the Mathematics Minor)

- MTH 118 - Algebraic Thinking Through Modeling, 3 credit hours
- MTH 141 - Calculus I, 4 credit hours
- MTH 142 - Calculus II, 4 credit hours
- MTH 202 - Number Theory and Abstract Algebra for Teachers, 3 credit hours
- MTH 203 - History of Mathematics: Calculus Concepts for Teachers, 3 credit hours
- MTH 206 - Mathematical Logic and Proof Methods, 3 credit hours
- MTH 211 - Linear Algebra, 3 credit hours
- MTH 243 - Calculus III, 4 credit hours
- MTH 315 - College Geometry, 3 credit hours
- MTH 405 - Theory of Probability, 4 credit hours

Select one of the following Options:

*Option A=*

- MTH 105 - Introduction to Probability and Statistics, 3 credit hours

*Option B=*

- MTH 235 - Probability & Statistics for Scientists & Engineers, 3 credit hours **AND**
- One of the following Computer Science electives-
  - CSC 210 - Computer Science I: Programs and Applications, 3 credit hours
  - CSC 211 - Introduction to Programming in Python, 3 credit hours
  - CSC 212 - Intro to Programming for Scientists & Engineers, 3 credit hours

Integrated Science: (meets the requirements to earn the Biology Minor)

- AST 121 - Astronomy of the Solar System, 3 credit hours
- AST 170 - Observational Astronomy Lab, 1 credit hour
- BIO 121 - Principles of Biology I, 4 credit hours
- BIO 122 - Principles of Biology II, 4 credit hours

- BIO 211 - Genetics, 4 credit hours
- BIO 263 - Sophomore Biology Seminar, 1 credit hour
- BIO 313 - Ecology, 4 credit hours
- CHM 111 - General Chemistry I, 4 credit hours
- CHM 112 - General Chemistry II, 3 credit hours
- CHM 115 - General Chemistry Lab, 1 credit hour
- CHM 251 - Organic Chemistry I, 3 credit hours
- CHM 255 - Organic Chemistry I Laboratory, .5 credit hour
- GEO 111 - The Dynamic Earth, 4 credit hours
- PHY 131 - Physics for Scientists and Engineers I, 4 credit hours
- PHY 132 - Physics for Scientists and Engineers II, 4 credit hours
- PHY 151 - Introductory Physics Lab I, 1 credit hour
- PHY 152 - Introductory Physics Lab II, 1 credit hour

Physical Science:(meets the requirements to earn the Chemistry Minor)

- CHM 111 - General Chemistry I, 4 credit hours
- CHM 112 - General Chemistry II, 3 credit hours
- CHM 115 - General Chemistry Lab, 1 credit hour
- CHM 221 - Quantitative Analysis, 3 credit hours
- CHM 225 - Quantitative Analysis Laboratory, 1 credit hour
- CHM 251 - Organic Chemistry I, 3 credit hours
- CHM 252 - Organic Chemistry II, 3 credit hours
- CHM 255 - Organic Chemistry I Laboratory, .5 credit hour
- CHM 256 - Organic Chemistry II Laboratory, 1 credit hour
- CHM 341 - Inorganic Chemistry, 3 credit hours
- CHM 345 - Inorganic Chemistry Laboratory, 1 credit hour
- MTH 141 - Calculus I, 4 credit hours
- PHY 131 - Physics for Scientists and Engineers I, 4 credit hours
- PHY 132 - Physics for Scientists and Engineers II, 4 credit hours
- PHY 151 - Introductory Physics Lab I, 1 credit hour
- PHY 152 - Introductory Physics Lab II, 1 credit hour
- PHY 233 - Modern Physics, 4 credit hours

To earn an additional license in Mild/Moderate Educational Needs, the Adolescent Young Adult candidate must complete the following sequence of courses:

- EDU 204 - Phonics and Spelling Development, 3 credit hours
- EDU 274 - Introduction to Students with Mild/Moderate Educational Needs, 3 credit hours
- EDU 275 - Professional Collaboration and Transition Development, 3 credit hours
- EDU 333 - Reading Instruction in the Inclusive Early Childhood Setting, 3 credit hours
- EDU 347 - Mathematics Instruction in Middle Childhood Education, 3 credit hours
- EDU 349 - Literacy Assessment & Remediation for Adolescents, 3 credit hours
- EDU 377 - Academic/Life Skills Assessment and Data-Based Decision Making for Students with Special Needs, 3 credit hours
- EDU 378 - Promoting Social-Emotional Development in the Inclusive Early Childhood Setting, 3 credit hours

- EDU 394 - Curriculum and Intentional Instructional Strategies in the Inclusive Early Childhood Setting, 3 credit hours
- EDU 415 - Clinical Practice in Mild/Moderate Educational Needs, 5 credit hours (1/2 semester)
- EDU 419 - Clinical Practice in Adolescent Young Adult/Multi-Age Education, 4 credit hours (1/2 semester)
- EDU 492 - Senior Capstone Seminar, 3 credit hours

**Education: Dual Primary & Primary Intervention Specialist (preK-5), B.S.Ed.**  
**Minimum Professional Education Credits Required: 91**

Basic professional education course requirements:

- PSY 315 - Child Development, 4 credit hours
- EDU 101X - Introduction to Education and Teaching, 3 credit hours
- EDU 104DX - Introduction to Inclusive Early Childhood Education, 3 credit hours
- EDU 114 - 21st Century Productivity Tools, 1 credit hour
- EDU 203 - Theoretical Foundations in Inclusive Early Childhood Education, 3 credit hours
- EDU 204 - Phonics and Spelling Development, 3 credit hours
- EDU 207 - Planning and Guiding Young Children in the Inclusive Early Childhood Setting, 3 credit hours
- EDU 210 - Family, School, and Community Dynamics for the Inclusive Early Childhood Setting, 3 credit hours
- EDU 211D - Exploring Education in a Diverse Society, 3 credit hours
- EDU 214 - Media Resources for the Education Professional, 2 credit hours
- EDU 221 - Language Development and Emergent Literacy in the Inclusive Setting, 3 credit hours
- EDU 273 - Internship in Inclusive Early Childhood Education I, .5 credit hours
- EDU 301 - Arts Integration in the Inclusive Early Childhood Education Classroom, 3 credit hours
- EDU 311 - Assessment and Data Based Decision Making for Inclusive Early Childhood Settings, 3 credit hours
- EDU 314 - 21st Century Classroom Technology, 1 credit hour
- EDU 323 - Processes & Inquiry in Science/Social Studies for the Inclusive Early Childhood Setting, 3 credit hours
- EDU 324 - Supporting Diverse Learners in Early Childhood Classrooms, 3 credit hours
- EDU 333 - Reading Instruction in the Inclusive Early Childhood Setting, 3 credit hours
- EDU 337 - Mathematics Instruction in the Inclusive Early Childhood Setting I, 3 credit hours
- EDU 348 - Reading in the Content Area, 3 credit hours
- EDU 373X - Internship in Inclusive Early Childhood Education II, .5 credit hours
- EDU 378 - Promoting Social-Emotional Development in the Inclusive Early Childhood Setting, 3 credit hours
- EDU 379 - Internship in Inclusive Early Childhood Education III, .5 credit hours
- EDU 393 - Young Children with Medical and Intensive Needs, 3 credit hours
- EDU 394 - Curriculum and Intentional Instructional Strategies in the Inclusive Early Childhood Setting, 3 credit hours
- EDU 434 - Diagnostic and Remedial Reading Methods in the Inclusive Early Childhood Setting, 3 credit hours
- EDU 435 - Climate, Culture, and Inclusive Early Childhood Settings, 3 credit hours
- EDU 436 - Differentiated Instruction and Co-Teaching in the Inclusive Early Childhood Setting, 3 credit hours
- EDU 437 - Mathematics Instruction in the Inclusive Early Childhood Setting II, 3 credit hours

- EDU 462 - Action Research for the Inclusive Early Childhood Setting, 3 total credit hours
- EDU 473X - Internship in Inclusive Early Childhood Education IV, .5 credit hours
- EDU 480 - Clinical Practice in Inclusive Early Childhood Education, 9 credit hours
- EDU 492 - Senior Capstone Seminar, 3 credit hours

Core requirements:

- ART 102I - Art Appreciation, 3 credit hours
- ASW 110W - Personal Wellness, 1 credit hour
- BIO 110 - Biology for the Citizen, 4 credit hours
- ENG 131 - Workshop in Exposition and Argument, 3 credit hours
- FYE 100 - First-Year Experience, 1 credit hour
- HIS 101I - World Civilizations I: Ancient to Medieval, 3 credit hours
- HIS 152 - History of the United States II, 3 credit hours
- HUM 285I - Intercultural Communication, 3 credit hours
- MTH 111 - Math for Primary Education and Middle Childhood Part 1, 4 credit hours
- MTH 113 - Math for Primary Education Part 2, 4 credit hours
- PSY 100 - Principles of Psychological Science, 3 credit hours

## **Education: Middle Childhood (4-9), B.S.Ed.**

For a Middle Childhood Education license, a student must major in Middle Childhood Education, and earn a baccalaureate degree, including the prescribed program of general education, and professional education. In addition, the student must also take the required courses in two of the following teaching fields:

- Reading and Language Arts
- Mathematics
- Science
- Social Studies

Depending on the teaching fields chosen, students may need to complete additional method courses that correspond to each teaching field. Social Studies students should take EDU 345, Science students should take EDU 346, and Math students should take EDU 347.

**Minimum Professional Education Credits Required: 54 (plus additional method courses)**

Basic professional education course requirements:

Include the following courses and their credit hour values:

- PSY 315 - Child Development, 4 credit hours
- OR**
- PSY 325 - Adolescent Development, 4 credit hours
- EDU 101X - Introduction to Education and Teaching, 3 credit hours
- EDU 103DX - Education of Children with Special Needs, 2 credit hours
- EDU 114 - 21st Century Productivity Tools, 1 credit hour
- EDU 204 - Phonics and Spelling Development, 3 credit hours
- EDU 205 - Introduction to Middle Childhood Education, 3 credit hours
- EDU 211D - Exploring Education in a Diverse Society, 3 credit hours
- EDU 212 - Teaching and Learning, 3 credit hours
- EDU 214 - Media Resources for the Education Professional, 2 credit hours
- EDU 306 - Differentiated Instruction and Assessment, 3 credit hours

- EDU 312 - Classroom Learning Environment, 3 credit hours
- EDU 314 - 21st Century Classroom Technology, 1 credit hour
- EDU 343 - Literacy Instruction with Adolescents, 3 credit hours
- EDU 348 - Reading in the Content Area, 3 credit hours
- EDU 349 - Literacy Assessment & Remediation for Adolescents, 3 credit hours
- EDU 374X - Internship in Middle Childhood Education I, 1 credit hour
- EDU 474 - Internship in Middle Childhood Education II, 1 credit hour
- EDU 481 - Clinical Practice in Middle Childhood Education, 9 credit hours
- EDU 492 - Senior Capstone Seminar, 3 credit hours

Note(s):

The degree earned with a major in middle childhood education is a Bachelor of Science in Education (B.S.Ed.).

\*Teaching fields qualify as minors for middle childhood majors.

See the School of Education for **REQUIRED** courses in each area.

To earn an additional license in Mild/Moderate Educational Needs, the Middle Childhood Education candidate must complete the following sequence of courses:

- EDU 274 - Introduction to Students with Mild/Moderate Educational Needs, 3 credit hours
- EDU 275 - Professional Collaboration and Transition Development, 3 credit hours
- EDU 333 - Reading Instruction in the Inclusive Early Childhood Setting, 3 credit hours
- EDU 337 - Mathematics Instruction in the Inclusive Early Childhood Setting I, 3 credit hours
- EDU 377 - Academic/Life Skills Assessment and Data-Based Decision Making for Students with Special Needs, 3 credit hours
- EDU 378 - Promoting Social-Emotional Development in the Inclusive Early Childhood Setting, 3 credit hours
- EDU 394 - Curriculum and Intentional Instructional Strategies in the Inclusive Early Childhood Setting, 3 credit hours
- EDU 415 - Clinical Practice in Mild/Moderate Educational Needs, 5 credit hours (1/2 semester)
- EDU 418 - Clinical Practice in Middle Childhood Education, 4 credit hours (1/2 semester)

### **Education: Mild/Moderate Educational Needs (K-12), B.S.Ed.**

For an Intervention Specialist license, a student must major in Mild/Moderate Educational Needs and earn a baccalaureate degree including the prescribed program of general education, professional education, curriculum content, and concentration courses.

**Minimum Professional Education Credits Required: 79**

Basic professional education and concentration course requirements:

- PSY 205 - Developmental Psychology, 3 credit hours
- PSY 315 - Child Development, 4 credit hours
- PSY 325 - Adolescent Development, 4 credit hours
- EDU 101X - Introduction to Education and Teaching, 3 credit hours
- EDU 103DX - Education of Children with Special Needs, 2 credit hours
- EDU 114 - 21st Century Productivity Tools, 1 credit hour
- EDU 204 - Phonics and Spelling Development, 3 credit hours
- EDU 211D - Exploring Education in a Diverse Society, 3 credit hours
- EDU 212 - Teaching and Learning, 3 credit hours
- EDU 214 - Media Resources for the Education Professional, 2 credit hours

- EDU 221 - Language Development and Emergent Literacy in the Inclusive Setting, 3 credit hours
- EDU 274 - Introduction to Students with Mild/Moderate Educational Needs, 3 credit hours
- EDU 275 - Professional Collaboration and Transition Development, 3 credit hours
- EDU 314 - 21st Century Classroom Technology, 1 credit hour
- EDU 323 - Processes & Inquiry in Science/Social Studies for the Inclusive Early Childhood Setting, 3 credit hours
- EDU 333 - Reading Instruction in the Inclusive Early Childhood Setting, 3 credit hours
- EDU 347 - Mathematics Instruction in Middle Childhood Education, 3 credit hours
- EDU 348 - Reading in the Content Area, 3 credit hours
- EDU 349 - Literacy Assessment & Remediation for Adolescents, 3 credit hours
- EDU 375X - Internship for Intervention Specialists I, 1 credit hour
- EDU 376X - Internship for Intervention Specialists II, 1 credit hour
- EDU 377 - Academic/Life Skills Assessment and Data-Based Decision Making for Students with Special Needs, 3 credit hours
- EDU 378 - Promoting Social-Emotional Development in the Inclusive Early Childhood Setting, 3 credit hours
- EDU 394 - Curriculum and Intentional Instructional Strategies in the Inclusive Early Childhood Setting, 3 credit hours
- EDU 437 - Mathematics Instruction in the Inclusive Early Childhood Setting II, 3 credit hours
- EDU 484 - Clinical Practice in Mild/Moderate Educational Needs, 9 credit hours
- EDU 492 - Senior Capstone Seminar, 3 credit hours

## **Education: Multi-Age (preK-12), B.S.Ed.**

**Minimum Credits Required: 51**

Required Courses:

- PSY 100 - Principles of Psychological Science, 3 credit hours
- PSY 325 - Adolescent Development, 4 credit hours
- EDU 101X - Introduction to Education and Teaching, 3 credit hours
- EDU 103DX - Education of Children with Special Needs, 2 credit hours
- EDU 114 - 21st Century Productivity Tools, 1 credit hour
- EDU 206 - Introduction to Adolescent Education, 3 credit hours
- EDU 211D - Exploring Education in a Diverse Society, 3 credit hours
- EDU 212 - Teaching and Learning, 3 credit hours
- EDU 214 - Media Resources for the Education Professional, 2 credit hours
- EDU 306 - Differentiated Instruction and Assessment, 3 credit hours
- EDU 312 - Classroom Learning Environment, 3 credit hours
- EDU 314 - 21st Century Classroom Technology, 1 credit hour
- EDU 348 - Reading in the Content Area, 3 credit hours
- Methods of Instruction, 3 credit hours (EDU 450 or EDU 454)
- EDU 475X - Internship in Adolescent/Young Adult and Multi-Age Education, 2 credit hours
- EDU 490 - Clinical Practice, Multi-Age Education, 9 credit hours
- EDU 492 - Senior Capstone Seminar, 3 credit hours

Required Content Area (Choose at least one):

**Declarable Content Area Majors:**



- Art Education Major (Visual Arts Teaching Field)
- French and Francophone Studies Major
- German Major
- Spanish Major

**Music Education candidates** have a professional education program that varies from the program listed here. See Music Education for details.

To earn an additional license in Mild/Moderate Educational Needs, the Multi-Age Education candidate must complete the following sequence of courses:

- EDU 204 - Phonics and Spelling Development, 3 credit hours
- EDU 274 - Introduction to Students with Mild/Moderate Educational Needs, 3 credit hours
- EDU 275 - Professional Collaboration and Transition Development, 3 credit hours
- EDU 343 - Literacy Instruction with Adolescents, 3 credit hours
- EDU 347 - Mathematics Instruction in Middle Childhood Education, 3 credit hours
- EDU 377 - Academic/Life Skills Assessment and Data-Based Decision Making for Students with Special Needs, 3 credit hours
- EDU 378 - Promoting Social-Emotional Development in the Inclusive Early Childhood Setting, 3 credit hours
- EDU 434 - Diagnostic and Remedial Reading Methods in the Inclusive Early Childhood Setting, 3 credit hours
- EDU 394 - Curriculum and Intentional Instructional Strategies in the Inclusive Early Childhood Setting, 3 credit hours
- EDU 415 - Clinical Practice in Mild/Moderate Educational Needs, 5 credit hours (1/2 semester)
- EDU 419 - Clinical Practice in Adolescent Young Adult/Multi-Age Education, 4 credit hours (1/2 semester)

## Minors

### Educational Studies Minor

**Minimum Credits Required: 19**

Requirements:

- EDU 101X - Introduction to Education and Teaching, 3 credit hours
- EDU 103DX - Education of Children with Special Needs, 2 credit hours
- EDU 114 - 21st Century Productivity Tools, 1 credit hour
- EDU 211D - Exploring Education in a Diverse Society, 3 credit hours
- EDU 203 - Theoretical Foundations in Inclusive Early Childhood Education, 3 credit hours
- OR**
- EDU 205 - Introduction to Middle Childhood Education, 3 credit hours
- OR**
- EDU 206 - Introduction to Adolescent Education, 3 credit hours
- EDU 207 - Planning and Guiding Young Children in the Inclusive Early Childhood Setting, 3 credit hours
- OR**
- EDU 212 - Teaching and Learning, 3 credit hours
- PSY 315 - Child Development, 4 credit hours
- OR**
- PSY 325 - Adolescent Development, 4 credit hours

# Engineering

## Majors

### Engineering, B.S.

Minimum Credits Required: 90

Required Courses:

- CHM 111 - General Chemistry I, 4 credit hours
- CSC 212 - Intro to Programming for Scientists & Engineers, 3 credit hours
- MTH 141 - Calculus I, 4 credit hours
- MTH 142 - Calculus II, 4 credit hours
- MTH 243 - Calculus III, 4 credit hours
- MTH 235 - Probability & Statistics for Scientists & Engineers, 3 credit hours
- MTH 245 - Differential Equations, 3 credit hours
- PHY 131 - Physics for Scientists and Engineers I, 4 credit hours
- PHY 151 - Introductory Physics Lab I, 1 credit hour
- PHY 132 - Physics for Scientists and Engineers II, 4 credit hours
- PHY 152 - Introductory Physics Lab II, 1 credit hour
- ECN 288X - Engineering Economics, 3 credit hours
- SUS/MGT 340 - Biomimicry- Nature Inspired Product Design, 3 credit hours
- EGR 101 - Introduction to Engineering, 1 credit hour
- EGR 102 - Introduction to Engineering Design & Analysis, 2 credit hours
- EGR 103 - Engineering Graphics, 1 credit hour
- EGR 200 - Statics & Dynamics, 4 credit hours
- EGR 201 - Mechanics of Materials, 4 credit hours
- EGR 202 - Creativity & Design Thinking, 2 credit hours
- EGR 203 - Thermodynamics & Fluid Mechanics I, 4 credit hours
- EGR 300 - Electronics, Circuits & Devices, 3 credit hours
- EGR 301 - Engineering Materials & Manufacturing, 4 credit hours
- EGR 303 - Sensors and Controls, 3 credit hours
- EGR 304 - Experimental Engineering, 3 credit hours
- EGR 305 - Global Engineering Experience, 3 credit hours
- EGR 306 - Product Design & Entrepreneurship, 3 credit hours
- EGR 463 - Engineering Seminar, 1 credit hour
- EGR 464 - Engineering Capstone I, 2 credit hours
- EGR 465 - Engineering Capstone II, 3 credit hours

Technical Electives:

Take 6 credits from the following-

- EGR 110 - History of Engineering & Technology, 1 credit hour
- EGR 310 - Thermodynamics & Fluid Mechanics II, 3 credit hours
- EGR 410 - Heat Transfer, 3 credit hours
- EGR 420 - Sustainable Power Generation, 3 credit hours

## English and Creative Writing

The Department of English and Creative writing offers meaningful majors designed to prepare students for professional and personal success. The department offers three majors: Creative Writing, English, and Integrated English Language Arts. We also offer minors in Creative Writing and English.

In all of our majors, students study literature and write creatively and analytically along with gaining real-world experience through campus leadership opportunities and internships. Our different majors allow students to specialize in the areas that are most important to them while gaining a sophisticated understanding across our discipline. We are one of the few universities in our region to offer a full Creative Writing Major, and our program is distinctive because it offers classes in poetry, fiction, and playwriting. Our English Major offers courses in classic and contemporary literature, from Shakespeare to science fiction, in addition to professional, analytical, and creative writing. Our Integrated English Language Arts Major is specially designed for students who want to go onto careers as teachers in grades 7-12.

The faculty in the Department of English and Creative Writing are experts and published writers in their fields, and we pride ourselves on promoting self-expression and intellectual rigor. Our small classes allow us to work together as a community of writers and readers who share a love of literature, language and creativity.

Opportunities abound on campus for students to engage in the life of the department and gain professional experience while earning their degrees. Our majors and minors

- Publish their work in the *The Mill*, the university literary and arts journal
- Work as editors and designers on *The Mill*, the university literary and arts journal
- Meet and learn from visiting novelists, poets, and writers who come to campus as part of The Mill Reading Series
- Work as writers and editors on *The Exponent*, the university newspaper
- Serve as leaders in Sigma Tau Delta, the English Honor Society
- Collaborate with Theatre in productions and staged readings
- Gain internships on campus and throughout the Cleveland area in non-profits, corporations, education, and media
- Work as academic coaches and mentors in the High School-Higher Education Program
- Work with professors as course assistants in classes
- Conduct scholarly research and creative endeavors through the Summer Scholars Program, Faculty Student Collaborative Scholarship courses, Honors in the Major projects, and independent study courses

The majors in English and Creative Writing teach 21st-century skills in critical and creative thinking, written and oral communication, collaboration, and the ability to interpret texts and situations across multiple points of view. Major surveys show that these are the skills that employers look for in hiring and promotion. Our majors and minors go on to meaningful careers as writers, editors, and communication directors in businesses, marketing, media relations, health care, and non-profit and charitable organizations. They are teachers, lawyers, analysts, content providers, and project managers. Our alumni tell us that their English and Creative Writing majors fuel them as they move upward into executive and leadership positions in their careers and communities. In a world of constant change, English and Creative Writing majors and minors graduate with the true foundations needed to successfully meet the future and lead lives of meaning and purpose.

## Majors

### Creative Writing, B.A.

Minimum Credits Required: 43

Foundational Literature Course: 3 credits

- ENG 125 - Introduction to Literature: Fiction, Poetry, and Drama, 3 credit hours

Career Preparation: 1 credit

- HUM 215 - Career Pathways for Humanities Majors, 1 credit hour

Workshops in Creative Writing: 9 credits

- ENG 233 - Workshop in Creative Writing, 3 credit hours : Fiction
- ENG 233 - Workshop in Creative Writing, 3 credit hours : Playwriting
- ENG 233 - Workshop in Creative Writing, 3 credit hours : Poetry

Historical Surveys: 9 credits (3 of the following courses)

- ENG 241I - Survey of British Literature I, 3 credit hours
- ENG 242I - Survey of British Literature II, 3 credit hours
- ENG 251D - Survey of American Literature I, 3 credit hours
- ENG 252D - Survey of American Literature II, 3 credit hours
- ENG 280 - Survey of World Literature, 3 credit hours

Workshops in Advanced Creative Writing: 6 credits

- ENG 307 - Advanced Creative Writing, 3 credit hours
- ENG 350 - Advanced Creative Writing II, 3 credit hours

Advanced Studies in Literature: 12 credits (4 courses)

- ENG 316 - Studies in Literary History, 3 credit hours
- ENG 328(D) - Studies of Major Authors, 3 credit hours
- ENG 335 - Studies in World Literature, 3 credit hours
- ENG 336(D) - Studies in Specific Genres, Themes or Modes, 3 credit hours

Note:

ENG 316, ENG 328(D), ENG 335, ENG 336(D) are not individual courses; they are inclusive categories of courses. For example, there is no course called ENG 328(D) Major Authors. Rather, there is ENG 328 Chaucer, ENG 328 Shakespeare, etc. There is no requirement to take one of each number (for example, one 316, one 328, etc.).

ENG 308, Nature Writing, may be substituted for one 300-level literature course listed above.

Seminar in Creative Writing: 3 credits

- ENG 450 - Seminar in Creative Writing, 3 credit hours

Note:

With the exception of one ENG 233: Workshop in Creative Writing, as determined by the English Department for transfer credits proven by documentation to be a course equivalent, no prerequisites and requirements for the Creative Writing major or minor may be waived or adjusted.

A student may not combine the major or minor in Creative Writing with a major or minor in English.

### **English AYA Licensure**

These requirements are explained under the School of Education. Students who wish to teach English in Ohio schools should check with the School of Education for further explanation of these requirements.

## **English, B.A.**

### **Minimum Credits Required: 37**

Introduction to literary analysis and interpretation: 3 credits

- ENG 125 - Introduction to Literature: Fiction, Poetry, and Drama, 3 credit hours

Career Preparation: 1 credit

- HUM 215 - Career Pathways for Humanities Majors, 1 credit hour

Writing: 3 credits

- CAS 232 - Workshop in Journalism, 3 credit hours
- ENG 233 - Workshop in Creative Writing, 3 credit hours (Fiction, Playwriting, Poetry)
- ENG 305 - Workshop in Advanced Expository and Argumentative Writing, 3 credit hours ^
- ENG 308 - Nature Writing, 3 credit hours ^
- ENG 309(SX) - Grant Writing, 3 credit hours ^

Historical Surveys: 12 credits (4 of the following courses)

- ENG 241I - Survey of British Literature I, 3 credit hours
- ENG 242I - Survey of British Literature II, 3 credit hours
- ENG 251D - Survey of American Literature I, 3 credit hours
- ENG 252D - Survey of American Literature II, 3 credit hours
- ENG 280 - Survey of World Literature, 3 credit hours

Advanced Studies in English: 18 credits (6 of the following courses)

a. Advanced Writing Courses

- ENG 305 - Workshop in Advanced Expository and Argumentative Writing, 3 credit hours ^
- ENG 307 - Advanced Creative Writing, 3 credit hours
- ENG 308 - Nature Writing, 3 credit hours ^
- ENG 309(SX) - Grant Writing, 3 credit hours ^
- ENG 350 - Advanced Creative Writing II, 3 credit hours
- ENG 450 - Seminar in Creative Writing, 3 credit hours

b. Advanced Literature Courses

- ENG 316 - Studies in Literary History, 3 credit hours
- ENG 328(D) - Studies of Major Authors, 3 credit hours

- ENG 335 - Studies in World Literature, 3 credit hours
- ENG 336(D) - Studies in Specific Genres, Themes or Modes, 3 credit hours
- ENG 463 - Seminar, 1-4 credit hours

At least four of a student's Advanced Study courses must be Advanced Literature courses (ENG 316, 328, 335, 336, 463).

Note:

ENG 308, ENG 316, ENG 328(D), ENG 335, ENG 336(D), ENG 463 are not individual courses; they are inclusive categories of courses. For example, there is no course called ENG 328(D) Major Authors. Rather, there is ENG 328 Chaucer, ENG 328 Shakespeare, etc. There is no requirement to take one of each number (for example one 316, one 328, etc.).

^ If ENG 305, ENG 308 or ENG 309(SX) was used to fulfill the Writing requirement, it may not be used to fulfill the Advanced Studies requirement as well.

A student may not combine the major or minor in English with a major or minor in Creative Writing.

### **English AYA Licensure**

These requirements are explained under the School of Education. Students who wish to teach English in Ohio schools should check with the School of Education for further explanation of these requirements.

## **English: Integrated English Language Arts**

**Minimum Credits Required: 40**

Foundational Courses: 16 Credits

- ENG 125 - Introduction to Literature: Fiction, Poetry, and Drama, 3 credit hours
- ENG 213 - Applied English Grammar, 3 credit hours
- ENG 220 - Literature for Adolescents, 3 credit hours
- ENG 233 - Workshop in Creative Writing, 3 credit hours (Fiction, Poetry, or Playwriting)
- CAS 232 - Workshop in Journalism, 3 credit hours
- HUM 215 - Career Pathways for Humanities Majors, 1 credit hour

Historical Surveys: 9 Credits

Choose 3 of the following surveys; at least 1 course must be in American Literature.

- ENG 241I - Survey of British Literature I, 3 credit hours
- ENG 242I - Survey of British Literature II, 3 credit hours
- ENG 251D - Survey of American Literature I, 3 credit hours
- ENG 252D - Survey of American Literature II, 3 credit hours
- ENG 280 - Survey of World Literature, 3 credit hours

Advanced Studies: 15 Credits

Choose 5 of the following courses; at least 3 must be in Literature and 1 in Writing.

### **Advanced Studies in Writing**

- ENG 305 - Workshop in Advanced Expository and Argumentative Writing, 3 credit hours
- ENG 308 - Nature Writing, 3 credit hours
- ENG 309(SX) - Grant Writing, 3 credit hours

### **Advanced Studies in Literature\***

- ENG 316 - Studies in Literary History, 3 credit hours
  - ENG 328(D) - Studies of Major Authors, 3 credit hours
  - ENG 335 - Studies in World Literature, 3 credit hours
  - ENG 336(D) - Studies in Specific Genres, Themes or Modes, 3 credit hours
  - ENG 463 - Seminar, 1-4 credit hours
- \* Advanced Studies in Literature are all special topics courses, so courses can be repeated for credit as long as the topics are different. For example, a student could take ENG-328 - Shakespeare and ENG-328D - August Wilson.

Note:

This major is designed for students who plan to teach English and English Language Arts in grades 7-12. To earn licensure, students must also complete the Education: Adolescent and Young Adult (7-12), B.S.Ed. major. A student may not combine the major in Integrated English Language Arts with a major or minor in English or Creative Writing.

### **English AYA Licensure**

These requirements are explained under the School of Education. Students who wish to teach English in Ohio schools should check with the School of Education for further explanation of these requirements.

## **Minors**

### **Creative Writing Minor**

A minimum of 18 credits are required for the Creative Writing minor.

Requirements:

- ENG 125 - Introduction to Literature: Fiction, Poetry, and Drama, 3 credit hours
  - One additional literature class at the 100, 200 level, 3 credit hours
  - ENG 233 - Workshop in Creative Writing, 3 credit hours :Fiction
  - ENG 233F Workshop in Creative Writing, 3 credit hours :Poetry
  - ENG 307 - Advanced Creative Writing, 3 credit hours
  - ENG 350 - Advanced Creative Writing II, 3 credit hours
- OR**
- ENG 450 - Seminar in Creative Writing, 3 credit hours

### **English Minor**

The English minor consists of ENG 131 and five elective courses for a total of 18 credits. At least two of the elective courses must be at the 300/400 level.

Required:

- ENG 131 - Workshop in Exposition and Argument, 3 credit hours

Choose 5 Electives Below: (at least 2 courses must be at the 300/400 level)

- ENG 125 - Introduction to Literature: Fiction, Poetry, and Drama, 3 credit hours
- ENG 129 - Special Topics, 2-3 credit hours
- ENG 213 - Applied English Grammar, 3 credit hours
- ENG 220 - Literature for Adolescents, 3 credit hours

- CAS 232 - Workshop in Journalism, 3 credit hours
- ENG 233 - Workshop in Creative Writing, 3 credit hours
- ENG 241I - Survey of British Literature I, 3 credit hours
- ENG 242I - Survey of British Literature II, 3 credit hours
- ENG 251D - Survey of American Literature I, 3 credit hours
- ENG 252D - Survey of American Literature II, 3 credit hours
- ENG 263 - Seminar, 2-4 credit hours
- ENG 280 - Survey of World Literature, 3 credit hours
- ENG 305 - Workshop in Advanced Expository and Argumentative Writing, 3 credit hours
- ENG 307 - Advanced Creative Writing, 3 credit hours
- ENG 308 - Nature Writing, 3 credit hours
- ENG 309(SX) - Grant Writing, 3 credit hours
- ENG 316 - Studies in Literary History, 3 credit hours
- ENG 328(D) - Studies of Major Authors, 3 credit hours
- ENG 335 - Studies in World Literature, 3 credit hours
- ENG 336(D) - Studies in Specific Genres, Themes or Modes, 3 credit hours
- ENG 350 - Advanced Creative Writing II, 3 credit hours
- ENG 450 - Seminar in Creative Writing, 3 credit hours
- ENG 463 - Seminar, 1-4 credit hours

## English as a Second Language

English as a Second Language (ESL) services are available to all Baldwin Wallace students whose first language is not English. These services are provided for international students as well as other BW students. ESL Sections of ENG 111 College Composition (3 credits) and ENG 131 Workshop in Exposition and Argumentation (3 credits) are offered each semester. Students in ENG 111 and ENG 131 will experience the same reading and writing instruction as native speakers, but the ESL sections allow instructors to pay particular attention to the needs of non-native speakers.

Placement into these courses is determined by an on-campus placement process. Placement testing occurs during international student orientation before the semester begins, and courses are scheduled to allow for easy scheduling and changes of placement as necessary in the first week of class. Students who have been placed into the ESL section of ENG 111 will take the ESL section of ENG 131 in the next semester unless their ENG 111 ESL instructor deems them ready for the non-ESL section of ENG 131.

In addition to these courses, ESL-trained tutors are available for individual instruction, assistance with written assignments, and independent study through the English department's Writing Center, located on the second floor of Ritter Library. Students can sign up for ESL tutoring appointments using Appointment Plus by going to the BW Smart tab and clicking "Book Your Appointment Now". Tutoring appointments are offered free of charge.



# Environmental Science

## Majors

### Environmental Science, B.S.

Environmental Science is fundamentally interdisciplinary through its integration of concepts from biology, chemistry, and geology to study and solve environmental problems. As such, the Environmental Science curriculum provides an interdisciplinary approach to investigating the scientific principles related to Earth's environment through courses in biology, chemistry, and geology, as well as environmental science. Research, critical thinking, and communication skills are emphasized in this program in order to best prepare students for a career in environmental science or graduate school.

Environmental Science majors may not declare a Biology minor.

**Minimum Credits Required: 60.5**

Required Courses:

- MTH 120/121 - Applied College Mathematics or higher
- ENV 101 - Principles of Environmental Science, 4 credit hours
- BIO 121 - Principles of Biology I, 4 credit hours
- BIO 122 - Principles of Biology II, 4 credit hours
- GEO 111 - The Dynamic Earth, 4 credit hours
- CHM 111 - General Chemistry I, 4 credit hours
- CHM 112 - General Chemistry II, 3 credit hours
- CHM 115 - General Chemistry Lab, 1 credit hour
- ENV 201 - Energy and Climate, 3 credit hours
- GEO 205 - Geographic Information Systems, 4 credit hours
- ENV 464 - Environmental Science Capstone, 3 credit hours

Biology Electives: (choose one of the following)

- ENV 305 - Biogeochemistry, 4 credit hours
- BIO 309 - Vertebrate Natural History, 4 credit hours
- BIO 310 - Evolution, 4 credit hours
- BIO 311 - Conservation Biology, 4 credit hours
- BIO 313 - Ecology, 4 credit hours
- BIO 322 - Plant Evolution, 4 credit hours
- BIO 334 - Invertebrate Natural History, 4 credit hours
- BIO 337 - Plant Physiology, 4 credit hours

Chemistry Electives: (choose one pair from the following)

- CHM 251 - Organic Chemistry I, 3 credit hours
- AND**
- CHM 255 - Organic Chemistry I Laboratory, .5 credit hour
- 
- CHM 281 - Environmental Chemistry, 3 credit hours
- AND**
- CHM 285 - Environmental Chemistry Laboratory, 1 credit hour

Geology Electives: (choose one of the following)

- GEO 315 - Hydrology, 4 credit hours
- GEO 316 - Soils and Geomorphology, 4 credit hours

Quantitative Electives: (choose one of the following)

- MTH 105 - Introduction to Probability and Statistics, 3 credit hours
- OR**
- MTH 108 - Biostatistics, 3 credit hours
- OR**
- PSY 278 - Elements of Statistics, 4 credit hours
- OR**
- MTH 279 - Basic Statistical Methods, 3 credit hours
  
- MTH 106 - Introductory Statistics II, 3 credit hours
- MTH 141 - Calculus I, 4 credit hours
- PHY 145 - Applied College Physics I, 5 credit hours
- CSC 212 - Intro to Programming for Scientists & Engineers, 3 credit hours
- MTH 235 - Probability & Statistics for Scientists & Engineers, 3 credit hours
- MTH 271 - Introduction to Mathematical Modeling, 3 credit hours

Additional Electives:

Take 12 additional credits (at least 7 at the 300-level) from the four elective sections above or from the courses listed below.

- BIO 221 - General Zoology, 3 credit hours
- BIO 222 - General Botany, 3 credit hours
- GEO 227 - Environmental Geology, 3 credit hours

## Gender Studies

Gender Studies examines the significance of social constructions of sex, gender, and sexuality as they structure the meaning of personal identity and social institutions like work, family, medicine, and the law. The Gender Studies minor is an interdisciplinary program that allows students to choose from a number of different disciplines and topics to meet their individual interests while also acquiring a breadth of knowledge about how gender and sexuality are explored across multiple academic fields. Gender Studies courses seek to enhance the integration of knowledge about gender and the social institutions that help to structure it beyond the classroom to one's public and personal life.

## Minors

### Gender Studies Minor

The minor requires a total of 18 credit hours from the courses listed below, with credit accumulated from at least three different departmental prefixes. Up to four of those 18 credit hours can be substituted with an approved Independent Study or Internship coordinated with a faculty member working within the Gender Studies minor. Completion of the minor requires a not-for-credit reflection paper that summarizes the student's experience across the minor courses.

Questions about the minor should be addressed to Dr. Ana de Freitas Boe, Director of the Gender Studies minor, in the Department of English.

#### Requirements:

Choose 18 credits from at least 3 different prefixes from the following course listings. Student can also take up to 4 credits of independent study or internship for Gender Studies credit through one of the participating departments. (Gender Studies minors who have taken ENG 131 but who do not have the prerequisites to take a 300 level English course can ask to have the prerequisites waived by the professor of the class.)

- ASW 330W - Human Sexuality Education, 3 credit hours
- ENG 220 - Literature for Adolescents, 3 credit hours
- ENG 335 - Literature and Film of the South Asian Diaspora, 3 credit hours
- ENG 336(D) - Early American Women's Narratives, 3 credit hours
- ENG 336(D) - Men Behaving Badly: Performing Masculinity, 3 credit hours
- ENG 336(D) - Children's Literature, 3 credit hours
- ENG 336(D) - Dystopia & Contemporary Fiction, 3 credit hours
- HIS 235 - Women in Western Civilization, 3 credit hours
- HIS 236I - Women in Asian Civilizations, 3 credit hours
- HIS 260(D) - Topics in History, 3-4 credit hours
- HIS 360(X) - An In-depth Study of Topics in History, 3-4 credit hours
- MUC 363D - Gender and Sexuality in Music Scholarship, 2 credit hours
- PHL 314 - The Work of Judith Butler, 3 credit hours
- PHT 240D - Gender, Sex, and Health, 3 credit hours
- POL 305 - Women, Politics, and Law, 3 credit hours
- PSY 215D - Psychology of Women, 4 credit hours
- REL 216I - Religion, Gender, and Sexuality, 3 credit hours
- SOC 290D - Gender Roles, 3 credit hours
- SOC 320X - Victimology, 4 credit hours

## Geology

The geology minor and geology courses provide basic knowledge of the structural, physical and chemical nature of the planet and its manifestations on the surface. Course work in geology supports career interests in ecology and environmental science, sustainability, education, and nature interpretation.

Courses in Geology are offered by the Department of Biology and Geology. The goals of the geology course offerings are to instill in the student an appreciation of the earth's place and behavior in the universe; to give an understanding of the processes that have acted throughout time to shape the earth, its resources, and its life forms; to examine the effects of these processes on human habitation and the environment; and to bring an awareness of the interdisciplinary nature of the solutions to the earth's environmental problems. The minor is also offered to meet the needs of those preparing to teach earth sciences in primary and secondary schools, those who are simply interested in learning more about the earth as part of a liberal arts education, and provide a foundation for those who wish to do further work in geology or environmental sciences.

## Minors

### Geology Minor

Requirements:

A Geology minor shall consist of a minimum of 18 credit hours and must include:

- GEO 104 - Geology of National Parks, 4 credit hours
- OR**
- GEO 111 - The Dynamic Earth, 4 credit hours
  
- GEO 205 - Geographic Information Systems, 4 credit hours
- GEO 212 - Earth History, 4 credit hours
- A 300-level GEO course

## History

The History Department serves the Baldwin Wallace University community and the greater Cleveland area by providing academic expertise in a wide variety of historical fields and by offering multiple, balanced perspectives on human history. The Department offers a major in History, a major in History for Adult & Continuing Education Students, a major in Applied History, a major in Public History, a minor in History, a minor in Public History, and a certificate in Public History.

The Department prepares students to meet the highest academic standards of the discipline. Its faculty members commit to the "best practices" recommended by the American Historical Association (<https://www.historians.org/pubs/Free/LiberalLearning.htm>). We believe that historians must be able to analyze primary sources, think critically about them, examine problems from multiple perspectives, and communicate ideas effectively in writing. Therefore all history courses emphasize the importance of critical thinking and excellence in writing. We furthermore believe that the teaching of history should challenge students to understand the historical contexts of ethical issues. Moreover, the History Department remains committed to presenting the human element in history and to the interests of our students as individuals. Finally, we require all students seeking a license to teach history in the secondary schools to maintain a GPA of 3.0 in their history courses.

The History Department's objective is that every student who graduates with a major from our department will be able to demonstrate mastery of historical knowledge, critical thinking, ethical awareness, research abilities, and writing skills. Our department's curriculum is designed to ensure progressive development in those areas. First, beginners must complete a prerequisite before entering the intermediate and advanced courses. A 100-level history course is recommended, but some instructors may also accept INT 200I or ASN 100I as prerequisite. 100-level courses are surveys of American, world, or European history that introduce students to the narratives of our collective cultural heritage, the classroom and study habits necessary to succeed as a history major, and the skills of essay-writing and critical thinking. Students then proceed to the 200-300 level courses. 200-level courses are surveys of smaller geographical regions or topical studies. The 300-level courses are in-depth studies of particular topics or periods that give more opportunities for advanced research or writing. 200-300 level courses are typically offered every other year. History majors must also take the capstone course, HIS 461 Historiography, in their junior or senior year. This capstone course is designed to open students' eyes to the different ways historians have approached the craft of writing history, and to expose students to the most challenging theoretical perspectives in our discipline. HIS 461 also requires a major research paper. The History Department encourages students to pursue a capstone thesis or project in the final semester of their senior year, HIS 491/492.

A transfer student is required to take at least 19 history credits at BW to graduate with a history major.

## Majors

### Applied History, B.S.

**Minimum Credits Required: 49**

Required Courses: (22 credit hours)

- MTH 105 - Introduction to Probability and Statistics, 3 credit hours
- CSC 135 - Introduction to Web Site Development, 3 credit hours
- HIS 200 - Quantitative Research Methods for Humanities, 3 credit hours
- PBH 200X - Introduction to Archives and Museums, 3 credit hours
- ENG 309(SX) - Grant Writing, 3 credit hours
- HIS 461 - Historiography, 4 credit hours

- HIS 298X - Internship, Credit hours to be arranged

**OR**

- HIS 398X - Internship, Credit hours to be arranged
- OR**
- HIS 498X - Internship, Credit hours to be arranged
- OR**
- HUM 270X - Career Connections for Humanities Majors, 1-3 credit hours
- OR**
- PBH 497X - Public History Internship, Credit hours to be arranged

History & Public History Electives:

Take 15 credit hours from any HIS or PBH courses at the 200-400 level (not including those required).

Project Management Elective:

Complete one of the following courses-

- ACC 213 - Accounting & Finance Essentials, 3 credit hours
- MGT 205 - Introduction to Management, 3 credit hours
- MGT 325 - Organizational Project Management, 3 credit hours

Information Technology Elective:

Complete one of the following courses-

- CSC 210 - Computer Science I: Programs and Applications, 3 credit hours
- CSC 211 - Introduction to Programming in Python, 3 credit hours
- CSC 240 - Object-Oriented Programming, 3 credit hours
- CSC 250 - Multimedia Programming, 3 credit hours
- CSC 253 - Seminar in Computing for the Community I, 3 credit hours
- CSC 280 - Data Systems, 3 credit hours
- CSC 340 - Data Analysis & Visualization, 3 credit hours
- GEO 205 - Geographic Information Systems, 4 credit hours

Quantitative Methods Elective:

Complete one of the following courses-

- BUS 365 - Business Analytics, 3 credit hours
- MTH 108 - Biostatistics, 3 credit hours
- MTH 271 - Introduction to Mathematical Modeling, 3 credit hours
- MTH 279 - Basic Statistical Methods, 3 credit hours
- PSY 278 - Elements of Statistics, 4 credit hours
- SOC 280 - Research Methods, 4 credit hours
- SOC 281 - Data Analysis Using PASW, 4 credit hours

Problem Solving Elective:

Complete one of the following courses-

- HUM 285I - Intercultural Communication, 3 credit hours
- PHL 102 - Introduction to Ethics, 3 credit hours
- PHL 201 - Logic and Critical Thinking, 3 credit hours
- PHY 104 - General Problem Solving Techniques, 3 credit hours

## History (Online Program for A2BW Students Only), B.A.

This major includes a minor in Psychology and Modern World History Concentration.

**Minimum Credits Required: 62**

Required Courses:

- HIS 205 - History and the Environment: Global Perspectives, 3 credit hours
- HIS 2211 - Europe: From Black Death to French Revolution, 3 credit hours
- HIS 2271 - History of Africa, 3 credit hours
- HIS 2451 - Survey of Russian History, 3 credit hours
- HIS 267 - Vietnam War: Causes and Consequences, 3 credit hours
- HIS 349I - Modern Britain, 3 credit hours
- HIS 354 - U.S. Reform and War, 1876-1920, 3 credit hours
- HIS 389I - The Modern Middle East, 4 credit hours
- HIS 400 - Advanced Historical Research and Writing, 1 credit hour
- HIS 461 - Historiography, 4 credit hours
- HIS 491 - Senior Thesis, Credit hours to be arranged (1 credit hour required)
- PBH 250 - America's National Parks, 3 credit hours
- PSY 100 - Principles of Psychological Science, 3 credit hours
- PSY 205 - Developmental Psychology, 3 credit hours
- PSY 278 - Elements of Statistics, 4 credit hours
- PSY 279 - Laboratory in Statistical Methods, 3 credit hours
- PSY 339 - Social Psychology, 4 credit hours

Electives: (11 credit hours required)

## History, B.A.

**Minimum Credits Required: 38**

Two 100-Level Courses:

Take two 100-level courses and no more than four-

- HIS 1011 - World Civilizations I: Ancient to Medieval, 3 credit hours
- HIS 102I - World Civilizations II: Imperialism and World War, 3 credit hours
- HIS 151 - History of the United States I, 3 credit hours
- HIS 152 - History of the United States II, 3 credit hours
- HIS 170D - Diversity in America, 3 credit hours

One Additional 200-Level History Course

Two Additional 300-Level History Courses

Concentrations:

**For all concentrations, HIS 260(D) and HIS 360(X): Topics in History; HIS 463 Seminar in History; HIS 491, 492: Departmental Thesis/Project; and transfer courses may be counted where appropriate. Note: The same three courses may not be used to complete two separate concentrations that happen to have overlapping requirements. In such cases, the student needs to complete four courses, rather than three, in one of the two concentrations.**

Take at least three courses from one of the following concentrations-

Ancient and Medieval World Concentration:

- HIS 288I - Islamic History 600-1800, 3 credit hours
- HIS 291I - History of East Asia I, 3 credit hours
- HIS 321 - Classical Antiquity to the Fall of Rome, 3 credit hours
- HIS 322 - Medieval Europe to the Black Death, 3 credit hours
- HIS 344I - Early Russia, 3 credit hours

Asian History Concentration:

- HIS 236I - Women in Asian Civilizations, 3 credit hours
- HIS 267 - Vietnam War: Causes and Consequences, 3 credit hours
- HIS 291I - History of East Asia I, 3 credit hours
- HIS 292I - History of East Asia II, 3 credit hours

European History Concentration:

- HIS 221I - Europe: From Black Death to French Revolution, 3 credit hours
- HIS 222I - Europe: From Revolution to World War and Globalization, 3 credit hours
- HIS 235 - Women in Western Civilization, 3 credit hours
- HIS 321 - Classical Antiquity to the Fall of Rome, 3 credit hours
- HIS 322 - Medieval Europe to the Black Death, 3 credit hours
- HIS 323 - Enlightenment, French Revolution, and Napoleon, 3 credit hours
- HIS 342 - World War I, 3 credit hours
- HIS 343 - The Second World War, 3 credit hours
- HIS 349I - Modern Britain, 3 credit hours

History of War Concentration:

- HIS 267 - Vietnam War: Causes and Consequences, 3 credit hours
- HIS 339 - History of War, 3 credit hours
- HIS 342 - World War I, 3 credit hours
- HIS 343 - The Second World War, 3 credit hours
- HIS 351 - The American Revolution, 3 credit hours
- HIS 353 - U.S. Civil War, 3 credit hours
- HIS 381I - The Arab-Israeli Conflicts, 4 credit hours

Middle Eastern History Concentration:

- HIS 236I - Women in Asian Civilizations, 3 credit hours
- HIS 288I - Islamic History 600-1800, 3 credit hours
- HIS 381I - The Arab-Israeli Conflicts, 4 credit hours
- HIS 389I - The Modern Middle East, 4 credit hours

Modern World History Concentration:

- HIS 205 - History and the Environment: Global Perspectives, 3 credit hours
- HIS 221I - Europe: From Black Death to French Revolution, 3 credit hours
- HIS 222I - Europe: From Revolution to World War and Globalization, 3 credit hours
- HIS 227I - History of Africa, 3 credit hours



- HIS 235 - Women in Western Civilization, 3 credit hours
- HIS 267 - Vietnam War: Causes and Consequences, 3 credit hours
- HIS 270I - Latin America, 3 credit hours
- HIS 292I - History of East Asia II, 3 credit hours
- HIS 342 - World War I, 3 credit hours
- HIS 343 - The Second World War, 3 credit hours
- HIS 346I - Modern Russia, 3 credit hours
- HIS 349I - Modern Britain, 3 credit hours
- HIS 381I - The Arab-Israeli Conflicts, 4 credit hours
- HIS 389I - The Modern Middle East, 4 credit hours

History of Revolution Concentration:

- HIS 245I - Survey of Russian History, 3 credit hours
- HIS 270I - Latin America, 3 credit hours
- HIS 323 - Enlightenment, French Revolution, and Napoleon, 3 credit hours
- HIS 346I - Modern Russia, 3 credit hours
- HIS 351 - The American Revolution, 3 credit hours
- HIS 389I - The Modern Middle East, 4 credit hours

Russian History Concentration:

- HIS 245I - Survey of Russian History, 3 credit hours
- HIS 344I - Early Russia, 3 credit hours
- HIS 345I - Imperial Russia, 3 credit hours
- HIS 346I - Modern Russia, 3 credit hours

Early U.S. History Concentration:

- HIS 250D - African-American History, 3 credit hours
- HIS 350 - Colonial America, 3 credit hours
- HIS 351 - The American Revolution, 3 credit hours
- HIS 352 - Jefferson-Jackson, 3 credit hours
- HIS 353 - U.S. Civil War, 3 credit hours

Modern U.S. History Concentration:

- HIS 250D - African-American History, 3 credit hours
- HIS 267 - Vietnam War: Causes and Consequences, 3 credit hours
- HIS 354 - U.S. Reform and War, 1876-1920, 3 credit hours
- HIS 355 - Modern America: 1920-1945, 3 credit hours
- HIS 356 - Recent America: 1945-present, 3 credit hours

U.S. History Concentration:

- HIS 210 - Ohio History, 3 credit hours
- HIS 250D - African-American History, 3 credit hours
- HIS 267 - Vietnam War: Causes and Consequences, 3 credit hours
- HIS 350 - Colonial America, 3 credit hours
- HIS 351 - The American Revolution, 3 credit hours
- HIS 352 - Jefferson-Jackson, 3 credit hours
- HIS 353 - U.S. Civil War, 3 credit hours
- HIS 354 - U.S. Reform and War, 1876-1920, 3 credit hours

- HIS 355 - Modern America: 1920-1945, 3 credit hours
- HIS 356 - Recent America: 1945-present, 3 credit hours

Required 400-Level Courses:

- HIS 400 - Advanced Historical Research and Writing, 1 credit hour
- HIS 461 - Historiography, 4 credit hours

Note(s):

In addition, history majors must successfully pass the Department of History Comprehensive Examination, which is individually-tailored to reflect the student's coursework at BW. They must also complete a Senior Learning Survey, which is a brief survey that we use to assess the value and continuing relevance of our courses. It is strongly recommended that a history major take more than the absolute minimum hours required, and that students who plan to attend graduate school seek out opportunities to do research (for example, through Faculty Student Collaborative Scholarship projects or the departmental thesis). Special programs may be designed for the student seeking a double University major, such as business-history, art-history, sociology-history, political science-history, psychology-history, etc. History majors may also elect additional History Concentrations.

## History: Integrated Social Studies Teacher Education

This major may only be taken as a double major with Education: Adolescent and Young Adult (7-12), B.S.Ed. Candidates must maintain a 3.000 GPA in the major.

**Minimum Credits Required: 44**

Required Courses:

- HIS 1011 - World Civilizations I: Ancient to Medieval, 3 credit hours
- HIS 1021 - World Civilizations II: Imperialism and World War, 3 credit hours
- HIS 151 - History of the United States I, 3 credit hours
- HIS 152 - History of the United States II, 3 credit hours
- GEO 121 - Physical Geography, 4 credit hours
- POL 101D - U.S. Government and Politics, 3 credit hours
- ECN 121 - Principles of Microeconomics, 3 credit hours
- ECN 122 - Principles of Macroeconomics, 3 credit hours
- HIS 461 - Historiography, 4 credit hours

Note:

Students may waive HIS 1011 by completing 3 courses from content area A below.

Students may waive HIS 1021 by completing 3 courses from content area D below.

Students may waive HIS 151 by completing 3 courses from content area B below.

Students may waive HIS 152 by completing 3 courses from content area C below.

Content Area Elective Courses:

Complete at least 15 credit hours from the content areas listed below. At least one course is required from content areas A, B, C, & D below.

a. World Studies 750 B.C. to 1600 A.D.: (Choose at least one)

- HIS 2211 - Europe: From Black Death to French Revolution, 3 credit hours
- HIS 2881 - Islamic History 600-1800, 3 credit hours
- HIS 321 - Classical Antiquity to the Fall of Rome, 3 credit hours

- HIS 322 - Medieval Europe to the Black Death, 3 credit hours
- HIS 344I - Early Russia, 3 credit hours

b. U.S. Studies from 1492 to 1877: (Choose at least one)

- HIS 350 - Colonial America, 3 credit hours
- HIS 351 - The American Revolution, 3 credit hours
- HIS 352 - Jefferson-Jackson, 3 credit hours
- HIS 353 - U.S. Civil War, 3 credit hours

c. American History 1877 - Present: (Choose at least one)

- HIS 250D - African-American History, 3 credit hours
- HIS 354 - U.S. Reform and War, 1876-1920, 3 credit hours
- HIS 355 - Modern America: 1920-1945, 3 credit hours
- HIS 356 - Recent America: 1945-present, 3 credit hours

d. Modern World History: (Choose at least one)

- HIS 222I - Europe: From Revolution to World War and Globalization, 3 credit hours
- HIS 227I - History of Africa, 3 credit hours
- HIS 270I - Latin America, 3 credit hours
- HIS 292I - History of East Asia II, 3 credit hours
- HIS 323 - Enlightenment, French Revolution, and Napoleon, 3 credit hours
- HIS 342 - World War I, 3 credit hours
- HIS 343 - The Second World War, 3 credit hours
- HIS 345I - Imperial Russia, 3 credit hours
- HIS 346I - Modern Russia, 3 credit hours
- HIS 349I - Modern Britain, 3 credit hours
- HIS 389I - The Modern Middle East, 4 credit hours

e. Contemporary World Issues: (Optional Electives)

- HIS 205 - History and the Environment: Global Perspectives, 3 credit hours
- HIS 381I - The Arab-Israeli Conflicts, 4 credit hours

Emphasis:

Candidates who wish to specialize in a Social Studies teaching field may also complete one Integrated Social Studies Teacher Emphasis Programs.

## **Public History, B.A.**

Baldwin Wallace University's Public History Major is the first such major in the State of Ohio. The major in Public History is intended to prepare students for careers that involve presenting history to the general public. These students are trained to work in museums, archives, and historical societies. This major is intensively experiential: much of the coursework takes place in archives and local museums, and there is a required internship. Students will develop knowledge of history and art history, hone their skills of written and oral presentation, and apply those skills in the field using appropriate digital media. A passing score on the History Department Comprehensive Examination is required.

**Minimum Credits Required: 46**

Required Courses:

- CAS 112 - Presentational Speaking, 3 credit hours
- PBH 100 - Introduction to Public History, 3 credit hours
- PBH 200X - Introduction to Archives and Museums, 3 credit hours
- PBH 300X - Community Research & Oral History, 3 credit hours
- HIS 461 - Historiography, 4 credit hours
- PBH 497X - Public History Internship, Credit hours to be arranged (at least 2 credit hours required)

Electives in History:

- 5 courses in History above the 100-level, 15 credit hours

Electives in Writing for the Public: (Choose one of the following)

- ENG 305 - Workshop in Advanced Expository and Argumentative Writing, 3 credit hours
- ENG 309(SX) - Grant Writing, 3 credit hours

Electives in Art History: (Choose two of the following)

- ART 102I - Art Appreciation, 3 credit hours
- ART 103D - Art of Our Time, 3 credit hours
- ART 231I - Art History: from Caves to Cathedrals, 3 credit hours
- ART 232I - Art History: from Renaissance to Modernism, 3 credit hours
- ART 234 - Survey of American Art from Colonial Times to 1945, 3 credit hours

Electives in Media Applications for Public History: (Choose two of the following)

- ART 220 - Digital Photography, 2 credit hours
- ART 225 - Introduction to Photoshop, 2 credit hours
- CAS 316 - Social Media Fundamentals, 3 credit hours
- CAS 415 - Studies in Public Relations, 3 credit hours
- CSC 135 - Introduction to Web Site Development, 3 credit hours
- CSC 141 - Advanced Applications for Information Analysis, 3 credit hours

## **Social Science: Integrated Social Studies Teacher Education**

This major may only be taken as a double major with Education: Adolescent and Young Adult (7-12), B.S.Ed.

**Minimum Credits Required: 44**

Required Courses:

- HIS 101I - World Civilizations I: Ancient to Medieval, 3 credit hours
- HIS 102I - World Civilizations II: Imperialism and World War, 3 credit hours
- HIS 151 - History of the United States I, 3 credit hours
- HIS 152 - History of the United States II, 3 credit hours
- POL 101D - U.S. Government and Politics, 3 credit hours
- SOC 100D - Principles of Sociology, 3 credit hours
- GEO 121 - Physical Geography, 4 credit hours

- ECN 121 - Principles of Microeconomics, 3 credit hours
- ECN 122 - Principles of Macroeconomics, 3 credit hours

Social Science Content Area Elective Courses:

Complete at least 16 credit hours from the content areas listed below. At least one course is required from content areas B, C, D, E, F, & G below.

A. Grade 7 Teaching Content Depth- Civics and Democratic Processes:

- POL 131 - Democracy and Citizenship, 3 credit hours

B. Grade 8 Teaching Content Depth- Government and Human Systems: (Choose at least one)

- POL 131 - Democracy and Citizenship, 3 credit hours
- POL 301 - Congress, The Presidency, and Elections, 3 credit hours
- POL 307 - Constitutional Law, 3 credit hours
- CRJ 309 - Criminal Law and the Constitution, 3 credit hours
- SOC 323 - Sociology of Law, 3 credit hours
- PSY 339 - Social Psychology, 4 credit hours
- ECN 354 - Law and Economics, 3 credit hours

C. High School Teaching Content Depth- Civic Participation, Government, and the Economy: (Choose at least one)

- POL 131 - Democracy and Citizenship, 3 credit hours
- POL 301 - Congress, The Presidency, and Elections, 3 credit hours
- POL 303 - Public Policy and Administration, 3 credit hours
- POL 307 - Constitutional Law, 3 credit hours
- POL 308 - Civil Rights and Liberties, 3 credit hours
- POL 310 - U.S. Political Economy, 3 credit hours
- CRJ 277 - Race, Gender & Justice, 3 credit hours
- CRJ 309 - Criminal Law and the Constitution, 3 credit hours
- SOC 301D - Social Inequalities, 3 credit hours
- ECN 352 - Public Finance, 3 credit hours

D. High School Teaching Content Depth- Economics and Financial Literacy: (Choose at least one)

- MTH 279 - Basic Statistical Methods, 3 credit hours
- ECN 365I - International Economics, 3 credit hours
- FNC 243W - Personal Finance, 3 credit hours

E. High School Teaching Content Depth- Contemporary World Issues: (Choose at least one)

- ECN 358 - Environmental Economics, 3 credit hours
- ECN 365I - International Economics, 3 credit hours
- INT 200I - Introduction to International Studies, 3 credit hours
- POL 211I - International Politics, 3 credit hours
- POL 315 - International Organizations (with POL 216X), 3-6 credit hours
- POL 306 - Social Media and Politics, 3 credit hours
- POL 311 - American Foreign Policy, 3 credit hours
- POL 331 - History of Political Philosophy II: Early Modern and Modern, 3 credit hours
- POL 333D - Contemporary Political Voices at the Margins, 3 credit hours
- PSY 245D - Multicultural Psychology, 3-4 credit hours

- SOC 201D - Social Problems, 4 credit hours
- SOC 288 - Environmental Sociology, 3 credit hours
- SOC 386 - Global Perspectives, 4 credit hours
- SUS 205 - Environmental Policy, 3 credit hours

F. High School Teaching Content Depth- World Geography/ Use of Human Spaces: (Choose at least one)

- ECN 356D - Urban & Regional Economics, 3 credit hours
- ECN 362 - Economics of Developing Countries, 3 credit hours
- ECN 365I - International Economics, 3 credit hours
- GEO 205 - Geographic Information Systems, 4 credit hours
- POL 304D - Urban Policy and Politics, 3 credit hours
- SOC 303I - Urban Community Life, 4 credit hours

G. Disciplinary Inquiry and Reporting: (Choose at least one)

- MTH 279 - Basic Statistical Methods, 3 credit hours
- ECN 320/321 - Research Methods and Design/ Data Analysis Lab, 3 credit hours
- POL 240 - Research Design and Methods, 4 credit hours
- PSY 380 - Research Methods, 4 credit hours
- SOC 280 - Research Methods, 4 credit hours

Emphasis:

Candidates who wish to specialize in a Social Studies teaching field may also complete one Integrated Social Studies Teacher Emphasis Programs.

## Minors

### History Minor

A minor in history consists of a minimum of 18 credit hours (six courses with prefix HIS). At least four courses must be taken at the 200-400 level. Students may specialize in a field in which our faculty provide depth (U.S., Britain, Russia, East Asia, or Middle East), or design a program that is evenly balanced between European, American, and non-Western courses. Students are encouraged to consult with a member of the History Department to develop a program appropriate for their career plans.

### Public History Minor

The Public History minor requires a minimum of 19 credit hours, courses include:

Required Courses:

- PBH 100 - Introduction to Public History, 3 credit hours
- PBH 200X - Introduction to Archives and Museums, 3 credit hours

Electives in History and Public History:

Complete two of the following:

- PBH 250 - America's National Parks, 3 credit hours
- PBH 300X - Community Research & Oral History, 3 credit hours
- HIS 151 - History of the United States I, 3 credit hours
- HIS 152 - History of the United States II, 3 credit hours

- HIS 250D - African-American History, 3 credit hours
- HIS 260(D) - Topics in History, 3-4 credit hours (when a U.S. topic)
- HIS 267 - Vietnam War: Causes and Consequences, 3 credit hours
- HIS 350 - Colonial America, 3 credit hours
- HIS 351 - The American Revolution, 3 credit hours
- HIS 352 - Jefferson-Jackson, 3 credit hours
- HIS 353 - U.S. Civil War, 3 credit hours
- HIS 354 - U.S. Reform and War, 1876-1920, 3 credit hours
- HIS 355 - Modern America: 1920-1945, 3 credit hours
- HIS 356 - Recent America: 1945-present, 3 credit hours
- HIS 360(X) - An In-depth Study of Topics in History, 3-4 credit hours (when a U.S. topic)

Writing for the Public:

Complete one of the following:

- CAS 232 - Workshop in Journalism, 3 credit hours
- ENG 305 - Workshop in Advanced Expository and Argumentative Writing, 3 credit hours
- ENG 309(SX) - Grant Writing, 3 credit hours

Electives for Public History:

Complete two of the following:

- ART 102I - Art Appreciation, 3 credit hours
- ART 103D - Art of Our Time, 3 credit hours
- ART 220 - Digital Photography, 2 credit hours
- ART 225 - Introduction to Photoshop, 2 credit hours
- ART 231I - Art History: from Caves to Cathedrals, 3 credit hours
- ART 232I - Art History: from Renaissance to Modernism, 3 credit hours
- ART 234 - Survey of American Art from Colonial Times to 1945, 3 credit hours
- ART 235I - Topics in Non-Western Art, 3 credit hours
- ART 236I - Modern Art, 1850-1950, 3 credit hours
- ART 240 - Graphic Design I, 2 credit hours
- ART 261 - Typography, 2 credit hours
- CAS 112 - Presentational Speaking, 3 credit hours
- CAS 125 - Event Planning, 3 credit hours
- CAS 222 - Film History, 3 credit hours
- CAS 415 - Studies in Public Relations, 3 credit hours

## Emphasis

### Integrated Social Studies Teacher Emphasis Programs

Teacher candidates who wish to specialize in a social studies teaching field may also complete one of the following emphasis programs:

Economics Emphasis

- ECN 121 - Principles of Microeconomics, 3 credit hours
- ECN 122 - Principles of Macroeconomics, 3 credit hours
- FNC 243W - Personal Finance, 3 credit hours

- MTH 279 - Basic Statistical Methods, 3 credit hours
- ECN 365I - International Economics, 3 credit hours

#### Political Science Emphasis

- POL 101D - U.S. Government and Politics, 3 credit hours
- POL 131 - Democracy and Citizenship, 3 credit hours
- POL 301 - Congress, The Presidency, and Elections, 3 credit hours
- POL 310 - U.S. Political Economy, 3 credit hours
- POL 311 - American Foreign Policy, 3 credit hours

#### Psychology Emphasis

- PSY 100 - Principles of Psychological Science, 3 credit hours
- PSY 325 - Adolescent Development, 4 credit hours

And choose three of the following:

- PSY 245D - Multicultural Psychology, 3-4 credit hours
- PSY 302 - Psychological Disorders, 4 credit hours
- PSY 304 - Personality Psychology, 4 credit hours
- PSY 339 - Social Psychology, 4 credit hours

#### Sociology Emphasis

- SOC 100D - Principles of Sociology, 3 credit hours
- SOC 201D - Social Problems, 4 credit hours
- SOC 280 - Research Methods, 4 credit hours
- SOC 301D - Social Inequalities, 3 credit hours

And choose one of the following:

- SOC 303I - Urban Community Life, 4 credit hours
- SOC 315 - Sociological Theory, 3 credit hours

#### Early U.S. History Emphasis

- HIS 151 - History of the United States I, 3 credit hours

And choose five of the following:

- HIS 210 - Ohio History, 3 credit hours
- HIS 250D - African-American History, 3 credit hours
- HIS 350 - Colonial America, 3 credit hours
- HIS 351 - The American Revolution, 3 credit hours
- HIS 352 - Jefferson-Jackson, 3 credit hours
- HIS 353 - U.S. Civil War, 3 credit hours

#### Modern U.S. History Emphasis

- HIS 152 - History of the United States II, 3 credit hours

And choose five of the following:

- HIS 250D - African-American History, 3 credit hours
- HIS 267 - Vietnam War: Causes and Consequences, 3 credit hours
- HIS 354 - U.S. Reform and War, 1876-1920, 3 credit hours
- HIS 355 - Modern America: 1920-1945, 3 credit hours



- HIS 356 - Recent America: 1945-present, 3 credit hours
- HIS 360(X) - Civil Rights Movement, 3 credit hours

#### World Studies to 1600 Emphasis

- HIS 1011 - World Civilizations I: Ancient to Medieval, 3 credit hours

And choose five of the following:

- HIS 2211 - Europe: From Black Death to French Revolution, 3 credit hours
- HIS 2881 - Islamic History 600-1800, 3 credit hours
- HIS 2911 - History of East Asia I, 3 credit hours
- HIS 321 - Classical Antiquity to the Fall of Rome, 3 credit hours
- HIS 322 - Medieval Europe to the Black Death, 3 credit hours
- HIS 3441 - Early Russia, 3 credit hours

#### Modern World History Emphasis

- HIS 1021 - World Civilizations II: Imperialism and World War, 3 credit hours

And choose five of the following:

- HIS 2271 - History of Africa, 3 credit hours
- HIS 2361 - Women in Asian Civilizations, 3 credit hours
- HIS 2701 - Latin America, 3 credit hours
- HIS 2921 - History of East Asia II, 3 credit hours
- HIS 323 - Enlightenment, French Revolution, and Napoleon, 3 credit hours
- HIS 342 - World War I, 3 credit hours
- HIS 343 - The Second World War, 3 credit hours
- HIS 3451 - Imperial Russia, 3 credit hours
- HIS 3461 - Modern Russia, 3 credit hours
- HIS 3491 - Modern Britain, 3 credit hours
- HIS 3811 - The Arab-Israeli Conflicts, 4 credit hours
- HIS 3891 - The Modern Middle East, 4 credit hours

#### European History Emphasis

Choose six of the following:

- HIS 2211 - Europe: From Black Death to French Revolution, 3 credit hours
- HIS 2221 - Europe: From Revolution to World War and Globalization, 3 credit hours
- HIS 235 - Women in Western Civilization, 3 credit hours
- HIS 2451 - Survey of Russian History, 3 credit hours
- HIS 322 - Medieval Europe to the Black Death, 3 credit hours
- HIS 323 - Enlightenment, French Revolution, and Napoleon, 3 credit hours
- HIS 3441 - Early Russia, 3 credit hours
- HIS 3451 - Imperial Russia, 3 credit hours
- HIS 3461 - Modern Russia, 3 credit hours
- HIS 3491 - Modern Britain, 3 credit hours

#### Contemporary World Issues Emphasis

Choose six of the following:

- ECN 358 - Environmental Economics, 3 credit hours
- HIS 205 - History and the Environment: Global Perspectives, 3 credit hours
- HIS 3811 - The Arab-Israeli Conflicts, 4 credit hours
- INT 2001 - Introduction to International Studies, 3 credit hours

- POL 311 - American Foreign Policy, 3 credit hours
- POL 315 - International Organization, 3 credit hours (with POL 216X)

## Concentration

### History Concentrations

History majors may choose to specialize in one or more historical subfields among the Department's particular strengths – American, British/West European, Middle Eastern/Islamic, Military, Asian, or Russian History– or in a thematic area that crosses these geographical boundaries, by taking at least three relevant upper-division courses. At least one concentration is required of History majors, and students may choose to complete multiple concentrations.

**For all concentrations, HIS 260(D) and HIS 360(X): Topics in History; HIS 463 Seminar in History; HIS 491, 492: Departmental Thesis/Project; and transfer courses may be counted where appropriate. Note: The same three courses may not be used to complete two separate concentrations that happen to have overlapping requirements. In such cases, the student needs to complete four courses, rather than three, in one of the two concentrations.**

The concentrations are as follows:

#### Ancient and Medieval History Concentration

- HIS 288I - Islamic History 600-1800, 3 credit hours
- HIS 291I - History of East Asia I, 3 credit hours
- HIS 321 - Classical Antiquity to the Fall of Rome, 3 credit hours
- HIS 322 - Medieval Europe to the Black Death, 3 credit hours
- HIS 344I - Early Russia, 3 credit hours

#### Asian History Concentration

- HIS 236I - Women in Asian Civilizations, 3 credit hours
- HIS 267 - Vietnam War: Causes and Consequences, 3 credit hours
- HIS 291I - History of East Asia I, 3 credit hours
- HIS 292I - History of East Asia II, 3 credit hours

#### European History Concentration

- HIS 221I - Europe: From Black Death to French Revolution, 3 credit hours
- HIS 222I - Europe: From Revolution to World War and Globalization, 3 credit hours
- HIS 235 - Women in Western Civilization, 3 credit hours
- HIS 321 - Classical Antiquity to the Fall of Rome, 3 credit hours
- HIS 322 - Medieval Europe to the Black Death, 3 credit hours
- HIS 323 - Enlightenment, French Revolution, and Napoleon, 3 credit hours
- HIS 342 - World War I, 3 credit hours
- HIS 343 - The Second World War, 3 credit hours
- HIS 349I - Modern Britain, 3 credit hours

#### History of War Concentration

- HIS 267 - Vietnam War: Causes and Consequences, 3 credit hours
- HIS 339 - History of War, 3 credit hours
- HIS 342 - World War I, 3 credit hours
- HIS 343 - The Second World War, 3 credit hours

- HIS 351 - The American Revolution, 3 credit hours
- HIS 353 - U.S. Civil War, 3 credit hours
- HIS 3811 - The Arab-Israeli Conflicts, 4 credit hours

#### Middle Eastern History Concentration

- HIS 236I - Women in Asian Civilizations, 3 credit hours
- HIS 288I - Islamic History 600-1800, 3 credit hours
- HIS 3811 - The Arab-Israeli Conflicts, 4 credit hours
- HIS 389I - The Modern Middle East, 4 credit hours

#### Modern World History Concentration

- HIS 205 - History and the Environment: Global Perspectives, 3 credit hours
- HIS 221I - Europe: From Black Death to French Revolution, 3 credit hours
- HIS 222I - Europe: From Revolution to World War and Globalization, 3 credit hours
- HIS 227I - History of Africa, 3 credit hours
- HIS 235 - Women in Western Civilization, 3 credit hours
- HIS 267 - Vietnam War: Causes and Consequences, 3 credit hours
- HIS 270I - Latin America, 3 credit hours
- HIS 292I - History of East Asia II, 3 credit hours
- HIS 342 - World War I, 3 credit hours
- HIS 343 - The Second World War, 3 credit hours
- HIS 345I - Imperial Russia, 3 credit hours
- HIS 346I - Modern Russia, 3 credit hours
- HIS 349I - Modern Britain, 3 credit hours
- HIS 3811 - The Arab-Israeli Conflicts, 4 credit hours
- HIS 389I - The Modern Middle East, 4 credit hours

#### History of Revolution Concentration

- HIS 245I - Survey of Russian History, 3 credit hours
- HIS 270I - Latin America, 3 credit hours
- HIS 323 - Enlightenment, French Revolution, and Napoleon, 3 credit hours
- HIS 346I - Modern Russia, 3 credit hours
- HIS 351 - The American Revolution, 3 credit hours
- HIS 389I - The Modern Middle East, 4 credit hours

#### Russian History Concentration

- HIS 245I - Survey of Russian History, 3 credit hours
- HIS 344I - Early Russia, 3 credit hours
- HIS 345I - Imperial Russia, 3 credit hours
- HIS 346I - Modern Russia, 3 credit hours

#### Early U.S. History Concentration

- HIS 250D - African-American History, 3 credit hours
- HIS 350 - Colonial America, 3 credit hours
- HIS 351 - The American Revolution, 3 credit hours
- HIS 352 - Jefferson-Jackson, 3 credit hours
- HIS 353 - U.S. Civil War, 3 credit hours

#### Modern U.S. History Concentration

- HIS 250D - African-American History, 3 credit hours
- HIS 267 - Vietnam War: Causes and Consequences, 3 credit hours
- HIS 354 - U.S. Reform and War, 1876-1920, 3 credit hours
- HIS 355 - Modern America: 1920-1945, 3 credit hours
- HIS 356 - Recent America: 1945-present, 3 credit hours

#### U.S. History Concentration

- HIS 210 - Ohio History, 3 credit hours
- HIS 250D - African-American History, 3 credit hours
- HIS 267 - Vietnam War: Causes and Consequences, 3 credit hours
- HIS 350 - Colonial America, 3 credit hours
- HIS 351 - The American Revolution, 3 credit hours
- HIS 352 - Jefferson-Jackson, 3 credit hours
- HIS 353 - U.S. Civil War, 3 credit hours
- HIS 354 - U.S. Reform and War, 1876-1920, 3 credit hours
- HIS 355 - Modern America: 1920-1945, 3 credit hours
- HIS 356 - Recent America: 1945-present, 3 credit hours

# Honors

## Honors Program

The Honors Program prepares students with the 21st century skills needed to address the complex problems facing our communities and our world. To that end, the Honors curriculum will assist all students in developing transferable skills in independent thinking and research. These outcomes encourage students to understand multiple perspectives, conduct serious investigations into important questions, and develop their own well-informed voices. Additionally, students will select one of three focused areas of skill development to enhance their versatility and career readiness—study of a non-English language and culture outside of the US, data programming, or statistics. These skills—representing the humanities, STEM, and social sciences—ensure that all Honors Program graduates leave BW ready to live meaningful lives, provide substantial value to organizations, and continue their education at the most distinguished institutions.

Any student with sophomore standing and a minimum 3.5 GPA can register for Honors courses without special permission. Other students interested in Honors courses should contact the Associate Dean of Honors and Scholars.

### **Minimum Credits Required: 24-30**

Requirements:

Problem Solving:

Take one of the following

- MTH 151H - Contemporary Mathematics- Honors, 3 credit hours **OR**
- PHY 102H - Quantitative Problem Solving- Honors, 3 credit hours **OR**
- PHY 104H - General Problem Solving Techniques- Honors, 3 credit hours **OR**
- MTH 142 - Calculus II, 4 credit hours

World Language:

- Complete one year (two semesters) of study in a non-English language.

Required Concentration:

Choose one of the following concentrations

Intermediate/Advanced World Language Concentration:

Take two additional semesters of a single non-English language at the 201 level or above.

Statistics Concentration:

Take one course at each level

Level I-

- MTH 105 - Introduction to Probability and Statistics, 3 credit hours **OR**
- MTH 108 - Biostatistics, 3 credit hours **OR**
- MTH 235 - Probability & Statistics for Scientists & Engineers, 3 credit hours **OR**
- PSY 278 - Elements of Statistics, 4 credit hours **OR**
- MTH 279 - Basic Statistical Methods, 3 credit hours **OR**
- FNC 280 - Applied Financial Statistics, 3 credit hours

Level II-

- MTH 106 - Introductory Statistics II, 3 credit hours **OR**
- FNC 485 - Empirical Methods in Finance, 3 credit hours

Data Programming Concentration:

Take one course at each level

Level I-

- CSC 210 - Computer Science I: Programs and Applications, 3 credit hours **OR**
- CSC 211 - Introduction to Programming in Python, 3 credit hours **OR**
- CSC 212 - Intro to Programming for Scientists & Engineers, 3 credit hours

Level II-

- CSC 280 - Data Systems, 3 credit hours

Honors Electives:

Complete a minimum of three additional Honors courses. Elective options may include:

- All courses with an HON prefix (topic may not be repeated, but course number may).<sup>2</sup>
- Any University core course with an "H" after the course number (*examples*: ENG-131H)<sup>2</sup>
- Honors Option<sup>3</sup>

Thesis/Senior Project:

Complete a thesis or senior project under the supervision of a faculty mentor.<sup>1</sup>

Notes:

<sup>1</sup> Departmental thesis will fulfill this requirement (See Honors Program Director).

<sup>2</sup> HON 491/492, Honors Thesis, do not count as additional Honors courses. FYE 100H does not count as an Honors course. MUC 111H, 112H, 113H, 114H, 211H and 212H are being phased-out and do not count in this version of the Honors curriculum.

<sup>3</sup> Successfully completed Honors Options will be indicated as HON 010, Honors Project, zero credit, on your transcript. Honors Options connected to 3-4 credit courses can be used to fulfill any number of Honors elective courses.

Admission into the Honors Program:

- (1) An entering student who meets criteria for candidacy will receive an invitation to apply to the Honors Program. These criteria include superior high school grade point average, rigorous coursework in high school, and other criteria relevant to academic performance.
- (2) Current first year students who show outstanding promise in their first term at BW can be nominated by faculty or can submit their own names for consideration to be admitted to the program as second-semester freshmen.
- (3) Transfer students can request admission to the Honors Program through Admissions or by contacting the Office of Honors and Scholars directly. Those who have taken Honors credits at their prior institution can transfer up to 12 credit hours of Honors requirements.

Honors Recognition:

All courses in the Honors Program must be taken for a letter grade, A+ through F; they may not be taken on an S/U basis. Students who successfully complete the required Honors curriculum and who have achieved a cumulative grade point average of 3.0 or higher will, upon graduation, receive appropriate recognition on their transcripts. Students will also be awarded the special Honors Program regalia to be worn at graduation.

# Industrial and Organizational Psychology

## Majors

### Industrial and Organizational Psychology

The Industrial and Organizational Psychology Major (I/O) will fulfill the needs of students seeking to gain knowledge and skills that will prepare them for graduate school and/or for a position in a business environment in an area of human resource management such as employee selection, assessment, training or other areas managing worker productivity and behavior. The I/O major is offered as an additional major for students with a first major in any Business discipline or Psychology. The I/O major builds upon the knowledge and skills developed in their first major.

**Minimum Credits Required: 34**

Required Courses:

**Business majors must take:**

- PSY 100 - Principles of Psychological Science, 3 credit hours

**Psychology majors must take:**

- BUS 108 - Introduction to Business, 3 credit hours

**All students must take:**

- MGT 310 - Human Resource Management, 3 credit hours
- PSY 301 - Psychological Testing, 4 credit hours
- PSY 320 - Industrial/Organizational Psychology, 4 credit hours
- PSY 380 - Research Methods, 4 credit hours
- MGT 494 - Industrial and Organizational Capstone Project, 4 credit hours crosslisted as
- PSY 494 - Industrial and Organizational Capstone Project, 4 credit hours

Elective Courses:

*Elective courses cannot be used to fulfill the requirements of both the student's primary major and the I/O major.*

**Choose one of the following courses:**

- PSY 321 - Human Relations and Group Dynamics, 3 credit hours
- MGT 409D - Behavioral Theories of Management, 3 credit hours

**Choose three of the following courses:**

- BUS 358 - Business Communications, 3 credit hours
- MGT 411 - Compensation, 3 credit hours
- MGT 412 - Employment Law, 3 credit hours
- MGT 413 - Staffing and Development, 3 credit hours
- PSY 304 - Personality Psychology, 4 credit hours
- PSY 328 - Cognitive Processes, 4 credit hours
- PSY 339 - Social Psychology, 4 credit hours

## International Studies

The interdisciplinary majors in international studies are designed to assist the student in learning to analyze complex global issues, to function successfully in an international environment and to develop intercultural sensitivity to the human context in which international interactions take place. Students may choose to major or minor in International Studies or National Security and fulfill the requirements outlined here.

**The International Studies major** provides a broad-based background plus study of a second language to prepare for a range of career options in diplomacy, international business, education, media, law, banking, international governmental and nongovernmental organizations and tourism. All students take the Introduction to International Studies course INT 200I which develops an understanding of the interaction of multiple factors which underlie many of today's global problems and also INT 250I which explores the security issues which challenge governments today. Students will also investigate the important role of governments internationally and select courses which deepen understanding of humans and the earth, the historical setting in which interactions take place, the increasing importance of culture, society and economic issues. Students may choose a specialization by choosing a minor in Latin America, Asian Studies, African Studies or Middle East and North Africa or self-designed concentration in a functional area focused on international business/economics, foreign policy/diplomacy or history/society/culture. All students select a research methods course and a special topics capstone seminar which focuses on current problems of international concern and includes a research project on a topic of choice.

**The National Security major** provides a more specialized foundation for evaluating both domestic and global threats to security and the related problems associated with governance, violence and war, health and the environment in today's interdependent world. The major is oriented to understanding the impact of advancing technology combined with the human and cultural factors which complicate decision-making on issues related to risk. This major is appropriate for motivated critical thinkers with an interest in security-related careers oriented to foreign policy, intelligence or law enforcement at the national or local levels or in the emerging areas of business and service organizations which support the maintenance of national security. All students will take an introductory course in Security, Technology and Threat Assessment (INT 250I), develop skills in doing an integrated country analysis (INT 200I) and focus on U.S. homeland security (POL 101D) and related research, quantitative and analytical skills. Students will also select courses from a variety of academic disciplines which provide a more in-depth look at particular types of 21st century security issues related to military, environmental and health problems. In each area, students will select a combination of entry level and 300-400 level courses appropriate to the students' personal and professional interests in consultation with their advisor. All students will also complete a research project focused on security in a capstone seminar.

Both majors prepare students for globally oriented careers and/or graduate school. Recent graduates are employed by the U.S. government at the State Department, NSA, CIA, Defense, Federal Air Marshals, Homeland Security, Customs, Peace Corps, or in various branches of the military as well as many nongovernmental organizations.

Minors in any discipline represented in the majors, are recommended as are foreign language, math or science.

## Majors

### International Studies, B.A.

**Minimum Credits Required: 34-56 (depending on prerequisites and language proficiency)**

Required courses:

All students are required to complete:

- INT 200I - Introduction to International Studies, 3 credit hours
- INT 250I - Security, Technology and Threat Assessment, 3 credit hours
- INT 463 - Senior Capstone Seminar, 3 credit hours

In order to provide an interdisciplinary basis for understanding global issues all students will choose one course from:



Group 1 emphasizing role of governments

- POL 211I - International Politics, 3 credit hours
- OR**
- POL 221I - Intro to Comparative Politics, 3 credit hours

Plus one course from three of the four groups which follow:

Group 2 emphasizing humans' relation to the earth

- GEO 111 - The Dynamic Earth, 4 credit hours
- GEO 121 - Physical Geography, 4 credit hours
- GEO 150 - Regional Geology & Geography, 2 credit hours
- GEO 227 - Environmental Geology, 3 credit hours
- GEO 229 - Oceanography, 3 credit hours
- HIS 205 - History and the Environment: Global Perspectives, 3 credit hours
- SUS 150 - Humans & The Earth: Can We Coexist?, 3 credit hours
- SUS 205 - Environmental Policy, 3 credit hours

Group 3 emphasizing historical setting

- HIS 227I - History of Africa, 3 credit hours
- HIS 245I - Survey of Russian History, 3 credit hours
- HIS 267 - Vietnam War: Causes and Consequences, 3 credit hours
- HIS 288I - Islamic History 600-1800, 3 credit hours
- HIS 291I - History of East Asia I, 3 credit hours
- HIS 292I - History of East Asia II, 3 credit hours

Group 4 emphasizing culture & society

- AFR 200D - Introduction to Africana Studies, 3 credit hours
- ASN 100I - Understanding Asia, 4 credit hours
- ART 232I - Art History: from Renaissance to Modernism, 3 credit hours
- ART 235I - Topics in Non-Western Art, 3 credit hours
- LAM 200 - Understanding Latin America, 3 credit hours
- REL 106I - Religions of Asia, 3 credit hours
- REL 201I - Buddhist Culture in Asia, 3 credit hours
- REL 215I - Death and the Afterlife in the World's Religions, 3 credit hours
- REL 216I - Religion, Gender, and Sexuality, 3 credit hours
- REL 217I - Religion, Violence & Peace, 3 credit hours
- REL 219I - Religion and the Environment, 3 credit hours
- SOC 270I - Terrorism: Roots and Responses, 3 credit hours
- HIS 235 - Women in Western Civilization, 3 credit hours
- HIS 236I - Women in Asian Civilizations, 3 credit hours
- GER 240I - Contemporary Germany & Austria, 3 credit hours
- GER 275I - Introduction to Visual Culture, 4 credit hours
- FRN 240I - Contemporary France, 3 credit hours
- FRN 305I - French Connections: Literature, Society, and the Arts, 4 credit hours
- SPN 240I - Contemporary Spain and Latin America, 3 credit hours
- SPN 265D - Latino Culture in the United States, 3 credit hours

Group 5 emphasizing economic issues

- ECN 365I - International Economics, 3 credit hours

Additional Courses:

**The student should select four electives from among the courses listed below.** All students are required to complete a research methods course as one of the electives. Special topic courses and interdisciplinary INT seminars may be substituted with the approval of the International Studies advisor. Students are responsible for meeting any prerequisites which exist within departments for upper level courses listed below.

Choose three of the following from at least two different disciplines:

- ART 236I - Modern Art, 1850-1950, 3 credit hours
- BUS 310I - International Business, 3 credit hours
- MGT 329 - Organizational Ethics, 3 credit hours
- MGT 350 - Green Business, 3 credit hours
- BUS 351I - Global Strategies, 3 credit hours
- MKT 436I - International Marketing, 3 credit hours
- FNC 444I - International Financial Management, 3 credit hours
- ECN 358 - Environmental Economics, 3 credit hours
- ECN 362 - Economics of Developing Countries, 3 credit hours
- ECN 365I - International Economics, 3 credit hours
- ENG 335 - Studies in World Literature, 3 credit hours
- FRN 310I - The Making of France, 3 credit hours
- FRN 311I - The Francophone World, 3 credit hours
- FRN 375I - French Inventions of Love, 3 credit hours
- FRN 376I - Selfhood and Otherness in Modern French Writings, 3 credit hours
- GER 310I - German Civilization, 3 credit hours
- GER 375I - Introduction to Studies in Early German Literature, 3 credit hours
- GER 376I - Studies in Modern German Literature, 3 credit hours
- HIS 270I - Latin America, 3 credit hours
- HIS 323 - Enlightenment, French Revolution, and Napoleon, 3 credit hours
- HIS 339 - History of War, 3 credit hours
- HIS 342 - World War I, 3 credit hours
- HIS 344I - Early Russia, 3 credit hours
- HIS 345I - Imperial Russia, 3 credit hours
- HIS 346I - Modern Russia, 3 credit hours
- HIS 349I - Modern Britain, 3 credit hours
- HIS 360(X) - An In-depth Study of Topics in History, 3-4 credit hours
- HIS 381I - The Arab-Israeli Conflicts, 4 credit hours
- HIS 389I - The Modern Middle East, 4 credit hours
- POL 311 - American Foreign Policy, 3 credit hours
- POL 314 - Comparative Foreign Relations, 3 credit hours
- POL 315 - International Organization, 3 credit hours
- POL 321 - Democracy and Democratization, 3 credit hours
- POL 323I - Politics of the Middle East, 3 credit hours
- POL 326 - Special Comparative Political Studies, 2-3 credit hours
- POL 329 - Politics and Governance in Africa, 3 credit hours
- SOC 386 - Global Perspectives, 4 credit hours
- SPN 310I - Spanish Culture and Civilization, 3 credit hours
- SPN 311I - Spanish-American Civilization, 3 credit hours
- SPN 375I - Survey of Spanish Literature, 3 credit hours
- SPN 376I - Survey of Spanish-American Literature, 3 credit hours

Choose one of the following research options:

- ECN 464 - Research Seminar, 3 credit hours
- HIS 461 - Historiography, 4 credit hours
- INT 491 - Senior Thesis, Credit hours to be arranged
- POL 240 - Research Design and Methods, 4 credit hours
- SOC 280 - Research Methods, 4 credit hours

**Notes:**

**International Studies majors are required to demonstrate knowledge of at least one foreign language, that is, a language other than their native language.** Students must complete foreign language courses equivalent to two semesters of University level classes with the starting class dependent on a placement test administered by the Department of Foreign Languages and Literature (DFLL). Students who choose a language without prior knowledge may satisfy the requirement with two introductory level courses, i.e. 101 and 102. Students who have some prior knowledge of language (for example, in high school) must take the placement test offered in DFLL and enroll in 2 semesters of language according to their placement. Transfer students who have received passing grades in language at another institution can satisfy the language requirement using these classes. The language requirement may also be satisfied by completing a study abroad program containing a language component. Those students with any prior knowledge of a foreign language must be evaluated by the DFLL before enrolling in a DFLL course. Languages offered at BW which may be utilized to fulfill the requirement include Spanish, French, German, Chinese, Arabic, Italian and Portuguese. Non-native speakers of English complete the International Studies foreign language requirement by using English to attain a degree from Baldwin Wallace. Students presenting competence in other languages or encountering problems when needed courses are not available at BW should see the Chair of the Department of Foreign Languages and Literature; who is available for help in establishing a program that ensures timely completion of the language requirement. International Studies majors are strongly urged to study abroad.

**INT 463 Senior Capstone Seminar - Each student takes an interdisciplinary capstone seminar focused on the analysis of contemporary global problems and requiring integration of knowledge from diverse fields of study.** A research project is required. The seminar, which may be team-taught, will be offered spring semester by professors in the departments associated with the International Studies major, and will deal with selected topics chosen by the professor(s) offering the course. Consult the course schedule for relevant departments, time and topics. A student may repeat the seminar provided the topics covered are different. It is suggested that students register for the seminar in the junior or senior year after completing the basic requirements, though they may do so at any time with the consent of the instructor(s) involved.

## **National Security, B.A.**

**Minimum Credits Required: 52**

Major Requirements:

- INT 200I - Introduction to International Studies, 3 credit hours
- INT 250I - Security, Technology and Threat Assessment, 3 credit hours
- INT 463 - Senior Capstone Seminar, 3 credit hours
- POL 101D - U.S. Government and Politics, 3 credit hours

Homeland Security: choose 2 of the following including at least one 300-400 level course

- SOC 206 - Crime in Organizations, 3 credit hours
- CRJ 265 - Policing in Society, 3 credit hours
- POL 303 - Public Policy and Administration, 3 credit hours
- POL 306 - Social Media and Politics, 3 credit hours
- POL 307 - Constitutional Law, 3 credit hours
- POL 308 - Civil Rights and Liberties, 3 credit hours
- CRJ 309 - Criminal Law and the Constitution, 3 credit hours

- POL 311 - American Foreign Policy, 3 credit hours

Military Security: choose 2 of the following including at least one 300-400 level course

- CAS 315 - Crisis Communication, 3 credit hours
- HIS 339 - History of War, 3 credit hours
- HIS 342 - World War I, 3 credit hours
- HIS 343 - The Second World War, 3 credit hours
- HIS 3811 - The Arab-Israeli Conflicts, 4 credit hours
- HIS 3891 - The Modern Middle East, 4 credit hours
- PHL 2721 - International Ethics, 3 credit hours
- PHY 103 - Sci & Hist on Development of Nuclear Weapons in WWII, 3 credit hours
- SOC 2701 - Terrorism: Roots and Responses, 3 credit hours

Environmental Security: choose 2 of the following from different disciplines

- ECN 358 - Environmental Economics, 3 credit hours
- GEO 121 - Physical Geography, 4 credit hours
- GEO 205 - Geographic Information Systems, 4 credit hours
- GEO 227 - Environmental Geology, 3 credit hours
- HIS 205 - History and the Environment: Global Perspectives, 3 credit hours
- PHY 112 - Energy and the Future, 3 credit hours
- REL 2191 - Religion and the Environment, 3 credit hours
- SOC 288 - Environmental Sociology, 3 credit hours
- SUS 150 - Humans & The Earth: Can We Coexist?, 3 credit hours
- SUS 205 - Environmental Policy, 3 credit hours
- SUS/PHL 273(X) - Environmental Ethics, 3 credit hours

Health Security: choose 2 of the following including at least one 200-400 level course

- PHT 170 - Introduction to Public Health, 3 credit hours
- PHT 173 - Global Health, 3 credit hours
- PHT 274 - Environmental Health, 3 credit hours
- PHT 285 - Fundamentals of GIS, 3 credit hours
- PHT 290 - Epidemiology: Measuring Health and Disease, 3 credit hours
- PHT 370 - Health Policy & Public Health, 3 credit hours

Global Context in which Security Threats Develop: choose 2 of the following including at least one 300-400 level course

- ECN 362 - Economics of Developing Countries, 3 credit hours
  - ECN 365I - International Economics, 3 credit hours
  - POL 2111 - International Politics, 3 credit hours
  - POL 2211 - Intro to Comparative Politics, 3 credit hours
  - POL 263 - Seminar in Political Science, 1-3 credit hours
- OR**
- POL 326 - Special Comparative Political Studies, 2-3 credit hours
  - POL 315 - International Organization, 3 credit hours
  - POL 321 - Democracy and Democratization, 3 credit hours
  - POL 323I - Politics of the Middle East, 3 credit hours
  - POL 329 - Politics and Governance in Africa, 3 credit hours
  - REL 2171 - Religion, Violence & Peace, 3 credit hours
  - SOC 301D - Social Inequalities, 3 credit hours

- SOC 386 - Global Perspectives, 4 credit hours

Quantitative Analysis: choose 2 of the following

- MTH 279 - Basic Statistical Methods, 3 credit hours  
**OR**  
PSY 278 - Elements of Statistics, 4 credit hours
- ECN 344 - Game Theory, 3 credit hours
- MTH 108 - Biostatistics, 3 credit hours
- SOC 281 - Data Analysis Using PASW, 4 credit hours

Research Options: choose 1 of the following

- ECN 464 - Research Seminar, 3 credit hours
- INT 491 - Senior Thesis, Credit hours to be arranged
- POL 240 - Research Design and Methods, 4 credit hours
- SOC 280 - Research Methods, 4 credit hours
- POL 441X - Public Interest Research, 4 credit hours
- HIS 461 - Historiography, 4 credit hours
- HIS 491 - Senior Thesis, Credit hours to be arranged
- HIS 492 - Departmental Thesis/project, Credit hours to be arranged

Note: A student may repeat the INT 463 capstone seminar provided the topics covered are different. It is suggested that students register for the seminar in the junior or senior year after completing the basic requirements, though they may do so at any time with the consent of the instructor(s) involved.

## Minors

### International Studies Minor

**Minimum Credits Required: 18**

Requirements:

The requirements for a minor in International Studies are:

- INT 200I - Introduction to International Studies, 3 credit hours
- One (1) course from three of the five groups (1-5) listed in the International Studies, B.A. major, 9-12 credit hours
- Two (2) 300-400 courses from two different disciplines chosen from the upper level electives listed in the International Studies, B.A. major or from INT interdisciplinary seminar offerings, 6-8 credit hours

Additional Information

Elective courses appropriate to the student's interests should be chosen in consultation with one of the members of the Committee Supervising the International Studies Major. At least a year's study of a related foreign language is highly recommended.

## National Security Minor

Minimum Credits Required: 26

Requirements:

The requirements for a minor in National Security are:

- INT 250I - Security, Technology and Threat Assessment, 3 credit hours
- POL 101D - U.S. Government and Politics, 3 credit hours

Homeland Security Elective (choose one of the following):

- POL 303 - Public Policy and Administration, 3 credit hours
- POL 306 - Social Media and Politics, 3 credit hours
- POL 307 - Constitutional Law, 3 credit hours
- POL 308 - Civil Rights and Liberties, 3 credit hours
- CRJ 309 - Criminal Law and the Constitution, 3 credit hours
- POL 311 - American Foreign Policy, 3 credit hours
- SOC 206 - Crime in Organizations, 3 credit hours

All students in consultation with their advisor will meet requirements from **two** of the following areas: Military Security, Environmental Security, Health Security or Global Context in which Security Threats Develop listed in the National Security, B.A..

Quantitative Analysis (choose one of the following):

- ECN 344 - Game Theory, 3 credit hours
- MTH 108 - Biostatistics, 3 credit hours
- MTH 279 - Basic Statistical Methods, 3 credit hours
- PSY 278 - Elements of Statistics, 4 credit hours
- SOC 281 - Data Analysis Using PASW, 4 credit hours

Research Options (choose one of the following):

- ECN 464 - Research Seminar, 3 credit hours
- HIS 461 - Historiography, 4 credit hours
- HIS 491 - Senior Thesis, Credit hours to be arranged
- INT 491 - Senior Thesis, Credit hours to be arranged
- POL 240 - Research Design and Methods, 4 credit hours
- POL 441X - Public Interest Research, 4 credit hours
- SOC 280 - Research Methods, 4 credit hours

# Latin American Studies

## Minors

### Latin American Studies Minor

This minor is designed to reflect the interdisciplinary nature of the study of Latin American. The minor is delivered through a hands on approach that encompasses a set of predefined experiential learning opportunities that expose students to the problems of getting to know other cultures and becoming familiar with the attitudes and skill sets needed to understand cultures different from ones own.

Students must earn a minimum of 19-22 credit hours distributed among the following requirements to complete the Latin American Studies minor.

Requirements:

*LAM 200-Understanding Latin America:* This course will be taught in English, with discussion sections available in Spanish and Portuguese depending student interest. The course could also be team taught by professors from different departments. LAM 200 will both introduce and structure the minor. Students must complete LAM 200 before participating in a study abroad experience.

- LAM 200 - Understanding Latin America, 3 credit hours

Foreign Language Requirement:

LAM minors are required to complete foreign language coursework equivalent to one-semester of university level classes in Spanish or Portuguese starting with the class indicated by a placement test administered by the Department of Foreign Languages at BW. Students interested in fulfilling the foreign language requirement with coursework in Portuguese are strongly encouraged to enroll in the Brazilian Portuguese for Foreigners program at FAE Centro Universitário un Curitiba, Brazil. Students with native speaking ability are exempt from the language requirement. Students who complete university level language coursework elsewhere must show transcript that includes such a course. Students who are exempt from language requirement are strongly encouraged to take a 3-credit hour elective course in Spanish or Portuguese to complete the minimum requirement of the 19 credit hours.

Interdisciplinary Coursework in Latin America: (choose 2 courses from 2 disciplines)

In order to provide an interdisciplinary basis to understanding Latin America all LAM minors will choose two courses from two disciplines from among the courses listed below. These courses aim to provide LAM minors with a preliminary understanding of historical and current issues affecting Latin America as a region. Students are responsible for meeting any prerequisites which exist for the Spanish courses listed below.

- HIS 270I - Latin America, 3 credit hours
- INT 200I - Introduction to International Studies, 3 credit hours
- POL 250 - Government & Politics in Latin America, 3 credit hours
- SPN 263I - Seminar, 3 credit hours
- SPN 311I - Spanish-American Civilization, 3 credit hours

Area Specific Courses: (6 credits)

The aim of an area-specific course is to expose the LAM minor to particular issues and topics related to a specific region or country of Latin America. Students will have access to these area-specific courses as part of coursework embedded in a BW faculty-led study trip or at a BW-recommended, study abroad program in Latin America.

Unlike minors at most other institutions, LAM minors will be required to complete a study abroad trip either in the form of a faculty-led study trip or by studying at a BW-recommended, semester abroad program in a Latin American

country. Only BW-recommended study abroad programs that automatically carry BW credit will count toward completion of the 6 credit hours requirement in area specific courses. For faculty-led study abroad trips, these area-specific courses will be included as part of the credits that students are required to complete for the study abroad experience. For students who participate in a BW-approved semester abroad program, equivalency for the 6 credits of area-specific courses will be pre-approved by the LAM Advisory Committee.

**Integrative/Culmination Element: (1-3 credits)**

This portion of the LAM minor entails the incorporation of a student's coursework and the study abroad experience in Latin America into an integrative/culmination experience that allows the LAM student to engage in a rich learning opportunity that connects the LAM minor and the student's own academic major or career goals. Below find a non-exhaustive list of how the LAM student can fulfill this portion of the minor:

- Service Learning Project
- Independent Study/Research
- Presentation at Ovation
- Internship/Experiential Learning
- Faculty-Student Collaborative Project
- Research Paper/Capstone Seminar

Students can also complete this integrative/culmination element with coursework or an equivalent experience included in a BW faculty-led study abroad trip. Students must complete the integrative culmination requirement of the LAM minor within six months after returning from the study abroad experience. For LAM minors who participate in a BW-recommended study abroad program in Latin America, the LAM Faculty Advisory Committee will assign a committee member who will serve as a mentor and assist the student to complete the integrative/culmination requirement. The LAM Faculty Advisory Committee will design guidelines to typify what sort of coursework students must complete given the variability in number of credit hours for this component of the minor.



## Mathematics

Mathematics is the fundamental study of how the world works, the generalizations and abstractions underlying all the basic structures of nature and human society. The Department of Mathematics seeks to provide all its students with the theoretical and practical knowledge that will enable them to analyze and solve problems of an increasingly complex nature.

The student who majors in Mathematics has the opportunity to prepare for a career in business, industry, or secondary mathematics teaching by means of programs that coordinate with other departments or divisions on campus. Alternatively, those mathematics majors who choose to do so can readily make the transition to graduate school. Many of our students choose this path by entering graduate schools with assistantships to finance their graduate education.

The student who elects a minor in Mathematics along with a major in another discipline demonstrates an ability for abstract problem solving that will make them more attractive on the career or graduate school path.

All Mathematics courses offered in this department presume that the student has successfully completed 3 years of high school mathematics, including Algebra II and Geometry. Students who have not demonstrated proficiency in these subjects by virtue of their SAT or ACT scores are required to pass a placement test prior to enrolling in most MTH-prefix courses.

The Mathematics Department also cooperates with the Economics Department to offer a major in Mathematical Economics. This combination is particularly appropriate for students seeking to pursue graduate studies in economics. See the Economics Department section for details.

## AP Calculus Credit

A student scoring 3 or better on an AP Calculus exam will be awarded credit as follows:

Score	Exam	Credit Hours	Course Equivalent
3,4,5	AB	4	MTH 141
3,4,5	BC	8	MTH 141, MTH 142

## Majors

### Applied Mathematics, B.S.

**Minimum Credits Required: 60**

Required Courses:

- CAS 112 - Presentational Speaking, 3 credit hours
- CSC 340 - Data Analysis & Visualization, 3 credit hours
- MTH 141 - Calculus I, 4 credit hours
- MTH 142 - Calculus II, 4 credit hours
- MTH 206 - Mathematical Logic and Proof Methods, 3 credit hours
- MTH 211 - Linear Algebra, 3 credit hours
- MTH 243 - Calculus III, 4 credit hours
- MTH 245 - Differential Equations, 3 credit hours

- MTH 271 - Introduction to Mathematical Modeling, 3 credit hours
  - MTH 272 - Numerical Analysis, 3 credit hours
  - MTH 307 - Introduction to Operations Research, 3 credit hours
  - MTH 465 - Senior Seminar I, 3 credit hours
- OR**
- CSC 210 - Computer Science I: Programs and Applications, 3 credit hours
- OR**
- CSC 212 - Intro to Programming for Scientists & Engineers, 3 credit hours
- OR**
- CSC 280 - Data Systems, 3 credit hours
- OR**
- CSC 380 - Database: Theory, Application, & Administration, 3 credit hours
- OR**
- MTH 235 - Probability & Statistics for Scientists & Engineers, 3 credit hours
- OR**
- MTH 406 - Mathematical Statistics, 3 credit hours
- OR**
- MTH 466X - Senior Seminar II, 3 credit hours
- OR**
- MTH 498X - Internship, Credit hours to be arranged

At least one of the following courses:

- MTH 302 - Number Theory, 3 credit hours
- MTH 313 - Applied Analysis, 3 credit hours
- MTH 315 - College Geometry, 3 credit hours
- MTH 409 - Real Analysis, 4 credit hours
- MTH 411 - Abstract Algebra, 4 credit hours

At least one of the following pairings of two courses:

- BIO 121 - Principles of Biology I, 4 credit hours
  - BIO 122 - Principles of Biology II, 4 credit hours
- OR**
- CHM 111 - General Chemistry I, 4 credit hours
  - CHM 112 - General Chemistry II, 3 credit hours
- OR**
- ECN 121 - Principles of Microeconomics, 3 credit hours
  - ECN 122 - Principles of Macroeconomics, 3 credit hours
- OR**
- PHT 275 - Infectious Disease & Epidemics, 3 credit hours
  - PHT 290 - Epidemiology: Measuring Health and Disease, 3 credit hours
- OR**
- PHY 131 - Physics for Scientists and Engineers I, 4 credit hours
  - PHY 132 - Physics for Scientists and Engineers II, 4 credit hours
- OR**
- One year long sequence of courses, subject to departmental approval

## **Mathematics, B.S.**

**Minimum Credits Required: 50**

Required courses:

- CAS 112 - Presentational Speaking, 3 credit hours
  - MTH 141 - Calculus I, 4 credit hours
  - MTH 142 - Calculus II, 4 credit hours
  - MTH 206 - Mathematical Logic and Proof Methods, 3 credit hours
  - MTH 211 - Linear Algebra, 3 credit hours
  - MTH 243 - Calculus III, 4 credit hours
  - MTH 409 - Real Analysis, 4 credit hours
  - MTH 411 - Abstract Algebra, 4 credit hours
  - MTH 464X - Senior Capstone Experience, 3 credit hours
- 
- CSC 210 - Computer Science I: Programs and Applications, 3 credit hours
- OR**
- CSC 212 - Intro to Programming for Scientists & Engineers, 3 credit hours
- 
- MTH 235 - Probability & Statistics for Scientists & Engineers, 3 credit hours
- OR**
- MTH 406 - Mathematical Statistics, 3 credit hours

Math Electives: (12 credit hours required)

- Complete 3 math elective credit hours above the MTH 201 level
- Complete 9 math elective credit hours above the MTH 300 level

Note(s):

Computer applications are emphasized in many of the courses in mathematics. Therefore, students are urged to take CSC 210/CSC 212 early in their academic program.

Any independent study courses must have departmental approval to be 200-level or above prior to the beginning of the semester it is taken for credit.

Licensure for Secondary Teaching

Students seeking secondary school licensure in mathematics are required to complete the AYA Major and the required mathematics content courses of this major. See the Education Department section for details.

## **Minors**

### **Mathematics Minor**

**Minimum Credits Required: 17**

Requirements:

- MTH 141 - Calculus I, 4 credit hours
- MTH 142 - Calculus II, 4 credit hours
- 9 additional MTH credits numbered above 201

Note:

Any independent study courses must have departmental approval to be 200-level or above prior to the beginning of the semester it is taken for credit.

## Statistics Minor

### Why a minor in Statistics?

The demand for statistical specialists has been growing very rapidly. The growth of the internet has spawned an explosion in the collection of data. Therefore there is a rapidly expanding interest in using this data to support decisions. This in turn has created a great demand for statistical specialists.

Evidence of this demand is provided by data from the Bureau of Labor Statistics. For the occupation "Statisticians", the BLS forecasts 13.1% employment growth for the decade 2008-18. Further, a keyword search at the BLS site for "data analysis" returns ten occupations across a variety of fields with employment growth forecasts ranging from 17% to 53% over the 2008-18 period. For all of these BLS occupations, the median annual wages are rated "very high", or in one case, "high".

The statistics specialist is expected to have rudimentary knowledge in an area of application, so this proposed program marries the strength of a student in an applied area with specialized knowledge in the application of statistics. It goes beyond the basic knowledge that every major might be expected to have.

The minor in Statistics consists of a core of required courses and an elective capstone course.

### Minimum Credits Required: 16

Required courses:

- MTH 106 - Introductory Statistics II, 3 credit hours
- MTH 141 - Calculus I, 4 credit hours
- FNC 485 - Empirical Methods in Finance, 3 credit hours
- Complete a research project with a faculty mentor. The project will consist of a written report detailing the collection of data and application of valid statistical analyses. This can be completed as part of a course, independent study, faculty-student collaboration, etc. Approval of the project must be granted by the Chair of the Mathematics Department.

Introductory Statistics (choose one of the following):

- MTH 105 - Introduction to Probability and Statistics, 3 credit hours
- MTH 108 - Biostatistics, 3 credit hours
- MTH 235 - Probability & Statistics for Scientists & Engineers, 3 credit hours <sup>1</sup>
- PSY 278 - Elements of Statistics, 4 credit hours
- MTH 279 - Basic Statistical Methods, 3 credit hours
- FNC 280 - Applied Financial Statistics, 3 credit hours

Statistical Computing (choose one of the following):

- MTH 235 - Probability & Statistics for Scientists & Engineers, 3 credit hours <sup>1</sup>
- PSY 279 - Laboratory in Statistical Methods, 3 credit hours
- SOC 281 - Data Analysis Using PASW, 4 credit hours
- MTH 406 - Mathematical Statistics, 3 credit hours

<sup>1</sup> MTH 235 cannot be used to fulfill both the Introductory Statistics and Statistical Computing categories.

# Middle Eastern and North African Studies

## Minors

### Middle Eastern and North African Studies Minor

This interdisciplinary minor allows students to demonstrate expertise in the Middle Eastern and North African regions of the world.

**Minimum Credits Required: 21**

Foreign Language:

Two semesters of foreign language. Arabic is preferred, but French or Spanish may be approved as appropriate for the student's area study plans. Students with native fluency may appeal for exemption.

Elective Courses:

Elective courses selected from the menu below. TWO of the elective courses must be at the 300-400 level.

- ECN 362 - Economics of Developing Countries, 3 credit hours
- FRN 311I - The Francophone World, 3 credit hours
- HIS 236I - Women in Asian Civilizations, 3 credit hours
- HIS 288I - Islamic History 600-1800, 3 credit hours
- HIS 381I - The Arab-Israeli Conflicts, 4 credit hours
- HIS 389I - The Modern Middle East, 4 credit hours
- INT 200I - Introduction to International Studies, 3 credit hours
- REL 108I - Islam, 2 credit hours
- REL 110 - Judaism, 3 credit hours
- SOC 270I - Terrorism: Roots and Responses, 3 credit hours
- ARA/FRN Seminar in Franco-Arab Studies, 3 credit hours

Electives in Middle Eastern Studies: (Choose two of the following)

Of the elective courses, TWO courses must be wholly devoted to the study of Middle Eastern history, cultural, or politics, and must be selected from the menu below.

- REL 108I - Islam, 2 credit hours
- HIS 288I - Islamic History 600-1800, 3 credit hours
- HIS 381I - The Arab-Israeli Conflicts, 4 credit hours
- HIS 389I - The Modern Middle East, 4 credit hours
  
- POL 263 - Seminar in Political Science, 1-3 credit hours OR
- POL 363(I) - Seminar in Political Science, 2-3 credit hours (when taught as Middle East Politics), 3 credit hours

Capstone:

Students must complete a capstone thesis or project, XXX 491 or 492 Departmental Thesis of Project, related to the Middle East or North Africa. The project or thesis may be conducted in any department, with the approval of the director of the MENA minor.

Notes:

Topics courses, LAC, or seminars on subjects related to Middle Eastern culture or society may also be counted toward the minor, with the permission of the director of the MENA minor.

We recommend that students have a study abroad experience in the Middle East or North Africa. Courses taken during the study abroad experience may count for the minor and may stand in for area C courses if they are wholly devoted to study of Middle Eastern history, culture, or politics. Students should have the MENA minor director approve plans for coursework to be taken during study abroad.

We recommend that students who do study abroad follow up with further language experience, such as summer immersion programs, translation projects, or target-language research.

# Music

## The Baldwin Wallace University Conservatory of Music

The Conservatory of Music at Baldwin Wallace is an artistic community within a liberal arts university, where the lives of students of all ages are transformed in pursuit of personal and professional excellence through the humanizing discipline of music.

Founded in 1899 by organist and Bach scholar Albert Riemenschneider, the Conservatory offers a professional training program enhanced by a liberal arts curriculum. In this program, students must meet rigorous academic and musical standards and achieve a high level of accomplishment. The Conservatory provides a learning environment small enough for individual attention but also large enough for significant ensemble performing opportunities. The Conservatory is also home for the internationally-known Riemenschneider Bach Institute, the Jones Music Library, the Community Arts School serving 4,000 participants of all ages throughout northeast Ohio, and the Cleveland Music Therapy Consortium. The Conservatory is a fully accredited member of the National Association of Schools of Music and offers the following degrees:

- Bachelor of Music (BM):
  - Music Performance (Instrumental)
  - Music Performance (Keyboard)
  - Music Performance (Voice)
  - Music Theatre
  - Music Theatre Direction
  - Music History and Literature
  - Music Theory
  - Music Composition
  - Music Therapy
- Bachelor of Music Education (BME)
- Bachelor of Arts (BA)
  - Music
  - Music Industry

These Conservatory of Music degree programs are designed for students with outstanding talent and a desire to pursue music as a profession or advanced graduate study. Double majors and/or double-degree programs may be pursued in consultation with the Conservatory Academic Affairs office, and usually require additional semesters of study. An Emphasis program may be combined with a music major and could require additional semesters of study.

Non-majors are encouraged to enroll in Conservatory survey courses, private study and/or ensembles (by audition). Please see individual course descriptions for more information about these opportunities.

## Requirements for Graduation

In addition to completing successfully all course and non-course requirements for their specific degrees and majors, all Conservatory students must complete the following:

1. Performance attendance - 6 semesters (4 semesters for BA in Music; 2 semesters for BA in Music Industry).
2. Departmental recitals - Mandatory during all semesters of Primary Instrument private study.
3. Jury examinations - Number and timing determined by individual departments.
4. Piano proficiency – Secondary piano study required (for all non-piano primaries) every semester until requisite proficiency level is attained; a total of 4 semesters of secondary instrument required for all majors except Music Theatre and BA in Music (2 semesters). Music Industry major has no secondary instrument requirement.

5. Ensemble participation - Number of semesters varies by major; particular ensemble assignments determined by audition on the primary instrument:
  - Wind and percussion players - wind bands
  - String players - orchestra
  - Singers - choirs
  - Guitarists- ensemble determined according to secondary instrument or voice
  - Piano performance majors - major ensemble during freshman year and Collaborative Piano during remaining three years
  - Organ performance majors - three years of major ensemble and one year of Collaborative Piano
  - Other majors with keyboard as primary instrument - ensemble assignment determined according to secondary instrument or voice.
  - Qualified students may participate in more than one ensemble per semester.
6. Sophomore review - Assessment of students' academic and musical progress; requirements determined according to each major or by department. (Not required for the BA in Music or the BA in Music Industry).
7. GPA of 3.0 in primary instrument in addition to the University requirement of an overall GPA of 2.0. Not required for the BA in Music or Music Industry major.
8. In accordance with University policy, a maximum of four credits of D grades in MUC courses. (Some majors have additional requirements; see specific curricular listings.)

## Community Arts School

The Community Arts School (CAS) is a non-degree-granting divisional school that offers quality arts education to University students, faculty, staff and community members. The Community Arts School calendar aligns with the campus academic year, consisting of two semesters (fall and spring) and a flexible summer session. Community Arts School faculty include full-time and adjunct members of the Baldwin Wallace University faculty as well as student instructors who have successfully completed pedagogy requirements.

Students of all ages and levels can receive group class instruction in dance, music, theatre, and visual arts. Singers and instrumentalists may audition for placement in a wide array of large ensembles (choirs, bands, and orchestras) and chamber ensembles. Private Lessons in dance, music, and theatre are also available.

The Community Arts School also offers a wide range of summer arts programs for middle and high school students in addition to professional development courses for music educators. Contact the Community Arts School office at 440/826-2365, [cas@bw.edu](mailto:cas@bw.edu), or [www.bwcommunityarts.bw.edu](http://www.bwcommunityarts.bw.edu) for more information.

## Majors

### Music Composition, B.M.

**Minimum Total Credits Required: 120**

Minimum Music Credits Required: 93

- MUC 001 - Performance Attendance, 0 credit hours (6 semesters)
- MUC 002 - Departmental Recital, 0 credit hours (6 semesters)
- MUA 101 - ICTUS (Introduction to Conservatory Training, Understanding, and Skills), 2 credit hours
- MUC 101 - Primary Instrument: Private Lessons, 1 credit hours<sup>1</sup>
- MUC 102 - Primary Instrument: Private Lessons, 1 credit hours<sup>1</sup>
- MUC 106 - Freshmen Composition Lessons 1, 3 credit hours
- MUC 107 - Freshmen Composition Lessons 2, 3 credit hours
- MUA 110 - Theory 1, 2 credit hours
- MUC 110 - Music Technology and Notation, 1 credit hour



- MUC 116 - Introduction to Composition 1, 2 credit hours
- MUC 117 - Introduction to Composition 2, 2 credit hours
- MUA 120 - Aural Skills 1, 2 credit hours
- MUC 133 - Keyboard Musicianship 1, 1 credit hour <sup>2</sup>
- MUC 134 - Keyboard Musicianship 2, 1 credit hour <sup>2</sup>
- MUC 201 - Primary Instrument: Private Lessons, 1 credit hours<sup>1</sup>
- MUC 202 - Primary Instrument: Private Lessons, 1 credit hours<sup>1</sup>
- MUC 205 - Major Ensembles, 1 credit hour <sup>3</sup>
- MUA 210 - Theory 2, 2 credit hours
- MUC 215 - Composition Seminar, 0 credit hours (8 semesters)
- MUC 216 - Composition Lessons 1, 3 credit hours
- MUC 217 - Composition Lessons 2, 3 credit hours
- MUA 220 - Aural Skills 2, 2 credit hours
- MUC 233 - Keyboard Musicianship 3, 1 credit hour <sup>2</sup>
- MUC 234 - Keyboard Musicianship 4, 1 credit hour <sup>2</sup>
- MUA 240 - Music History & Literature 1, 3 credit hours
- MUA 241I - Music History & Literature 2, 3 credit hours
- MUA 242 - Music History & Literature 3, 3 credit hours
- MUC 291 - Conducting, 2 credit hours
- MUC 301 - Primary Instrument: Private Lessons, 1 credit hours<sup>1</sup>
- MUC 302 - Primary Instrument: Private Lessons, 1 credit hours<sup>1</sup>
- MUC 309 - Entrepreneurship and Advocacy, 1 credit hour
- MUC 315 - Electronic Music, 2 credit hours
- MUC 316 - Composition Lessons 3, 3 credit hours
- MUC 317 - Composition Lessons 4, 3 credit hours
- MUC 318 - Instrumentation and Orchestration, 2 credit hours
- MUC 320 - Advanced Electronic and Computer Music, 2 credit hours
- MUA 340 - Topics in Music History, 3 credit hours
- MUC 415 - Contemporary Composition Techniques, 2 credit hours
- MUC 416 - Composition Lessons 5, 3 credit hours
- MUC 417 - Composition Lessons 6, 3 credit hours
- MUC 418X - Senior Composition Recital, 1 credit hour <sup>4</sup>
- Music Electives, 4 credit hours<sup>5</sup>

Academic Studies Electives: Choose 8 credit hours from the following-

- MUA 213 - Counterpoint, 2 credit hours
- MUA 310 - Advanced Chromatic Theory, 2 credit hours
- MUA 320 - Advanced Chromatic Aural Skills, 2 credit hours
- MUA 330 - Form and Analysis, 2 credit hours
- MUA 410 - Theory of Music Since 1900, 2 credit hours
- MUA 420 - Post-Tonal Aural Skills, 2 credit hours

Minimum Liberal Arts Credits Required: 27

- ENG 131 - Workshop in Exposition and Argument, 3 credit hours
- MTH 101 - Mathematics Modeling & Quantitative Analysis, 3 credit hours or higher
- FYE 100 - First-Year Experience, 1 credit hour

- HPE Wellness Courses, 2 credit hours
- Foreign Language, 8 credit hours<sup>6</sup>
- Liberal Arts Electives or Minor Field of Study, 10 credit hours<sup>7</sup>

Notes:

<sup>1</sup> One credit per semester for 6 semesters. Applied study on major instrument required freshman and sophomore years. Applied study on additional instruments, as determined by composition instructor, may replace applied major in junior and senior years.

<sup>2</sup> Secondary instrument is piano until Proficiency 4 is achieved. Depending upon placement results, piano study may occur in classes, lessons, or a combination. If the requisite proficiency is achieved in fewer than 4 semesters, continued piano study or study on another instrument is required. Secondary study beyond 4 semesters requires an additional fee.

<sup>3</sup> One credit per semester for 8 semesters.

<sup>4</sup> A full-length recital of original compositions.

<sup>5</sup> An Emphasis Area in music may be substituted for the music elective requirement. Students who have earned 8 credits in required ensemble may count up to 2 additional credits toward the music elective requirement. At least 2 credits of music electives must be at the 300 level or higher.

<sup>6</sup> One year of study of a single foreign language is required. A proficiency exam is administered to determine entry level of foreign language study. Students whose language requirement is reduced may take the equivalent number of credit hours in other liberal arts courses.

<sup>7</sup> See Bachelor of Arts & Sciences Core for more information about Core requirements. Note that specific University core requirements for Humanities, Social Sciences, Natural Sciences, and a minor field of study do not apply to Bachelor of Music degree programs. Students may select to either take ten credits from any areas of the Humanities, Natural Sciences, and/or Social Sciences, or to complete a minor field of study outside of the Conservatory.

## Music Education, B.M.E.

*No more than four credits of D grades may be earned in MUC courses. Students must earn a C or better in courses marked with ^, and must maintain a GPA of 2.8 in the Professional Education sequence, a 3.0 in the Music Education core, and 3.0 overall to student teach. Students are also required to adhere to the standards and expectations of the teacher education program in the School of Education as outlined in the Student Handbook (Education). See Music Education chairperson for further details.*

**Minimum Total Credits Required: 125.5**

Minimum Music Credits Required: 84.5

- MUC 001 - Performance Attendance, 0 credit hours (6 semesters)
- MUC 002 - Departmental Recital, 0 credit hours (7 semesters)
- MUA 101 - ICTUS (Introduction to Conservatory Training, Understanding, and Skills), 2 credit hours
- MUC 101 - Primary Instrument: Private Lessons, 2 credit hours<sup>1</sup>
- MUC 102 - Primary Instrument: Private Lessons, 2 credit hours<sup>1</sup>
- MUA 110 - Theory 1, 2 credit hours
- MUC 110 - Music Technology and Notation, 1 credit hour
- MUA 120 - Aural Skills 1, 2 credit hours
- MUC 133 - Keyboard Musicianship 1, 1 credit hour <sup>2</sup>
- MUC 134 - Keyboard Musicianship 2, 1 credit hour <sup>2</sup>
- MUC 135 - Voice Class, 1 credit hour [instrumentalists only]
- MUC 140 - Singers' Phonetics, 1 credit hour [vocalists only]
- MUC 171X - Introduction to Music Education, 2 credit hours ^
- MUC 201 - Primary Instrument: Private Lessons, 2 credit hours<sup>1</sup>
- MUC 202 - Primary Instrument: Private Lessons, 2 credit hours<sup>1</sup>
- MUC 205 - Major Ensembles, 1 credit hour <sup>3</sup>
- MUA 210 - Theory 2, 2 credit hours

- MUA 220 - Aural Skills 2, 2 credit hours
- MUC 233 - Keyboard Musicianship 3, 1 credit hour <sup>2</sup>
- MUC 234 - Keyboard Musicianship 4, 1 credit hour <sup>2</sup>
- MUC 235 - Keyboard Musicianship for the Practitioner, 1 credit hour [keyboardists only] <sup>6</sup>
- MUA 240 - Music History & Literature 1, 3 credit hours
- MUA 241I - Music History & Literature 2, 3 credit hours
- MUA 242 - Music History & Literature 3, 3 credit hours
- MUC 271 - Teaching Music in a Diverse Society, 2 credit hours <sup>^</sup>
- MUC 278 - Diverse Ensembles for the Music Classroom, 2 credit hours <sup>^</sup>
- MUC 291 - Conducting, 2 credit hours
- MUC 292 - Advanced Conducting, 2 credit hours
- MUC 301 - Primary Instrument: Private Lessons, 2 credit hours<sup>1</sup>
- MUC 302 - Primary Instrument: Private Lessons, 2 credit hours<sup>1</sup>
- MUC 309 - Entrepreneurship and Advocacy, 1 credit hour
- MUC 370 - General Music Methods I, 2 credit hours <sup>^</sup>
- MUC 371 - Choral Music Methods I, 2 credit hours <sup>^</sup>
- MUC 372 - Instrumental Music Methods I, 2 credit hours <sup>^</sup>
- MUC 375 - School Music Program Administration, 2 credit hours <sup>^</sup>
- MUC 401 - Primary Instrument: Private Lessons, 2 credit hours<sup>1</sup>
- MUC 403 - Partial Senior Recital, .5 credit hour
- Music Electives, 4 credit hours
  
- MUC 470 - General Music Methods II, 2 credit hours <sup>^</sup>
- OR**
- MUC 471 - Choral Music Methods II, 2 credit hours <sup>^</sup>
- OR**
- MUC 472 - Instrumental Music Methods II, 2 credit hours <sup>^</sup>

Lower Level Methods:

Complete one of the following course paths based on career aspirations.

Vocalists & General Music Education Students-

- MUC 275 - String Class, 2 credit hours <sup>^</sup>
- MUC 277 - Vocal Methods for the Young Singer, 2 credit hours <sup>^</sup>

And, choose two of the following:

- MUC 273 - Brass Class, 2 credit hours <sup>^</sup>
- MUC 274 - Woodwind Class, 2 credit hours <sup>^</sup>
- MUC 276 - Percussion Class, 2 credit hours <sup>^</sup>

Band Music Education Students-

- MUC 273 - Brass Class, 2 credit hours <sup>^</sup>
- MUC 274 - Woodwind Class, 2 credit hours <sup>^</sup>
- MUC 275 - String Class, 2 credit hours <sup>^</sup>
- MUC 276 - Percussion Class, 2 credit hours <sup>^</sup>

String Music Education Students-

- MUC 131 - Secondary Instrument Levels 1, 1 credit hour (2 semesters required)
- MUC 275 - String Class, 2 credit hours ^

And, choose two of the following:

- MUC 273 - Brass Class, 2 credit hours ^
- MUC 274 - Woodwind Class, 2 credit hours ^
- MUC 276 - Percussion Class, 2 credit hours ^

Upper Level Electives: Choose 5 credit hours from the following-

- MUA 213 - Counterpoint, 2 credit hours
- MUA 222 - Aural Skills & Theory for Music Theatre, 2 credit hours
- MUA 310 - Advanced Chromatic Theory, 2 credit hours
- MUA 320 - Advanced Chromatic Aural Skills, 2 credit hours
- MUA 330 - Form and Analysis, 2 credit hours
- MUA 410 - Theory of Music Since 1900, 2 credit hours
- MUA 420 - Post-Tonal Aural Skills, 2 credit hours

Minimum Liberal Arts Credits Required: 18

- ENG 131 - Workshop in Exposition and Argument, 3 credit hours ^
- MTH 101 - Mathematics Modeling & Quantitative Analysis, 3 credit hours or higher
- FYE 100 - First-Year Experience, 1 credit hour
- PSY 100 - Principles of Psychological Science, 3 credit hours ^
- PSY 205 - Developmental Psychology, 3 credit hours ^
- HPE - Wellness Courses, 2 credit hours
- Liberal Arts and Sciences electives, 3 credit hours<sup>4</sup>

Minimum Education Credits Required: 23

- EDU 103DX - Education of Children with Special Needs, 2 credit hours ^
- EDU 212 - Teaching and Learning, 3 credit hours ^
- EDU 312 - Classroom Learning Environment, 3 credit hours ^
- EDU 348 - Reading in the Content Area, 3 credit hours ^
- EDU 491 - Clinical Practice in Music Education, 9 credit hours ^
- EDU 492 - Senior Capstone Seminar, 3 credit hours<sup>5</sup> ^

Notes:

<sup>1</sup> Two credits per semester for 7 semesters.

<sup>2</sup> Secondary instrument is piano until Proficiency 4 is achieved. Depending upon placement results, piano study may occur in classes, lessons, or a combination. If the requisite proficiency is achieved in fewer than 4 semesters, continued piano study or study on another instrument is required. Secondary study beyond 4 semesters requires an additional fee.

<sup>3</sup> One credit per semester for 7 semesters.

<sup>4</sup> See Bachelor of Arts & Sciences Core for more information about Core requirements. Note that specific University core requirements for Humanities, Social Sciences, Natural Sciences, and a minor field of study do not apply to Bachelor of Music Education degree programs.

<sup>5</sup> Must be taken concurrently with Clinical Practice.

<sup>6</sup> Replaces one semester of private instrument secondary study.

## **Music History and Literature, B.M.**

**Minimum Total Credits Required: 120**

Minimum Music Credits Required: 83

- MUC 001 - Performance Attendance, 0 credit hours (6 semesters)
- MUC 002 - Departmental Recital, 0 credit hours (8 semesters)
- MUA 101 - ICTUS (Introduction to Conservatory Training, Understanding, and Skills), 2 credit hours
- MUC 101 - Primary Instrument: Private Lessons, 3 credit hours<sup>1</sup>
- MUC 102 - Primary Instrument: Private Lessons, 3 credit hours<sup>1</sup>
- MUA 110 - Theory 1, 2 credit hours
- MUC 110 - Music Technology and Notation, 1 credit hour
- MUA 120 - Aural Skills 1, 2 credit hours
- MUC 133 - Keyboard Musicianship 1, 1 credit hour <sup>2</sup>
- MUC 134 - Keyboard Musicianship 2, 1 credit hour <sup>2</sup>
- MUC 201 - Primary Instrument: Private Lessons, 3 credit hours<sup>1</sup>
- MUC 202 - Primary Instrument: Private Lessons, 3 credit hours<sup>1</sup>
- MUC 205 - Major Ensembles, 1 credit hour <sup>3</sup>
- MUA 210 - Theory 2, 2 credit hours
- MUA 220 - Aural Skills 2, 2 credit hours
- MUC 233 - Keyboard Musicianship 3, 1 credit hour <sup>2</sup>
- MUC 234 - Keyboard Musicianship 4, 1 credit hour <sup>2</sup>
- MUA 240 - Music History & Literature 1, 3 credit hours
- MUA 2411 - Music History & Literature 2, 3 credit hours
- MUA 242 - Music History & Literature 3, 3 credit hours
- MUC 301 - Primary Instrument: Private Lessons, 3 credit hours<sup>1</sup>
- MUC 302 - Primary Instrument: Private Lessons, 3 credit hours<sup>1</sup>
- MUC 309 - Entrepreneurship and Advocacy, 1 credit hour
- MUC 329 - Introduction to Research in Music, 2 credit hours
- MUA 340 - Topics in Music History, 3 credit hours
- MUC 401 - Primary Instrument: Private Lessons, 3 credit hours<sup>1</sup>
- MUC 402 - Primary Instrument: Private Lessons, 3 credit hours<sup>1</sup>
- MUC 410 - Thesis Project Presentation, 1 credit hour <sup>4</sup>
- MUC 412 - Music Academic Studies Seminar, 0 credit hours (4 semesters)<sup>5</sup>
- MUC 421 - Thesis Research in Music History, 1 credit hour
- MUC 429X - Music History Practicum, 1 credit hour
- Music Seminars, 6 credit hours<sup>6</sup>
- Music Electives, 4 credit hours<sup>7</sup>

Academic Studies Electives: Choose 8 credit hours from the following-

- MUA 213 - Counterpoint, 2 credit hours
- MUA 310 - Advanced Chromatic Theory, 2 credit hours
- MUA 320 - Advanced Chromatic Aural Skills, 2 credit hours
- MUA 330 - Form and Analysis, 2 credit hours
- MUA 410 - Theory of Music Since 1900, 2 credit hours

- MUA 420 - Post-Tonal Aural Skills, 2 credit hours

Minimum Liberal Arts Credits Required: 37

- ENG 131 - Workshop in Exposition and Argument, 3 credit hours
- MTH 101 - Mathematics Modeling & Quantitative Analysis, 3 credit hours or higher
- FYE 100 - First-Year Experience, 1 credit hour
- HPE - Wellness Courses, 2 credit hours
- Foreign Language, 16 credit hours<sup>8</sup>
- Liberal Arts Electives or Minor Field of Study, 12 credit hours<sup>9</sup>

Notes:

<sup>1</sup> Three credits per semester for 8 semesters.

<sup>2</sup> Secondary instrument is piano until Proficiency 4 is achieved. Depending upon placement results, piano study may occur in classes, lessons, or a combination. If the requisite proficiency is achieved in fewer than 4 semesters, continued piano study or study on another instrument is required. Secondary study beyond 4 semesters requires an additional fee.

<sup>3</sup> One credit per semester for 8 semesters. Must be in an assigned ensemble appropriate to the candidate's major performing area.

<sup>4</sup> Topic determined by student in consultation with Senior Project Advisor and subject to approval by the department.

<sup>5</sup> Take fall and spring semesters of junior and senior years.

<sup>6</sup> Three seminars required. Seminars may be replaced by independent study with permission of advisor.

<sup>7</sup> An Emphasis Area in music may be substituted for the music elective requirement. Students who have earned 8 credits in required ensemble may count up to 2 additional credits toward the music elective requirement. At least 2 credits of music electives must be at the 300 level or higher.

<sup>8</sup> Two years of study of a single foreign language is required. A proficiency exam is administered to determine entry level of foreign language study.

<sup>9</sup> See Bachelor of Arts & Sciences Core for more information about Core requirements. Note that specific University core requirements for Humanities, Social Sciences, Natural Sciences, and a minor field of study do not apply to Bachelor of Music degree programs. Students may select to either take ten credits from any areas of the Humanities, Natural Sciences, and/or Social Sciences, or to complete a minor field of study outside of the Conservatory.

## **Music Industry, B.A.**

**Minimum Credits Required: 57**

Required Courses:

- AMG 102 - Introduction to Arts Management, 3 credit hours
  - AMG 203 - Music Industry I, 3 credit hours
  - AMG 204 - Music Industry II, 3 credit hours
  - AMG 297X - On-campus Internship, 1-2 credit hours (2 credit hours required)
  - AMG 304 - Principles of Marketing for the Music Industry, 3 credit hours
  - AMG 305 - Special Topics, 1-3 credit hours (3 credit hours required)
  - AMG 397X - Internship, 1-3 credit hours (3 credit hours required)
  - AMG 401 - Senior Experience, 1 credit hour
  - AMG 497X - Internship, Credit hours to be arranged (3 credit hours required)
- OR
- ACC 211 - Intro to Financial Accounting, 3 credit hours
  - ACC 213 - Accounting & Finance Essentials, 3 credit hours

- ECN 120 - Survey of Economics, 3 credit hours
- ENT 215 - Innovation & Entrepreneurship, 3 credit hours
- ENT 315 - Managing a Growing Venture, 3 credit hours
- ENT 415X - Entrepreneurship Capstone Experience, 3 credit hours
- MUC 110 - Music Technology and Notation, 1 credit hour
- MUC 205 - Major Ensembles, 1 credit hour (2 credit hours required)
- MUC 224D - History of Jazz, 2 credit hours
- MUC/MUL 312 - Music Copyright Law, Publishing, and Licensing, 3 credit hours
- MUA 242 - Music History & Literature 3, 3 credit hours
- Music Electives, 3 credit hours

Music Industry Electives:

Choose two of the following-

- AMG 202 - Principles & Practices of Arts Management II, 3 credit hours
- AMG 301 - Marketing and Audience Development for the Arts, 3 credit hours
- AMG 302 - Financial Management of Arts Organizations, 3 credit hours
- AMG 303 - Fundraising for the Arts, 3 credit hours
- ART 240 - Graphic Design I, 2 credit hours
- CSC 135 - Introduction to Web Site Development, 3 credit hours
- HTM 342 - Hospitality and Tourism Marketing and Sales, 3 credit hours
- HTM 343 - Customer Experience Management in Hospitality & Tourism, 3 credit hours
- MKT 337 - Digital Marketing, 3 credit hours
- THE 286 - Theatre Management, 2 credit hours

All Music Industry majors are required to complete a Music Minor or second major in music.

## **Music Performance: Instrumental, B.M.**

**Minimum Total Credits Required: 120**

Minimum Music Credits Required: 93

- MUC 001 - Performance Attendance, 0 credit hours (6 semesters)
- MUC 002 - Departmental Recital, 0 credit hours (8 semesters)
- MUA 101 - ICTUS (Introduction to Conservatory Training, Understanding, and Skills), 2 credit hours
- MUC 101 - Primary Instrument: Private Lessons, 4 credit hours<sup>1</sup>
- MUC 102 - Primary Instrument: Private Lessons, 4 credit hours<sup>1</sup>
- MUA 110 - Theory 1, 2 credit hours
- MUC 110 - Music Technology and Notation, 1 credit hour
- MUA 120 - Aural Skills 1, 2 credit hours
- MUC 133 - Keyboard Musicianship 1, 1 credit hour<sup>2</sup>
- MUC 134 - Keyboard Musicianship 2, 1 credit hour<sup>2</sup>
- MUC 201 - Primary Instrument: Private Lessons, 4 credit hours<sup>1</sup>
- MUC 202 - Primary Instrument: Private Lessons, 4 credit hours<sup>1</sup>
- MUC 205 - Major Ensembles, 1 credit hour<sup>3</sup>
- MUC 207 - Chamber Music, 1 credit hour<sup>4</sup>
- MUA 210 - Theory 2, 2 credit hours
- MUA 220 - Aural Skills 2, 2 credit hours
- MUC 233 - Keyboard Musicianship 3, 1 credit hour<sup>2</sup>

- MUC 234 - Keyboard Musicianship 4, 1 credit hour <sup>2</sup>
- MUA 240 - Music History & Literature 1, 3 credit hours
- MUA 2411 - Music History & Literature 2, 3 credit hours
- MUA 242 - Music History & Literature 3, 3 credit hours
- MUC 291 - Conducting, 2 credit hours
- MUC 301 - Primary Instrument: Private Lessons, 4 credit hours<sup>1</sup>
- MUC 302 - Primary Instrument: Private Lessons, 4 credit hours<sup>1</sup>
- MUC 305X - Pedagogy of Music, 3 credit hours
- MUC 308 - Partial Junior Recital, 0 credit hours
- MUC 309 - Entrepreneurship and Advocacy, 1 credit hour
- MUA 340 - Topics in Music History, 3 credit hours
- MUC 401 - Primary Instrument: Private Lessons, 4 credit hours<sup>1</sup>
- MUC 402 - Primary Instrument: Private Lessons, 4 credit hours<sup>1</sup>
- MUC 408 - Full Senior Recital, 0 credit hours
- Music Electives, 6 credit hours<sup>5</sup>

Academic Studies Electives: Choose 8 credit hours from the following-

- MUA 213 - Counterpoint, 2 credit hours
- MUA 310 - Advanced Chromatic Theory, 2 credit hours
- MUA 320 - Advanced Chromatic Aural Skills, 2 credit hours
- MUA 330 - Form and Analysis, 2 credit hours
- MUA 410 - Theory of Music Since 1900, 2 credit hours
- MUA 420 - Post-Tonal Aural Skills, 2 credit hours

Minimum Liberal Arts Credits Required: 27

- ENG 131 - Workshop in Exposition and Argument, 3 credit hours
- MTH 101 - Mathematics Modeling & Quantitative Analysis, 3 credit hours or higher
- FYE 100 - First-Year Experience, 1 credit hour
- HPE - Wellness Courses, 2 credit hours
- Foreign Language, 8 credit hours<sup>6</sup>
- Liberal Arts Electives or Minor Field of Study, 10 credit hours<sup>7</sup>

Notes:

<sup>1</sup> Four credits per semester for 8 semesters.

<sup>2</sup> Secondary instrument is piano until Proficiency 4 is achieved. Depending upon placement results, piano study may occur in classes, lessons, or a combination. If the requisite proficiency is achieved in fewer than 4 semesters, continued piano study or study on another instrument is required. Secondary study beyond 4 semesters requires an additional fee.

<sup>3</sup> One credit per semester for 8 semesters.

<sup>4</sup> Violin, viola, cello, and guitar students take a minimum of 6 credits of Chamber Music. Double bass and harp students take a minimum of 2, and the balance in music electives. Wind players take a minimum of 4 credits of Chamber Music and the balance in music electives. Percussion students substitute 6 credits of Percussion Ensemble for Chamber Music.

<sup>5</sup> An Emphasis Area in music may be substituted for the music elective requirement. Students who have earned 8 credits in required ensemble may count up to four additional credits toward the music elective requirement. At least 2 credits of music electives must be at the 300 level or higher.

<sup>6</sup> A proficiency exam is administered to determine entry level of foreign language study. Students whose language requirement is reduced may take the equivalent number of credit hours in other liberal arts courses.



<sup>7</sup> See Bachelor of Arts & Sciences Core for more information about Core requirements. Note that specific University core requirements for Humanities, Social Sciences, Natural Sciences, and a minor field of study do not apply to Bachelor of Music degree programs. Students may select to either take ten credits from any areas of the Humanities, Natural Sciences, and/or Social Sciences, or to complete a minor field of study outside of the Conservatory.

## **Music Performance: Keyboard, B.M.**

**Minimum Total Credits Required: 120.5**

Minimum Music Credits Required: 91.5

- MUC 001 - Performance Attendance, 0 credit hours (6 semesters)
- MUC 002 - Departmental Recital, 0 credit hours (8 semesters)
- MUA 101 - ICTUS (Introduction to Conservatory Training, Understanding, and Skills), 2 credit hours
- MUC 101 - Primary Instrument: Private Lessons, 4 credit hours<sup>1</sup>
- MUC 102 - Primary Instrument: Private Lessons, 4 credit hours<sup>1</sup>
- MUA 110 - Theory 1, 2 credit hours
- MUC 110 - Music Technology and Notation, 1 credit hour
- MUA 120 - Aural Skills 1, 2 credit hours
- MUC 131 - Secondary Instrument Levels 1, 1 credit hour
- MUC 132 - Secondary Instrument Levels 2, 1 credit hour
- MUC 181 - Sight-Reading, 1 credit hour
- MUC 201 - Primary Instrument: Private Lessons, 4 credit hours<sup>1</sup>
- MUC 202 - Primary Instrument: Private Lessons, 4 credit hours<sup>1</sup>
- MUC 205 - Major Ensembles, 1 credit hour<sup>3</sup>
- MUC 207 - Chamber Music, 1 credit hour (pianists only):(0-4 semesters)<sup>4</sup>
- MUA 210 - Theory 2, 2 credit hours
- MUA 220 - Aural Skills 2, 2 credit hours
- MUC 231 - Secondary Instrument Levels 3, 1 credit hour
- MUC 232 - Secondary Instrument Levels 4, 1 credit hour (pianists only)<sup>2</sup>
- MUA 240 - Music History & Literature 1, 3 credit hours
- MUA 241I - Music History & Literature 2, 3 credit hours
- MUA 242 - Music History & Literature 3, 3 credit hours
- MUC 283 - Collaborative Piano, 1 credit hour (pianists only):(2-6 semesters)<sup>4</sup>
- MUC 283 - Collaborative Piano, 1 credit hour (organists only):(2 semesters)
- MUC 291 - Conducting, 2 credit hours
- MUC 301 - Primary Instrument: Private Lessons, 4 credit hours<sup>1</sup>
- MUC 302 - Primary Instrument: Private Lessons, 4 credit hours<sup>1</sup>
- MUC 303 - Partial Junior Recital, .5 credit hour
- MUC 305X - Pedagogy of Music, 3 credit hours
- MUC 309 - Entrepreneurship and Advocacy, 1 credit hour
- MUA 340 - Topics in Music History, 3 credit hours
- MUC 385 - Preparation for the Church Musician, 3 credit hours (organists only)
- MUC 401 - Primary Instrument: Private Lessons, 4 credit hours<sup>1</sup>
- MUC 402 - Primary Instrument: Private Lessons, 4 credit hours<sup>1</sup>
- MUC 404 - Full Senior Recital, 1 credit hour
- Music Electives (pianists only), 8 credit hours<sup>5</sup>
- Music Electives (organists only), 6 credit hours<sup>5</sup>

Academic Studies Electives: Choose 8 credit hours from the following-

- MUA 213 - Counterpoint, 2 credit hours
- MUA 310 - Advanced Chromatic Theory, 2 credit hours
- MUA 320 - Advanced Chromatic Aural Skills, 2 credit hours
- MUA 330 - Form and Analysis, 2 credit hours
- MUA 410 - Theory of Music Since 1900, 2 credit hours
- MUA 420 - Post-Tonal Aural Skills, 2 credit hours

Minimum Liberal Arts Credits Required: 29

- ENG 131 - Workshop in Exposition and Argument, 3 credit hours
- MTH 101 - Mathematics Modeling & Quantitative Analysis, 3 credit hours or higher
- FYE 100 - First-Year Experience, 1 credit hour
- HPE - Wellness Courses, 2 credit hours
- Foreign Language, 8 credit hours<sup>6</sup>
- Liberal Arts Electives or Minor Field of Study, 12 credit hours<sup>7</sup>

Notes:

<sup>1</sup> Four credits per semester for 8 semesters. All piano primaries must pass Proficiency 4.

<sup>2</sup> Secondary instrument for pianists may be chosen from organ, harpsichord, voice, or an orchestral instrument.

Organists take piano until Proficiency 4 is achieved. Secondary study beyond 4 semesters requires an additional fee.

<sup>3</sup> For pianists, participation in a major ensemble is required for 2 semesters during the freshman year. For organists, participation in a major ensemble is required for a total of 6 semesters.

<sup>4</sup> Pianists must take two credits of Collaborative Piano in the first two years, and may then take any combination of Collaborative Piano and Chamber Music to complete the six credits.

<sup>5</sup> An Emphasis Area in music may be substituted for the music elective requirement. Students who have earned 8 credits in required ensemble may count up to 2 additional credits toward the music elective requirement. At least 2 credits of music electives must be at the 300 level or higher.

<sup>6</sup> A proficiency exam is administered to determine entry level of foreign language study. Students whose language requirement is reduced may take the equivalent number of credit hours in other liberal arts courses.

<sup>7</sup> See Bachelor of Arts & Sciences Core for more information about Core requirements. Note that specific University core requirements for Humanities, Social Sciences, Natural Sciences, and a minor field of study do not apply to Bachelor of Music degree programs. Students may select to either take ten credits from any areas of the Humanities, Natural Sciences, and/or Social Sciences, or to complete a minor field of study outside of the Conservatory.

## **Music Performance: Voice, B.M.**

**Minimum Total Credits Required: 123**

Minimum Music Credits Required: 88

- MUC 001 - Performance Attendance, 0 credit hours (6 semesters)
- MUC 002 - Departmental Recital, 0 credit hours (8 semesters)
- MUA 101 - ICTUS (Introduction to Conservatory Training, Understanding, and Skills), 2 credit hours
- MUC 101 - Primary Instrument: Private Lessons, 3 credit hours<sup>1</sup>
- MUC 102 - Primary Instrument: Private Lessons, 3 credit hours<sup>1</sup>
- MUA 110 - Theory 1, 2 credit hours
- MUC 110 - Music Technology and Notation, 1 credit hour
- MUA 120 - Aural Skills 1, 2 credit hours
- MUC 133 - Keyboard Musicianship 1, 1 credit hour <sup>2</sup>
- MUC 134 - Keyboard Musicianship 2, 1 credit hour <sup>2</sup>
- MUC 141 - Singers' Diction and Literature 1, 2 credit hours

- MUC 142 - Singers' Diction and Literature 2, 2 credit hours
- MUC 147 - Voice Performance Workshop 1: Acting/ Movement/ Music 1, 1 credit hour
- MUC 148 - Voice Performance Workshop 2: Acting/ Movement/ Music 2, 1 credit hour
- MUC 201 - Primary Instrument: Private Lessons, 3 credit hours<sup>1</sup>
- MUC 202 - Primary Instrument: Private Lessons, 3 credit hours<sup>1</sup>
- MUC 205 - Major Ensembles, 1 credit hour<sup>3</sup>
- MUA 210 - Theory 2, 2 credit hours
- MUA 220 - Aural Skills 2, 2 credit hours
- MUC 233 - Keyboard Musicianship 3, 1 credit hour<sup>2</sup>
- MUC 234 - Keyboard Musicianship 4, 1 credit hour<sup>2</sup>
- MUA 240 - Music History & Literature 1, 3 credit hours
- MUA 241I - Music History & Literature 2, 3 credit hours
- MUC 241 - Singers' Diction and Literature 3, 2 credit hours
- MUA 242 - Music History & Literature 3, 3 credit hours
- MUC 242 - Singer's Diction and Literature 4, 2 credit hours
- MUC 247 - Voice Performance Workshop 3: Acting/ Movement/ Music 3, 1 credit hour
- MUC 248 - Voice Performance Workshop 4: Music Theater - Dance/ Style/ Performance Technique, 1 credit hour
- MUC 301 - Primary Instrument: Private Lessons, 3 credit hours<sup>1</sup>
- MUC 302 - Primary Instrument: Private Lessons, 3 credit hours<sup>1</sup>
- MUC 308 - Partial Junior Recital, 0 credit hours
- MUC 309 - Entrepreneurship and Advocacy, 1 credit hour
- MUA 340 - Topics in Music History, 3 credit hours
- MUC 340 - Vocal Pedagogy 1, 2 credit hours
- MUC 347 - Voice Performance Workshop 5: Scenes and Period Style - Baroque, Bel Canto and Romantic, 1 credit hour
- MUC 348 - Voice Performance Workshop 6: Scenes and Period Style - Classical and Contemporary, 1 credit hour
- MUC 401 - Primary Instrument: Private Lessons, 3 credit hours<sup>1</sup>
- MUC 402 - Primary Instrument: Private Lessons, 3 credit hours<sup>1</sup>
- MUC 408 - Full Senior Recital, 0 credit hours
- MUC 447 - Voice Performance Workshop 7: Advanced Audition Preparation 1, 1 credit hour
- MUC 448X - Voice Performance Workshop 8: Advanced Audition Preparation 2 with Final Project, 1 credit hour
- Music Electives, 2 credit hours<sup>4</sup>

Academic Studies Electives: Choose 8 credit hours from the following-

- MUA 213 - Counterpoint, 2 credit hours
- MUA 310 - Advanced Chromatic Theory, 2 credit hours
- MUA 320 - Advanced Chromatic Aural Skills, 2 credit hours
- MUA 330 - Form and Analysis, 2 credit hours
- MUA 410 - Theory of Music Since 1900, 2 credit hours
- MUA 420 - Post-Tonal Aural Skills, 2 credit hours

Minimum Liberal Arts Credits Required: 35

- ENG 131 - Workshop in Exposition and Argument, 3 credit hours

- MTH 101 - Mathematics Modeling & Quantitative Analysis, 3 credit hours or higher
- FYE 100 - First-Year Experience, 1 credit hour
- HPE - Wellness Courses, 2 credit hours
- Foreign Language, 16 credit hours<sup>5</sup>
- Liberal Arts Electives or Minor Field of Study, 10 credit hours<sup>6</sup>

Notes:

<sup>1</sup> Three credits per semester for 8 semesters.

<sup>2</sup> Secondary instrument is piano until Proficiency 4 is achieved. Depending upon placement results, piano study may occur in classes, lessons, or a combination. If the requisite proficiency is achieved in fewer than 4 semesters, continued piano study or study on another instrument is required. Secondary study beyond 4 semesters requires an additional fee.

<sup>3</sup> One credit per semester for 8 semesters.

<sup>4</sup> An Emphasis Area in music may be substituted for the music elective requirement. Students who have earned 8 credits in required ensemble may count up to 2 additional credits toward the music elective requirement. At least 2 credits of music electives must be at the 300 level or higher.

<sup>5</sup> Credits must be FRN, ITL, and/or GER. In some cases, a proficiency exam can be administered to determine entry level of study in a particular foreign language.

<sup>6</sup> See Bachelor of Arts & Sciences Core for more information about Core requirements. Note that specific University core requirements for Humanities, Social Sciences, Natural Sciences, and a minor field of study do not apply to Bachelor of Music degree programs. Students may select to either take ten credits from any areas of the Humanities, Natural Sciences, and/or Social Sciences, or to complete a minor field of study outside of the Conservatory.

## Music Theatre Direction, B.M.

**Minimum Total Credits Required: 120.5**

Minimum Music Credits Required: 91.5

- MUC 001 - Performance Attendance, 0 credit hours (6 semesters)
- MUC 002 - Departmental Recital, 0 credit hours (8 semesters)
- MUA 101 - ICTUS (Introduction to Conservatory Training, Understanding, and Skills), 2 credit hours
- MUC 101 - Primary Instrument: Private Lessons, 3 credit hours<sup>1</sup>
- MUC 102 - Primary Instrument: Private Lessons, 3 credit hours<sup>1</sup>
- MUA 110 - Theory 1, 2 credit hours
- MUC 110 - Music Technology and Notation, 1 credit hour
- MUA 120 - Aural Skills 1, 2 credit hours
- MUC 131 - Secondary Instrument Levels 1, 1 credit hour <sup>2</sup>
- MUC 132 - Secondary Instrument Levels 2, 1 credit hour <sup>2</sup>
- MUC 145 - Music Theatre Workshop 1: Core Acting Skills, 1 credit hour
- MUC 146 - Music Theatre Workshop 2: Scene to Song; Freshman Showcase, 1 credit hour
- MUC 181 - Sight-Reading, 1 credit hour
- MUC 201 - Primary Instrument: Private Lessons, 3 credit hours<sup>1</sup>
- MUC 202 - Primary Instrument: Private Lessons, 3 credit hours<sup>1</sup>
- MUC 205 - Major Ensembles, 1 credit hour (6 semesters) <sup>3</sup>
- MUA 210 - Theory 2, 2 credit hours
- MUA 220 - Aural Skills 2, 2 credit hours
- MUC 236 - Jazz Piano Skills, 1 credit hour
- MUA 2411 - Music History & Literature 2, 3 credit hours
- MUA 242 - Music History & Literature 3, 3 credit hours
- MUA 245 - Music Theatre History, 3 credit hours
- MUC 246X - Music Theatre Workshop 4: Audition Techniques, 1 credit hour

- MUC 283 - Collaborative Piano, 1 credit hour  
(2 credit hours required)
- MUC 291 - Conducting, 2 credit hours
- MUC 292 - Advanced Conducting, 2 credit hours
- MUC 301 - Primary Instrument: Private Lessons, 3 credit hours<sup>1</sup>
- MUC 302 - Primary Instrument: Private Lessons, 3 credit hours<sup>1</sup>
- MUC 303 - Partial Junior Recital, .5 credit hour<sup>5</sup>
- MUC 309 - Entrepreneurship and Advocacy, 1 credit hour
- MUC 318 - Instrumentation and Orchestration, 2 credit hours
- MUC 345 - Music Theatre Workshop 5: Golden Age of Music Theatre, 1 credit hour
- MUC 401 - Primary Instrument: Private Lessons, 3 credit hours<sup>1</sup>
- MUC 402 - Primary Instrument: Private Lessons, 3 credit hours<sup>1</sup>
- MUC 445 - Music Theatre Workshop 7: Music Theatre Senior Boot Camp, 1 credit hour
- MUC 446 - Music Theatre Workshop 8: Music Theatre Showcase, 1 credit hour
- MUC 493 - Conducting Apprenticeship, 1 credit hour (6 semesters)
- Music Electives, 10 credit hours<sup>4</sup>
- Internship in Dance Accompanying, 1 credit hour<sup>6</sup>

Upper Level Electives Choose 5 credit hours from the following-

- MUA 213 - Counterpoint, 2 credit hours
- MUA 222 - Aural Skills & Theory for Music Theatre, 2 credit hours
- MUA 310 - Advanced Chromatic Theory, 2 credit hours
- MUA 320 - Advanced Chromatic Aural Skills, 2 credit hours
- MUA 330 - Form and Analysis, 2 credit hours
- MUA 410 - Theory of Music Since 1900, 2 credit hours
- MUA 420 - Post-Tonal Aural Skills, 2 credit hours

Minimum Liberal Arts Credits Required: 29

- ENG 131 - Workshop in Exposition and Argument, 3 credit hours
- MTH 101 - Mathematics Modeling & Quantitative Analysis, 3 credit hours or higher
- FYE 100 - First-Year Experience, 1 credit hour
- HPE - Wellness Courses, 2 credit hours
- Foreign Language, 8 credit hours<sup>7</sup>
- Liberal Arts Electives or Minor Field of Study, 12 credit hours<sup>8</sup>

Notes:

<sup>1</sup> Three credits per semester for eight semesters.

<sup>2</sup> Secondary instrument for Music Directors will be voice for at least one semester. Secondary study beyond two semesters requires an additional fee.

<sup>3</sup> One credit per semester for six semesters. May be taken as elective in additional semesters. A minimum of four semesters will be in a choral ensemble.

<sup>4</sup> An Emphasis Area in music may be substituted for the music elective requirement. Students who have earned six credits in required ensemble may count up to two additional credits toward the music elective requirement.

<sup>5</sup>The Partial Junior Recital will be a minimum 30 minutes classical repertoire, memorized.

<sup>6</sup>The internship credit must be in a Ballet class.

<sup>7</sup>A proficiency exam is administered to determine entry level of foreign language study. Students whose language requirement is reduced may take the equivalent number of credit hours in other liberal arts courses.

<sup>8</sup>See Bachelor of Arts & Sciences Core for more information about Core requirements. Note that specific University core requirements for Humanities, Social Sciences, Natural Sciences, and a minor field of study do not apply to Bachelor of Music degree programs. Students may select to either take ten credits from any areas of the Humanities, Natural Sciences, and/or Social Sciences, or to complete a minor field of study outside of the Conservatory. Minor field of study must be other than music, theatre, or dance.

## **Music Theatre, B.M.**

*No more than four credits of D may be earned in MUC, THE, DAN and ASW dance technique courses.*

**Minimum Total Credits Required: 120**

Minimum Music Credits Required: 59

- MUC 001 - Performance Attendance, 0 credit hours (6 semesters)
- MUC 002 - Departmental Recital, 0 credit hours (8 semesters)
- MUA 101 - ICTUS (Introduction to Conservatory Training, Understanding, and Skills), 2 credit hours
- MUC 101 - Primary Instrument: Private Lessons, 3 credit hours<sup>1</sup>
- MUC 102 - Primary Instrument: Private Lessons, 3 credit hours<sup>1</sup>
- MUA 110 - Theory 1, 2 credit hours
- MUC 110 - Music Technology and Notation, 1 credit hour
- MUA 120 - Aural Skills 1, 2 credit hours
- MUC 133 - Keyboard Musicianship 1, 1 credit hour<sup>2</sup>
- MUC 134 - Keyboard Musicianship 2, 1 credit hour<sup>2</sup>
- MUC 140 - Singers' Phonetics, 1 credit hour
- MUC 145 - Music Theatre Workshop 1: Core Acting Skills, 1 credit hour
- MUC 146 - Music Theatre Workshop 2: Scene to Song; Freshman Showcase, 1 credit hour
- MUC 201 - Primary Instrument: Private Lessons, 3 credit hours<sup>1</sup>
- MUC 202 - Primary Instrument: Private Lessons, 3 credit hours<sup>1</sup>
- MUC 205 - Major Ensembles, 1 credit hour<sup>3</sup>
- MUA 210 - Theory 2, 2 credit hours
- MUA 220 - Aural Skills 2, 2 credit hours
- MUA 222 - Aural Skills & Theory for Music Theatre, 2 credit hours
- MUA 245 - Music Theatre History, 3 credit hours
- MUC 245 - Music Theatre Workshop 3: Shakespeare, 1 credit hour
- MUC 246X - Music Theatre Workshop 4: Audition Techniques, 1 credit hour
- MUC 301 - Primary Instrument: Private Lessons, 3 credit hours<sup>1</sup>
- MUC 302 - Primary Instrument: Private Lessons, 3 credit hours<sup>1</sup>
- MUC 308 - Partial Junior Recital, 0 credit hours
- MUC 309 - Entrepreneurship and Advocacy, 1 credit hour
- MUC 345 - Music Theatre Workshop 5: Golden Age of Music Theatre, 1 credit hour<sup>4</sup>
- MUC 346 - Music Theatre Workshop 6: Music Theatre Business/Acting for the Camera, 1 credit hour
- MUC 401 - Primary Instrument: Private Lessons, 3 credit hours<sup>1</sup>
- MUC 402 - Primary Instrument: Private Lessons, 3 credit hours<sup>1</sup>
- MUC 445 - Music Theatre Workshop 7: Music Theatre Senior Boot Camp, 1 credit hour<sup>5</sup>
- MUC 446 - Music Theatre Workshop 8: Music Theatre Showcase, 1 credit hour<sup>6</sup>

Music History Elective: Choose one of the following courses-

- MUA 140 - Music History Survey 1, 3 credit hours
- MUA 141 - Music History Survey 2, 3 credit hours

- MUA 345 - History of Music & Drama, 3 credit hours

Minimum Theatre Credits Required: 14

- THE 150 - Makeup for the Stage, 1 credit hour
  - THE 190 - Script Analysis, 3 credit hours
  - THE 345 - Intermediate Acting for Music Theatre Students, 3 credit hours
  - THE 445 - Advanced Acting for Music Theatre Students, 3 credit hours
  
  - MUC 162 - Backstage Experience, 1 credit hour
- OR**
- THE 162 - Backstage Experience, 1-2 credit hours (one credit required)
  
  - THE 288I - Theatre History I, 3 credit hours
- OR**
- THE 289I - Theatre History II, 3 credit hours

Minimum Dance Credits Required: 16

- DAN 120 - Ballet I Practicum, 1 credit hour
- ASW 121W - Jazz I Practicum, 1 credit hour
- DAN 122 - Modern I Practicum, 1 credit hour
- ASW 123W - Tap I Practicum, 1 credit hour
- DAN 220 - Ballet II Practicum, 1 credit hour
- DAN 221 - Jazz II Practicum, 1 credit hour
- DAN 222 - Modern II Practicum, 1 credit hour
- DAN 223 - Tap II Practicum, 1 credit hour
- DAN 320 - Ballet III Practicum, 1 credit hour
- DAN 321 - Jazz III Practicum, 1 credit hour
- DAN 323 - Tap III Practicum, 1 credit hour
- DAN 324 - Hip Hop I, 1 credit hour
- DAN 420 - Ballet IV Practicum, 1 credit hour
- DAN 421 - Jazz IV Practicum, 1 credit hour
- DAN 423 - Tap IV Practicum, 1 credit hour
- DAN 424 - Hip Hop II, 1 credit hour

Minimum General Studies Credits Required: 31

- ENG 131 - Workshop in Exposition and Argument, 3 credit hours
- MTH 101 - Mathematics Modeling & Quantitative Analysis, 3 credit hours or higher
- FYE 100 - First-Year Experience, 1 credit hour
- Foreign Language, 8 credit hours<sup>7</sup>
- Liberal Arts Electives or Minor Field of Study, 12 credit hours<sup>8</sup>
- THE/DAN/MUC Elective, 4 credit hours

Notes:

<sup>1</sup> Three credits per semester for 8 semesters.

<sup>2</sup> Secondary instrument is piano. Regardless of placement results, two semesters of piano study must occur in classes, lessons, or a combination. Secondary study beyond 2 semesters requires an additional fee.

<sup>3</sup> One credit per semester for 4 semesters. May be taken as elective in additional semesters.

<sup>4</sup> To register for MUC 345 (Music Theatre Workshop 5: Golden Age of Music Theatre), students must have earned a cumulative GPA of 2.5 or higher in all performance classes: specifically, Music Theatre Workshop, Voice, and Dance. Failure to do so will render students ineligible to continue in the Music Theatre program.

<sup>5</sup> MUC 445 (Music Theatre Workshop 7: Music Theatre Senior Boot Camp) includes a required senior recital.

<sup>6</sup> To register for MUC 446 (Music Theatre Workshop 8: Music Theatre Showcase), students must have 18 credit hours or less remaining to graduate (assuming successful completion of current semester coursework). Any credits earned off campus to satisfy remaining academic requirements must transfer before registering for MUC 446. Only students registered for MUC 446 will be permitted to participate in the BW New York Music Theatre Showcase.

<sup>7</sup> A proficiency exam is administered to determine entry level of foreign language study. Students whose language requirement is reduced may take the equivalent number of credit hours in other liberal arts courses.

<sup>8</sup> See Bachelor of Arts & Sciences Core for more information about Core requirements. Note that specific University core requirements for Humanities, Social Sciences, Natural Sciences, and a minor field of study do not apply to Bachelor of Music degree programs. Students may select to either take 12 credits from any areas of the Humanities, Natural Sciences, and/or Social Sciences, or to complete a minor field of study outside of music, theatre, or dance.

## **Music Theory, B.M.**

**Minimum Total Credits Required: 120**

Minimum Music Credits Required: 91

- MUC 001 - Performance Attendance, 0 credit hours (6 semesters)
- MUC 002 - Departmental Recital, 0 credit hours (8 semesters)
- MUA 101 - ICTUS (Introduction to Conservatory Training, Understanding, and Skills), 2 credit hours
- MUC 101 - Primary Instrument: Private Lessons, 3 credit hours<sup>1</sup>
- MUC 102 - Primary Instrument: Private Lessons, 3 credit hours<sup>1</sup>
- MUA 110 - Theory 1, 2 credit hours
- MUC 110 - Music Technology and Notation, 1 credit hour
- MUC 116 - Introduction to Composition 1, 2 credit hours
- MUC 117 - Introduction to Composition 2, 2 credit hours
- MUA 120 - Aural Skills 1, 2 credit hours
- MUC 133 - Keyboard Musicianship 1, 1 credit hour<sup>2</sup>
- MUC 134 - Keyboard Musicianship 2, 1 credit hour<sup>2</sup>
- MUC 201 - Primary Instrument: Private Lessons, 3 credit hours<sup>1</sup>
- MUC 202 - Primary Instrument: Private Lessons, 3 credit hours<sup>1</sup>
- MUC 205 - Major Ensembles, 1 credit hour<sup>3</sup>
- MUA 210 - Theory 2, 2 credit hours
- MUA 220 - Aural Skills 2, 2 credit hours
- MUC 233 - Keyboard Musicianship 3, 1 credit hour<sup>2</sup>
- MUC 234 - Keyboard Musicianship 4, 1 credit hour<sup>2</sup>
- MUA 240 - Music History & Literature 1, 3 credit hours
- MUA 241I - Music History & Literature 2, 3 credit hours
- MUA 242 - Music History & Literature 3, 3 credit hours
- MUC 291 - Conducting, 2 credit hours
- MUC 301 - Primary Instrument: Private Lessons, 3 credit hours<sup>1</sup>
- MUC 302 - Primary Instrument: Private Lessons, 3 credit hours<sup>1</sup>
- MUC 309 - Entrepreneurship and Advocacy, 1 credit hour
- MUC 318 - Instrumentation and Orchestration, 2 credit hours
- MUC 329 - Introduction to Research in Music, 2 credit hours



- MUA 340 - Topics in Music History, 3 credit hours
- MUC 401 - Primary Instrument: Private Lessons, 3 credit hours<sup>1</sup>
- MUC 402 - Primary Instrument: Private Lessons, 3 credit hours<sup>1</sup>
- MUC 410 - Thesis Project Presentation, 1 credit hour <sup>4</sup>
- MUC 411 - Thesis Research in Music Theory, 1 credit hour
- MUC 412 - Music Academic Studies Seminar, 0 credit hours (4 semesters)<sup>5</sup>
- MUC 419X - Music Theory Practicum, 1 credit hour
- Music Seminars, 6 credit hours<sup>6</sup>
- Music Electives, 4 credit hours<sup>7</sup>

Academic Studies Electives: Choose 8 credit hours from the following-

- MUA 213 - Counterpoint, 2 credit hours
- MUA 310 - Advanced Chromatic Theory, 2 credit hours
- MUA 320 - Advanced Chromatic Aural Skills, 2 credit hours
- MUA 330 - Form and Analysis, 2 credit hours
- MUA 410 - Theory of Music Since 1900, 2 credit hours
- MUA 420 - Post-Tonal Aural Skills, 2 credit hours

Minimum Liberal Arts Credits Required: 29

- ENG 131 - Workshop in Exposition and Argument, 3 credit hours
- MTH 101 - Mathematics Modeling & Quantitative Analysis, 3 credit hours or higher
- FYE 100 - First-Year Experience, 1 credit hour
- HPE - Wellness Courses, 2 credit hours
- Foreign Language, 8 credit hours<sup>8</sup>
- Liberal Arts Electives or Minor Field of Study, 12 credit hours<sup>9</sup>

Notes:

<sup>1</sup> Three credits per semester for 8 semesters.

<sup>2</sup> Secondary instrument is piano until July 4 proficiency is achieved. Depending upon placement results, piano study may occur in classes, lessons, or a combination. If the requisite proficiency is achieved in fewer than 4 semesters, continued piano study or study on another instrument is required. Secondary study beyond 4 semesters requires an additional fee.

<sup>3</sup> One credit per semester for 8 semesters.

<sup>4</sup> Topic determined by student in consultation with Senior Project Advisor and subject to approval by the department.

<sup>5</sup> Take fall and spring semesters of junior and senior years.

<sup>6</sup> Three seminars required. Seminars may be replaced by independent study with permission of advisor.

<sup>7</sup> An Emphasis Area in music may be substituted for the music elective requirement. Students who have earned 8 credits in required ensemble may count up to 2 additional credits toward the music elective requirement. At least 2 credits of music electives must be at the 300 level or higher.

<sup>8</sup> One year of study of a single foreign language is required. A proficiency exam is administered to determine entry level of foreign language study. Students whose language requirement is reduced may take the equivalent number of credit hours in other liberal arts courses.

<sup>9</sup> See Bachelor of Arts & Sciences Core for more information about Core requirements. Note that specific University core requirements for Humanities, Social Sciences, Natural Sciences, and a minor field of study do not apply to Bachelor of Music degree programs. Students may select to either take ten credits from any areas of the Humanities, Natural Sciences, and/or Social Sciences, or to complete a minor field of study outside of the Conservatory.

## Music Therapy, B.M.

*No more than four credits of D may be earned in MUC and PSY courses.*

**Minimum Total Credits Required: 120**

Minimum Music Credits Required: 86

- MUC 001 - Performance Attendance, 0 credit hours (6 semesters)
- MUC 002 - Departmental Recital, 0 credit hours (8 semesters)
- MUA 101 - ICTUS (Introduction to Conservatory Training, Understanding, and Skills), 2 credit hours
- MUC 101 - Primary Instrument: Private Lessons, 3 credit hours<sup>1</sup>
- MUC 102 - Primary Instrument: Private Lessons, 3 credit hours<sup>1</sup>
- MUA 110 - Theory 1, 2 credit hours
- MUC 110 - Music Technology and Notation, 1 credit hour
- MUC 118 - Songwriting, 2 credit hours
- MUA 120 - Aural Skills 1, 2 credit hours
- MUC 133 - Keyboard Musicianship 1, 1 credit hour<sup>2</sup>
- MUC 134 - Keyboard Musicianship 2, 1 credit hour<sup>2</sup>
- MUC 135 - Voice Class, 1 credit hour [instrumentalists only]
- MUC 136 - Guitar Class, 1 credit hour
- MUC 140 - Singers' Phonetics, 1 credit hour [vocalists only]
- MUC 151 - Introduction to Music Therapy, 2 credit hours
- MUC 152 - Vocal Skills for Music Therapists, 2 credit hours
- MUC 201 - Primary Instrument: Private Lessons, 3 credit hours<sup>1</sup>
- MUC 202 - Primary Instrument: Private Lessons, 3 credit hours<sup>1</sup>
- MUC 205 - Major Ensembles, 1 credit hour<sup>3</sup>
- MUA 210 - Theory 2, 2 credit hours
- MUA 220 - Aural Skills 2, 2 credit hours
- MUC 233 - Keyboard Musicianship 3, 1 credit hour<sup>2</sup>
- MUC 234 - Keyboard Musicianship 4, 1 credit hour<sup>2</sup>
- MUC 235 - Keyboard Musicianship for the Practitioner, 1 credit hour [keyboardists only]<sup>8</sup>
- MUA 240 - Music History & Literature 1, 3 credit hours
- MUA 241 - Music History & Literature 2, 3 credit hours
- MUA 242 - Music History & Literature 3, 3 credit hours
- MUC 251 - Recreational Music: Programming and Leadership, 2 credit hours<sup>4</sup>
- MUC 253 - Percussion Skills for Music Therapists, 1 credit hour
- MUC 257 - Music Therapy Practicum 1, 1 credit hour<sup>5</sup>
- MUC 291 - Conducting, 2 credit hours
- MUC 301 - Primary Instrument: Private Lessons, 2 credit hours<sup>1</sup>
- MUC 302 - Primary Instrument: Private Lessons, 2 credit hours<sup>1</sup>
- MUC 309 - Entrepreneurship and Advocacy, 1 credit hour
- MUC 351 - Music Therapy in Psychiatry and Rehabilitation, 3 credit hours
- MUC 352 - Music Therapy with the Developmentally Disabled, 3 credit hours
- MUC 353 - Program Development and Advocacy in Music Therapy, 2 credit hours
- MUC 354 - Creating Music, 1 credit hour
- MUC 357 - Music Therapy Practicum 2, 1 credit hour<sup>5</sup>
- MUC 358X - Music Therapy Practicum 3, 1 credit hour<sup>5</sup>
- MUC 401 - Primary Instrument: Private Lessons, 2 credit hours<sup>1</sup>
- MUC 402 - Primary Instrument: Private Lessons, 2 credit hours<sup>1</sup>
- MUC 451 - Psychology of Music, 2 credit hours

- MUC 452 - Research Seminar in Music Therapy, 2 credit hours
- MUC 454 - Music Therapy Internship, 1 credit hour<sup>6</sup>

Upper Level Electives Choose 5 credit hours from the following-

- MUA 213 - Counterpoint, 2 credit hours
- MUA 222 - Aural Skills & Theory for Music Theatre, 2 credit hours
- MUA 310 - Advanced Chromatic Theory, 2 credit hours
- MUA 320 - Advanced Chromatic Aural Skills, 2 credit hours
- MUA 330 - Form and Analysis, 2 credit hours
- MUA 410 - Theory of Music Since 1900, 2 credit hours
- MUA 420 - Post-Tonal Aural Skills, 2 credit hours

Minimum Liberal Arts Credits Required: 34

- ENG 131 - Workshop in Exposition and Argument, 3 credit hours
  - MTH 101 - Mathematics Modeling & Quantitative Analysis, 3 credit hours or higher
  - FYE 100 - First-Year Experience, 1 credit hour
  - HPE - Wellness Courses, 2 credit hours
  - PSY 100 - Principles of Psychological Science, 3 credit hours
  - PSY 278 - Elements of Statistics, 4 credit hours
  - PSY 302 - Psychological Disorders, 4 credit hours
  - SOC 100D - Principles of Sociology, 3 credit hours
  - EDU 103DX - Education of Children with Special Needs, 2 credit hours
  - Liberal Arts Electives, 6 credit hours<sup>7</sup>
- BIO 101 - Human Biology, 3 credit hours
- OR**
- BIO 203 - Human Anatomy and Physiology I, 4 credit hours

Notes:

<sup>1</sup> Three credits per semester during Freshmen & Sophomore years. Two credits per semester during Junior & Senior years.

<sup>2</sup> Secondary instrument is piano until Proficiency 4 is achieved. Depending upon placement results, piano study may occur in classes, lessons, or a combination. If the requisite proficiency is achieved in fewer than 4 semesters, continued piano study or study on another instrument is required. Secondary study beyond 4 semesters requires an additional fee.

<sup>3</sup> One credit per semester for 6 semesters.

<sup>4</sup> A competency examination must be taken after completing the Recreational Music course and before taking any other Music Therapy course.

<sup>5</sup> A minimum of three 1-credit practica required.

<sup>6</sup> A six-month internship required after completing all other requirements for graduation. Students may register for this off-campus assignment during their last semester on campus. Grading and granting of the degree is deferred until the requirement is completed successfully.

<sup>7</sup> See Bachelor of Arts & Sciences Core for more information about Core requirements. Note that specific University core requirements for Humanities, Social Sciences, Natural Sciences, and a minor field of study do not apply to Bachelor of Music degree programs. Students may select to either take six credits from any areas of the Humanities, Natural Sciences, and/or Social Sciences, or to complete a minor field of study outside of the Conservatory.

<sup>8</sup> Replaces one semester of private instrument secondary study.

## **Music, B.A.**

**Minimum Credits Required: 42**

Required Courses:

- MUC 001 - Performance Attendance, 0 credit hours (4 semesters)
- MUC 002 - Departmental Recital, 0 credit hours <sup>1</sup>
- MUA 101 - ICTUS (Introduction to Conservatory Training, Understanding, and Skills), 2 credit hours
- MUC 101 - Primary Instrument: Private Lessons, 2 credit hours<sup>2</sup>
- MUC 102 - Primary Instrument: Private Lessons, 2 credit hours<sup>2</sup>
- MUA 110 - Theory 1, 2 credit hours
- MUC 110 - Music Technology and Notation, 1 credit hour
- MUA 120 - Aural Skills 1, 2 credit hours
- MUC 133 - Keyboard Musicianship 1, 1 credit hour <sup>3</sup>
- MUC 134 - Keyboard Musicianship 2, 1 credit hour <sup>3</sup>
- MUC 201 - Primary Instrument: Private Lessons, 2 credit hours<sup>2</sup>
- MUC 202 - Primary Instrument: Private Lessons, 2 credit hours<sup>2</sup>
- MUC 205 - Major Ensembles, 1 credit hour <sup>4</sup>
- MUA 210 - Theory 2, 2 credit hours
- MUA 220 - Aural Skills 2, 2 credit hours
- MUC 309 - Entrepreneurship and Advocacy, 1 credit hour

Upper Level Elective: Choose 2 credit hours from the following-

- MUA 213 - Counterpoint, 2 credit hours
- MUA 310 - Advanced Chromatic Theory, 2 credit hours
- MUA 320 - Advanced Chromatic Aural Skills, 2 credit hours
- MUA 330 - Form and Analysis, 2 credit hours
- MUA 410 - Theory of Music Since 1900, 2 credit hours
- MUA 420 - Post-Tonal Aural Skills, 2 credit hours

Music History: (select either the Western Music History or Music History & Literature sequence of courses)

### **Western Music History**

- MUA 140 - Music History Survey 1, 3 credit hours
- MUA 141 - Music History Survey 2, 3 credit hours

**OR**

### **Music History & Literature**

- MUA 240 - Music History & Literature 1, 3 credit hours
- MUA 241 - Music History & Literature 2, 3 credit hours
- MUA 242 - Music History & Literature 3, 3 credit hours

Music Electives: Complete eight credits from the following-

- MUC 205 - Major Ensembles, 1 credit hour
- MUC 206 - Elective Ensembles, 1 credit hour

- MUC 207 - Chamber Music, 1 credit hour
- MUA 213 - Counterpoint, 2 credit hours
- MUC 301 - Primary Instrument: Private Lessons, 2 credit hours
- MUC 302 - Primary Instrument: Private Lessons, 2 credit hours
- MUC 304 - Elective Recital, .5 credit hours
- MUA 310 - Advanced Chromatic Theory, 2 credit hours
- MUA 320 - Advanced Chromatic Aural Skills, 2 credit hours
- MUA 330 - Form and Analysis, 2 credit hours
- MUA 340 - Topics in Music History, 3 credit hours
- MUA 410 - Theory of Music Since 1900, 2 credit hours
- MUA 420 - Post-Tonal Aural Skills, 2 credit hours
- Music Seminars, 2 credit hours<sup>5</sup>
- Music Electives, 2 credit hours

Notes:

In addition to the required music courses, bachelor of arts music majors must fulfill the requirements of the University core (43 credits) and obtain a minor (17 credits). See University Catalog for specifics.

<sup>1</sup> Students must register for Departmental Recital every semester that they are registered for Primary Instrument.

<sup>2</sup> Two credits per semester for 4 semesters. Additional fee required.

<sup>3</sup> One credit per semester for 2 semesters. Secondary instrument is piano. Secondary instrument for pianists is organ, harpsichord, voice, or an orchestral instrument. Secondary study beyond 2 semesters requires an additional fee.

<sup>4</sup> One credit per semester for 4 semesters.

<sup>5</sup> Qualifying seminars include MUC 360, MUC 363, MUC 364, MUC 415 and MUC 463.

## Minors

### Music Industry Minor

**Minimum Credits Required: 25**

Required Courses:

- AMG 102 - Introduction to Arts Management, 3 credit hours
- AMG 203 - Music Industry I, 3 credit hours
- AMG 204 - Music Industry II, 3 credit hours
- AMG 304 - Principles of Marketing for the Music Industry, 3 credit hours
- MUL 312 - Music Copyright Law, Publishing, and Licensing, 3 credit hours
- AMG 397X - Internship, 1-3 credit hours (3 credit hours required)

Choose One of The Following:

- CSC 135 - Introduction to Web Site Development, 3 credit hours
- ART 240 - Graphic Design I, 2 credit hours
- AMG 302 - Financial Management of Arts Organizations, 3 credit hours
- MKT 337 - Digital Marketing, 3 credit hours

Music Electives:

Choose 5 credit hours of music electives from the following-

- MUA 101 - ICTUS (Introduction to Conservatory Training, Understanding, and Skills), 2 credit hours
- MUA 110 - Theory 1, 2 credit hours
- MUA 120 - Aural Skills 1, 2 credit hours
- MUA 210 - Theory 2, 2 credit hours
- MUA 220 - Aural Skills 2, 2 credit hours
- MUA 140 - Music History Survey 1, 3 credit hours
- MUA 141 - Music History Survey 2, 3 credit hours
- MUC 205 - Major Ensembles, 1 credit hour
- MUC 224D - History of Jazz, 2 credit hours
- MUL 134 - Piano Class, 1 credit hour
- MUL 135 - Voice Class, 1 credit hour
- MUL 136 - Guitar Class, 1 credit hour

## Music Minor

**Minimum Credits Required: 24**

Required Courses:

- MUC 001 - Performance Attendance, 0 credit hours (2 semesters)
- MUA 101 - ICTUS (Introduction to Conservatory Training, Understanding, and Skills), 2 credit hours
- MUA 110 - Theory 1, 2 credit hours
- MUA 120 - Aural Skills 1, 2 credit hours
- MUA 140 - Music History Survey 1, 3 credit hours<sup>3</sup>
- MUA 141 - Music History Survey 2, 3 credit hours<sup>3</sup>
- MUA 210 - Theory 2, 2 credit hours
- MUA 220 - Aural Skills 2, 2 credit hours

Complete Option A or B below.

Option A:

- MUC/MUL - Applied Study, 4 credit hours<sup>1</sup>
- MUC 205 - Major Ensembles, 1 credit hour<sup>2</sup> (2 credits total)
- Music Electives, 2 credit hours

Option B:

- MUC/MUL 134, MUC/MUL 135, or MUC/MUL 136, 1 credit hour
- Music Electives, 7 credit hours

Notes:

<sup>1</sup> One credit per semester for 4 semesters. May include MUC/MUL 134, MUC/MUL 135, MUC/MUL 136, MUC/MUL 137, and/or MUL 139. Private lessons for an additional fee available only by audition as staffing permits.

<sup>2</sup> One credit per semester for 2 semesters. By audition only.

<sup>3</sup> Music Industry Majors should substitute MUA 240 and MUA 241 for MUA 140 and MUA 141.

Students pursuing the minor in music have a Conservatory advisor in addition to the one in their major academic area. Students are encouraged to consult with their advisor and propose alternative course selections to meet their individual educational goals. All MUA/MUC course selections and substitutions must have the approval of the Conservatory Associate Dean.

## Certificates

### Teaching Artist Certificate

**Minimum Credits Required: 12**

Required Courses:

- MUC/ THE 267 - Artists and the Classroom, 3 credit hours
- MUC/ THE 367 - Artists and the Community, 3 credit hours
- MUC/ THE 368 - Artists and the Individual, 3 credit hours
- MUC/ THE 467 - Teaching Artist Capstone, 3 credit hours

## Emphasis

### Music Emphasis Programs

Emphasis programs may be added to most Conservatory majors to provide more intensive, focused, and experiential study of a particular area of music. Courses taken for an emphasis program that are not required in the student's major also satisfy the Music Electives component of the program of study. *Application and approval required.*

Afro-Centric Music Emphasis

The Afro-Centric Music Emphasis may be pursued by any music major.

Required Courses:

- AFR 200D - Introduction to Africana Studies, 3 credit hours
- MUC 206-S08- Afro-Centric Music Ensemble (2 total credits, Preq: MUL 132I)

Six elective credits selected from the following:

- MUC 206-S03- Jazz Ensemble, 1 credit hour
- MUC 206-S04- Jazz Combo, 1 credit hour
- MUC 206-S08- Afro-Centric Music Ensemble (2 credits beyond requirement above, Preq:MUL 132I)
- MUC/MUL 218 - Jazz Improvisation, 2 credit hours
- MUC 236 - Jazz Piano Skills, 1 credit hour
- MUC 324 - Structure and Style in the Music of the African Diaspora, 2 credit hours
- MUC 295, 395, 495 - Independent Study, 1-2 credit hours

Arts Management Emphasis

The Arts Management Emphasis may be pursued by any music major except those majoring in Arts Management.

Required Courses:

- AMG 102 - Introduction to Arts Management, 3 credit hours
- AMG 201 - Principles & Practices of Arts Management I, 3 credit hours
- AMG 202 - Principles & Practices of Arts Management II, 3 credit hours

- AMG 397X - Internship, 3 credit hours

Select one of the following:

- AMG 301 - Marketing and Audience Development for the Arts, 3 credit hours
- AMG 302 - Financial Management of Arts Organizations, 3 credit hours
- AMG 303 - Fundraising for the Arts, 3 credit hours

#### Collaborative Piano Emphasis

Required Courses:

- MUC 140 - Singers' Phonetics, 1 credit hour
- MUC 181 - Sight-Reading, 1 credit hour
- MUC 241 - Singers' Diction and Literature 3, 2 credit hours
- MUC 242 - Singer's Diction and Literature 4, 2 credit hours
- MUC 283 - Collaborative Piano, 1 credit hour (2 total credits)
- MUC 407 - Collaborative Piano Recital, 1 credit hour

Four elective credits selected from the following:

- MUC 142 - Singers' Diction and Literature 2, 2 credit hours
- MUC 283 - Collaborative Piano, 1 credit hour (up to 2 credits beyond requirement above)
- MUC 347 - Voice Performance Workshop 5: Scenes and Period Style - Baroque, Bel Canto and Romantic, 1 credit hour
- MUC 348 - Voice Performance Workshop 6: Scenes and Period Style - Classical and Contemporary, 1 credit hour
- MUC 295, 395, 495 - Independent Study, 1 credit hour

#### Composition Emphasis

The Composition Emphasis may be pursued by any BM or BME student except those majoring in Music Composition.

Required Courses:

- MUC 106 - Freshmen Composition Lessons 1, 3 credit hours
- MUC 107 - Freshmen Composition Lessons 2, 3 credit hours
- MUC 116 - Introduction to Composition 1, 2 credit hours
- MUC 117 - Introduction to Composition 2, 2 credit hours
- MUC 315 - Electronic Music, 2 credit hours
- MUC 318 - Instrumentation and Orchestration, 2 credit hours
- MUC 415 - Contemporary Composition Techniques, 2 credit hours

#### Contemporary Media Emphasis

The Contemporary Media Emphasis may be pursued by any music major.

Required Courses:

- CAS 172 - Foundations of Media Production, 3 credit hours
- CAS 274 - Sound, Microphone Technique, and Recording, 2 credit hours
- CAS 374 - Audio Editing, Mixing, and Distribution, 2 credit hours

Select one of the following Music Applied Skills courses:



- MUC/MUL 118 - Songwriting, 2 credit hours
- MUC/MUL 218 - Jazz Improvisation, 2 credit hours
- MUC/MUL 315 - Electronic Music, 2 credit hours

Three/four elective credits selected from the following:

- AMG 203 - Music Industry I, 3 credit hours
- MUC/MUL 118 - Songwriting, 2 credit hours (if not already used above)
- MUC/MUL 218 - Jazz Improvisation, 2 credit hours (if not already used above)
- MUC/MUL 312 - Music Copyright Law, Publishing, and Licensing, 3 credit hours
- MUC/MUL 315 - Electronic Music, 2 credit hours (if not already used above)
- MUC 320 - Advanced Electronic and Computer Music, 2 credit hours
- MUC/MUL 361 - Music and Meaning in Film, 2 credit hours
- MUC/MUL 362 - Music and Meaning in Video Games, 2 credit hours

#### Jazz Emphasis

The Jazz Emphasis may be pursued by any music major.

Required Courses:

- MUC 206-S03- Jazz Ensemble (4 total credits)
- MUC 206-S04- Jazz Combo (2 total credits)
- MUC 218 - Jazz Improvisation, 2 credit hours
- MUC 224D - History of Jazz, 2 credit hours
- MUC 236 - Jazz Piano Skills, 1 credit hour

#### Music History Emphasis

The Music History Emphasis may be pursued by any BM or BME student except those majoring in Music Theory or Music History & Literature.

Required Courses:

- MUA 242 - Music History & Literature 3, 3 credit hours
- MUA 340 - Topics in Music History, 3 credit hours
- MUC 329 - Introduction to Research in Music, 2 credit hours
- MUC 363/463 - Music History Seminar, 4 credit hours
- MUC 412 - Music Academic Studies Seminar, 0 credit hours

#### Music Industry Emphasis

The Music Industry Emphasis may be pursued by any music major except those majoring in Music Industry.

Required Courses:

- AMG 102 - Introduction to Arts Management, 3 credit hours
- AMG 203 - Music Industry I, 3 credit hours
- MUC/MUL 312 - Music Copyright Law, Publishing, and Licensing, 3 credit hours
- AMG 397X - Internship, 3 credit hours

Select one of the following:

- AMG 204 - Music Industry II, 3 credit hours
- AMG 304 - Principles of Marketing for the Music Industry, 3 credit hours

### Music Theory Emphasis

The Music Theory Emphasis may be pursued by any BM or BME student except those majoring in Music Theory or Music History & Literature.

#### Required Courses:

- MUC 329 - Introduction to Research in Music, 2 credit hours
- MUC 363/463 - Music Theory Seminar, 4 credit hours
- MUC 412 - Music Academic Studies Seminar, 0 credit hours

Six elective credits from the following:

- MUA 213 - Counterpoint, 2 credit hours
- MUA 310 - Advanced Chromatic Theory, 2 credit hours
- MUA 320 - Advanced Chromatic Aural Skills, 2 credit hours
- MUA 330 - Form and Analysis, 2 credit hours
- MUA 410 - Theory of Music Since 1900, 2 credit hours
- MUA 420 - Post-Tonal Aural Skills, 2 credit hours

### Vocal Pedagogy Emphasis

The Vocal Emphasis may be pursued by any music major.

#### Required Courses:

- MUC 340 - Vocal Pedagogy 1, 2 credit hours
- MUC 341 - Vocal Pedagogy 2, 3 credit hours

Six elective credits selected from the following:

- CSD 225 - Phonetics and Phonology, 3 credit hours
- CSD 321 - Neurology, Anatomy & Physiology of the Speech & Hearing Mechanism, 3 credit hours
- CSD 341 - Voice and Fluency Disorders, 3 credit hours
- CSD 351 - Speech and Hearing Science, 3 credit hours
- MUC 295, 395, 495 - Independent Study, 1-2 credit hours
- MUC 359 - Faculty/Student Collaboration, 1-2 credit hours

## Neuroscience

Neuroscience is a multidisciplinary study of the brain and its functioning. It is a new discipline that has grown out of modern needs to solve practical medical problems as well as address the continuing human desire to discover more about ourselves. Neuroscientists are interested in questions such as: "What is mind?" "Why do we sleep?" "Why do people feel emotions?" "What causes Alzheimer's Disease?" "What happens in the brain when we learn?" and "How does the brain organize itself before birth?" Individuals or groups of persons, with multidisciplinary training best address these challenging questions. Neuroscience is now a unified field that integrates Psychology, Biology, Chemistry, and several other traditional disciplines in the study of brain structure, physiology and behavior - including human emotional and cognitive functions.

## Majors

### Neuroscience, B.S.

**Minimum Credits Required: 57**

Required Courses:

- NRO 110 - Introduction to Brain & Behavior, 3 credit hours
- BIO 121 - Principles of Biology I, 4 credit hours
- BIO 122 - Principles of Biology II, 4 credit hours
- CHM 111 - General Chemistry I, 4 credit hours
- CHM 112 - General Chemistry II, 3 credit hours
- CHM 115 - General Chemistry Lab, 1 credit hour
- PSY 100 - Principles of Psychological Science, 3 credit hours
- NRO 200 - Introduction to Cell and Molecular Neuroscience, 3 credit hours
- NRO 210 - Neuroanatomy, 4 credit hours
- NRO 280 - Neuroscience Research Methods and Techniques, 3 credit hours
- NRO 310 - Neural Circuits and Systems, 3 credit hours
- NRO 320 - Behavioral Neuroscience, 4 credit hours
- NRO 330 - Neurophysiology, 4 credit hours
- NRO 340 - Laboratory in Cognitive Neuroscience, 4 credit hours
- NRO 350 - Neuropharmacology, 3 credit hours
- NRO 464 - Neuroscience Capstone I, 3 credit hours
- NRO 465 - Neuroscience Capstone II, 1 credit hour

Choose one of the following courses:

- MTH 108 - Biostatistics, 3 credit hours
- PSY 278 - Elements of Statistics, 4 credit hours

## Minors

### Neuroscience Minor

**Minimum Credits Required: 20**

Required Courses:

- NRO 110 - Introduction to Brain & Behavior, 3 credit hours
- BIO 121 - Principles of Biology I, 4 credit hours
- NRO 200 - Introduction to Cell and Molecular Neuroscience, 3 credit hours
- NRO 210 - Neuroanatomy, 4 credit hours
- NRO 280 - Neuroscience Research Methods and Techniques, 3 credit hours

Choose one 300-level Neuroscience course:

- NRO 310 - Neural Circuits and Systems, 3 credit hours
- NRO 320 - Behavioral Neuroscience, 4 credit hours
- NRO 330 - Neurophysiology, 4 credit hours
- NRO 340 - Laboratory in Cognitive Neuroscience, 4 credit hours
- NRO 350 - Neuropharmacology, 3 credit hours

Note(s):

This Minor is not designed to help the student meet all of the customary prerequisites for graduate school in Neuroscience. Students headed to graduate school in Neuroscience should pursue the Neuroscience Major and take additional electives relevant to their chosen field of study.

# Nursing

## Majors

### Nursing 4 Year Program, B.S.N.

Minimum Credits Required: 105

Required Courses:

- BIO 121 - Principles of Biology I, 4 credit hours
- BIO 203 - Human Anatomy and Physiology I, 4 credit hours
- BIO 204 - Human Anatomy and Physiology II, 4 credit hours
- BIO 212 - Microbiology, 4 credit hours
- CHM 151 - Chemistry for Nursing I, 3 credit hours
- CHM 152 - Chemistry for Nursing II, 3 credit hours
- CHM 155 - Chemistry for Nursing Lab I, 1 credit hour
- CHM 156 - Chemistry for Nursing Lab II, 1 credit hour
- ENG 131 - Workshop in Exposition and Argument, 3 credit hours
- MTH 108 - Biostatistics, 3 credit hours
- PHT 118W - Foundations of Clinical Nutrition for Nursing & Health Professionals, 3 credit hours
- PSY 100 - Principles of Psychological Science, 3 credit hours
- PSY 205 - Developmental Psychology, 3 credit hours
- SOC 100D - Principles of Sociology, 3 credit hours
- NUR 100 - Foundations of Nursing Practice, 3 credit hours
- NUR 101 - Nursing Foundations Clinical, 1 credit hours
- NUR 102 - Introduction to Nursing Lab, 1 credit hour
- NUR 104 - Health Assessment, 3 credit hours
- NUR 105 - Pathophysiological Concepts for Nursing Practice, 3 credit hours
- NUR 106 - Pharmacological Concepts in Nursing Practice with Lab, 3 credit hours
- NUR 110 - Health & Illness Concepts in Nursing Practice I with Lab, 4 credit hours
- NUR 112 - Theoretical Foundations of Nursing Practice, 1 credit hour
- NUR 115X - Professional Nursing Clinical I, 2 credit hours
- NUR 210 - Health & Illness Concepts in Nursing Practice II with Lab, 4 credit hours
- NUR 212 - Research Methods and Evidence-Based Practice in Nursing, 2 credit hours
- NUR 215 - Professional Nursing Clinical II, 2 credit hours
- NUR 220 - Behavioral Health Concepts, 2 credit hours
- NUR 225 - Behavioral Health Clinical, 1 credit hour
- NUR 310 - Health & Illness Concepts in Nursing Practice III with Lab, 4 credit hours
- NUR 312 - Leadership and Ethics in Professional Practice, 3 credit hours
- NUR 315 - Professional Nursing Clinical III, 2 credit hours
- NUR 320 - Maternal/Newborn Concepts, 2 credit hours
- NUR 322 - Family Centered Nursing Lab, 1 credit hour
- NUR 325 - Maternal/Newborn Clinical, 1 credit hour
- NUR 330 - Pediatric Concepts, 2 credit hours
- NUR 335 - Pediatric Clinical, 1 credit hour
- NUR 410 - Health & Illness Concepts in Nursing Practice IV with Lab, 4 credit hours
- NUR 412 - Issues and Trends in Nursing Practice, 3 credit hours

- NUR 415 - Professional Nursing Clinical IV, 2 credit hours
- NUR 420 - Community Health Concepts, 2 credit hours
- NUR 425 - Community Health Clinical, 1 credit hour
- NUR 450 - Capstone Immersion, 3 credit hours

## **Nursing Accelerated Program, B.S.N.**

The Accelerated Nursing Program results in a Bachelor of Science in Nursing degree.

**Minimum Credits Required: 63**

Required courses:

- NUR 100 - Foundations of Nursing Practice, 3 credit hours
- NUR 101 - Nursing Foundations Clinical, 1 credit hours
- NUR 102 - Introduction to Nursing Lab, 1 credit hour
- NUR 104 - Health Assessment, 3 credit hours
- NUR 105 - Pathophysiological Concepts for Nursing Practice, 3 credit hours
- NUR 106 - Pharmacological Concepts in Nursing Practice with Lab, 3 credit hours
- NUR 110 - Health & Illness Concepts in Nursing Practice I with Lab, 4 credit hours
- NUR 112 - Theoretical Foundations of Nursing Practice, 1 credit hour
- NUR 115X - Professional Nursing Clinical I, 2 credit hours
- NUR 210 - Health & Illness Concepts in Nursing Practice II with Lab, 4 credit hours
- NUR 212 - Research Methods and Evidence-Based Practice in Nursing, 2 credit hours
- NUR 215 - Professional Nursing Clinical II, 2 credit hours
- NUR 220 - Behavioral Health Concepts, 2 credit hours
- NUR 225 - Behavioral Health Clinical, 1 credit hour
- NUR 310 - Health & Illness Concepts in Nursing Practice III with Lab, 4 credit hours
- NUR 312 - Leadership and Ethics in Professional Practice, 3 credit hours
- NUR 315 - Professional Nursing Clinical III, 2 credit hours
- NUR 320 - Maternal/Newborn Concepts, 2 credit hours
- NUR 322 - Family Centered Nursing Lab, 1 credit hour
- NUR 325 - Maternal/Newborn Clinical, 1 credit hour
- NUR 330 - Pediatric Concepts, 2 credit hours
- NUR 335 - Pediatric Clinical, 1 credit hour
- NUR 410 - Health & Illness Concepts in Nursing Practice IV with Lab, 4 credit hours
- NUR 412 - Issues and Trends in Nursing Practice, 3 credit hours
- NUR 415 - Professional Nursing Clinical IV, 2 credit hours
- NUR 420 - Community Health Concepts, 2 credit hours
- NUR 425 - Community Health Clinical, 1 credit hour
- NUR 450 - Capstone Immersion, 3 credit hours

# Philosophy

The mission statement of Baldwin Wallace University says that BW aims at students' intellectual and spiritual growth, and that BW graduates should be compassionate, contributing global citizens. The Philosophy program at BW contributes to this goal by fostering critical thinking, intellectual inquisitiveness, sensitivity to ethical complexity, and systems-level independent thinking- all of which are necessary to become an engaged citizen and required in virtually any career.

Philosophy literally means "love of wisdom," and the concerns of philosophy are inherently broad and interdisciplinary. They range from seeking to understand the methods and foundations of politics, the arts, sciences, and education, to searching for answers to questions about the definition of reality, knowledge, moral values, aesthetic experience, and the human self. Philosophy is therefore a good choice for a second major or minor to complement a variety of different majors. In addition, as a Core course, philosophy can teach analytic and problem-solving skills that help students to succeed at the University and in continuing adult life.

Philosophy is a worthwhile activity simply for the lifelong orientation that it can provide. But the Philosophy program also strives to impart higher-order thinking skills that are crucial for most professions. Philosophy students learn how to read analytically and decode complex arguments. They also learn to think critically, forming well-reasoned opinions and expressing their opinions clearly and persuasively in speech and writing. These skills are sought by employers in almost any profession.

Philosophy courses do not need to be taken in a rigid sequence. Any philosophy course should improve philosophical abilities. However, the courses are classified by the difficulty of the reading involved and the amount of philosophical training and background required.

## Majors

### Philosophy, B.A.

The philosophy major consists of a minimum of 29 credit hours, at least three courses must be at the 300-level or higher. The Senior Thesis does not count toward satisfying the three minimum 300-level or higher courses.

History of Philosophy: Complete at least 3 of the following courses-

- PHL 211 - Classical Philosophy, 3 credit hours
- PHL 213 - Modern Philosophy, 3 credit hours
- PHL 214 - Nineteenth-century Philosophy, 3 credit hours
- PHL 215 - Existentialism, 3 credit hours
- PHL 216 - 20th Century: Logic & Language Games, 3 credit hours

Ethics Requirement: Complete at least 1 of the following courses-

- PHL 102 - Introduction to Ethics, 3 credit hours
- PHL 205 - Topics in Ethics, 3-4 credit hours
- PHL 272I - International Ethics, 3 credit hours
- SUS/PHL 273(X) - Environmental Ethics, 3 credit hours
- PHL 274 - Bioethics, 3 credit hours

Logic Requirement: Complete at least 1 of the following courses-

- MTH 206 - Mathematical Logic and Proof Methods, 3 credit hours
- PHL 201 - Logic and Critical Thinking, 3 credit hours

- PHL 216 - 20th Century: Logic & Language Games, 3 credit hours

A 2-credit Departmental Thesis is also required.

#### Notes:

Students majoring in philosophy will design a program of courses with the assistance of a philosophy faculty advisor based on the student's passions, academic needs, and future plans. A second major is recommended to complement the philosophy major. Moreover, students are required to design and execute a summative Departmental Thesis in which they are encouraged to explore areas of individual interest and to combine perspectives and methodologies in philosophy with those belonging to a second major area of study.

Students majoring in philosophy who intend to pursue graduate study in philosophy are advised to complete more than the minimum credit hours required for the major. In addition, these students are advised to complete coursework in German, French, or Spanish through the Intermediate level.

Graduating Seniors must complete a Learning Statement during their final semester at BW as a condition of graduating. The Learning Statement can be found on the Philosophy Majors and Minors Blackboard Organization. Students are asked to provide as honest an assessment of their experience with the major as possible to ensure the continuous improvement of the program. Feedback provided by students is anonymous.

## Minors

### Philosophy Minor

A minor in philosophy requires a minimum of 21 credit hours.

History of Philosophy: Complete at least 1 of the following courses-

- PHL 211 - Classical Philosophy, 3 credit hours
- PHL 213 - Modern Philosophy, 3 credit hours
- PHL 214 - Nineteenth-century Philosophy, 3 credit hours
- PHL 215 - Existentialism, 3 credit hours
- PHL 216 - 20th Century: Logic & Language Games, 3 credit hours

Ethics Requirement: Complete at least 1 of the following courses-

- PHL 102 - Introduction to Ethics, 3 credit hours
- PHL 205 - Topics in Ethics, 3-4 credit hours
- PHL 272I - International Ethics, 3 credit hours
- SUS/ PHL 273(X) - Environmental Ethics, 3 credit hours
- PHL 274 - Bioethics, 3 credit hours

Logic Requirement: Complete at least 1 of the following courses-

- MTH 206 - Mathematical Logic and Proof Methods, 3 credit hours
- PHL 201 - Logic and Critical Thinking, 3 credit hours
- PHL 216 - 20th Century: Logic & Language Games, 3 credit hours



## Physics

Physics explores the scientific principles governing the behavior of the physical world. These principles provide insight into the nature of the universe around us and are the basis for new technology. The department's program utilizes a combination of lectures, laboratories, discussions and independent work to help students acquire an understanding of these principles and their implications. Introductory Physics, General Physics and Applied College Physics cover the topics needed for a student beginning a program in physics, pre-engineering, chemistry, premedicine and pre-physical therapy. The department also offers all the standard advanced courses needed for a physics major intending to do graduate work in physics or astronomy.

All 100-level PHY courses may be applied towards the Natural Science component of the Core general education requirements. PHY 131/PHY 132 and PHY 145/PHY 146 are intended for students whose programs require introductory physics, and are not recommended unless the student has a strong science and math background.

A physics degree can be an excellent preparation for many different careers, because of the emphasis on both practical and theoretical problem solving which physicists can apply in a variety of situations. The physics major leading to the Bachelor of Science (B.S.) is recommended for students for whom this will be the only degree, or who plan to go to graduate school in physics, other science or engineering, or other field.

The physics major leading to the Bachelor of Arts is not a professional degree but is intended to be combined with another field of study, such as business or pre-law. For those interested in teaching high school science, it may be combined with a major in chemistry, biology, or math.

Students interested in becoming licensed engineers need a B.S. from an ABET-accredited engineering school. The dual degree pre-engineering program combines the best of a science major and the liberal arts core at BW with the preparation for an engineering career at an engineering school.

Students planning teaching careers in the elementary, middle or secondary schools should consult the School of Education.

## Majors

### Chemistry leading to Engineering (3/2 Program), B.A.

This major is designed for students interested in chemical engineering or one of the other chemistry-based engineering programs.

**Minimum required semester credit hours 57.5 credits at BW**

Plus additional credits at the engineering school in which the program is completed.

- CHM 111 - General Chemistry I, 4 credit hours
- CHM 112 - General Chemistry II, 3 credit hours
- CHM 115 - General Chemistry Lab, 1 credit hour
  
- PHY 131 - Physics for Scientists and Engineers I, 4 credit hours

**AND**

- PHY 151 - Introductory Physics Lab I, 1 credit hour

**OR**

- PHY 145 - Applied College Physics I, 5 credit hours

Either PHY 131 along with PHY 151 or PHY 145, but not both, may be taken for credit.

- PHY 132 - Physics for Scientists and Engineers II, 4 credit hours

**AND**

- PHY 152 - Introductory Physics Lab II, 1 credit hour

**OR**

- PHY 146 - Applied College Physics II, 5 credit hours
- Either PHY 132 along with PHY 152 or PHY 146, but not both, may be taken for credit.

- MTH 141 - Calculus I, 4 credit hours
- MTH 142 - Calculus II, 4 credit hours
- MTH 243 - Calculus III, 4 credit hours
- MTH 245 - Differential Equations, 3 credit hours
- MTH 313 - Applied Analysis, 3 credit hours
- CSC 210 - Computer Science I: Programs and Applications, 3 credit hours
- CHM 221 - Quantitative Analysis, 3 credit hours
- CHM 225 - Quantitative Analysis Laboratory, 1 credit hour
- CHM 251 - Organic Chemistry I, 3 credit hours
- CHM 255 - Organic Chemistry I Laboratory, .5 credit hour
- CHM 252 - Organic Chemistry II, 3 credit hours
- CHM 256 - Organic Chemistry II Laboratory, 1 credit hour
- CHM 331 - Physical Chemistry, 3 credit hours
- CHM 332 - Physical Chemistry II, 3 credit hours
- CHM 335 - Physical Chemistry Lab, 1 credit hour

#### Additional Information

Before transferring to the engineering school at which they will complete the work for their degree, pre-engineering students must complete the above program and:

- at least 92 credit hours of coursework at BW
- the BW core curriculum requirements.

*Some of our affiliated schools have additional requirements. Pre-Engineering students should check with the schools in which they are interested, and with the BW pre-engineering advisor.*

#### Binary Program in Engineering

The pre-engineering program prepares Baldwin Wallace students to earn an engineering degree through educational affiliations with the engineering school of Case Western Reserve University. Upon satisfactory completion of the three-year pre-engineering program at BW and the last two years of the engineering program at the engineering school, a student receives the Bachelor of Arts degree from BW and the Bachelor of Science in their chosen field of engineering from the engineering school. Students may choose instead the option of completing any of the B.S. science majors at BW, so long as they meet the engineering school's entry requirements. *Completion of the program at other recognized engineering schools is possible if prior approval of the BW pre-engineering advisor is obtained.*

### **Physics leading to Engineering (3/2 Program), B.A.**

This major is designed for students interested in civil engineering, mechanical engineering, electrical engineering or one of the other physics-based engineering programs.

**Minimum required semester credit hours 58 credits at BW**

Plus additional credits at the engineering school in which the program is completed.

Physics Core and Advanced Electives

**The physics and pre-engineering majors are based on the physics core and the advanced electives.**

#### Physics Core:

- PHY 131 - Physics for Scientists and Engineers I, 4 credit hours
- AND**
- PHY 151 - Introductory Physics Lab I, 1 credit hour
- OR**
- PHY 145 - Applied College Physics I, 5 credit hours
- Either PHY 131 along with PHY 151 or PHY 145, but not both, may be taken for credit.
- 
- PHY 132 - Physics for Scientists and Engineers II, 4 credit hours
- AND**
- PHY 152 - Introductory Physics Lab II, 1 credit hour
- OR**
- PHY 146 - Applied College Physics II, 5 credit hours
- Either PHY 132 along with PHY 152 or PHY 146, but not both, may be taken for credit.
- 
- PHY 233 - Modern Physics, 4 credit hours
  - PHY 312 - Advanced Laboratory, 3 credit hours

#### Required courses in areas other than Physics

- CHM 111 - General Chemistry I, 4 credit hours
- CHM 112 - General Chemistry II, 3 credit hours
- CHM 115 - General Chemistry Lab, 1 credit hour
- MTH 141 - Calculus I, 4 credit hours
- MTH 142 - Calculus II, 4 credit hours

#### Advanced PHY electives

- PHY 312 - Advanced Laboratory, 3 credit hours
- PHY 313 - Computational Physics, 3 credit hours
- PHY 331 - Physical Mechanics I, 3 credit hours
- PHY 341 - Mathematical Methods in the Physical Sciences, 3 credit hours
- PHY 361 - Electromagnetism, 4 credit hours
- PHY 362 - Physics of Waves, 3 credit hours
- PHY 371 - Thermal Physics, 4 credit hours
- PHY 372 - Quantum Physics, 3 credit hours
- PHY 410 - Special Topics in Physics, 1-4 credit hours (approval required)

#### Required Courses

- PHY 311 - Electronic Instrumentation, 3 credit hours
- OR**
- EGR 300 - Electronics, Circuits & Devices, 3 credit hours
- 
- MTH 243 - Calculus III, 4 credit hours
  - MTH 245 - Differential Equations, 3 credit hours
  - CSC 210 - Computer Science I: Programs and Applications, 3 credit hours
  - Advanced PHY electives – any three (3) 9-12 credits

#### Additional Requirement

PHY 312 - Advanced Laboratory, 3 credit hours is required in the physics core and may be taken a second time as an elective, with different experiments each time it is taken. With approval by the Department following a presentation and written paper, students may substitute up to three credits of internship or research experience in place of three credits of PHY 312; see the department chair in advance.

The following courses are recommended as preparation for engineering school but are not required by BW.

- EGR 200 - Statics & Dynamics, 4 credit hours
- EGR 201 - Mechanics of Materials, 4 credit hours

#### Additional Information

Before transferring to the engineering school at which they will complete the work for their degree, pre-engineering students must complete the above program and:

- at least 92 credit hours of coursework at BW
- the BW core curriculum requirements.

*Some of our affiliated schools have additional requirements. Pre-Engineering students should check with the schools in which they are interested, and with the BW pre-engineering advisor. For BW students planning on completing their engineering degree at CWRU, EGR 200 and EGR 201 are especially recommended.*

#### Binary Program in Engineering

The pre-engineering program prepares Baldwin Wallace students to earn an engineering degree through educational affiliations with the engineering school of Case Western Reserve University. Upon satisfactory completion of the three-year pre-engineering program at BW and the last two years of the engineering program at the engineering school, a student receives the Bachelor of Arts degree from BW and the Bachelor of Science in their chosen field of engineering from the engineering school. Students may choose instead the option of completing any of the B.S. science majors at BW, so long as they meet the engineering school's entry requirements. *Completion of the program at other recognized engineering schools is possible if prior approval of the BW pre-engineering advisor is obtained.*

## Physics, B.A.

### Minimum Credits Required: 46

#### Physics Core and Advanced Electives

The physics and pre-engineering majors are based on the physics core and the advanced electives.

#### Physics Core:

- PHY 131 - Physics for Scientists and Engineers I, 4 credit hours

**AND**

- PHY 151 - Introductory Physics Lab I, 1 credit hour

**OR**

- PHY 145 - Applied College Physics I, 5 credit hours

Either PHY 131 along with PHY 151 or PHY 145, but not both, may be taken for credit.

- PHY 132 - Physics for Scientists and Engineers II, 4 credit hours

**AND**

- PHY 152 - Introductory Physics Lab II, 1 credit hour

**OR**

- PHY 146 - Applied College Physics II, 5 credit hours

Either PHY 132 along with PHY 152 or PHY 146, but not both, may be taken for credit.

- PHY 233 - Modern Physics, 4 credit hours
- PHY 312 - Advanced Laboratory, 3 credit hours

Required courses in areas other than Physics

- CHM 111 - General Chemistry I, 4 credit hours
- CHM 112 - General Chemistry II, 3 credit hours
- CHM 115 - General Chemistry Lab, 1 credit hour
- MTH 141 - Calculus I, 4 credit hours
- MTH 142 - Calculus II, 4 credit hours

Advanced PHY electives

- PHY 312 - Advanced Laboratory, 3 credit hours
- PHY 313 - Computational Physics, 3 credit hours
- PHY 331 - Physical Mechanics I, 3 credit hours
- PHY 341 - Mathematical Methods in the Physical Sciences, 3 credit hours
- PHY 361 - Electromagnetism, 4 credit hours
- PHY 362 - Physics of Waves, 3 credit hours
- PHY 371 - Thermal Physics, 4 credit hours
- PHY 372 - Quantum Physics, 3 credit hours
- PHY 410 - Special Topics in Physics, 1-4 credit hours (approval required)

Advanced PHY elective for Physics, B.A.

In addition to the Advanced PHY electives listed above, the following course may also apply as an Advanced PHY elective for Physics, B.A. majors:

- PHY 311 - Electronic Instrumentation, 3 credit hours

Required Courses

- PHY 103 - Sci & Hist on Development of Nuclear Weapons in WWII, 3 credit hours
- Advanced PHY electives – any two (2) 6-8 credits
- Additional PHY and AST courses – any two (2) 4-8 credits

## **Physics, B.S.**

**Minimum Credits Required: 61**

Physics Core and Advanced Electives

The physics and pre-engineering majors are based on the physics core and the advanced electives.

Physics Core:

- PHY 131 - Physics for Scientists and Engineers I, 4 credit hours
- AND**
- PHY 151 - Introductory Physics Lab I, 1 credit hour
- OR**

- PHY 145 - Applied College Physics I, 5 credit hours  
Either PHY 131 along with PHY 151 or PHY 145, but not both, may be taken for credit.

- PHY 132 - Physics for Scientists and Engineers II, 4 credit hours

**AND**

- PHY 152 - Introductory Physics Lab II, 1 credit hour

**OR**

- PHY 146 - Applied College Physics II, 5 credit hours

Either PHY 132 along with PHY 152 or PHY 146, but not both, may be taken for credit.

- PHY 233 - Modern Physics, 4 credit hours
- PHY 312 - Advanced Laboratory, 3 credit hours

#### Required courses in areas other than Physics

- CHM 111 - General Chemistry I, 4 credit hours
- CHM 112 - General Chemistry II, 3 credit hours
- CHM 115 - General Chemistry Lab, 1 credit hour
- MTH 141 - Calculus I, 4 credit hours
- MTH 142 - Calculus II, 4 credit hours

#### Advanced PHY electives

- PHY 312 - Advanced Laboratory, 3 credit hours
- PHY 313 - Computational Physics, 3 credit hours
- PHY 331 - Physical Mechanics I, 3 credit hours
- PHY 341 - Mathematical Methods in the Physical Sciences, 3 credit hours
- PHY 361 - Electromagnetism, 4 credit hours
- PHY 362 - Physics of Waves, 3 credit hours
- PHY 371 - Thermal Physics, 4 credit hours
- PHY 372 - Quantum Physics, 3 credit hours
- PHY 410 - Special Topics in Physics, 1-4 credit hours (approval required)

#### Required courses:

- PHY 311 - Electronic Instrumentation, 3 credit hours  
**OR** EGR 300 - Electronics, Circuits & Devices, 3 credit hours
- PHY 312 - Advanced Laboratory, 3 credit hours  
Must be taken two times, and may be taken a third time as an elective, with different experiments each time it is taken. With approval by the Department following a presentation and written paper, students may substitute up to three credits of internship or research experience in place of three credits of PHY 312; see the department chair in advance.
- MTH 243 - Calculus III, 4 credit hours
- MTH 245 - Differential Equations, 3 credit hours
- Advanced PHY electives – any five (5) 15-18 credits

## Minors

### Physics Minor

A minor in physics requires a minimum of 20 credit hours of courses in physics. These credits must include either General Physics and Lab or Applied College Physics:

Requirements:

- PHY 131 - Physics for Scientists and Engineers I, 4 credit hours
- AND**
- PHY 151 - Introductory Physics Lab I, 1 credit hour
- OR**
- PHY 145 - Applied College Physics I, 5 credit hours
  
- PHY 132 - Physics for Scientists and Engineers II, 4 credit hours
- AND**
- PHY 152 - Introductory Physics Lab II, 1 credit hour
- OR**
- PHY 146 - Applied College Physics II, 5 credit hours
  
- PHY 233 - Modern Physics, 4 credit hours
- An additional two (2) more different courses must be selected from the advanced PHY electives.

# Political Science

## Majors

### Political Science, B.A.

This major is designed to offer the interested student an opportunity to examine many related aspects of political life including the emerging links between politics in nation states and the ongoing phenomenon of globalization. The courses will acquaint the student with various methods of analysis available for and applicable to the study of political institutions, political thought, and political behavior.

The Political Science major emphasizes global citizenship. The department's curriculum prepares students for the challenges of the 21st century by teaching skills such as critical thinking, problem solving, oral and written communication, and ethical appreciation as well as the substance of politics. The curriculum offers students many opportunities for experiential learning, civic engagement, and collaborative research with faculty and other students. Given its historical affiliation with issues of citizenship, justice, and relations among different nations, Political Science enjoys a special kinship with the Baldwin Wallace University mission statement of preparing students to become "contributing, compassionate citizens of an increasingly global society."

### Careers in Political Science

Political Science majors pursue varied careers after graduation in government, nonprofit, legal, educational, business, and community organizations. The department emphasizes both broad skill-development and substantive knowledge to prepare students for flexible and successful careers. For more specific information about career opportunities, interested students should read the materials available in the Departmental offices, and consult with individual faculty members.

**Minimum Credits Required: 36 (14 of which must be taken at Baldwin Wallace University)**

Required courses:

- POL 101D - U.S. Government and Politics, 3 credit hours
- POL 131 - Democracy and Citizenship, 3 credit hours
- POL 211I - International Politics, 3 credit hours
- POL 221I - Intro to Comparative Politics, 3 credit hours
- POL 240 - Research Design and Methods, 4 credit hours
- POL 390 - Preparing for Post-BW, 1 credit hour
- POL 441X - Public Interest Research, 4 credit hours

Elective courses:

At least five additional courses, totaling 15 semester hours, are required. Four of these additional courses (12 or more semester hours), one in each of the four major subfields noted below, must be taken at the 300-400 course level. Take entry courses before enrolling in more advanced courses. Take the Analysis class only after taking at least two of the other required courses.

No prerequisites for most courses in political science, but some presuppose a prior exposure to specific subject matters. Recommended backgrounds for courses are listed in the course descriptions.

American Politics- any one of the following:

- POL 301 - Congress, The Presidency, and Elections, 3 credit hours
- POL 303 - Public Policy and Administration, 3 credit hours
- POL 304D - Urban Policy and Politics, 3 credit hours



- POL 305 - Women, Politics, and Law, 3 credit hours
- POL 306 - Social Media and Politics, 3 credit hours
- POL 307 - Constitutional Law, 3 credit hours
- POL 308 - Civil Rights and Liberties, 3 credit hours
- POL 310 - U.S. Political Economy, 3 credit hours

International Politics- any one of the following:

- POL 311 - American Foreign Policy, 3 credit hours
- POL 314 - Comparative Foreign Relations, 3 credit hours
- POL 315 - International Organization, 3 credit hours
- POL 363(I) - Seminar in Political Science, 2-3 credit hours
- POL 463 - Seminar in Political Science, 2-3 credit hours

Comparative Politics- any one of the following:

- POL 321 - Democracy and Democratization, 3 credit hours
- POL 323I - Politics of the Middle East, 3 credit hours
- POL 326 - Special Comparative Political Studies, 2-3 credit hours
- POL 329 - Politics and Governance in Africa, 3 credit hours

Political Theory- any one of the following:

- POL 330 - History of Political Philosophy I: Ancient and Medieval, 3 credit hours
- POL 331 - History of Political Philosophy II: Early Modern and Modern, 3 credit hours
- POL 332 - American Political Thought, 3 credit hours
- POL 333D - Contemporary Political Voices at the Margins, 3 credit hours
- POL 339 - Special Topics in Political Theory, 3 credit hours

any one (1) additional elective.

Semester in Washington, DC:

Students can complete part of the Political Science Major by participating in one of our Washington, DC semester-long programs. Students take 15-16 credits, which includes an internship of the student's choice from a wide variety of settings, including Capitol Hill, the White House, non-profits, law firms, national media outlets, and federal agencies such as the Justice Department and State Department. For more information, contact Professor Barbara Palmer in the Political Science Department at [bpalmer@bw.edu](mailto:bpalmer@bw.edu) or the Explorations Office at [explore@bw.edu](mailto:explore@bw.edu). Completion of POL 101D prior to participating is strongly recommended.

## Minors

### Legal Studies Minor

**Minimum Credits Required: 18**

Required Foundation Course: (3 credits)

Take during first or second year:

- POL 207 - Introduction to Law, 3 credit hours

Foundation Skills Course: (3 credits)

Take 1 of the following during second or third year:

- CAS 112 - Presentational Speaking, 3 credit hours
- PHL 201 - Logic and Critical Thinking, 3 credit hours
- PHY 104 - General Problem Solving Techniques, 3 credit hours
- HON 235 - Radicals and Reformers, 3 credit hours

Basic Courses: (3-4 credits)

Choose 1 of the following:

- POL 101D - U.S. Government and Politics, 3 credit hours
- PHL 102 - Introduction to Ethics, 3 credit hours
- PHL 103 - Philosophy and Human Nature, 3 credit hours
- POL 131 - Democracy and Citizenship, 3 credit hours
- PHL 272I - International Ethics, 3 credit hours

Advanced Law Courses: (9 credits)

Take 3 of the following in at least 2 different fields:

- POL 303 - Public Policy and Administration, 3 credit hours
- POL 305 - Women, Politics, and Law, 3 credit hours
- POL 307 - Constitutional Law, 3 credit hours
- POL 308 - Civil Rights and Liberties, 3 credit hours
- CRJ 309 - Criminal Law and the Constitution, 3 credit hours
- BUS 326 - Legal Environment of Organizations, 3 credit hours
- SPM 343 - Legal Issues in Sport Management, 3 credit hours
- MGT 367 - Healthcare Law and Ethics, 3 credit hours
- MGT 412 - Employment Law, 3 credit hours
- CAS 428 - Media Law and Ethics, 3 credit hours
- **Note:** The CAS 126 pre-req has been waived for Legal Studies minors.
- SOC 323 - Sociology of Law, 3 credit hours
- **Note:** SOC 100D is pre-req

Option: Participate in Model UN/NATO/AU

If you would like to count this towards the minor, please contact Professor Barbara Palmer, the Legal Studies Coordinator, at [bpalmer@bw.edu](mailto:bpalmer@bw.edu).

Option: Participate in one of BW's Washington, DC programs

Students who have junior or senior status can complete most of the Legal Studies minor by participating in one of our semester-in-Washington programs. Taking Intro to Law (3 credits) and one of the Foundation Skills courses prior to going to DC is highly recommended. For more information, contact Professor Barbara Palmer, the Legal Studies Coordinator, at [bpalmer@bw.edu](mailto:bpalmer@bw.edu) or the Explorations Office.

## Political Communication Minor

The minor requires a minimum of 18 credits; 6 credits in 2 required courses and 12 credits of electives.

Required:

- POL 101D - U.S. Government and Politics, 3 credit hours

- CAS 115 - Media Literacy, 3 credit hours

Electives:

Take a minimum of 12 credits from the following list. At least 6 credits must be at the 300-400 level. Students can only take a maximum of 6 credits in POL or CAS, ensuring that the minor is truly interdisciplinary.

- CAS 120 - Strategies in Public Relations, 3 credit hours
  - CAS 212 - Persuasive Speaking, 3 credit hours
  - CAS 277D - Media and Diversity, 3 credit hours
  - CAS 315 - Crisis Communication, 3 credit hours
  - CAS 372 - Advanced Media Criticism, 3 credit hours (when content is focused on political communication)
  - CAS 410 - Persuasive Campaigns, 3 credit hours
  - CAS 413 - Argumentation and Debate, 3 credit hours
  - CAS 428 - Media Law and Ethics, 3 credit hours
  - CRJ 345 - Crime in the Media, 3 credit hours
  - INT 250I - Security, Technology and Threat Assessment, 3 credit hours
  - POL 301 - Congress, The Presidency, and Elections, 3 credit hours
  - POL 303 - Public Policy and Administration, 3 credit hours
  - POL 304D - Urban Policy and Politics, 3 credit hours
  - POL 305 - Women, Politics, and Law, 3 credit hours
  - POL 306 - Social Media and Politics, 3 credit hours
  - POL 441X - Public Interest Research, 4 credit hours
  - PSY 321 - Human Relations and Group Dynamics, 3 credit hours
  - SOC 201D - Social Problems, 4 credit hours
- BUS 358 - Business Communications, 3 credit hours
- OR**
- CAS 226 - Writing for Multimedia, 3 credit hours
- OR**
- CAS 232 - Workshop in Journalism, 3 credit hours
- OR**
- CAS 305 - Workshop in New Media, 3 credit hours
- OR**
- ENG 305 - Workshop in Advanced Expository and Argumentative Writing, 3 credit hours

Alternative- Semester in Washington, DC:

Students can complete the Political Communication Minor by participating in the Semester in Washington Program, enrolling in an appropriate seminar, doing an appropriate internship, doing an appropriate research project, plus completing one of the electives listed above. Students must get approval from the Political Communication Program Coordinators in order to exercise this option. For more information, contact Professor Barbara Palmer in the Political Science Department at [bpalmer@bw.edu](mailto:bpalmer@bw.edu) or the Explorations Office at [explore@bw.edu](mailto:explore@bw.edu). Completion of POL 101D prior to participating is strongly recommended.

## Political Science Minor

Of the 18 hours offered for the minor, at least nine must be taken at Baldwin Wallace. Any student may minor in Political Science. With its emphasis on broad skill development, substantive politics, and civic awareness, the minor complements many different majors. Every Baldwin Wallace student must learn to cope successfully with a complex 21<sup>st</sup> century world. The Political Science minor is designed to help students develop this capacity.

Required courses:

Two courses from:

- POL 101D - U.S. Government and Politics, 3 credit hours
- POL 131 - Democracy and Citizenship, 3 credit hours
- POL 211I - International Politics, 3 credit hours
- POL 221I - Intro to Comparative Politics, 3 credit hours
- POL 240 - Research Design and Methods, 4 credit hours

Two advanced courses at 300-400 level: 6 credits

Any two additional courses: 6 credits

Seminar in Washington, DC:

Students can complete most of the Political Science Minor by participating in one of our Washington, DC semester-long programs. Students take 15-16 credits, which includes an internship of the student's choice from a wide variety of settings, including Capitol Hill, the White House, non-profits, law firms, national media outlets, and federal agencies such as the Justice Department and State Department. For more information, contact Professor Barbara Palmer in the Political Science Department at [bpalmer@bw.edu](mailto:bpalmer@bw.edu) or the Explorations Office at [explore@bw.edu](mailto:explore@bw.edu). Completion of POL 101D prior to participating is strongly recommended.

## Pre-Law Program

Cleveland-Marshall College of Law and Baldwin Wallace University have partnered for a 3+3 program. Eligible students complete 91 credits at BW, and then their senior year is their first year of law school. After the successful completion of their first year of law school, 29 credits are transferred to BW for a total of 120 credits. This shortens the amount of time to complete an undergraduate degree and law degree in six years instead of seven. Students are at BW for three years, and Cleveland-Marshall Law School for three years (3+3).

BW Requirements

In order to be eligible, BW students must:

- Have a minimum overall GPA of 3.6 after completion of the 91 credits.
- Complete the BW Core
- Complete the Legal Studies Minor
- Work out a degree plan with the relevant department to complete their major. This program is open to BW students in any major in any department that wishes to participate.

### Cleveland-Marshall School of Law Requirements

Cleveland-Marshall requires that BW students must complete the usual law school application, including taking the LSAT, no later than February of their third year at BW. Students must score in the 60th percentile or above on the LSAT. Once completing these application requirements, after a recommendation by the faculty pre-law advisor at BW and the Assistant Dean for Admissions and Financial Aid at the Cleveland-Marshall, the student is guaranteed admission. BW students are eligible for all scholarship opportunities available to regular applicants.

# Pre-Social Work

## Majors

### **Psychology or Sociology leading to Social Work (3/2 Program), B.A.**

Baldwin Wallace University has a 3+2 affiliation with Case Western Reserve University, leading to a bachelor's degree in psychology or sociology from Baldwin Wallace and a Master's degree in Social Work (MSW) from Case Western Reserve University (CWRU). Students complete three years of study at Baldwin Wallace, meeting the requirements listed below. In the third (junior) year they apply for admission to the Senior Year in Professional Studies Program at the Mandel School of Applied Social Sciences at CWRU.

At the successful completion of the first year of the graduate program at CWRU (30 semester credit hours), Baldwin Wallace will award the B.A.. CWRU will award the MSW at the successful completion of the graduate program, at which time the student has the academic qualifications to test for certification as a Licensed Independent Social Worker in the State of Ohio. Persons holding a Master's in Social Work and the LISW are fully qualified to supervise social service casework, manage social service agencies and establish their own private practice in counseling. For additional information regarding recommended courses of study, application of transfer credit and program residency requirements, students are urged to consult Dr. Jill Stephens Fleisher, [jfleishe@bw.edu](mailto:jfleishe@bw.edu) or a member of the Admission counseling staff.

Students majoring in sociology should take four or more courses in psychology. Those majoring in psychology should take four or more courses in sociology. All 3+2 students, in both majors, should work with the BW liaison person, located in the Sociology Department, as well as their regular advisors.

### **Program Requirements**

- Completion of all core requirements at Baldwin Wallace
- Completion of at least 33 hours in either a sociology or psychology major, with elective courses taken in the other department (student should have a strong background in both sociology and psychology)
- GPA of 3.25 or higher
- Minimum of 94 credit hours of undergraduate course work completed prior to admission to CWRU's Mandel School of Applied Social Sciences (students who transfer credits to BW must complete a minimum of 60 credit hours at BW)
- Strong faculty recommendations from BW and recommendation of the BW program coordinator
- Meet all academic and personal requirements of the Admissions Committee at the Mandel School for acceptance into the graduate program

Minimum credits required:

at least 60 total credits at Baldwin Wallace including a minimum of 33 credits in either the sociology or psychology major (plus prerequisites where applicable).

# Psychology

Consistent with the mission of the University, the Department of Psychology contributes to a high-quality, liberal arts education within the context of an open, diverse environment. The faculty, as scholars and teachers, provide a learning environment rich in the knowledge and skills that comprise the science and application of Psychology. This environment fosters the development of personal and professional responsibility as well as lifelong learning. Psychology students, faculty and staff collaborate to develop and refine the interpersonal and professional knowledge, skills and values of our students so that they will lead compassionate and productive lives.

## Majors

### Psychology, B.S.

Courses in the Department of Psychology are designed to (1) increase students' knowledge about themselves and others, (2) acquaint them with the latest research in the area of human motivation, cognition, psychotherapy, neurophysiology and behavior, (3) engender in students extensive skills applicable to a wide array of careers, (4) develop an appreciation of the scientific method in the investigation of cause and effect relationships in human behavior, and (5) develop insights and understanding of individual differences, cultural differences and developmental changes.

**Minimum Credits Required: 41**

Required Courses:

- PSY 100 - Principles of Psychological Science, 3 credit hours
- PSY 263 - Skills in Psychology, 3 credit hours
- PSY 278 - Elements of Statistics, 4 credit hours
- PSY 279 - Laboratory in Statistical Methods, 3 credit hours
- PSY 380 - Research Methods, 4 credit hours
- PSY 381X - Thesis in Psychology, 3 credit hours

Any two (2) of the following Psychological Processes courses must be successfully completed:

- PSY 303 - Physiological Psychology, 4 credit hours
- PSY 327 - Psychology of Learning, 4 credit hours
- PSY 328 - Cognitive Processes, 4 credit hours
- PSY 329 - Sensation and Perception, 4 credit hours
- Appropriate Seminar 3 credits

Any one (1) of the following Human Relations courses must be successfully completed:

- PSY 245D - Multicultural Psychology, 3-4 credit hours
- PSY 304 - Personality Psychology, 4 credit hours
- PSY 321 - Human Relations and Group Dynamics, 3 credit hours
- PSY 339 - Social Psychology, 4 credit hours
- Appropriate Seminar 3 credits

Any one (1) of the following Developmental courses must be successfully completed:

- PSY 205 - Developmental Psychology, 3 credit hours
- PSY 315 - Child Development, 4 credit hours

- PSY 325 - Adolescent Development, 4 credit hours
- Appropriate Seminar 3 credits

Any one (1) of the following Applied courses must be successfully completed:

- PSY 302 - Psychological Disorders, 4 credit hours
- PSY 312D - Counseling Psychology, 4 credit hours
- PSY 316D - Child Psychopathology, 3 credit hours
- PSY 320 - Industrial/Organizational Psychology, 4 credit hours
- Appropriate Seminar 3 credits

Any one (1) Additional course or seminar to be selected from the following:

- PSY 215D - Psychology of Women, 4 credit hours
- PSY 263 - Special Topics Seminars, 1-4 credit hours
- PSY 301 - Psychological Testing, 4 credit hours
- PSY 326 - Applied Behavior Analysis, 3 credit hours
- PSY 363 - Seminar, 1-4 credit hours
- any course not selected previously from above categories.

Senior Experience:

Select one of the following courses-

- PSY 412 - History and Systems of Psychology, 4 credit hours
- PSY 463 - Seminar, 1-4 credit hours
- PSY 464 - Practicum in Psychology, 4 credit hours

Note:

PSY 295, PSY 395, PSY 495, PSY 298X, PSY 398X, or PSY 498X **may not** be used to fulfill the "Additional course or seminar" requirement.

## Minors

### Psychology Minor

**Minimum total credits for a Psychology minor is 17.**

Requirements:

- PSY 100 - Principles of Psychological Science, 3 credit hours
- and any Psychology classes at the 200, 300 or 400 level (minimum of 14 credits)

# Public Health and Prevention Science

## Majors

### Public Health, B.S.

The Bachelor of Science in Public Health will prepare students for entry level careers in Public Health, graduate programs in Public Health, and other clinical health professions. The major will provide students with the knowledge and skills to investigate and promote the health and well-being of diverse populations and to work towards health equity for all people. The program will provide undergraduate students with competency in disease investigation and prevention, and health promotion and program management. Students will be provided opportunities for hands-on experiences in working with diverse communities and health care organizations regionally, nationally and internationally.

Please contact the department for additional information regarding our Primary Healthcare Advancement affiliation program.

**Minimum Credits Required: 55**

Required Courses:

- MTH 108 - Biostatistics, 3 credit hours
- PHT 170 - Introduction to Public Health, 3 credit hours
- PHT 173 - Global Health, 3 credit hours
- PHT 260 - Methods in Public Health Research, 3 credit hours
- ASW 270 - Principles of Health Promotion, 3 credit hours
- PHT 274 - Environmental Health, 3 credit hours
- PHT 275 - Infectious Disease & Epidemics, 3 credit hours
- PHT 290 - Epidemiology: Measuring Health and Disease, 3 credit hours
- PHT 370 - Health Policy & Public Health, 3 credit hours
- PHT 375X - Health and Social Justice, 3 credit hours
- PHT 475 - Capstone Seminar, 1 credit hours
- PHT 491 - Capstone Thesis/Project, 1-4 credit hours (3 credit hours required)
- PHT 497X - Public Health Internship, Credit hours to be arranged (3 credit hours required)

Concentration:

Complete one of the following concentrations-

Population Health and Disparities Concentration:

- PHT 285 - Fundamentals of GIS, 3 credit hours
- SOC 345 - Medical Sociology, 3 credit hours
- PHT 450S - Community Health Assessment, 3 credit hours
- PHT 460 - Population Health Promotion Planning and Evaluation, 3 credit hours

Applied Epidemiology and Disease Mapping Concentration:

- PHT 285 - Fundamentals of GIS, 3 credit hours
- PHT 330 - Spatial Epidemiology, 3 credit hours
- PHT 410 - GIS Models in Public Health, 3 credit hours



- PHT 490 - Applied Epidemiologic Methods, 3 credit hours

Pre-Clinical Concentration:

- BIO 340 - Medical Case Studies, 3 credit hours
- SOC 345 - Medical Sociology, 3 credit hours

Biology/Chemistry Electives:

Complete 6 credit hours from the following-

- BIO 121 - Principles of Biology I, 4 credit hours
- BIO 122 - Principles of Biology II, 4 credit hours
- BIO 203 - Human Anatomy and Physiology I, 4 credit hours
- BIO 204 - Human Anatomy and Physiology II, 4 credit hours
- BIO 336 - Molecular Biology, 4 credit hours
- CHM 111 - General Chemistry I, 4 credit hours
- CHM 112 - General Chemistry II, 3 credit hours
- CHM 115 - General Chemistry Lab, 1 credit hour
- CHM 251 - Organic Chemistry I, 3 credit hours
- CHM 252 - Organic Chemistry II, 3 credit hours
- CHM 255 - Organic Chemistry I Laboratory, .5 credit hour
- CHM 256 - Organic Chemistry II Laboratory, 1 credit hour
- CHM 311 - Biochemistry, 3 credit hours
- CHM 315 - Biochemistry Laboratory, 1 credit hour

Electives:

Choose 6 credit hours from the following: *(courses used to fulfill concentration requirements may not be used to fulfill these electives)*

- ASW 206 - Medical Terminology, 2 credit hours
- ASW 312W - Substance Abuse/Chemical Dependency, 3 credit hours
- ASW 335 - Health Behavior Management, 3 credit hours
- BIO 203 - Human Anatomy and Physiology I, 4 credit hours
- BIO 204 - Human Anatomy and Physiology II, 4 credit hours
- BIO 211 - Genetics, 4 credit hours
- CRJ 165 - Overview of the Criminal Justice System, 3 credit hours
- CSC 141 - Advanced Applications for Information Analysis, 3 credit hours
- CSC 212 - Intro to Programming for Scientists & Engineers, 3 credit hours
- CSC 280 - Data Systems, 3 credit hours
- ECN 121 - Principles of Microeconomics, 3 credit hours
- ECN 122 - Principles of Macroeconomics, 3 credit hours
- PHL 274 - Bioethics, 3 credit hours
- PHT 118W - Foundations of Clinical Nutrition for Nursing & Health Professionals, 3 credit hours
- PHT 240D - Gender, Sex, and Health, 3 credit hours
- PHT 265 - Data Analysis with R, 3 credit hours
- PHT 310 - Introduction to Emergency Preparedness and Management, 3 credit hours
- PHT 340 - Intermediate GIS, 3 credit hours
- PHT 350 - Health, Food Science, and Technology, 3 credit hours
- PHT 373 - Special Topics in Public Health, 3 credit hours

- PHT 380 - Chronic Disease Epidemiology, 3 credit hours
- PHT 390 - Outbreak Investigation, 3 credit hours
- POL 240 - Research Design and Methods, 4 credit hours
- SPN 270S - Spanish for Healthcare Providers, 3 credit hours
- SUS/PHL 273(X) - Environmental Ethics, 3 credit hours

## **Minors**

### **Public Health Minor**

**Minimum Credits Required:18**

Required Courses:

- PHT 170 - Introduction to Public Health, 3 credit hours
  - PHT 173 - Global Health, 3 credit hours
  
  - PHT 274 - Environmental Health, 3 credit hours
- OR**
- PHT 285 - Fundamentals of GIS, 3 credit hours
  
  - PHT 290 - Epidemiology: Measuring Health and Disease, 3 credit hours
  - PHT 370 - Health Policy & Public Health, 3 credit hours
  - PHT 375X - Health and Social Justice, 3 credit hours

# Religion

The courses offered by the Religion Department explore the religious dimensions of human experience as expressed in literary, historical, & symbolic forms. They focus on how human response to the sacred in word and deed becomes part of a system of meaning and purpose. Using a variety of disciplinary perspectives, Religion Department courses introduce students to a wide range of the religious traditions of the world.

The main goal of all Religion Department courses is to equip students with the skills for understanding and appreciating the rich diversity of religious traditions from around the world, as well as their own religious experience, and for identifying and interpreting for themselves the ultimate questions religious traditions address.

The courses of the department are grounded in a commitment to the liberal arts by their focus on interdisciplinary approaches, critical thinking, writing skills and personal and spiritual development. While a religion major is ideal for the pursuit of a Christian vocation or graduate work in religious studies, its emphases on thinking, writing, and ethics make it equally valuable for a variety of careers in the public or private sector.

## Majors

### Religion, B.A.

**Minimum Credits Required: 33**

Required Courses:

- REL 100 - Introduction to Religion, 3 credit hours
- OR**
- REL 105S - Religion for the Citizen, 3 credit hours
  - REL 127 - Contemplative Spirituality, 3 credit hours
  - HUM 215 - Career Pathways for Humanities Majors, 1 credit hour
  - REL 290 - The Good Life, 1 credit hour (taken twice for credit)
  - REL 363/463 - Seminar in Religion, 3-4 credit hours
  - REL 491 - Departmental Thesis/project, 3-4 credit hours

Distribution Requirements:

Scripture-

Choose one from:

- REL 242 - Intro to the Hebrew Bible/ Old Testament, 3 credit hours
- REL 246 - Introduction to the New Testament, 3 credit hours

Religion in Cultural Contexts: History, Theology, Culture-

Choose one from:

- REL 165 - Religion and Popular Culture, 3 credit hours
- REL 2011 - Buddhist Culture in Asia, 3 credit hours

World Religions-

Choose one from:

- REL 215I - Death and the Afterlife in the World's Religions, 3 credit hours

- REL 216I - Religion, Gender, and Sexuality, 3 credit hours
- REL 217I - Religion, Violence & Peace, 3 credit hours
- REL 218D - World Religions in the U.S., 3 credit hours
- REL 219I - Religion and the Environment, 3 credit hours

Upper Level-

- REL 363/463 - Seminar in Religion, 3-4 credit hours (*second instance*)
- REL 395 - Independent Study, 1-4 credit hours
- REL 397X - Advanced Internship, 3-4 credit hours

Elective Courses:

- Two or more Religion elective courses, 6 credit hours

Evaluation Requirements:

(To be completed during the last semester of senior year. If completed earlier, the evaluations will be discarded and must be completed again.)

- A. Senior Evaluation (on Blackboard)
- B. Senior Reflection Essay (on Blackboard)

## Minors

### Religion Minor

A minor in Religion requires a minimum of 19 credit hours including three required courses: REL 100/REL 105S, REL 290 (one semester) and REL 363/REL 463 (one advanced seminar). Prerequisites apply to the following courses: REL 290 (requires one course in religion), REL 363 and REL 463 (each requires one course in religion and completion of ENG 131). Prerequisites are included in the 19 credit hour total. Elective courses, including Independent Study projects and/or internships, fill out the balance of credit hours. For further information on Independent Study/Internships, contact the Department Chair. Finally, minors are required to complete both the Senior Evaluation form and the Senior Reflection essay which can be found on the department Blackboard site.

**Minimum Credits Required: 19**

Required Courses:

- REL 100 - Introduction to Religion, 3 credit hours
- OR**
- REL 105S - Religion for the Citizen, 3 credit hours
- 
- REL 290 - The Good Life, 1 credit hour
- 
- REL 363 - Seminar in Religion, 3 or 4 credit hours
- OR**
- REL 463 - Seminar in Religion, 3 or 4 credit hours

Elective Courses:

- Four or more Religion elective courses 12 credits

Evaluation Requirements:

(To be completed during the last semester of senior year. If completed earlier, the evaluations will be discarded and must be completed again.)

- A. Senior Evaluation (on Blackboard)
- B. Senior Reflection Essay (on Blackboard)

# Research & Data Analytics

## Minors

### Research and Data Analytics Minor

Minimum Credits Required: 20

Introductory Statistics:

Take one of the following courses-

- MTH 105 - Introduction to Probability and Statistics, 3 credit hours
- MTH 108 - Biostatistics, 3 credit hours
- MTH 235 - Probability & Statistics for Scientists & Engineers, 3 credit hours
- MTH 279 - Basic Statistical Methods, 3 credit hours
- FNC 280 - Applied Financial Statistics, 3 credit hours
- PSY 278 - Elements of Statistics, 4 credit hours

Introductory Programming:

Take one of the following courses-

- DSA 101 - Introduction to Data Science, 3 credit hours
- CSC 210 - Computer Science I: Programs and Applications, 3 credit hours
- CSC 212 - Intro to Programming for Scientists & Engineers, 3 credit hours

Research Methods:

Take one of the following courses-

- ASW 209 - Research Design & Statistics in Sport Sciences, 3 credit hours
- CAS 311 - Quantitative Communication Research I, 3 credit hours
- CSD 440 - Research Methods in Communication Disorders, 3 credit hours
- ECN 320 - Research Methods and Design, 2 credit hours
- PHT 260 - Methods in Public Health Research, 3 credit hours
- POL 240 - Research Design and Methods, 4 credit hours
- PSY 380 - Research Methods, 4 credit hours
- SOC 280 - Research Methods, 4 credit hours

Qualitative Analysis:

- SOC 282 - Qualitative Methods, 3 credit hours

Advanced Data:

Take one of the following courses-

- CSC 280 - Data Systems, 3 credit hours
- POL 306 - Social Media and Politics, 3 credit hours
- CSC 340 - Data Analysis & Visualization, 3 credit hours
- BIS 340 - Visualizing Data for Business Analysis, 3 credit hours
- POL 441X - Public Interest Research, 4 credit hours

Advanced Research Analysis:

Take one of the following courses-

- ECN 288X - Engineering Economics, 3 credit hours
- ECN 344 - Game Theory, 3 credit hours
- ECN 379 - Intermediate Statistical Methods, 3 credit hours
- GEO 205 - Geographic Information Systems, 4 credit hours
- MKT 432 - Marketing Research & Information Systems, 3 credit hours
- PHT 285 - Fundamentals of GIS, 3 credit hours
- PSY 279 - Laboratory in Statistical Methods, 3 credit hours
- SOC 281 - Data Analysis Using PASW, 4 credit hours

Applied Research & Analysis Experience:

Research and Data Analytics minors will complete an applied research and analysis experience worth 3 credits. The experience will be arranged and advised by faculty affiliated with the BW Community Research Institute (CRI). Options include project work for the CRI, the Digital Marketing Clinic, the CIG Growth Practice, or specific project assignments during an internship. Analytical projects arranged through Faculty-Students Collaborative, Summer Scholars program, or an independent study specifically involving applied social research and analysis are also possible. Students will be expected to present their research to an audience including faculty & peers (e.g., Ovation, department seminar, CIG event).

## Sociology

Sociology is a life-skill. It allows individuals to make informed and objective choices when faced with life's most difficult and challenging conditions. A sociology major at Baldwin Wallace University will seek to understand a wide variety of human relationships, the interrelatedness between the individual and the society, and the general functioning of the modern global society. At Baldwin Wallace, students learn about and actively test theories of society and produce their own research in the department's state-of-the-art computer lab. The skills acquired are thus not only useful to better prepare students for life, but are at the same time marketable skills that a variety of employers and graduate schools look for. Students with a degree in sociology from Baldwin Wallace University should be able to: apply a sociological perspective in their professional careers and in their everyday lives; critically evaluate information that is presented to them; and conduct sociological research using the principles of scientific inquiry.

The sociology program encourages active citizenship through service and experiential learning. The department emphasizes research and data analysis skills and prepares students accordingly. It also prepares students for graduate programs and a wide variety of careers that require a baccalaureate degree, including positions in social services, government and business organizations, as well as research agencies. "Many students choose sociology because they see it as a broad liberal arts base for professions such as law, education, medicine, social work, and counseling." (Quote from The American Sociological Association.)

## Majors

### Sociology, B.A.

**Minimum Credits Required: 40**

Required Courses:

- SOC 100D - Principles of Sociology, 3 credit hours
- SOC 280 - Research Methods, 4 credit hours
- SOC 281 - Data Analysis Using PASW, 4 credit hours
- SOC 301D - Social Inequalities, 3 credit hours
- SOC 303I - Urban Community Life, 4 credit hours
- SOC 315 - Sociological Theory, 3 credit hours
- SOC 400 - Applied Sociological Research, 4 credit hours
- SOC 450 - Sociology Proseminar, 3 credit hours

Choice of one:

- PSY 278 - Elements of Statistics, 4 credit hours
- MTH 279 - Basic Statistical Methods, 3 credit hours
- MTH 105 - Introduction to Probability and Statistics, 3 credit hours
- MTH 108 - Biostatistics, 3 credit hours

Required Sociology Elective credits:

Minimum of three courses for 9-12 hours (at least two courses must be 300-level or above)

Additional Information on the Major

Up to three credit hours of Independent Study (SOC 295, 395, 495) and four credits of Field Experience (SOC 298X, 398X, 498X) may be counted toward the 40-42 credit requirements. Transfer students must take at least five courses in sociology at Baldwin Wallace, of which at least 3 courses must be at the 300- 400 course level.

Students majoring in sociology generally select one of four broad career paths:



1. Business positions, often in sales, marketing, or human resources departments. Courses such as SOC 301D - Social Inequalities, 3 credit hours; SOC 310 - Work in America, 4 credit hours; and research and SOC 281 - Data Analysis Using PASW, 4 credit hours using PASW are especially appropriate for this career goal. A minor in business is recommended. Internships can be arranged in a variety of settings.
2. Government agencies and urban planning. Students electing this career goal should do an independent study using PASW and an internship.
3. Social services in the private sector, including work with children, elderly in nursing homes and community action programs. Those intending to become social workers should plan for graduate school and professional certification (see the 3+2 social work program). Courses in Aging, Juvenile Delinquency and Social Problems are especially appropriate for this career path, as is the Gerontology Minor. An internship with a public or private agency is recommended.
4. Professional sociologists teaching at the University level or conducting research, or consulting in business and nonprofit organizations. This career goal requires graduate work, usually to the Ph.D. level. Students planning graduate work in any area of social science should do an independent study employing quantitative research techniques.

In addition to these career paths, some sociology majors go to law school. Others take jobs in the criminal justice field or hold management positions in the public and private sector. The department has additional information on career options. Students in all career paths are encouraged to use independent studies, internships and service learning opportunities to extend their education and prepare for job entry. Ordinarily, course work or work experience in the area of interest must precede the independent study.

Students interested in double majors, pairing sociology with psychology, business, criminal justice, communications, or political science, will receive credit in the sociology major for one or more course in the second major. Information on sociology double majors is available in the department office.

The Department of Sociology periodically offers seminars designated as SOC 263 or SOC 463 to acquaint the interested student with a wide range of special topics. SOC 250 - Topics in Sociology, 3 credit hours includes courses dealing with specialized areas; SOC 350 - Topics In Sociology, 3 credit hours will include a significantly greater component of academic rigor and/or computer labs/service learning/additional research obligations found in courses such as "*Criminology*," "*Social Inequalities*," "*Urban Community Life*," "*Social Policies on Aging*," "*Race and Racism from a Socio-Anthropological Perspective*," or a sociological study of a particular country.

## Minors

### Sociology Minor

**Minimum Credits Required: 19**

Required:

- SOC 100D - Principles of Sociology, 3 credit hours

Select at least one:

If you had a previous methods course, we recommend that you take Sociological Theory.

- SOC 280 - Research Methods, 4 credit hours
- SOC 315 - Sociological Theory, 3 credit hours

Additional courses to total 19 hours

Note:

A minimum of three sociology courses must be taken at Baldwin Wallace. No more than four hours (combined) of SOC 295, 395, 495 and SOC 298X, 398X, 498X credit may be counted toward the minor.

## Sustainability

Sustainability is a broad, new concept that has become pre-eminent within twenty-first century global society. It concerns the attempt to understand how the growth of human society threatens the future health and well-being of humans and the natural world in which we live. Most critically, it seeks effective solutions that advance not only human well-being but also the health of the planet. This major exposes the student to the broad diversity of academic disciplines that are critical to understanding and creating solutions for this social and environmental challenge, including life and earth sciences, the social sciences, business and the humanities. It seeks to couple the knowledge, skills, and values of these disciplines with practical, hands-on experiences outside the classroom so that the successful graduate is able to effectively understand, live, and work in a world that will be significantly different from the past. Each student selects an upper level course track according to one's personal and professional interests and aspirations. A mandatory internship or field experience provides "real life" exposure to sustainability challenges. A final capstone course weaves together interdisciplinary knowledge and practical problem-solving experiences.

## Majors

### Sustainability, B.A.

The Sustainability Program (Environmental Studies) is committed to preparing students to become contributing, compassionate global citizens in tune with BW's core mission. As a Silver STARS (Sustainability Tracking Assessment Rating System) rated AASHE (Association for the Advancement of Sustainability in Higher Education) member institution, we train students in the problem-solving methodology of Triple Bottom Line thinking. This means employing a transdisciplinary cost-benefit assessment, lifecycle analysis, and nested systems approach to evaluate the environmental, social, and economic consequences of the choices we make both individually and collectively to achieve the greatest benefit at the least cost to future generations. Sustainability majors may choose one of four possible concentrations including (1) Business, (2) Quantitative, (3) Policy and Ethics, or (4) Science. All four concentrations begin with similar foundational coursework and transdisciplinary options. Upper level coursework is geared towards deepening the knowledge base of students in each of the four concentrations as students prepare for careers with specialized knowledge in these substantive areas. The program concludes with a capstone course providing students with a team-based learning experience on selected projects emphasizing the practical application of sustainability methods. We also encourage students with strong interests in the sciences to review the Environmental Science major offered at BW. Double majoring in SUS/ENV is also popular with the possibility of completing various Core requirements in the SUS major along with shared science coursework.

**Minimum Credits Required: 49-58**

Required Courses:

- BIO 122 - Principles of Biology II, 4 credit hours
- SUS 150 - Humans & The Earth: Can We Coexist?, 3 credit hours
- SUS 250 - Sustainability for the Professional: Tools, Methods, and Credentials, 3 credit hours
- SUS/MGT 340 - Biomimicry- Nature Inspired Product Design, 3 credit hours
- SUS 400 - Sustainability Capstone, 3 credit hours

Choose One of the Following:

- ENV 101 - Principles of Environmental Science, 4 credit hours
- ENV 201 - Energy and Climate, 3 credit hours
- GEO 104 - Geology of National Parks, 4 credit hours
- GEO 111 - The Dynamic Earth, 4 credit hours
- GEO 121 - Physical Geography, 4 credit hours
- GEO 227 - Environmental Geology, 3 credit hours

**Note:** Neither of the ENV courses count toward Natural Science Core requirements.

Transdisciplinary Requirement: (select three of the following)

- ASW 222W - Community Health, 3 credit hours
- HIS 205 - History and the Environment: Global Perspectives, 3 credit hours
- MGT 350 - Green Business, 3 credit hours
- PHT 274 - Environmental Health, 3 credit hours
- REL 219I - Religion and the Environment, 3 credit hours
- SOC 288 - Environmental Sociology, 3 credit hours
- SUS 205 - Environmental Policy, 3 credit hours
- SUS/PHL 273(X) - Environmental Ethics, 3 credit hours

**Note:** Students may not take both ASW 222W & PHT 274 to satisfy the transdisciplinary requirement.

Statistics: (select one of the following)

- MTH 105 - Introduction to Probability and Statistics, 3 credit hours
- MTH 108 - Biostatistics, 3 credit hours
- MTH 235 - Probability & Statistics for Scientists & Engineers, 3 credit hours
- MTH 279 - Basic Statistical Methods, 3 credit hours
- PSY 278 - Elements of Statistics, 4 credit hours

Experiential Learning Component:

Options for the 3 credit experiential learning component include:

- a. an internship with an organization that explicitly relates to sustainability
- b. an approved study abroad experience that includes a sustainability component
- c. a sustainability based research project

Concentrations:

Select one of the four upper level concentration of courses (business administration, policy and ethics, quantitative, or sciences). Courses may not be mixed among the four concentrations.

Business Administration Concentration:

Required Course:

- CHM 150 - Introductory Chemistry, 3 credit hours

Elective Courses: *At least 12 credits hours should be completed from the following-*

- BUS 326 - Legal Environment of Organizations, 3 credit hours
- BUS 358 - Business Communications, 3 credit hours
- BUS 360I - Political & Social Responsibility of Multinational Corporation, 3 credit hours
- ENT 315 - Managing a Growing Venture, 3 credit hours
- ENT 415X - Entrepreneurship Capstone Experience, 3 credit hours
- FNC 342 - Corporate & Organizational Finance, 3 credit hours
- MGT 205 - Introduction to Management, 3 credit hours
- MGT 329 - Organizational Ethics, 3 credit hours
- MKT 230 - Introduction to Marketing, 3 credit hours

Policy and Ethics Concentration:

Required Courses:

- CHM 150 - Introductory Chemistry, 3 credit hours
- SUS 205 - Environmental Policy, 3 credit hours

**OR**

- SUS/PHL 273(X) - Environmental Ethics, 3 credit hours

**Note:** Students may take both SUS 205 and SUS/PHL 273(X) to fulfill the Transdisciplinary Requirement.

Elective Courses: *At least 12 credits hours should be completed from the following-*

- CAS 315 - Crisis Communication, 3 credit hours
- ECN 356D - Urban & Regional Economics, 3 credit hours
- ECN 358 - Environmental Economics, 3 credit hours
- ECN 362 - Economics of Developing Countries, 3 credit hours
- ECN 365I - International Economics, 3 credit hours
- ENG 308 - Nature Writing, 3 credit hours
- GEO 205 - Geographic Information Systems, 4 credit hours
- INT 250I - Security, Technology and Threat Assessment, 3 credit hours
- POL 301 - Congress, The Presidency, and Elections, 3 credit hours
- POL 303 - Public Policy and Administration, 3 credit hours
- POL 315 - International Organization, 3 credit hours
- SOC 303I - Urban Community Life, 4 credit hours

Quantitative Concentration:

Required Course:

- CHM 150 - Introductory Chemistry, 3 credit hours

Elective Courses: *At least 12 credits hours should be completed from the following-*

- CSC 141 - Advanced Applications for Information Analysis, 3 credit hours
- GEO 205 - Geographic Information Systems, 4 credit hours
- MTH 142 - Calculus II, 4 credit hours
- MTH 243 - Calculus III, 4 credit hours

Sciences Concentration:

Required Courses:

- BIO 121 - Principles of Biology I, 4 credit hours
- CHM 111 - General Chemistry I, 4 credit hours
- CHM 112 - General Chemistry II, 3 credit hours
- CHM 115 - General Chemistry Lab, 1 credit hour

Elective Courses: *At least 12 credits hours should be completed from the following, including at least two courses at the 300 level-*

- BIO 211 - Genetics, 4 credit hours
- BIO 212 - Microbiology, 4 credit hours
- BIO 221 - General Zoology, 3 credit hours
- BIO 222 - General Botany, 3 credit hours
- BIO 308 - Evolution of Animal Behavior, 4 credit hours
- BIO 309 - Vertebrate Natural History, 4 credit hours
- BIO 310 - Evolution, 4 credit hours
- BIO 311 - Conservation Biology, 4 credit hours
- BIO 313 - Ecology, 4 credit hours
- BIO 314 - Molecular Ecology, 4 credit hours
- BIO 322 - Plant Evolution, 4 credit hours
- BIO 334 - Invertebrate Natural History, 4 credit hours
- BIO 336 - Molecular Biology, 4 credit hours
- BIO 337 - Plant Physiology, 4 credit hours
- CHM 251 - Organic Chemistry I, 3 credit hours **AND**
- CHM 255 - Organic Chemistry I Laboratory, .5 credit hour
- CHM 281 - Environmental Chemistry, 3 credit hours **AND**
- CHM 285 - Environmental Chemistry Laboratory, 1 credit hour
- ENV 305 - Biogeochemistry, 4 credit hours
- GEO 205 - Geographic Information Systems, 4 credit hours
- GEO 315 - Hydrology, 4 credit hours
- GEO 316 - Soils and Geomorphology, 4 credit hours

## Minors

### Sustainability in Engineering Minor

The interdisciplinary minor in Sustainability in Engineering aligns with ABET's (Accreditation Board of Engineering and Technology) foundational Criteria for Accrediting Engineering Programs including the incorporation of sustainability into design thinking along with multidisciplinary systems thinking in addressing complex challenges of the 21st century. This aligns with long-term trends in the field of engineering where professionals must have familiarity with Triple Bottom Line (social equity, environmental impact, and economic feasibility) assessment including economic input-output lifecycle assessment analysis (EIO-LCA), design for disassembly, cost benefit analysis (CBA), risk assessment, biomimicry, and more. Likewise, this minor is in tune with the Association for the Advancement of Sustainability in Higher Education's (AASHE) STARS Technical Manual which emphasizes that learners acquire the knowledge and skills needed to promote Sustainable Development Goals (SDGs). As such, students are exposed both through required coursework in Engineering and Sustainability along with selected coursework across multiple disciplines such as Economics, Public Health, Philosophy, and Sociology to evaluate design challenges from a nested systems perspective as cutting-edge problem solvers.

**Minimum Credits Required: 18**

Required Courses:

- SUS 150 - Humans & The Earth: Can We Coexist?, 3 credit hours
- OR**
- SUS 250 - Sustainability for the Professional: Tools, Methods, and Credentials, 3 credit hours
  - SUS/ MGT 340 - Biomimicry- Nature Inspired Product Design, 3 credit hours

- EGR 305 - Global Engineering Experience, 3 credit hours
- EGR 306 - Product Design & Entrepreneurship, 3 credit hours

Liberal Arts Elective:

Choose one of the following:

- ASW 222W - Community Health, 3 credit hours
- ECN 288X - Engineering Economics, 3 credit hours
- ECN 358 - Environmental Economics, 3 credit hours
- ECN 362 - Economics of Developing Countries, 3 credit hours
- ENG 308 - Nature Writing, 3 credit hours
- HIS 205 - History and the Environment: Global Perspectives, 3 credit hours
- SUS/PHL 273(X) - Environmental Ethics, 3 credit hours
- PHT 274 - Environmental Health, 3 credit hours
- REL 219I - Religion and the Environment, 3 credit hours
- SOC 288 - Environmental Sociology, 3 credit hours
- SUS 205 - Environmental Policy, 3 credit hours

Additional Elective:

Choose one additional elective from the following:

- ASW 222W - Community Health, 3 credit hours
- BUS 326 - Legal Environment of Organizations, 3 credit hours
- BUS 360I - Political & Social Responsibility of Multinational Corporation, 3 credit hours
- ECN 288X - Engineering Economics, 3 credit hours
- ECN 358 - Environmental Economics, 3 credit hours
- ECN 362 - Economics of Developing Countries, 3 credit hours
- EGR 420 - Sustainable Power Generation, 3 credit hours
- ENG 308 - Nature Writing, 3 credit hours
- HIS 205 - History and the Environment: Global Perspectives, 3 credit hours
- MGT 329 - Organizational Ethics, 3 credit hours
- MGT 350 - Green Business, 3 credit hours
- SUS/PHL 273(X) - Environmental Ethics, 3 credit hours
- PHT 274 - Environmental Health, 3 credit hours
- REL 219I - Religion and the Environment, 3 credit hours
- SOC 288 - Environmental Sociology, 3 credit hours
- SUS 205 - Environmental Policy, 3 credit hours

## Sustainability Minor

The Sustainability Program (Environmental Studies) is committed to preparing students to become contributing, compassionate global citizens in alignment with BW's mission. As a Silver STARS (Sustainability Tracking Assessment Rating System) rated AASHE (Association for the Advancement of Sustainability in Higher Education) member institution, we train students in the problem-solving methodology of Triple Bottom Line thinking. This means employing a transdisciplinary cost-benefit assessment, lifecycle analysis, and nested systems approach to evaluate the environmental, social, and economic consequences of the choices we make both individually and collectively to achieve the greatest benefit at the least cost to future generations. Our robust minor is designed to canvass the major issues in the sustainability arena today while helping students to complete various BW Core requirements. We encourage students to review the major in Sustainability as we have four concentrations that appeal to students with

various interests along with our undergraduate Sustainability Certificate which has fewer requirements than this minor.

**Minimum Credits Required: 21**

A. Humans and the Earth Requirement: (3 credits)

- SUS 150 - Humans & The Earth: Can We Coexist?, 3 credit hours

B. Science Requirement: (6-9 credits)

Non-Science Majors: *Select one of the following options-*

Non-Science Option A

- MTH 105 - Introduction to Probability and Statistics, 3 credit hours
- AND**
- one course from those listed below.

Non-Science Option B

Select one of the following sets of courses.

- BIO 121 - Principles of Biology I, 4 credit hours
  - BIO 122 - Principles of Biology II, 4 credit hours
- OR**
- CHM 111 - General Chemistry I, 4 credit hours
  - CHM 112 - General Chemistry II, 3 credit hours
  - CHM 115 - General Chemistry Lab, 1 credit hour
- OR**
- BIO 110 - Biology for the Citizen, 4 credit hours
  - CHM 150 - Introductory Chemistry, 3 credit hours
- OR**
- ENV 101 - Principles of Environmental Science, 4 credit hours
  - ENV 201 - Energy and Climate, 3 credit hours
- OR**
- GEO 104 - Geology of National Parks, 4 credit hours (or GEO 111 may be substituted)
  - GEO 121 - Physical Geography, 4 credit hours (or GEO 227 may be substituted)
- Note:** Neither ENV courses count for Natural Science Core requirements.

Science Majors: *Select one of the following options-*

Science Option A

Take one of the following:

- MTH 105 - Introduction to Probability and Statistics, 3 credit hours
- MTH 108 - Biostatistics, 3 credit hours
- MTH 235 - Probability & Statistics for Scientists & Engineers, 3 credit hours
- PSY 278 - Elements of Statistics, 4 credit hours
- MTH 279 - Basic Statistical Methods, 3 credit hours

**AND**

- one course from those listed below that does not carry their major prefix or is not a requirement in their major.

#### Science Option B

Select two courses from those listed below that do not carry their major prefix or are not a requirement in their major.

- BIO 211 - Genetics, 4 credit hours
- BIO 212 - Microbiology, 4 credit hours
- BIO 221 - General Zoology, 3 credit hours
- BIO 222 - General Botany, 3 credit hours
- BIO 308 - Evolution of Animal Behavior, 4 credit hours
- BIO 309 - Vertebrate Natural History, 4 credit hours
- BIO 310 - Evolution, 4 credit hours
- BIO 311 - Conservation Biology, 4 credit hours
- BIO 313 - Ecology, 4 credit hours
- BIO 322 - Plant Evolution, 4 credit hours
- BIO 334 - Invertebrate Natural History, 4 credit hours
- BIO 336 - Molecular Biology, 4 credit hours
- BIO 337 - Plant Physiology, 4 credit hours
- GEO 121 - Physical Geography, 4 credit hours
- GEO 227 - Environmental Geology, 3 credit hours
- GEO 315 - Hydrology, 4 credit hours
- GEO 316 - Soils and Geomorphology, 4 credit hours
- CHM 221 - Quantitative Analysis, 3 credit hours **AND**
- CHM 225 - Quantitative Analysis Laboratory, 1 credit hour
- CHM 281 - Environmental Chemistry, 3 credit hours **AND**
- CHM 285 - Environmental Chemistry Laboratory, 1 credit hour

#### C. Sustainability Electives: (12 credits)

Courses must come from at least 3 distinct prefixes:

- ASW 207W - Nutrition for Daily Living, 3 credit hours
- OR**
- ASW 222W - Community Health, 3 credit hours
  - ECN 358 - Environmental Economics, 3 credit hours
  - ECN 362 - Economics of Developing Countries, 3 credit hours
  - ENG 308 - Nature Writing, 3 credit hours
  - HIS 205 - History and the Environment: Global Perspectives, 3 credit hours
  - MGT 350 - Green Business, 3 credit hours
  - PHT 274 - Environmental Health, 3 credit hours
  - REL 219I - Religion and the Environment, 3 credit hours
  - SOC 288 - Environmental Sociology, 3 credit hours
  - SUS 205 - Environmental Policy, 3 credit hours
  - SUS 250 - Sustainability for the Professional: Tools, Methods, and Credentials, 3 credit hours
  - SUS/PHL 273(X) - Environmental Ethics, 3 credit hours
  - SUS/MGT 340 - Biomimicry- Nature Inspired Product Design, 3 credit hours

**Note:** Students may use SUS prefix courses to satisfy requirement.



## Theatre and Dance

The theatre major is designed to provide students with a broad introduction to the major in addition to focusing on an area of specialization. Students begin the major by taking a series of common courses in literature, history, collaborative studies, introduction to acting and stagecraft. In addition, students choose a specialized track from one of the following areas: acting and directing; design and technical studies; or stage management. Courses are supplemented through an ambitious production program, allowing students to put classroom experiences into real-world practice.

### Majors

#### Acting, B.F.A.

No minor required for Acting Majors.

**Minimum Credits Required: 91**

Required Courses:

- THE 101 - Fundamentals of Acting, 3 credit hours
- THE 102 - Intro to Scene Study, 3 credit hours
- THE 103 - Voice for the Actor 1, 3 credit hours
- THE 104 - Voice for the Actor 2, 3 credit hours
- THE 105 - Movement for the Actor 1, 3 credit hours
- THE 106 - Movement for the Actor 2, 3 credit hours
- THE 110 - Fundamentals of Theatrical Design & Production, 3 credit hours
- THE 150 - Makeup for the Stage, 1 credit hour
- THE 161 - On-stage Experience, 1-2 credit hours (4 credit hours required)
- THE 162 - Backstage Experience, 1-2 credit hours (2 credit hours required)
- THE 190 - Script Analysis, 3 credit hours
- THE 201 - Audition Techniques, 3 credit hours
- THE 202 - Intermediate Scene Study, 3 credit hours
- THE 203 - Voice for the Actor 3, 3 credit hours
- THE 204 - Voice for the Actor 4, 3 credit hours
- THE 205 - Movement for the Actor 3, 3 credit hours
- THE 206 - Movement for the Actor 4, 3 credit hours
- THE 270 - Collaborative Studies in Theatre, 3 credit hours
- THE 277 - Stage Combat I, 3 credit hours
- THE 288I - Theatre History I, 3 credit hours
- THE 289I - Theatre History II, 3 credit hours
- THE 301 - Acting on Camera, 3 credit hours
- THE 302 - Acting Shakespeare, 3 credit hours
- THE 303 - Business of Acting, 2 credit hours
- THE 401 - Advanced Scene Study, 3 credit hours
- THE 402 - BFA Showcase, 3 credit hours
- DAN 120 - Ballet I Practicum, 1 credit hour
- ASW 121W - Jazz I Practicum, 1 credit hour
- DAN 122 - Modern I Practicum, 1 credit hour
- DAN 222 - Modern II Practicum, 1 credit hour

Electives:

Complete 12 credits from the following list of courses. Additional Design courses may be used if not taken to fulfill degree requirements above.

- ENG 233 - Workshop in Creative Writing, 3 credit hours (Playwriting Topic)
- DAN 331 - Improvisation & Choreography, 3 credit hours
- THE 180 - Stagecraft, 3 credit hours
- THE 361 - Music Theatre, 2 credit hours
- HUM-363 - The Zambian Experience, 4 credit hours
- THE 365IE - Seminar in London, 3 credit hours
- THE 377 - Stage Combat II, 3 credit hours
- THE 382 - Scenic Design, 3 credit hours
- THE 383 - Lighting Design, 3 credit hours
- THE 384 - Sound Design, 3 credit hours
- THE 385 - Costume Design, 3 credit hours

BFA Core:

- FYE 100 - First-Year Experience, 1 credit hour
- ENG 131 - Workshop in Exposition and Argument, 3 credit hours
- MTH 101 - Mathematics Modeling & Quantitative Analysis, 3 credit hours or higher
- Writing Extension, 3 credit hours<sup>1</sup>
- Quantitative Extension, 3 credit hours<sup>1</sup>
- Diversity Course, 3 credit hours<sup>1</sup>
- Natural Science Course, 3 credit hours<sup>1</sup>
- Social Science Course, 3 credit hours<sup>1</sup>
- Interdisciplinary Course, 3 credit hours<sup>1</sup>

<sup>1</sup> Refer to the Bachelor of Arts and Sciences Core or My Records Section Search for feature to identify courses approved to meet this requirement.

## **Theatre: Acting and Directing, B.A.**

**Minimum Credits Required: 48-49**

Required Courses: 23 hours total

- THE 101 - Fundamentals of Acting, 3 credit hours
- THE 110 - Fundamentals of Theatrical Design & Production, 3 credit hours
- THE 162 - Backstage Experience, 1-2 credit hours (2 credit hours required)
- THE 180 - Stagecraft, 3 credit hours
- THE 190 - Script Analysis, 3 credit hours
- THE 270 - Collaborative Studies in Theatre, 3 credit hours
- THE 288I - Theatre History I, 3 credit hours
- THE 289I - Theatre History II, 3 credit hours

Acting and Directing Concentration: 25-26 hours total

- THE 102 - Intro to Scene Study, 3 credit hours

- THE 150 - Makeup for the Stage, 1 credit hour
- THE 201 - Audition Techniques, 3 credit hours
- THE 202 - Intermediate Scene Study, 3 credit hours
- THE 290 - Fundamentals of Directing, 3 credit hours
- THE 390 - Intermediate Directing, 3 credit hours

Tech Option- Choose one of the following:

- THE 220 - Rendering Techniques, 3 credit hours
- THE 240 - Vectorworks, 3 credit hours
- THE 283 - Stage Lighting Technology, 3 credit hours
- THE 375 - Costume Construction I, 2 credit hours
- THE 376 - Costume Crafts, 3 credit hours

Design Option- Choose one of the following:

- THE 382 - Scenic Design, 3 credit hours
- THE 383 - Lighting Design, 3 credit hours
- THE 384 - Sound Design, 3 credit hours
- THE 385 - Costume Design, 3 credit hours

Acting students take:

- THE 135 - Singing for Actors, 2 credit hours

Directing students take:

- THE 285 - Stage Management, 2 credit hours

Additional Requirement

In addition, Acting and Directing students must complete the following courses in Health and Physical Education:

- DAN 120 - Ballet I Practicum, 1 credit hour
- ASW 121W - Jazz I Practicum, 1 credit hour

## **Theatre: Dance/Movement, B.A.**

**Minimum Credits Required: 54**

Required Courses:

- THE 101 - Fundamentals of Acting, 3 credit hours
- THE 110 - Fundamentals of Theatrical Design & Production, 3 credit hours
- THE 150 - Makeup for the Stage, 1 credit hour
- THE 162 - Backstage Experience, 1-2 credit hours (2 credit hours required)
- THE 180 - Stagecraft, 3 credit hours
- THE 190 - Script Analysis, 3 credit hours
- THE 270 - Collaborative Studies in Theatre, 3 credit hours
- THE 285 - Stage Management, 2 credit hours

- THE 383 - Lighting Design, 3 credit hours
- THE 385 - Costume Design, 3 credit hours
- DAN 201 - Injury Prevention and Health in the Performing Arts, 3 credit hours
- DAN 214I - Dance History, 3 credit hours
- DAN 120 - Ballet I Practicum, 1 credit hour
- DAN 220 - Ballet II Practicum, 1 credit hour
- DAN 320 - Ballet III Practicum, 1 credit hour
- DAN 420 - Ballet IV Practicum, 1 credit hour
- ASW 121W - Jazz I Practicum, 1 credit hour
- DAN 221 - Jazz II Practicum, 1 credit hour
- DAN 122 - Modern I Practicum, 1 credit hour
- DAN 222 - Modern II Practicum, 1 credit hour
- ASW 123W - Tap I Practicum, 1 credit hour
- DAN 324 - Hip Hop I, 1 credit hour
- DAN 331 - Improvisation & Choreography, 3 credit hours
- DAN 332 - Introduction to Teaching Dance/Movement, 2 credit hours
- AMG 102 - Introduction to Arts Management, 3 credit hours
- BIO 203 - Human Anatomy and Physiology I, 4 credit hours

Students following this major cannot also be a Dance Minor.

## **Theatre: Design and Technical, B.A.**

**Minimum Credits Required: 41-42**

Common Courses: 22 Hours Total

- THE 110 - Fundamentals of Theatrical Design & Production, 3 credit hours
- THE 151 - Introduction to Acting, 2 credit hours
- THE 162 - Backstage Experience, 1-2 credit hours (2 credit hours required)
- THE 180 - Stagecraft, 3 credit hours
- THE 190 - Script Analysis, 3 credit hours
- THE 270 - Collaborative Studies in Theatre, 3 credit hours
- THE 288I - Theatre History I, 3 credit hours
- THE 289I - Theatre History II, 3 credit hours

Design and Technical Studies Concentration: 19-20 hours total

- THE 220 - Rendering Techniques, 3 credit hours
- THE 251 - Portfolio Presentation, 2 credit hours

Design and Technical Studies Design Options:

Select 3 of the following courses-

- THE 382 - Scenic Design, 3 credit hours
- THE 383 - Lighting Design, 3 credit hours
- THE 384 - Sound Design, 3 credit hours
- THE 385 - Costume Design, 3 credit hours

Scenic/Lighting Design and Technical Students:

Select 2 of the following courses-

- THE 240 - Vectorworks, 3 credit hours
- THE 283 - Stage Lighting Technology, 3 credit hours
- THE 480 - Advanced Stagecraft, 3 credit hours

Costume Design Students:

Select 2 of the following courses-

- THE 375 - Costume Construction I, 2 credit hours
- THE 376 - Costume Crafts, 3 credit hours
- THE 475 - Costume Construction II, 3 credit hours

Additional Requirement

In addition, Design and Technical Studies students must complete the Studio Art Minor (17 hours).

## **Theatre: Stage Management, B.A.**

**Minimum Credits Required: 41**

Common Courses: 22 Hours Total

- THE 110 - Fundamentals of Theatrical Design & Production, 3 credit hours
- THE 151 - Introduction to Acting, 2 credit hours
- THE 162 - Backstage Experience, 1-2 credit hours (2 credit hours required)
- THE 180 - Stagecraft, 3 credit hours
- THE 190 - Script Analysis, 3 credit hours
- THE 270 - Collaborative Studies in Theatre, 3 credit hours
- THE 288I - Theatre History I, 3 credit hours
- THE 289I - Theatre History II, 3 credit hours

Stage Management Concentration: 19 hours total

- CAS 313 - Organizational & Group Leadership, 3 credit hours
- THE 283 - Stage Lighting Technology, 3 credit hours
- THE 285 - Stage Management, 2 credit hours
- THE 286 - Theatre Management, 2 credit hours
- THE 290 - Fundamentals of Directing, 3 credit hours
- THE 382 - Scenic Design, 3 credit hours
- THE 485 - Advanced Stage Management, 3 credit hours

Additional Requirement

In addition, Stage Management students must complete the Arts Management Minor (24 hours).

## **Minors**

### **Dance Minor**

**Minimum Credits Required: 23**

Required Courses:

- DAN 201 - Injury Prevention and Health in the Performing Arts, 3 credit hours
- DAN 120 - Ballet I Practicum, 1 credit hour
- ASW 121W - Jazz I Practicum, 1 credit hour
- DAN 122 - Modern I Practicum, 1 credit hour
- ASW 123W - Tap I Practicum, 1 credit hour
- THE 162 - Backstage Experience, 1-2 credit hours
- DAN 214I - Dance History, 3 credit hours
- DAN 220 - Ballet II Practicum, 1 credit hour
- DAN 320 - Ballet III Practicum, 1 credit hour
- DAN 331 - Improvisation & Choreography, 3 credit hours
- DAN 332 - Introduction to Teaching Dance/Movement, 2 credit hours

In addition, choose a minimum of 5 semester credits from the following technique courses:

- DAN 161 - On-stage Experience, 1 credit hour
- DAN 221 - Jazz II Practicum, 1 credit hour
- DAN 222 - Modern II Practicum, 1 credit hour
- DAN 223 - Tap II Practicum, 1 credit hour
- DAN 321 - Jazz III Practicum, 1 credit hour
- DAN 323 - Tap III Practicum, 1 credit hour
- DAN 324 - Hip Hop I, 1 credit hour
- DAN 420 - Ballet IV Practicum, 1 credit hour
- DAN 421 - Jazz IV Practicum, 1 credit hour
- DAN 423 - Tap IV Practicum, 1 credit hour
- DAN 424 - Hip Hop II, 1 credit hour
- DAN 425 - Pointe, 1 credit hour

Additional Requirement:

Participation is required in the yearly dance concerts as a choreographer, performer or backstage crew. Students should register for DAN 298X - Internship, Credit hours to be arranged/Field Experience.

Recommended:

- DAN 263 - Seminar, 2-4 credit hours
- DAN 295 - Independent Study, 1-4 credit hours
- DAN 395 - Independent Study, 1-4 credit hours
- DAN 495 - Independent Study, 1-4 credit hours
- DAN 298X - Internship, Credit hours to be arranged
- DAN 398X - Internship, Credit hours to be arranged
- DAN 498X - Internship, Credit hours to be arranged

## Theatre Minor

Minimum Credits Required: 21

Requirements:

- THE 100 - Introduction To Theatre, 3 credit hours
- THE 162 - Backstage Experience, 1-2 credit hours (2 hours)
- THE 151 - Introduction to Acting, 2 credit hours
- THE 190 - Script Analysis, 3 credit hours
- THE 270 - Collaborative Studies in Theatre, 3 credit hours

Choose:

- THE 285 - Stage Management, 2 credit hours
- OR**
- THE 286 - Theatre Management, 2 credit hours
- 
- THE 288I - Theatre History I, 3 credit hours
- OR**
- THE 289I - Theatre History II, 3 credit hours

Choose one course from the following:

- THE 382 - Scenic Design, 3 credit hours
- THE 383 - Lighting Design, 3 credit hours
- THE 384 - Sound Design, 3 credit hours
- THE 385 - Costume Design, 3 credit hours

# Urban Studies

## Minors

### Urban Studies Minor

Students must earn a minimum of 18 credit hours distributed among the following requirements to complete the Urban Studies minor.

#### Foundation Courses:

Take at least two of the following courses

- ECN 356D - Urban & Regional Economics, 3 credit hours
- POL 304D - Urban Policy and Politics, 3 credit hours
- SOC 303I - Urban Community Life, 4 credit hours

#### Foundation Diversity Courses:

Take at least one of the following courses

- CAS 285D - Introduction to Intercultural Communication, 3 credit hours
- PSY 245D - Multicultural Psychology, 3-4 credit hours

#### Electives:

Take at least three of the following courses

- CAS 120 - Strategies in Public Relations, 3 credit hours
- CAS 277D - Media and Diversity, 3 credit hours
- ECN 110 - Economics of Social Issues, 1-3 credit hours
- PHT 170 - Introduction to Public Health, 3 credit hours
- ASW 222W - Community Health, 3 credit hours
- ASW 270 - Principles of Health Promotion, 3 credit hours
- PHT 370 - Health Policy & Public Health, 3 credit hours
- PHT 375X - Health and Social Justice, 3 credit hours
- POL 101D - U.S. Government and Politics, 3 credit hours
- POL 202 - Major Policy Issues, 1-3 credit hours
- POL 441X - Public Interest Research, 4 credit hours
- SOC 201D - Social Problems, 4 credit hours
- SOC 301D - Social Inequalities, 3 credit hours
- UST 295 - Independent Study, 1-4 credit hours
- UST 395 - Independent Study, 1-4 credit hours
- UST 495 - Independent Study, 1-4 credit hours
- UST 298X - Internship, Credit hours to be arranged
- UST 398X - Internship, Credit hours to be arranged
- UST 498X - Internship, Credit hours to be arranged



# World Languages, Literatures, and Cultures

## Why take a language at the University?

Language classes are an excellent opportunity to enhance your studies at the university. Many people have found that developing those skills which you began in high school can help smooth the transition to the university. Studying a language can also help you develop into a better all-around student. World language study is the key to intercultural knowledge because you learn much about the traditions, customs and values of the cultures where the language is spoken. Once you know one culture better, you will have a new perspective from which to understand and appreciate many other cultures. In addition, you will also learn a great deal about the structure of your own language and the values of your own culture.

Your potential career opportunities also offer a very practical reason for learning a language, because the knowledge of a language in connection with other university training can set you apart from monolingual job candidates.

Many students have discovered that it is not difficult to combine language learning with other areas of study. For example, you need only two courses in the same language to fulfill the International Studies core requirement, and several language and literature classes satisfy the Humanities Creative Expression and Effective Communication and Aesthetic Understanding core requirements; other classes fulfill Writing Extension and the Interdisciplinary requirement for the core. It is common for students to double major or minor in a world language and another field of interest. A minor in French, German or Spanish is only a commitment of 17-18 hours above the 100-level. A significant number of BW students with various majors also study abroad each year.

## Placement in Foreign Language Classes

Many students have questions about which course is the most appropriate entry point into the study of a world language. To ensure success, it is important that students choose the proper level. Choosing a level too high can create frustration, but a level too low can cause you to lose interest quickly. The following guidelines should be of help.

When you are deciding among the entry-level courses, 101, 102 and 201, the factors to consider are: 1) the amount of previous experience with the language; 2) the quality of the previous experience; 3) the amount of time which has elapsed since you last studied the language; and 4) your placement test score.

All students beginning Spanish, French or German at Baldwin Wallace University who have not taken the world language placement exam before enrolling will be asked by their language instructors to take the test at the beginning of the first week of classes.

**101** is meant for true beginners and is most appropriate for students who have had no previous knowledge of the language. Students with up to 2 years of high school instruction may take this course, if their preparation is not sufficient to take 102 or 201. If other factors such as those listed above make you feel that you need to take 101, despite having had more than two years of previous experience, you should take the placement exam and contact the Department of World Languages, Literatures, and Cultures for advice.

**102** is most appropriate for students who have previous knowledge of the language such as that equivalent to the catalog course description of 101, but who still need an introduction to the topics listed in the catalog description of 102.

**201** is most appropriate for students who have been introduced to and have some understanding of the basic grammar, but who now need to review and refine what they know. Typically, students with 3 or more years of high school instruction and those who have completed the 102 level enroll in 201. This course builds upon the foundation laid in the 101-102 sequence by providing an expansion of the 4 skills of reading, writing, speaking and listening.

During the first week of classes you should speak to your instructor if you feel you are not placed in the most appropriate course. Some students will have placement scores sufficient to start at the high intermediate level or above. Students who seek initial placement in foreign language courses at the 202 level and above must get special permission from the professor in the Department who is responsible for that language.

**Education Majors Planning to Teach in World Languages** are required to spend at least one academic semester or a total of 15 weeks abroad studying the language for which they seek licensure. Although we suggest spending the entire time in one extended visit, students may combine visits to reach the total as long as one visit is a minimum of eight weeks long. The program and projected plan of study should be approved by the student's academic advisor in the Department of World Languages, Literatures, and Cultures prior to enrolling in the program.

## Majors

### French and Francophone Studies, B.A.

The major in French and Francophone Studies is a dynamic program designed to prepare students for effective participation as citizens of the world. The program is structured to allow students to acquire skill in the use of French as a global language, to afford a broad knowledge of the civilization and diverse cultures of the French-speaking world, and to develop critical understanding of French and Francophone works of literature, culture, cinema, and the arts. The curriculum is interdisciplinary and covers historical as well as contemporary topics of interest. French courses are student-centered and interactive, and aim to further proficiency in the French language. At BW, students are also trained in intercultural communication and given the opportunity to develop skills in the techniques of translation and French for global professional purposes.

French and Francophone Studies majors at BW are encouraged to study for the summer or a semester or longer in France at one of our programs in Paris, Grenoble, or Aix-en-Provence. Study in Morocco or Switzerland is also possible. Students often combine French and Francophone Studies with a second major and/or the Honors program. The French component of their studies creates much added value and opens the door to prestigious international opportunities, admission to competitive graduate programs, and employment in a wide range of professions. Many of our graduates have been awarded French Embassy sponsored Teaching Assistantships in France. A high percentage of our alumni attend graduate programs in French, education, law, music, library science, museum studies, international affairs, and public health and include Georgetown, Tufts, George Washington, American, Syracuse, Case Western Reserve, Kent, and Cleveland State; many are successful teachers of French, and others have found employment using their French and international skills in a wide variety of businesses, entrepreneurial endeavors, consulting, and non-profit organizations.

Major students must complete a minimum of 31 - 34 credits beyond the 100-level courses.

Certification to teach French is possible for students who also complete applicable requirements of the School of Education. Education majors planning to teach French are required to spend at least one academic semester or a total of 15 weeks abroad studying the language for which they seek licensure. Although we suggest spending the entire time in one extended visit, students may combine visits to reach the total as long as one visit is a minimum of eight weeks long. The program and projected plan of study should be approved by the student's academic advisor in the Department of World Languages, Literatures, and Cultures prior to enrolling in the program.

#### **Minimum Credits Required: 31-34**

##### I. Required Courses: (13 credits)

- FRN 201 - Intermediate French I, 4 credit hours
- FRN 202 - Intermediate French II, 4 credit hours
- FRN 221I - French Expressions: Media, Culture, & Conversation, 3 credit hours

- FRN 294 - Workshop in French, .5 credit hours (2 credit hours required)

II. Advanced Language/Professional: Take at least one course (3-4 credits)

- FRN 335I - Advanced Grammar & Composition, 4 credit hours
- FRN 350 - Techniques of Translation, 3 credit hours
- FRN 360 - French for Global Professional Purposes, 3 credit hours

III. Francophone Civilization & Cultures: Take at least one course (3 credits)

- FRN 240I - Contemporary France, 3 credit hours
- FRN 310I - The Making of France, 3 credit hours
- FRN 311I - The Francophone World, 3 credit hours

IV. Literary & Cultural Studies: Take at least one course (3-4 credits)

- FRN 305I - French Connections: Literature, Society, and the Arts, 4 credit hours
- FRN 322 - French Cinema, 3 credit hours
- FRN 375I - French Inventions of Love, 3 credit hours
- FRN 376I - Selfhood and Otherness in Modern French Writings, 3 credit hours
- FRN 263/463 - Seminar, 3 credit hours

V. Intercultural Communication: Take one course (3 credits)

- HUM 285I - Intercultural Communication, 3 credit hours
- FRN 240I - Contemporary France, 3 credit hours  
(FRN 240I may not be used to fulfill both the Francophone Civilization & Cultures and Intercultural Communication requirements)

VI. Electives: Take 2 courses (6 credits)

- The remaining 6 credits can be taken from any FRN courses not yet taken from sections II-IV, as well as Independent Study, Thesis, Service-Learning, or Internships.

Note: Students studying abroad are required to take at least one course upon their return at BW. Substitutions need departmental approval.

## German, B.A.

There is no better way to internationalize your resume than to become fluent in a language and there's no better way to demonstrate your interest in languages than to complement your studies with a major or minor in a foreign language!

With a German major, you will study the language and culture of Germany, a stalwart ally and friend to the US, the most populous country in Europe and the third largest exporter in the world! With more than 25% of Ohioans claiming German heritage, German-Americans are the largest ethnic group in Ohio and are early founders of our own institution which once encompassed "German Wallace College."

German courses are aimed at developing skills in the use of the German language, an appreciation of the literature of German-speaking countries, and an acquaintance with the cultures of these countries. Students majoring in German must complete a minimum of 30 semester hours beyond the 100-level courses. Certification to teach German is

possible for students who also complete applicable requirements of the School of Education. Education majors planning to teach German are required to spend at least one academic semester or a total of 15 weeks abroad studying the language for which they seek licensure. Although we suggest spending the entire time in one extended visit, students may combine visits to reach the total as long as one visit is a minimum of eight weeks long. The program and projected plan of study should be approved by the student's academic advisor in the Department of Foreign Languages prior to enrolling in the program.

**Minimum Credits Required: 30-31**

Required Courses:

- GER 201 - Intermediate German I, 4 credit hours
- GER 202 - Intermediate German II, 4 credit hours
- GER 275I - Introduction to Visual Culture, 4 credit hours
- GER 294 - Workshop in German, .5 credit hours (2 credit hours required)
- GER 335I - Advanced Composition and Conversation, 4 credit hours

Literature & Culture Electives: Choose 9 credit hours from the following courses-

- GER 240I - Contemporary Germany & Austria, 3 credit hours
- GER 263I - Seminar, 3 credit hours
- GER 265I - Art and Literature of the Holocaust, 3 credit hours
- GER 310I - German Civilization, 3 credit hours
- GER 350I - Techniques of German Translation, 3 credit hours
- GER 375I - Introduction to Studies in Early German Literature, 3 credit hours
- GER 376I - Studies in Modern German Literature, 3 credit hours
- GER 463I - Special Topics Seminar, 3 credit hours

Professional Courses: Choose at least one of the following-

- HUM 285I - Intercultural Communication, 3 credit hours
- GER 360I - German for Global Professional Purposes, 3 credit hours
- German Service Learning Collaborative, 1 credit hour
- German Internship, 3-4 credit hours

Note:

The remaining credits may be completed with any German courses above the 100 level. The seminars GER 263I and GER 463I can be substituted for required classes according to the topic. Substitutions require departmental approval.

## **Spanish, B.A.**

Courses in Spanish are designed to develop skills in the use of the Spanish language as well as an appreciation of the language, literature, history and culture of the Spanish-speaking peoples of the world. Students majoring in Spanish must complete a minimum of 33-34 semester hours beyond the 100-level courses. Certification to teach Spanish is possible for students who also complete applicable requirements of the School of Education. Education majors planning to teach Spanish are required to spend at least one academic semester or a total of 15 weeks abroad studying the language for which they seek licensure. Although we suggest spending the entire time in one extended visit, students may combine visits to reach the total as long as one visit is a minimum of eight weeks long. The program and projected plan of study should be approved by the student's academic advisor in the Department of Foreign Languages prior to enrolling in the program.

**Minimum Credits Required: 33-34**

Required Courses:

- SPN 201 - Intermediate Spanish I, 4 credit hours
- SPN 202 - Intermediate Spanish II, 4 credit hours
- SPN 301I - Advanced Spanish I, 3 credit hours
- SPN 302I - Advanced Spanish II, 4 credit hours

Culture and Literature: Choose three of the following-

- SPN 310I - Spanish Culture and Civilization, 3 credit hours
- SPN 311I - Spanish-American Civilization, 3 credit hours
- SPN 375I - Survey of Spanish Literature, 3 credit hours
- SPN 376I - Survey of Spanish-American Literature, 3 credit hours
- SPN 263I/ SPN 463 - Seminar, 3 credit hours

Professional: Choose one of the following-

- SPN 250IS - Techniques of Spanish Translation, 3 credit hours
- SPN 260IS - Commercial Spanish, 3 credit hours
- SPN 270S - Spanish for Healthcare Providers, 3 credit hours

**Note:** Two courses with "S" designation will fulfill the core Experiential Learning requirement. SPN 270S may contain service-learning activity at the discretion of the instructor.

Intercultural Communication:

Choose one of the following-

- HUM 285I - Intercultural Communication, 3 credit hours
- SPN 265D - Latino Culture in the United States, 3 credit hours

Electives: Any remaining credit hours can be selected from any Spanish courses above the 201 level or the following list of courses.

- ART 232I - Art History: from Renaissance to Modernism, 3 credit hours
- ENG 125 - Introduction to Literature: Fiction, Poetry, and Drama, 3 credit hours
- ENG 305 - Workshop in Advanced Expository and Argumentative Writing, 3 credit hours
- HIS 270I - Latin America, 3 credit hours
- LAM 200 - Understanding Latin America, 3 credit hours
- POL 250 - Government & Politics in Latin America, 3 credit hours
- SPN 298X - Internship, Credit hours to be arranged
- SPN 398X - Internship, Credit hours to be arranged
- SPN 498X - Internship, Credit hours to be arranged

## Minors

### French and Francophone Studies Minor

Requirements:

Students wishing to minor in French & Francophone Studies must complete a minimum of 18 credits beyond the 100-level courses.

- FRN 201 - Intermediate French I, 4 credit hours
- FRN 202 - Intermediate French II, 4 credit hours
- FRN 294 - Workshop in French, .5 credit hours (1 credit hour required)
- Any 3 courses above FRN 202, at least one course must be at the 300-level.

## German Minor

Students wishing to minor in German must complete a minimum of 18 credits beyond the 102-level courses.

Required Courses:

- GER 201 - Intermediate German I, 4 credit hours
- GER 202 - Intermediate German II, 4 credit hours
- GER 294 - Workshop in German, .5 credit hours (1 credit hour required)

Literature & Culture Electives: Choose 9 credit hours from the following courses-

- GER 240I - Contemporary Germany & Austria, 3 credit hours
- GER 263I - Seminar, 3 credit hours
- GER 265I - Art and Literature of the Holocaust, 3 credit hours
- GER 275I - Introduction to Visual Culture, 4 credit hours
- GER 310I - German Civilization, 3 credit hours
- GER 335I - Advanced Composition and Conversation, 4 credit hours
- GER 350I - Techniques of German Translation, 3 credit hours
- GER 375I - Introduction to Studies in Early German Literature, 3 credit hours
- GER 376I - Studies in Modern German Literature, 3 credit hours
- GER 463I - Special Topics Seminar, 3 credit hours
- German Service Learning Collaborative, 1 credit hour

## Spanish for the Professions Minor

**Minimum Credits Required: 17**

Required Courses:

Students who place above any required course make up the minimum credit hours with elective courses.

- SPN 201 - Intermediate Spanish I, 4 credit hours
- SPN 202 - Intermediate Spanish II, 4 credit hours
- SPN 301I - Advanced Spanish I, 3 credit hours

Experiential Learning Practicum:

Complete 6 credit hours from courses listed below. Two courses with "S" designation will fulfill EXP requirement. SPN 270S may contain service learning activity at the discretion of the instructor.

- SPN 250IS - Techniques of Spanish Translation, 3 credit hours
- SPN 260IS - Commercial Spanish, 3 credit hours

- SPN 270S - Spanish for Healthcare Providers, 3 credit hours
- SPN 298X - Internship, 3 credit hours
- SPN 398X - Internship, 3 credit hours
- SPN 498X - Internship, 3 credit hours

Elective Courses:

Any remaining credit hours can be selected from the following courses.

- SPN 265D - Latino Culture in the United States, 3 credit hours
- SPN 302I - Advanced Spanish II, 4 credit hours
- SPN 310I - Spanish Culture and Civilization, 3 credit hours
- SPN 311I - Spanish-American Civilization, 3 credit hours
- HUM 285I - Intercultural Communication, 3 credit hours

## Spanish Minor

Required Courses:

Students wishing to minor in Spanish must complete a minimum of 17 credits beyond the 100-level courses.

- SPN 201 - Intermediate Spanish I, 4 credit hours
- SPN 202 - Intermediate Spanish II, 4 credit hours (or Advanced Placement)

Advanced Spanish:

Choose one of the following-

- SPN 301I - Advanced Spanish I, 3 credit hours
- OR**
- SPN 302I - Advanced Spanish II, 4 credit hours

Culture and Literature Courses: Choose two of the following-

- SPN 310I - Spanish Culture and Civilization, 3 credit hours
- SPN 311I - Spanish-American Civilization, 3 credit hours
- SPN 375I - Survey of Spanish Literature, 3 credit hours
- SPN 376I - Survey of Spanish-American Literature, 3 credit hours
- SPN 263I/SPN 463 - Seminar, 3 credit hours

## Certificate Programs

The certificate programs at Baldwin Wallace University provide individuals the opportunity to develop a set of skills in a professional area, in a relatively short period of time, without enrolling in a total University degree program. Students who already have a University degree may enroll in this program. All courses offered in the BW Certificate Program are University-level credit courses.

The courses also appear on an official transcript and may be used toward graduation credits should the student decide to pursue a University degree.

## Eligibility for Admission

Students applying for admission to a Certificate Program at BW must meet the admissions standards required of all students. No admission tests are required but certificate program candidates must complete the application procedures for admission to the University, which includes submission of transcripts from any other colleges or universities attended. Depending on the certificate program, some transfer courses may apply to certificate requirements. Both degree and non-degree seeking BW students are eligible to pursue a certificate program.

Note: Concerning all certificate programs, it is recommended that students consult with an academic advisor prior to enrolling in coursework to discuss the specific course requirements to earn the certificate.

## Certificates

### English as a Second Language Learner Certificate

The program is designed to prepare participants to work with individuals whose native language is not English and is open to both education majors and non-education majors. Education majors, at all levels, will be better prepared to work with students in their classes whose first language is not English. Non-education majors will prepare to work along-side speakers of other languages and to help them acquire more proficiency in English. The certificate requires four courses: EDU 211D - Exploring Education in a Diverse Society, 3 credit hours ; HUM 285I - Intercultural Communication, 3 credit hours ; EDU 315 - Second Language Acquisition & Pedagogy for the English Language Learner, 3 credit hours ; and EDU 316 - Assessment & Evaluation Tools for the ESL Classroom, 3 credit hours . EDU 315 and EDU 316 both require field experiences. More than one half of the coursework must be completed at Baldwin Wallace University.

\* The certificate is not a teaching license or endorsement in the state of Ohio.

Required Courses:

- HUM 285I - Intercultural Communication, 3 credit hours
- EDU 211D - Exploring Education in a Diverse Society, 3 credit hours
- EDU 315 - Second Language Acquisition & Pedagogy for the English Language Learner, 3 credit hours
- EDU 316 - Assessment & Evaluation Tools for the ESL Classroom, 3 credit hours

### Human Resource Management Certificate

The Certificate Program in Human Resource Management requires six University courses for a total of 18-19 semester credit hours. More than one half of the coursework must be completed at Baldwin Wallace University. Knowledge areas include organizational structure, organizational behavior, the competitive environment, human resource planning, selecting, compensating, appraising, training, developing, and the legal framework under which all of the human resource activities must occur. Skills fostered include critical thinking, analysis, and evaluation set



within the framework of both the internal requirements of the organization and the external pressures of the environment.

Required Courses (9 credit hours):

- MGT 205 - Introduction to Management, 3 credit hours
- MGT 329 - Organizational Ethics, 3 credit hours
- MGT 310 - Human Resource Management, 3 credit hours

Choice of 3 electives (9 credit hours):

- MGT 409D - Behavioral Theories of Management, 3 credit hours
- MGT 411 - Compensation, 3 credit hours
- MGT 412 - Employment Law, 3 credit hours
- MGT 413 - Staffing and Development, 3 credit hours

## Public History Certificate

The Certificate in Public History is intended for students who already have or are currently pursuing academic majors or minors in history, art history, archeology, or anthropology and who intend careers in public history. The certificate assumes that the student has already mastered the content necessary to work in public history but wants to acquire skills to function more effectively as a presenter of history to the public.

Students may enroll as non-degree students and complete the certificate without having to take the requirements for the Bachelor's Degree. **The prerequisite for non-degree admission is an academic major, minor, or 15 hours of coursework in History, Art History, Anthropology, or Archeology.** More than one half of the coursework must be completed at Baldwin Wallace University.

**Minimum Credits Required: 21-23**

Required Courses:

- HIS 461 - Historiography, 4 credit hours
- PBH 497X - Public History Internship, Credit hours to be arranged  
**OR** Historical Resource Management Internship (180 clock hours), 4 credit hours

Electives in Public History: (Choose two of the following)

- PBH 100 - Introduction to Public History, 3 credit hours
- PBH 200X - Introduction to Archives and Museums, 3 credit hours
- PBH 300X - Community Research & Oral History, 3 credit hours

Electives in Writing for the Public: (Choose one of the following)

- ENG 305 - Workshop in Advanced Expository and Argumentative Writing, 3 credit hours
- ENG 309(SX) - Grant Writing, 3 credit hours

Electives in Media for Public History: (Choose two of the following)

- ART 220 - Digital Photography, 2 credit hours
- ART 225 - Introduction to Photoshop, 2 credit hours

- CAS 112 - Presentational Speaking, 3 credit hours
- CAS 316 - Social Media Fundamentals, 3 credit hours
- CAS 415 - Studies in Public Relations, 3 credit hours
- CSC 135 - Introduction to Web Site Development, 3 credit hours
- CSC 141 - Advanced Applications for Information Analysis, 3 credit hours

## Sustainability Certificate

The Sustainability Program (Environmental Studies) is committed to preparing students to become contributing, compassionate global citizens in alignment with BW's mission. As a Silver STARS (Sustainability Tracking Assessment Rating System) rated AASHE (Association for the Advancement of Sustainability in Higher Education) member institution, we train students in the problem-solving methodology of Triple Bottom Line thinking. This means employing a transdisciplinary cost-benefit assessment, lifecycle analysis, and nested systems approach to evaluate the environmental, social, and economic consequences of the choices we make both individually and collectively to achieve the greatest benefit at the least cost to future generations. The Sustainability Certificate is designed to help students differentiate themselves on the job market by providing a transcripted indicator of familiarity with the field of Sustainability.

The certificate requires successful completion of six University courses, for a total of 17 semester hour credits. More than one half of the coursework must be completed at Baldwin Wallace University.

Required Course:

- SUS 150 - Humans & The Earth: Can We Coexist?, 3 credit hours

Sciences:

Select one of the following sets of courses

- BIO 121 - Principles of Biology I, 4 credit hours
  - BIO 122 - Principles of Biology II, 4 credit hours
- OR**
- CHM 111 - General Chemistry I, 4 credit hours
  - CHM 112 - General Chemistry II, 3 credit hours
  - CHM 115 - General Chemistry Lab, 1 credit hour
- OR**
- BIO 110 - Biology for the Citizen, 4 credit hours
  - CHM 150 - Introductory Chemistry, 3 credit hours
- OR**
- ENV 101 - Principles of Environmental Science, 4 credit hours
  - ENV 201 - Energy and Climate, 3 credit hours
- OR**
- GEO 104 - Geology of National Parks, 4 credit hours (or GEO 111 may be substituted)
  - GEO 121 - Physical Geography, 4 credit hours (or GEO 227 may be substituted)
- Note:** Neither ENV courses count for Natural Science Core requirements.

Liberal Arts:

Choose one of the following

- ASW 207W - Nutrition for Daily Living, 3 credit hours
- ASW 222W - Community Health, 3 credit hours
- ECN 358 - Environmental Economics, 3 credit hours

- ECN 362 - Economics of Developing Countries, 3 credit hours
- ENG 308 - Nature Writing, 3 credit hours
- HIS 205 - History and the Environment: Global Perspectives, 3 credit hours
- PHT 274 - Environmental Health, 3 credit hours
- SOC 288 - Environmental Sociology, 3 credit hours
- SUS 205 - Environmental Policy, 3 credit hours
- SUS 250 - Sustainability for the Professional: Tools, Methods, and Credentials, 3 credit hours
- SUS/PHL 273(X) - Environmental Ethics, 3 credit hours

**Business:**

Choose one of the following

- BUS 360I - Political & Social Responsibility of Multinational Corporation, 3 credit hours
- MGT 329 - Organizational Ethics, 3 credit hours
- MGT 350 - Green Business, 3 credit hours
- SUS/MGT 340 - Biomimicry- Nature Inspired Product Design, 3 credit hours

**Additional Requirement**

Take one additional course from those listed above. If student decides to take more than one business course they cannot take MGT 329 and BUS 360I.

## Graduate Program Requirements

### Master of Arts in Education

The Master of Arts in Education (M.A.Ed.) program at Baldwin Wallace University is designed to stimulate and guide educators toward professional competency and intellectual maturity. The non-thesis program requires 31–42 semester hours of study. The K-12 M.A.Ed. specializations include **Literacy, Mild/Moderate Educational Needs, Educational Technology, and School Leadership**. Literacy and Educational Technology can lead to Ohio endorsements. Mild/Moderate Educational Needs and School Leadership can lead to licensure. We also have a program that leads to the Superintendent license. Successful completion of Ohio Assessments for Educator exams is required for licensure and endorsement eligibility with the exception of Educational Technology.

Depending on the program, the K-12 M.A.Ed. program is offered in two formats: traditional, on-campus study; and online. An option can be available for a cohort in a specific program in K-12 settings.

Programs for the Master of Arts in Education curriculum for teachers include a specialization and an Advanced Practice Minor. Candidates acquire a deep understanding and advanced skills in their area of specialization. Degree candidates also earn an Advanced Practice minor that broadens their preparation and allows for an additional teaching focus. Students who are not completing a master's degree do not complete a minor.

The M.A.Ed. program also includes a specialization for college and university leadership preparation through the **Leadership in Higher Education (LHE)** program. The LHE program may be completed in a full-time format and is offered for part-time study to individuals who are employed in college or university settings.

### Attributes (K-12)

The teacher education curriculum is arranged conceptually around six teacher/educator attributes: content knowledge, professional knowledge, pedagogical knowledge, diversity, educational technology, and professional dispositions. These six attributes comprise a conceptual framework for guiding the academic experiences of all students.

### Academic Policies and Information

#### Academic Calendar (K-12)

Online and in-person courses are offered fall and spring semesters and during two summer sessions. Campus classes are scheduled in the evening during fall, spring, and summer I. In the summer II session, classes meet during the day.

#### Accreditation (K-12)

The teacher preparation programs at Baldwin Wallace University are accredited by CAEP, The Council for Accreditation of Educator Preparation. This accreditation includes both undergraduate and graduate programs leading to initial or advanced teacher licensure or endorsement in the state of Ohio. The accreditation does not include individual education courses that the institution offers to P-12 educators for professional development, re-licensure, or other purposes. Baldwin Wallace University has also been approved by the Association of American Universities since 1931. The University is a member of the Association of American Colleges, the American Council on Education, and the American Association of Colleges of Teacher Education. The graduate program in education was approved by the Ohio Board of Regents in May 1974 and was initiated in January 1975.

## Admission Requirements

Although each applicant for admission to the graduate program in education will be judged on individual merit, requirements include the following:

1. A bachelor's degree from an accredited college or university.
2. A valid teaching certificate/license. This is not required of License + Master's, M.A.Ed. in Science or Math, Leadership in Higher Education or Educational Technology applicants.
3. Two letters of recommendation (one for school partnership candidates) from former professors, principals, supervisors, or other persons qualified to estimate the applicant's ability to successfully complete graduate study in education. Superintendent candidates need one letter of recognition from a superintendent or designee holding a superintendent's license.
4. An undergraduate cumulative grade point average of 3.0 (on a four-point scale).

Applicants with less than a 3.0 GPA, but not lower than 2.75 may be considered for admission upon completion of an interview with one or more Department of Education faculty member(s).

Conditional admission may be extended to an applicant who does not meet these requirements but demonstrates exceptional potential as a graduate student. Conditional admission includes the stipulation to maintain a 3.0 cumulative grade point average for 6 credit hours in order to continue as a degree candidate in the program.

An applicant who already holds a master's degree—in education or in a teaching field—from an accredited college or university may have his/her application reviewed based on the graduate degree work only if there is at least 60 credit hours of graduate coursework.

All admissions will be made through the Admission Office with guidance on specific programs from the Associate Director of Admissions, Department of Education Program Directors, and/or the Dean of the College of Education and Health Sciences.

## Admission as a Non-Degree (Special) Student (K-12)

An applicant may be accepted for certain designated courses with evidence of a bachelor's degree. This non-degree (special) classification may be retained provided the student's work meets the standards of the regular graduate program. The non-degree student desiring to become a degree seeking student must meet admission requirements.

## Code of Ethical and Professional Behavior

1. Baldwin Wallace University candidates in education are active, enthusiastic, and engaged members of the learning community.
2. Baldwin Wallace University candidates in education are reflective learners who engage in self-reflection and are open to and thoughtful about feedback from others.
3. Baldwin Wallace University candidates in education are respectful to other students, BW faculty and staff, school personnel, and parents and children in schools.
4. Baldwin Wallace University candidates in education demonstrate a level of responsibility appropriate for a professional.
5. Baldwin Wallace University candidates in education exhibit academic honesty.
6. Baldwin Wallace University candidates in education are dedicated to the profession and committed to continuous learning and professional development.
7. Baldwin Wallace University candidates in education value and respect people from diverse groups and with varied talents and perspectives.

## The Degree

### Degree Completion

The program can be completed in as little as two years of part-time study. Licenses and endorsements may be completed in less time.

### Degree Requirements

The M.A.Ed. program is a non-thesis program for teachers requiring 31–44 semester hours to complete. All programs require either a capstone, internship, or practicum. See the M.A.Ed. Program of Studies information for requirements in each specific specialization.

### Email Account

All students should activate their Baldwin Wallace email account and regularly review email messages. This is the main source of communication between students and the Department of Education. Newsletters and other important program information will be sent via BW email. Questions regarding set-up or use of your email account may be forwarded to the Information Technology Help Desk at 440-826-7000.

### Grading System

At the conclusion of each course, letter grades are assigned to the student for the course work. Grades assigned are: A, B, C, F, I, T and W. Each grade has the following value in quality points: A, four; B, three; C, two; and F, zero. The "I" or incomplete grade is used when a student has been unavoidably delayed in finishing course work. This work must then be completed prior to the end of the 6th week of the subsequent semester. An "I" will be changed to an "F" if the work is not completed in that timeframe. The "T" or temporary non-credit grade indicates that work in the course is continuing and is thus far satisfactory. The "W" is a withdrawal which earns no quality points.

A candidate who ceases to attend classes, but who does not officially withdraw, will receive a grade of "F" at the end of the semester. Withdrawal after the 9th week may be authorized by the Director of K-12 MAEd Programs and the Registrar only in cases of prolonged illness, change in employment, or other circumstances beyond the student's control. In such a case, a written petition must be sent to the Director or the Registrar within one week after the last day of class attendance.

## Continuation in the M.A.Ed. Program

### Standards for Continuation and Completion of All Advanced Programs

All candidates enrolled in advanced programs must meet the following standards for continuation and completion of programs.

#### *Transition points*

**Point one:** Admission to the M.A.Ed. program. See catalog for admission requirements.

**Point two:** Candidates must have earned a cumulative GPA of 3.0 to qualify for graduation. They must also have a 3.0 cumulative GPA to meet eligibility requirements for State of Ohio endorsement or licensure. **Note:** Field experiences, practica, and internships may have additional eligibility requirements. See program sections for these prerequisites.

**Dismissal Based on Academic Performance:** A candidate will be dismissed from the program for either of the following:

1. Failure to meet the above standards for any transition point or
2. Earning a grade of "F" in a graduate course.

### *Appeal of Dismissal*

If a dismissed candidate wishes to be considered for continuation in the program, he/she must appeal to the Dean of the College of Education & Health Sciences. An appeal consists of a formal letter addressed to the Dean indicating the reason(s) for consideration of a return to the program. Appeal letters must be submitted within 12 months following dismissal from the program. The appeal is reviewed by a M.A.Ed. Faculty Committee. No further coursework may be taken until the appeal has been processed and a decision regarding re-entry to the program has been made. If the appeal is granted, the candidate has one (1) semester to achieve a 3.0 GPA, or satisfy the conditions specified by the Appeals Committee, in which case the dismissal status is removed and the candidate returns to candidacy status.

## **General Appeal Process**

Any candidate has the right to request a review of a decision made regarding his/her academic program. In the event that the concern is with a faculty member, the candidate must first contact said individual. If the candidate does not feel that the problem has been resolved, he/she may appeal to the Dean of the College of Education & Health Sciences. Following this action, should the candidate still feel that the matter is unresolved, he or she may appeal to the Office of the Provost. Candidates are strongly encouraged to contact their academic advisors for guidance and support in these matters.

## **Attendance**

Each instructor is asked to have a clearly stated attendance policy included in each course syllabus. However, in the absence of this policy, the University policy will prevail. Instructors are not required to excuse absences in excess of ten percent of class meetings.

## **Graduation Requirements**

The candidate for the Master of Arts in Education degree (M.A.Ed.) is expected to meet the following degree requirements for graduation:

1. Successful completion of the program coursework as outlined with a minimum of 31-42 credit hours
2. A 3.0 cumulative grade point average in total work completed while registered in the Master of Arts in Education program
3. Completion of all degree requirements within a six-year period from the date of initial enrollment in Department of Education graduate courses

## **School Partnership Program (K-12)**

Baldwin Wallace University has a partnership agreement with over 200 schools/districts which provides significant benefits to teachers in those districts including lower tuition costs, small class sizes both onsite or on campus and a simplified application process.

See the BW website for a current list of partnership school districts.

Information is available about how a school district may join the School Partnership Program by contacting the Associate Dean of K-12 M.A.Ed. Programs.

## **Time Limits**

Candidates must complete degree requirements within the six-year maximum limit.

All degree work in School Leadership, Mild/Moderate Educational Needs, Leadership in Technology, Literacy, and Leadership in Higher Education must be completed within six years of initial enrollment in graduate, degree-eligible courses at BW.

All program coursework in Leadership in Technology must be completed within 3 years of initial enrollment or additional coursework/testing may be required.

Applications for endorsement must be submitted to the Ohio Department of Education within 12 months of your program/degree completion date or additional coursework/testing may be required.

Extensions of the six-year limit will be considered upon petition to the Director of K-12 M.A.Ed. Programs. The petition should include reasons for needing additional time and indicate a proposed completion date—not to exceed one year extension.

## **Transfer Policy**

Credits transferred for application toward the Master of Arts in Education degree are subject to the following conditions:

1. No more than nine semester hours of course work may be transferred as equivalents to the M.A.Ed. requirements.
2. Credits to be transferred may not have been used to fulfill requirements for another degree.
3. Credits to be transferred must have been recorded as graduate credit, applicable toward degree eligibility at the granting institution; the granting institution must be fully accredited for graduate studies.
4. Credits to be transferred must have been earned within a six-year period immediately preceding the student's initial graduate course work at Baldwin Wallace University.
5. Grades must be a "B" or better for courses to transfer to the M.A.Ed. program. Candidates must complete a Request for Transfer form and submit it to the Director of K-12 M.A.Ed. Programs along with original transcripts, course descriptions, and course syllabi or outlines.
6. No more than six hours may be transferred toward an Advanced Practice minor.

## **State License Examination (K-12)**

The State Board of Education of Ohio requires the Ohio Assessment for Educators Examinations for all candidates seeking licensure at any level. License+Master's candidates will not be recommended for licensure until all of the requirements are completed and the candidate is eligible for the Master of Arts in Education degree. Candidates are strongly encouraged to take exams as soon as possible following completion of the program and apply for license/endorsement within the stated time limits. Baldwin Wallace has a Licensure Specialist to assist students with questions about licensure application.

## **Tuition and Fees**

A non-refundable, non-transferable application fee is required at the time of application. The Master of Arts in Education program is fully approved for veterans' educational benefits. Please refer to the Baldwin Wallace University posted charges for tuition information.

Payment of tuition must be made prior to the first day of each semester, even if you are receiving tuition benefits from your employer for which you will be reimbursed at a later date. Special payment arrangements must be made with the approval of the Bursar. Transcripts, grades and other official certifications will not be released for students whose accounts are not paid. Financial holds on registration are placed if an account has a balance. Financial aid in the form of Guaranteed Student Loans is available to graduate students.

## **Refund Policy**

Candidates who withdraw from a course will receive a refund of their tuition payment in accordance with the standard published refund table.

## **Students with Disabilities**

The Office of Disability Services at Baldwin Wallace University exists to provide support to students with special needs. Please contact them if you anticipate seeking any accommodations related to your disability while you are at Baldwin Wallace.



Baldwin Wallace University endeavors to provide reasonable accommodations for every student who has a documented disability.

## Workshop Admission

An applicant may be accepted for graduate professional development workshops with evidence of teaching experience and a bachelor's degree. An unlimited number of workshops may be taken. However, workshop credit may not be applied towards the master's degree. Online professional development workshops are available. See BW website for additional information.

## License+Master's Program

The License+Master's program is a licensure program for candidates with a degree, but no license. To be admitted to the License+Master's program candidates must hold a cumulative grade point average of 3.0 in the final 60 hours of their undergraduate degree.

As a general rule the bachelor's degree from an accredited 4-year institution of higher education fulfills the general education requirements. To obtain licensure, the student must complete required undergraduate professional education courses, teaching field courses, student teaching, and may replace graduate courses for some of the undergraduate professional education courses.

Upon completion of all requirements, the student earns an initial license, a master's degree, and applicable endorsement or license in the master's specialization. The candidate will not be recommended for initial licensure until all of the requirements are completed and the candidate is eligible for the Master of Arts in Education degree.

Program sheets delineating the requirements for each License+Master's program may be obtained on the BW website. The following are the License+Master's programs available at Baldwin Wallace University:

- Early Childhood Education License (Pre-K through grade 3) with Reading Endorsement (K-12).
- Early Childhood Education License (Pre-K through grade 3) with Mild/Moderate Educational Needs License (K-12).
- Early Childhood Education License (Pre-K through grade 3) with Educational Technology Endorsement (K-12).
- Option for Early Childhood Generalist Endorsement (grades 4-5)
- Middle Childhood Education (grades 4-9) with Reading Endorsement (K-12).
- Middle Childhood Education (grades 4-9) with Mild/Moderate Educational Needs License (K-12).
- Middle Childhood Education (grades 4-9) with Educational Technology Endorsement (K-12).
- Option for Middle Childhood Generalist (grades 4-6)
- Adolescent Young Adult Education (grades 7 -12) License with Reading Endorsement (K-12).
- Adolescent Young Adult Education (grades 7 -12) License with Mild/Moderate Educational Needs License (K-12).
- Adolescent Young Adult Education (grades 7 -12) License with Educational Technology Endorsement (K-12).
- Multi-Age License (grades PK-12) with Reading Endorsement (K-12).
- Multi-Age License (grades PK-12) with Mild/Moderate Educational Needs License (K-12).
- Multi-Age License (grades PK-12) with Educational Technology Endorsement (K-12).
- Intervention Specialist License - Mild/Moderate Educational Needs License (K-12).

## Master of Arts in Education Programs

### Curriculum for Teachers

Programs for the Master of Arts in Education, curriculum for teachers, include a specialization and an Advanced Practice Minor. Candidates acquire a deep understanding and advanced skills in their area of specialization. Degree candidates also earn an Advanced Practice Minor that broadens their preparation and allows for an additional teaching focus. Students who are not completing a master's degree do not complete a minor.

## Leadership in Technology for Teaching & Learning, M.A.Ed.

### Curriculum for Teachers

The Educational Technology in Teaching and Learning concentration, when completed with the M.A.Ed. Degree, requires the following 12 hours:

- EDU 511 - Using Evidence, Research, and Data in Education, 3 credit hours
- Advanced Practice Minor, 9 credit hours  
Degree candidates earn an Advanced Practice Minor that broadens their preparation and allows for an additional teaching focus. Advanced Practice Minors, for Educational Technology in Teaching and Learning, can be earned the following ways:

Advanced Practice Minor	Select three courses from *
Special Education	EDU 573, 574, 575, 576, 577, 594
Literacy	EDU 541, 542, 543, 544, 545, 546, 547
Leadership	EDU 580, 581, 582, 583, 584, 585, 588
Individualized	3 selected courses to meet individual learning needs

\* Course Pre-reqs apply

Educational Technology Concentration Requirements: 22 credits

- EDU 514 - Instructional Technology Tools & Resources, 3 credit hours
- EDU 515 - Digital Media & Project-Based Learning, 3 credit hours
- EDU 516 - Instructional Design & Technology Integration, 3 credit hours
- EDU 517 - Teacher Leadership: Technology Planning & Implementation, 3 credit hours
- EDU 518 - Online Teaching & Learning, 3 credit hours
- EDU 520 - Issues & Trends in Educational Technology, 3 credit hours
- EDU 525 - Tech-Integration Field Experience I, 1 credit hour
- EDU 526 - Leadership Field Experience II, 2 credit hours
- EDU 530 - Capstone for Leadership in Technology, 1 credit hour

## Literacy, M.A.Ed.

### Curriculum for Teachers

The Literacy concentration, when completed with the M.A.Ed. degree, requires the following 12 hours:

- EDU 511 - Using Evidence, Research, and Data in Education, 3 credit hours
- Advanced Practice Minor, 9 credit hours  
Degree candidates earn an Advanced Practice minor that broadens their preparation and allows for an additional teaching focus. Advanced Practice Minors, for Literacy, can be earned the following ways:

<b>Advanced Practice Minor</b>	<b>Select three courses from *</b>
Technology Integration	EDU 514, 515, 516, 517, 518
Special Education	EDU 573, 574, 575, 576, 577, 594
Leadership	EDU 580, 581, 582, 583, 584, 585, 588
Individualized	3 selected courses to meet individual learning needs

\*Course Pre-reqs apply

Literacy Concentration Requirements\*: 18 credits

- EDU 541 - Foundations of Reading & Language Arts, 3 credit hours
  - EDU 542 - Teaching Reading in the Content Area, 3 credit hours
  - EDU 543 - Diagnostic and Corrective Reading Methods, 3 credit hours
  - EDU 544 - Practicum in Reading, 3 credit hours
  - EDU 545 - Research in Literacy Education, 3 credit hours
  - EDU 546 - Child and Adolescent Literature, 3 credit hours
- \*Pre-Requisite for the Literacy concentration:** Completion of the Ohio Reading Core, 9-12 credit hours

## **Mathematics Teaching, M.A.Ed.**

**Requirements: (36 credits)**

- EDU 505 - The Teaching Profession, 2 credit hours
- EDU 512 - Psychological Foundations, 3 credit hours
- EDU 514 - Instructional Technology Tools & Resources, 3 credit hours
- EDU 531 - Integrative Seminar, 1 credit hour  
(taken twice for credit)
- EDU 532 - Assessment and Data Literacy, 3 credit hours
- EDU 533 - Teaching Strategies & Management Skills, 3 credit hours
- EDU 535 - Clinical Practice in AYA Teaching, 9 credit hours
- EDU 542 - Teaching Reading in the Content Area, 3 credit hours
- EDU 557 - Special Methods in Secondary Mathematics, 5 credit hours
- EDU 596 - Culturally Responsive Curriculum & Instruct., 3 credit hours

## **Mild/Moderate Educational Needs, M.A.Ed.**

Curriculum for Teachers

The Mild/Moderate concentration, when completed with the M.A.Ed. Degree, requires the following 12 hours:

- EDU 511 - Using Evidence, Research, and Data in Education, 3 credit hours
- Advanced Practice Minor, 9 credit hours  
Degree candidates earn an Advanced Practice minor that broadens their preparation and allows for an additional teaching focus. Advanced Practice Minors, for Mild/Moderate, can be earned the following ways:

<b>Advanced Practice Minor</b>	<b>Select three courses from *</b>
Technology Integration	EDU 514, 515, 516, 517, 518
Literacy	EDU 541, 542, 543, 544, 545, 546, 547
Leadership	EDU 580, 581, 582, 583, 584, 585, 588
Individualized	3 selected courses to meet individual learning needs

\* Course Pre-reqs apply

Mild/Moderate Educational Needs Concentration Requirements: 24-26 credits

- EDU 563 - Advanced Topics in Special Education, 3 credit hours
  - EDU 573 - Education of Children with Special Needs, 3 credit hours
  - EDU 574 - Introduction to Students with Mild/Moderate Educational Needs, 3 credit hours
  - EDU 575 - Professional Collaboration and Transition Development, 3 credit hours
  - EDU 576 - Classroom Management for Students with Mild/Moderate Educational Needs, 3 credit hours
  - EDU 577 - Assessment for Students with Mild/Moderate Educational Needs, 3 credit hours
  
  - EDU 578 - Clinical Practice in Mild/Moderate Education, 5 credit hours
- OR**
- EDU 579 - Practicum in Mild/Moderate Educational Needs, 3 credit hours
  
  - EDU 594 - Remediation Across the Curriculum, 3 credit hours

Also required in Mild/Moderate for the Intervention Specialist License in Ohio

- The Ohio-mandated, 12 semester hour Reading Core

## **School Leadership, M.A.Ed.**

Curriculum for Teachers

The School Leadership concentration, when completed with the M.A.Ed. Degree, requires the following 12 hours:

- EDU 511 - Using Evidence, Research, and Data in Education, 3 credit hours
- Advanced Practice Minor, 9 credit hours  
Degree candidates earn an Advanced Practice minor that broadens their preparation and allows for an additional teaching focus. Advanced Practice Minors, for School Leadership, can be earned the following ways:

<b>Advanced Practice Minor</b>	<b>Select three courses from *</b>
Technology Integration	EDU 514, 515, 516, 517, 518
Special Education	EDU 573, 574, 575, 576, 577, 594
Literacy	EDU 541, 542, 543, 544, 545, 546, 547

Individualized	3 selected courses to meet individual learning needs
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\* Course Pre-reqs apply

School Leadership Concentration Requirements: 30 credits

- EDU 580 - Intro to School Leadership, 3 credit hours
- EDU 581 - Teaching & Learning, 3 credit hours
- EDU 582 - Staff Evaluation & Professional Development, 3 credit hours
- EDU 583 - Continuous Improvement Planning, 3 credit hours
- EDU 584 - Pupil Services & Community Resources, 3 credit hours
- EDU 585 - Legal & Ethical Issues, 3 credit hours
- EDU 586 - School Leadership Internship I, 3 credit hours
- EDU 587 - School Leadership Internship II, 3 credit hours
- EDU 588 - Management of Resources, 3 credit hours
- EDU 589 - Contemporary Issues for School Leaders, 3 credit hours

## Science Teaching, M.A.Ed.

Requirements: (36 credits)

- EDU 505 - The Teaching Profession, 2 credit hours
- EDU 512 - Psychological Foundations, 3 credit hours
- EDU 514 - Instructional Technology Tools & Resources, 3 credit hours
- EDU 531 - Integrative Seminar, 1 credit hour (taken twice for credit)
- EDU 532 - Assessment and Data Literacy, 3 credit hours
- EDU 533 - Teaching Strategies & Management Skills, 3 credit hours
- EDU 542 - Teaching Reading in the Content Area, 3 credit hours
- EDU 534 - Methods in AYA Science Teaching, 5 credit hours
- EDU 535 - Clinical Practice in AYA Teaching, 9 credit hours
- EDU 596 - Culturally Responsive Curriculum & Instruct., 3 credit hours

## Intervention Specialist, M.A.Ed.

License + Masters Program

Minimum Credits Required: 56

Required Courses:

- EDU 504 - Phonics and Spelling Development, 3 credit hours
- EDU 505 - The Teaching Profession, 2 credit hours
- EDU 512 - Psychological Foundations, 3 credit hours
- EDU 514 - Instructional Technology Tools & Resources, 3 credit hours
- EDU 531 - Integrative Seminar, 1 credit hour
- EDU 533 - Teaching Strategies & Management Skills, 3 credit hours
- EDU 541 - Foundations of Reading & Language Arts, 3 credit hours
- EDU 542 - Teaching Reading in the Content Area, 3 credit hours
- EDU 543 - Diagnostic and Corrective Reading Methods, 3 credit hours
- EDU 563 - Advanced Topics in Special Education, 3 credit hours
- EDU 573 - Education of Children with Special Needs, 3 credit hours

- EDU 574 - Introduction to Students with Mild/Moderate Educational Needs, 3 credit hours
- EDU 575 - Professional Collaboration and Transition Development, 3 credit hours
- EDU 576 - Classroom Management for Students with Mild/Moderate Educational Needs, 3 credit hours
- EDU 577 - Assessment for Students with Mild/Moderate Educational Needs, 3 credit hours
- EDU 578 - Clinical Practice in Mild/Moderate Education, 5 credit hours
- EDU 590 - Methods of Teaching Students with Mild/Moderate Educational Needs, 3 credit hours
- EDU 594 - Remediation Across the Curriculum, 3 credit hours
- EDU 596 - Culturally Responsive Curriculum & Instruct., 3 credit hours

## **Leadership in Higher Education, M.A.Ed.**

The Leadership in Higher Education Program (LHE) is designed to prepare transformative higher education leaders in Student Affairs and Academic Affairs. This non-thesis program requires a total of 38 credits. Enrollment in the program is offered on a part-time and full-time basis. Part-time students must be employed fulltime in higher education settings, where they will complete their internship. Full-time students complete internships on the Baldwin Wallace or partner campuses. Internship approval is required before full-time or part-time admission to the program.

Foundational Core: 9 credits

- EDU 511 - Using Evidence, Research, and Data in Education, 3 credit hours
- EDU 560 - History/Philosophy of Higher Education, 3 credit hours
- EDU 561 - Student & Adult Development in Higher Education Practice, 3 credit hours

Professional Concentration: 29 credits

- EDU 558 - Public Policy Dimensions of Higher Education, 3 credit hours
  - EDU 562 - Funding and Finance in Higher Education, 3 credit hours
  - EDU 564 - Ethical Leadership in Higher Education, 3 credit hours
  - EDU 566 - Diversity in Higher Education, 3 credit hours
  - EDU 569 - Counseling Theory and Practice, 3 credit hours
  - EDU 521 - Leadership in Higher Educ Internship I, 3 credit hours
  - EDU 522 - Leadership in Higher Educ Internship II, 3 credit hours
  - EDU 523 - Leadership in Higher Educ Internship III, 3 credit hours
  - EDU 524 - Leadership in Higher Educ Internship IV, 3 credit hours
  - EDU 570 - Capstone Seminar/ Portfolio Development, 0 credit hours
- EDU 571 - Practicum in Student Affairs, 2 credit hours
- OR**
- EDU 572 - Practicum in Academic Affairs, 2 credit hours

## **Certificates**

### **Graduate Education: Gifted Education Certificate**

Required Courses:

- EDU 514 - Instructional Technology Tools & Resources, 3 credit hours
- EDU 552 - Assessment and Instruction for the Gifted Learner, 3 credit hours
- EDU 553 - Nature and Needs of the Gifted Learner, 3 credit hours

### **Graduate Education: Online Instruction and Blended Learning Certificate**

Required Courses:

- EDU 514 - Instructional Technology Tools & Resources, 3 credit hours
- EDU 516 - Instructional Design & Technology Integration, 3 credit hours
- EDU 518 - Online Teaching & Learning, 3 credit hours

# Master of Accountancy

## Master of Accountancy, MAcc.

Accounting is the language of business. The Master of Accountancy (MAcc) program is designed and driven by current and emerging technologies, cases and simulations to delve into accounting situations requiring expertise and analytical skills, and subject matter that allows graduates to simulate work in the Accounting Profession. The program's goal of seamlessly moving from classroom to workplace is embedded and woven into the teachings of each program requirement. Graduates will be prepared for a diverse selection of careers in accounting, including public accounting, industry and government agencies, and for candidacy to sit for the CPA exams. In addition, an Accounting degree provides a pathway for entrepreneurship and the ability to give back to their community.

A sample of the curriculum includes advanced accounting subjects, data analytics, financial statement analysis, fraud examination and four, 8 week minimester capstone classes in partnership with Becker Education Services, the gold standard in CPA exam preparation. All courses are taught by faculty having the appropriate academic credentials, real-world on-the-job experiences, and professional certifications/licenses where appropriate.

The Master of Accountancy curriculum includes:

1. Ability to earn 15 credit hours over each Fall and Spring 16-week semester
2. Classes offered in 8 week sessions (students take between 6 – 9 credit hours per 8 weeks)
3. Rotation of classes offered in Summer semester
4. Four (4) module Capstone classes using Becker CPA preparation materials
5. Technologies currently used and emerging in the Accounting Profession
6. Up to date accounting subject matter delivered by Accounting faculty possessing rich work experiences and credentials

The Master of Accountancy degree completion includes:

1. Completion of all pre-requisites to enter Master of Accountancy program: variable
2. Completion of all Master of Accountancy program requirements: 30 credit hours
3. Completion of two (2) professional events
4. Completion of an earned minimum 3.0 GPA.

Required Courses: Total 21 Credit Hours

- ACC 521 - Advanced Accounting, 3 credit hours
- ACC 531 - Accounting Cases and Simulations, 1.5 credit hours
- ACC 533 - Auditing Cases and Simulations, 1.5 credit hours
- ACC 578 - Principles of Fraud Examination, 3 credit hours
- ACC 606 - Tax Theory, Research & Practice, 3 credit hours
- ACC 690 - Accounting and Data Analytics Core Capstone, 3 credit hours
- ACC 691 - Auditing and AIS Core Capstone, 3 credit hours
- ACC 696 - Tax Core Capstone, 3 credit hours

Required:

SELECT ONE OF THE FOLLOWING TWO DISCIPLINES:

BAR Discipline- 3 courses are required, no electives: Total 9 credit hours

- ACC 530 - Financial Analytics Cases and Simulations, 3 credit hours
- ACC 568 - Financial Statement Analysis, 3 credit hours



- ACC 695 - BAR Discipline Capstone, 3 credit hours

ISC Discipline- 3 courses are required: 2 required, 1 elective: Total 9 credit hours

Required Courses:

- ACC 530 - Financial Analytics Cases and Simulations, 3 credit hours
- ACC 692 - ISC Discipline Capstone, 3 credit hours

Choose one of the following electives:

- ACC 560 - Internal Audit, 3 credit hours
- BUS 623 - Data Visualization, 3 credit hours
- BUS 626 - Applied Analytics, 3 credit hours

# Master of Business Administration

## Requirements for Admission

The central concern of the admission process is to identify and select individuals who will be successful in the program. Therefore, all available relevant information concerning the candidate's background, including academic accomplishments, work experience and community involvement will be considered. All candidates are strongly encouraged to meet with the Graduate Business Admissions Director as early as possible to discuss their interests and qualifications and the options available at Baldwin Wallace. The admission process includes the following:

- A Bachelor's degree in any field from an accredited institution and submission of official transcripts of all previous academic work. International student transcripts must be translated in English by World Education Services (WES).
- Relevant work experience, usually a minimum of two-years.
- A career advising interview with the Graduate Business Admissions Director is recommended for M.B.A. candidates. Healthcare M.B.A. candidates will have a career advising interview with the Healthcare M.B.A. director.
- An acceptable score on the Graduate Management Admission Test (GMAT) is required of all candidates. The GMAT requirement is considered satisfied for candidates who have already received a masters or doctorate degree in another field or for individuals with an undergraduate GPA of 3.0 or higher.
- A completed online application.
- Two letters of recommendation from managers or other persons qualified to assess the applicant's professional or managerial accomplishments and ability to successfully undertake a challenging program of graduate study.
- A current brief resume focused on career and professional development and accomplishments in addition to leadership experiences in both work and community activities.
- All M.B.A. courses (excluding the Healthcare M.B.A.) are offered in an 8-week format using a CONCURRENT methodology unless otherwise noted. Students "attend" classes 1) seated in the classroom, 2) live online, viewing and participating in the course while at a different location, or 3) by watching the recorded class session. The latter two approaches necessitate a computer with MS office and an internet connection. Students may select the format week to week. Students in the One Year MBA cohort must attend all MBA core courses in-person.

## Graduate Business Grading

Letter grades given are A, B, C, F, I, T and W. A plus/minus system may be elected by individual instructors. Each grade has the following value in quality points: A+, 4.0; A, 4.0; A-, 3.667; B+, 3.333; B, 3.0; B-, 2.667; C+, 2.333; C, 2.0; C-, 1.667; F, none; I, incomplete; T, a temporary non-accredited grade to indicate work in the course is continuing and is thus far satisfactory, and W, withdrawal with no quality points. No grade of D is awarded. A cumulative GPA of 3.0 is required for graduation. Grades of all classes, including foundation courses, will be used in the calculation of the GPA. The receipt of a third "C" in a core or elective class or an "F" in any class will result in the student's dismissal from the program. A student may petition the Associate Dean of Graduate Business Programs for readmission. Such readmission shall be at the sole discretion and subject to the conditions established by the Associate Dean. A grade of D is allowed in the Master of Accountancy program. A minimum GPA of 3.0 is required to earn a degree. This may cause a student to take additional courses to reach the minimum GPA.

A faculty member may give a student a grade of Incomplete for an M.B.A. course for extenuating circumstances. The Incomplete grade then must be completed according to one of the following two options:

1. The student must complete the incomplete coursework involved to the satisfaction of the faculty member as soon as possible. This should be concluded by the end of week six of the immediate

- subsequent semester and may only be extended to one year with the approval of the Associate Dean and with supporting documentation verifying the request.
2. The student may re-take the course in its entirety in the next semester or the next semester that the course is offered. This re-take is to be applied strictly on a one-chance basis only and requires approval of the Associate Dean.

If the student involved does not comply with either of the above two options, then the Incomplete grade is converted to an F. At this point, dismissal from the program occurs.

M.B.A. students who withdraw from class during the first four weeks of the semester will receive a grade of "W". Withdrawal after the fourth week may be authorized only in cases of prolonged illnesses, change of employment, or other circumstances beyond the student's control. Lack of academic progress in a course is not sufficient reason for an authorized withdrawal after the fourth week. A written petition must be presented to the Registrar of the University. Petition forms are available in the Registrar's Office. Withdrawal from a course without approval constitutes a failure and the letter grade of "F" is recorded. At this point, the student is dismissed from the program.

## **Degree Requirements**

The student must meet the following for the Master of Business Administration degree:

- Successfully complete all program requirements.
- Attain at least a 3.0 grade point average in total work attempted in the M.B.A. program.
- Complete all degree requirements within four calendar years of initial registration unless a time extension is granted, in writing, by the Associate Dean.

## **Transfer Credit**

Only six credit hours are transferable for credit from another institution. Transfer credit is awarded when:

- The requested credit is an equivalent graduate-level course from an M.B.A. program;
- The student was enrolled as a graduate student when the course was taken;
- The grade earned was "A" or "B";
- The course content is compatible with the M.B.A. program at Baldwin Wallace University (determination of credit is made by the Associate Dean);
- The credit has not been counted toward an earned degree.
- Transfer credit does not apply to certificate programs.

## **Tuition Payment**

Payment of tuition and fees must be made prior to the first class of each semester. Monthly payment plan options are available through the Bursar's Office. Past due accounts will be assessed a finance charge. Grades, transcripts, and diplomas will not be released to students who have not paid their accounts. Payments can be made online at [bursar.bw.edu](http://bursar.bw.edu).

Baldwin Wallace has several options to help graduate students make paying for their education more affordable. For example, to accommodate the many graduate students who receive tuition benefits from their employers at the end of the term, BW offers a delayed tuition payment plan called the Tuition Reimbursement Payment Program (TRPP). TRPP allows students to extend the payment due date, at a reasonable rate of interest, until 30 days after the end of the term. TRPP applications and information can be obtained at the Cashier's Office in Bonds Administration Building. In addition, most graduate students who take at least three credits in a given semester are eligible for financial aid through the Federal Loan program. A Federal Loan is a low-interest rate loan whose repayment period does not begin until six months after the borrower ceases to be enrolled for at least three credits. More information about Federal Loans can be found at the Financial Aid Office, which is also in the Bonds Administration Building or at: <https://www.bw.edu/financial-aid/graduate/>. Finally, the M.B.A. Program is fully approved for veterans' educational benefits. Information is available at <https://www.bw.edu/financial-aid/veterans/>.

Any special payment arrangements must be made with the approval of the Bursar.

## **Certificate Programs**

Certificates (sometimes referred to as micro-credentials) consist of existing M.B.A. core courses and specialized courses and provide students with specialized knowledge in a specific topical area. Certificates allow students who already have a graduate degree to take specialized education in a topic without taking another full graduate degree. Also, students holding an accredited bachelor's degree may take graduate courses without enrolling in a degree program. If a student wishes to complete an M.B.A. degree, certificates provide a vehicle to accomplish a full M.B.A. degree by "stacking" them in a manner that fulfills the entire degree program. Certificates are not eligible for financial aid through the federal loan program.

## **Business Analytics, M.B.A.**

The Business Analytics specialization within the BW M.B.A. enhances the broad M.B.A. curriculum with specialized training in a variety of analytical techniques that can be immediately applied in solving business problems and decision making. The student completing this specialization will be well equipped to tackle a range of problems in the business world and if desired, be prepared to continue his/her graduate work in more depth.

### Prerequisite Courses

- ACC 500A - Financial Accounting, 3 credit hours
- BUS 500E - Excel Certification, .5 credit hour
- BUS 500Q - Quantitative Analysis, 3 credit hours

### M.B.A. Core

- MGT 501 - Systems Management & Organizational Theory, 3 credit hours
- MGT 509 - Organizational Leadership, 3 credit hours
- BUS 526 - Operations Analysis Models, 3 credit hours
- ACC 548 - Accounting for Business Decisions, 3 credit hours
- FNC 548 - Financial Management I, 3 credit hours
- MKT 551 - Strategic Marketing, 3 credit hours
- FNC 581 - Managerial Economics, 3 credit hours
- MGT 670 - Strategic Management, 3 credit hours

### Business Analytics Specialization (Select three courses)

- BUS 622 - Development Tools in Business Analytics, 3 credit hours
- BUS 623 - Data Visualization, 3 credit hours
- BUS 626 - Applied Analytics, 3 credit hours
- BUS 627 - Predictive Analytics, 3 credit hours
- BUS 628 - Applied Marketing Analytics, 3 credit hours
- BUS 629 - Applied Prescriptive Analytics, 3 credit hours

## **Healthcare Management, M.B.A.**

The healthcare management specialization within the M.B.A. program is designed to enable students to become competent, confident leaders. Our program exposes students to the critical management, legal, economic and technological issues facing many healthcare systems, long-term care providers, clinicians, device manufacturers, pharmaceutical companies and other organizations.

#### Prerequisite Courses

- ACC 500A - Financial Accounting, 3 credit hours
- BUS 500E - Excel Certification, .5 credit hour
- BUS 500Q - Quantitative Analysis, 3 credit hours

#### M.B.A. Core

- MGT 501 - Systems Management & Organizational Theory, 3 credit hours
- MGT 509 - Organizational Leadership, 3 credit hours
- BUS 526 - Operations Analysis Models, 3 credit hours
- ACC 548 - Accounting for Business Decisions, 3 credit hours
- FNC 548 - Financial Management I, 3 credit hours
- MKT 551 - Strategic Marketing, 3 credit hours
- FNC 581 - Managerial Economics, 3 credit hours
- MGT 670 - Strategic Management, 3 credit hours

#### Healthcare Management Specialization

- MGT 760 - Healthcare Policy, Law & Ethics, 3 credit hours
- MGT 770 - Health Informatics, 3 credit hours
- MGT 772 - Health Economics, 3 credit hours

### **Healthcare, M.B.A.**

Baldwin Wallace University's Healthcare M.B.A. (HCMBA) program is designed for professionals working in the diverse healthcare sector who seek a formal graduate degree without interrupting their careers or interfering with weekday office or travel obligations.

Class sizes are small (no more than 25 students) and organized into interdisciplinary teams. Teams are selected to include a variety of professionals on each team. Participants learn through interaction with classmates who bring widely varied backgrounds to team projects and class discussions.

The program is built upon the systems approach to management that views organizations within the diverse Healthcare industry as a dynamic, interdependent organism. Development of the interpersonal and organizational skills needed to lead teams, groups, and networks of providers is emphasized throughout the program. There is also a strong focus on "value based" health care reflecting the need to manage the relationship between cost and quality.

All classes are held at the Baldwin Wallace main campus in Berea, Ohio.

#### The Curriculum

Ten courses are required to complete the Healthcare M.B.A. degree. The program is designed to be completed in two years from the commencement of the core courses. This program strongly recommends the optional Business Analytics Concentration, an additional nine credits. Requirements include:

#### Prerequisite Courses:

- ACC 500A - Financial Accounting, 3 credit hours
- BUS 500E - Excel Certification, .5 credit hour
- BUS 500Q - Quantitative Analysis, 3 credit hours

#### Required Courses:

- MGT 702 - Organizational Theory & The Systems Approach to Management, 3 credit hours
- MGT 705 - Leadership and Teams, 3 credit hours
- ACC 706 - Accountability of Financial Resources, 3 credit hours
- FNC 746 - Financial Management, 3 credit hours
- BUS 749 - Operations Management, 3 credit hours
- MGT 760 - Healthcare Policy, Law & Ethics, 3 credit hours
- MKT 761 - Healthcare Strategic Marketing, 3 credit hours
- MGT 770 - Health Informatics, 3 credit hours
- MGT 772 - Health Economics, 3 credit hours
- MGT 871 - The Strategic Management of Healthcare Organizations, 3 credit hours

### **Human Resource Management, M.B.A.**

The Human Resource Management specialization provides students with fundamental managerial and leadership skills that will enable students to understand strategic and operational issues in managing human capital in organizations. The curriculum is directed towards developing Human Resource managers and follows the systems approach to graduate education. The systems approach helps managers to view their own strengths and competencies within a broader understanding of organizational and environmental dynamics. The Society for Human Resource Management (SHRM) has identified the curriculum at Baldwin Wallace University as aligning with their professional guidelines and requirements. Our curriculum is approved by the Human Resource Certification Institute (HRCI).

The specialization is designed for the working adult. Students completing full-time undergraduate study may pursue the Human Resource Management M.B.A. (HRMBA) as a dual 3/2-degree program with completion of the undergraduate bachelor's degree in business administration and the HRMBA concurrently in the fourth and fifth years of study.

#### Prerequisite Courses

- ACC 500A - Financial Accounting, 3 credit hours
- BUS 500E - Excel Certification, .5 credit hour
- BUS 500Q - Quantitative Analysis, 3 credit hours

#### M.B.A. Core

- MGT 501 - Systems Management & Organizational Theory, 3 credit hours
- MGT 509 - Organizational Leadership, 3 credit hours
- BUS 526 - Operations Analysis Models, 3 credit hours
- ACC 548 - Accounting for Business Decisions, 3 credit hours
- FNC 548 - Financial Management I, 3 credit hours
- MKT 551 - Strategic Marketing, 3 credit hours
- FNC 581 - Managerial Economics, 3 credit hours
- MGT 670 - Strategic Management, 3 credit hours

#### Human Resource Management Specialization

- MGT 611 - Strategic Compensation, 3 credit hours
- MGT 612 - Strategic Employment Law, 3 credit hours

- MGT 613 - Strategic Talent Management, 3 credit hours

## **Management, M.B.A.**

The Management specialization is designed to develop managerial and leadership knowledge, skills, abilities and values. This specialization is designed for the general manager and offers opportunities and courses to students who prefer a broader spectrum of course options. A systems approach to managerial thinking and leadership is used to develop a background that will prepare the student to manage and lead large or small organizations in both profit and non-profit environments.

### Prerequisite Courses

- ACC 500A - Financial Accounting, 3 credit hours
- BUS 500E - Excel Certification, .5 credit hour
- BUS 500Q - Quantitative Analysis, 3 credit hours

### M.B.A. Core

- MGT 501 - Systems Management & Organizational Theory, 3 credit hours
- MGT 509 - Organizational Leadership, 3 credit hours
- BUS 526 - Operations Analysis Models, 3 credit hours
- ACC 548 - Accounting for Business Decisions, 3 credit hours
- FNC 548 - Financial Management I, 3 credit hours
- MKT 551 - Strategic Marketing, 3 credit hours
- FNC 581 - Managerial Economics, 3 credit hours
- MGT 670 - Strategic Management, 3 credit hours

### Management Specialization

- MGT 645 - Project Management, 3 credit hours
- MGT 657 - Managing Change, Creativity & Innovation, 3 credit hours
- MGT 660 - Corporate Citizenship & Ethics in a Globalized Economy, 3 credit hours

## **One Year Program, M.B.A.**

This is a one year (three semester) M.B.A. cohort program for recent graduates. Classes are predominantly during the day. Recent graduates (current year or prior year) applying for the program must have completed prerequisite requirements in financial accounting, statistics, and Excel. Additionally they must have completed at least one business related internship and have a cumulative GPA of at least 3.0 in their undergraduate work (unless separately approved by the Graduate Business Admissions Director).

### M.B.A. Core

- MGT 501 - Systems Management & Organizational Theory, 3 credit hours
- MGT 509 - Organizational Leadership, 3 credit hours
- BUS 526 - Operations Analysis Models, 3 credit hours
- ACC 548 - Accounting for Business Decisions, 3 credit hours
- FNC 548 - Financial Management I, 3 credit hours
- MKT 551 - Strategic Marketing, 3 credit hours
- FNC 581 - Managerial Economics, 3 credit hours

- MGT 670 - Strategic Management, 3 credit hours

#### Specialization Options

- Business Analytics
- Human Resource Management
- Management
- Sport Management
- Strategic Management

### **Sport Management, M.B.A.**

The M.B.A. in Sport Management is designed for professionals who would like to strengthen their strategic decision-making skills and advance their career within the sport industry. Sport as an industry continues to grow in scope and popularity, and the complexities of succeeding in the local, national, or international sport industry requires knowledge and skills beyond the undergraduate level. Administrators, coaches, marketers, managers, and entrepreneurs interested in the sport industry will benefit from this M.B.A.. With a focus on strategic decision-making, economic models, analytics, sport venue management, and sport marketing, the M.B.A. program seeks to develop forward thinking and innovative professionals who will drive the growth and future of the sport industry.

#### Prerequisite Courses

- ACC 500A - Financial Accounting, 3 credit hours
- BUS 500E - Excel Certification, .5 credit hour
- BUS 500Q - Quantitative Analysis, 3 credit hours

#### M.B.A. Core

- MGT 501 - Systems Management & Organizational Theory, 3 credit hours
- MGT 509 - Organizational Leadership, 3 credit hours
- SPM 511 - Sport Marketing, 3 credit hours
- BUS 526 - Operations Analysis Models, 3 credit hours
- ACC 548 - Accounting for Business Decisions, 3 credit hours
- FNC 548 - Financial Management I, 3 credit hours
- SPM 550 - Economics of Sport, 3 credit hours
- MGT 670 - Strategic Management, 3 credit hours

#### Sport Management Specialization

- SPM 510 - The Business of Sport, 3 credit hours
- SPM 512 - Sport Venue and Events Operations, 3 credit hours
- SPM 551 - Sport Analytics and Strategy, 3 credit hours

### **Strategic Marketing, M.B.A.**

The Strategic Marketing MBA specialization is designed for professionals who seek to expand their knowledge of modern best practices in marketing and emerging tactical areas while strengthening their data-informed decision-making and management abilities. The specialization coursework offers experienced marketers the opportunity to re-tool, preparing themselves for career advancement in the age of Big Data and digital-first strategies. It will also support professionals interested in making a career pivot to a marketing, sales, product management, or marketing communications role.



## Prerequisite Courses

- ACC 500A - Financial Accounting, 3 credit hours
- BUS 500E - Excel Certification, .5 credit hour
- BUS 500Q - Quantitative Analysis, 3 credit hours

## M.B.A. Core

- MGT 501 - Systems Management & Organizational Theory, 3 credit hours
- MGT 509 - Organizational Leadership, 3 credit hours
- BUS 526 - Operations Analysis Models, 3 credit hours
- ACC 548 - Accounting for Business Decisions, 3 credit hours
- FNC 548 - Financial Management I, 3 credit hours
- MKT 551 - Strategic Marketing, 3 credit hours
- FNC 581 - Managerial Economics, 3 credit hours
- MGT 670 - Strategic Management, 3 credit hours

## Strategic Marketing Specialization

- MKT 537 - Digital Marketing Management, 3 credit hours
- BUS 628 - Applied Marketing Analytics, 3 credit hours

## Strategic Marketing Elective

Take 1 Course

- MGT 645 - Project Management, 3 credit hours
- MGT 657 - Managing Change, Creativity & Innovation, 3 credit hours
- MKT 761 - Healthcare Strategic Marketing, 3 credit hours
- SPM 511 - Sport Marketing, 3 credit hours

## Certificates

### Graduate Business: Business Administration Certificate

This graduate certificate has an emphasis on business decision-making and provides managerial decision tools. It consists of five courses that must be completed in order to earn the certificate. Combining this certificate with the Graduate Certificate in Business Leadership and Innovation, a concentration certificate, and the capstone MGT 670 Strategic Management course results in the M.B.A. degree.

**Minimum Credits Required: 15**

Requirements:

Students must complete the following list of courses (ACC 500A may be a required prerequisite):

- BUS 526 - Operations Analysis Models, 3 credit hours
- ACC 548 - Accounting for Business Decisions, 3 credit hours
- FNC 548 - Financial Management I, 3 credit hours
- MKT 551 - Strategic Marketing, 3 credit hours
- FNC 581 - Managerial Economics, 3 credit hours

## **Graduate Business: Business Analytics Certificate**

This graduate certificate is designed for post baccalaureate students and graduate students (who already hold a master's degree) who are interested in developing advanced skills and competencies in business data analytics. One general outcome is to develop students' knowledge and skillset in business data analytics. The level of courses taken (basic, moderate or advanced difficulty) depends on each student's prior education and experience. Student readiness and course selection is determined prior to beginning the certificate.

**Minimum Credits Required: 12**

Requirements:

Students must complete at least 12 credits from the following list of courses (BUS 500Q may be a required prerequisite):

- BUS 526 - Operations Analysis Models, 3 credit hours
- BUS 622 - Development Tools in Business Analytics, 3 credit hours
- BUS 623 - Data Visualization, 3 credit hours
- BUS 626 - Applied Analytics, 3 credit hours
- BUS 627 - Predictive Analytics, 3 credit hours
- BUS 628 - Applied Marketing Analytics, 3 credit hours
- BUS 629 - Applied Prescriptive Analytics, 3 credit hours

## **Graduate Business: Business Leadership & Innovation Certificate**

This certificate consists of existing M.B.A. core courses and is part of a total "stackable" degree. Four courses must be completed to successfully earn this certificate three of which are required and one elective course. Students will engage in the management and leadership aspects of the M.B.A. degree.

**Minimum Credits Required: 12**

Required Courses:

- MGT 501 - Systems Management & Organizational Theory, 3 credit hours
- MGT 509 - Organizational Leadership, 3 credit hours
- MGT 657 - Managing Change, Creativity & Innovation, 3 credit hours

Elective: (Choose One)

- MGT 645 - Project Management, 3 credit hours
- MGT 660 - Corporate Citizenship & Ethics in a Globalized Economy, 3 credit hours

## **Graduate Business: Enlightened Leadership Certificate**

The Graduate Certificate in Enlightened Leadership is a cutting-edge leadership program that builds on current and emerging trends in leadership education drawn from new developments and discoveries at centers of thought leadership globally. Composed of five graduate courses, the program is focused on equipping participants to become enlightened leaders in their organizations, leading innovation through unique competencies in systems thinking, conflict transformation, mindfulness, change management, design thinking, and emotional resilience.

**Minimum Credits Required:12**

Required Courses:

- MGT 501 - Systems Management & Organizational Theory, 3 credit hours
- MGT 620 - Leadership as Enlightened Presence, 3 credit hours

Electives: (choose two of the following)

- MGT 509 - Organizational Leadership, 3 credit hours
- MGT 621 - Organizational Development & Change Management, 3 credit hours
- MGT 622 - Organizational Innovation by Design, 3 credit hours

## **Graduate Business: Healthcare Management Certificate**

This certificate is for professionals working in the health care field and post baccalaureate graduates who desire additional knowledge of healthcare dynamics and issues. The diversity of student backgrounds, both clinical and professional, small class sizes, and emphasis on team learning creates a unique and dynamic educational experience. A typical class may include students who work as physicians, advanced practice nurses and nurse managers, administrators, sales representatives, and allied health care professionals.

**Minimum Credits Required: 12**

Requirements:

Students must complete the following list of courses (MGT 702 may be a required prerequisite):

- MGT 657 - Managing Change, Creativity & Innovation, 3 credit hours
- MGT 760 - Healthcare Policy, Law & Ethics, 3 credit hours
- MGT 770 - Health Informatics, 3 credit hours
- MGT 772 - Health Economics, 3 credit hours

## **Graduate Business: Human Resource Management Certificate**

This program provides students with a graduate-level credential in the field of human resource management. Student in this program will develop an understanding of effective human resource management practices in the context of the organization as a system; learn the core human resource management functions including staffing, development, employee relations, and compensation within the employment law framework; develop personal leadership, teamwork, and interpersonal skills.

**Minimum Credits Required: 12**

Required Courses:

- MGT 509 - Organizational Leadership, 3 credit hours
- MGT 611 - Strategic Compensation, 3 credit hours
- MGT 612 - Strategic Employment Law, 3 credit hours
- MGT 613 - Strategic Talent Management, 3 credit hours

## **Graduate Business: Sport Management Certificate**

The Graduate Certificate in Sport Management is designed for professionals who would like to strengthen their strategic decision-making skills and advance their career within the sport industry. This certificate program meets a growing interest in sport management. Sport as an industry, which is estimated to be worth almost \$500 million (in the U.S.), continues to grow in scope and popularity, and the complexities of succeeding in the local, national, or international sport industry requires knowledge and skills beyond the undergraduate level. Administrators, coaches, marketers, managers, and entrepreneurs interested in the sport industry will benefit from this graduate certificate. With a focus on strategic decision-making, economic models, analytics, sport venue management, and sport marketing, this graduate certificate program seeks to develop forward thinking and innovative professionals who will drive the growth and future of the sport industry.

**Minimum Credits Required: 12**

Required Course:

- SPM 510 - The Business of Sport, 3 credit hours

Electives: (Choose Three)

- SPM 511 - Sport Marketing, 3 credit hours
- SPM 512 - Sport Venue and Events Operations, 3 credit hours
- SPM 550 - Economics of Sport, 3 credit hours
- SPM 551 - Sport Analytics and Strategy, 3 credit hours

## **Graduate Business: Strategic Marketing Certificate**

The Graduate Certificate in Strategic Marketing is designed for professionals who seek to expand their knowledge of modern best practices in marketing and emerging tactical areas while strengthening their data-informed decision-making and management abilities. The program offers experienced marketers the opportunity to re-tool, preparing themselves for career advancement in the age of Big Data and digital-first strategies. It will also support professionals interested in making a career pivot to a marketing, sales, product management or marketing communications role.

**Minimum Credits Required: 12**

Required Courses:

- MKT 537 - Digital Marketing Management, 3 credit hours
- MKT 551 - Strategic Marketing, 3 credit hours
- BUS 628 - Applied Marketing Analytics, 3 credit hours

Elective: (Choose One)

- MGT 645 - Project Management, 3 credit hours
- MGT 657 - Managing Change, Creativity & Innovation, 3 credit hours
- MKT 761 - Healthcare Strategic Marketing, 3 credit hours
- SPM 511 - Sport Marketing, 3 credit hours

# Master of Medical Science

## Physician Assistant, M.M.S.

BW's MMS in Physician Assistant degree is a full-time, 24-month program encompassing rigorous didactic and clinical training for physician assistant students. The didactic and clinical phases are each 12 months in length. At the completion of the program, a Master of Medical Science (MMS) degree is awarded from Baldwin Wallace University. Graduates of the program will be prepared to take the Physician Assistant National Certifying Exam (PANCE).

### Year 1- Didactic Curriculum

#### Semester I

- PAS 510 - Clinical Anatomy, 6 credit hours
- PAS 511 - Pathophysiologic Foundations of Medicine, 4 credit hours
- PAS 512 - History Taking and Medical Documentation, 3 credit hours
- PAS 521 - Laboratory and Diagnostic Testing I, 3 credit hours
- PAS 531 - Pharmacology I, 4 credit hours
- PAS 541 - Physician Assistant Profession, 1 credit hour

#### Semester II

- PAS 503 - Evidence-Based Medicine, 2 credit hours
- PAS 507 - Leadership in Healthcare, 1 credit hour
- PAS 513 - Clinical Medicine I, 7 credit hours
- PAS 514 - Physical Exam Techniques, 3 credit hours
- PAS 522 - Laboratory and Diagnostic Testing II, 3 credit hours
- PAS 532 - Pharmacology II, 4 credit hours
- PAS 542 - Biomedical Ethics, 2 credit hours

#### Semester III

- PAS 515 - Clinical Medicine II, 7 credit hours
- PAS 516 - Procedural Skills and Special Populations, 3 credit hours
- PAS 523 - Psychiatry and Emergency Medicine, 5 credit hours
- PAS 533 - Pharmacology III, 4 credit hours
- PAS 543 - Public Health and Policy Systems, 2 credit hours
- PAS 600 - Masters Seminar, 2 credit hours

#### Semesters IV-VI

- PAS 591 - Clinical Preparations, 4 total credit hours

### Year 2- Clinical Curriculum

Students must complete each of the clinical courses listed below. Each clinical rotation is four weeks in length.

#### Clinical Year Rotation

- PAS 601 - Rotation #1, 3 credit hours

- PAS 602 - Rotation #2, 3 credit hours
- PAS 603 - Rotation #3, 3 credit hours
- PAS 604 - Rotation #4, 3 credit hours
- PAS 605 - Rotation #5, 3 credit hours
- PAS 606 - Rotation #6, 3 credit hours
- PAS 607 - Rotation #7, 3 credit hours
- PAS 608 - Rotation #8, 3 credit hours
- PAS 609 - Rotation #9, 3 credit hours
- PAS 610 - Rotation #10, 3 credit hours
- PAS 611 - Rotation #11, 3 credit hours
- Call Back Days

# Master of Public Health

## Public Health, M.P.H.

Minimum Credits Required: 45

MPH Core Courses:

- PHT 520 - Core Concepts in Population Health, 3 credit hours
- PHT 521 - Health Policy & US Healthcare Systems, 2 credit hours
- PHT 525 - Statistical Methods in Population Health, 3 credit hours
- PHT 526 - Epidemiology for Public Health Practices, 3 credit hours
- PHT 530 - Environmental & Occupational Health, 3 credit hours
- PHT 535 - Research & Evaluation Methods in Population Health, 3 credit hours
- PHT 537 - Theories & Practices in Health Promotion, 3 credit hours
- PHT 600 - Grand Rounds in Population Health, 0-1 credit hours
- PHT 650 - Leadership Seminar in Population Health, 1 credit hour
- PHT 700 - Grant Writing & Administration, 1 credit hour
- PHT 770 - Practicum in Population Health, 4 credit hours
- PHT 775 - Capstone Project & Seminar, 1 credit hour
- Comprehensive Exam

Electives: (3 credits required)

Electives will be provided on a rotating basis.

- PHT 598 - Clinical Research Methods, 2 credit hours
- PHT 610 - Prevention of Chronic Diseases, 3 credit hours
- PHT 611 - Disease & Wellbeing Across Lifespan, 3 credit hours
- PHT 612 - Prevention of Sexually Transmitted Diseases, 3 credit hours
- PHT 613 - Diversity & Health, 3 credit hours
- PHT 630 - Violence & Public Health, 3 credit hours
- PHT 635 - Latino Health & Culture, 3 credit hours
- MGT 772 - Health Economics, 3 credit hours
- EDU 514 - Instructional Technology Tools & Resources, 3 credit hours
- EDU 516 - Instructional Design & Technology Integration, 3 credit hours
- PAS 503 - Evidence-Based Medicine, 2 credit hours

Select one of the following concentrations:

Population Health Leadership & Management Concentration

- ACC 500A - Financial Accounting, 3 credit hours
- PHT 541 - Population Health Risk Stratification & Management, 3 credit hours
- PHT 645 - Health Informatics & Big Data, 3 credit hours
- MGT 657 - Managing Change, Creativity & Innovation, 3 credit hours
- MGT 702 - Organizational Theory & The Systems Approach to Management, 3 credit hours

Health Education & Disease Prevention Concentration

- EDU 581 - Teaching & Learning, 3 credit hours
- PHT 620 - Program Planning, Design, and Evaluation, 3 credit hours
- PHT 621 - Advanced Methods in Population Health Assessment, 3 credit hours
- PHT 622 - Evidence-Based Interventions in Population Health, 3 credit hours
- PHT 625 - Community Based Participatory Research & Qualitative Methods, 3 credit hours

#### Population Health Informatics Concentration

- PHT 621 - Advanced Methods in Population Health Assessment, 3 credit hours
- BUS 626 - Applied Analytics, 3 credit hours
- BUS 627 - Predictive Analytics, 3 credit hours
- PHT 645 - Health Informatics & Big Data, 3 credit hours
- PHT 670 - Spatial Modeling & Simulation, 3 credit hours

#### Epidemiology Concentration

- PHT 621 - Advanced Methods in Population Health Assessment, 3 credit hours
- PHT 623 - Intermediate Epidemiology, 3 credit hours
- PHT 633 - Methods in Field Epidemiology, 3 credit hours
- PHT 643 - Computer Packages for Epidemiological Analysis, 3 credit hours
- PHT 670 - Spatial Modeling & Simulation, 3 credit hours



# Master of Science

## Exercise Physiology, M.S.

Minimum Credits Required: 37

Core Courses:

- ASW 509 - Research in Allied Health & Human Performance, 3 credit hours
- ASW 511 - Nutrition for Health & Human Performance, 3 credit hours
- ASW 520 - Neuromechanics, 3 credit hours
- ASW 521 - Neuromechanics Lab, 1 credit hour
- ASW 550 - Exercise Physiology Lab, 3 credit hours
- ASW 601 - Seminar I: Practical Placement & Planning in the Profession, 2 credit hours
- ASW 602 - Seminar II: Professional Skills & Development, 2 credit hours
- ASW 603 - Seminar III: Cultural Competence in the Profession, 2 credit hours
- ASW 608 - Allied Healthcare Organization & Administration, 3 credit hours
- ASW 680 - Practicum/Thesis, 7 credit hours

Select One of the Following Concentrations:

Applied Physiology Concentration-

- ASW 535 - Behavioral Strategies for Exercise Promotion, 3 credit hours
- ASW 623 - Applied Physiology, 3 credit hours
- ASW 624 - Applied Physiology Lab, 2 credit hours

Strength and Conditioning Concentration-

- ASW 506 - Psychology of Coaching, 3 credit hours
- ASW 645 - Human Performance, 3 credit hours
- ASW 646 - Human Performance Lab, 2 credit hours

## Speech-Language Pathology, M.S.

A five-year integrated B.S./M.S. degree is available for students on an application basis. This program allows students to easily transition from the B.S. to the M.S. program at BW by modifying some requirements. Interested students can contact the department of communication sciences and disorders for more information.

**Minimum Credits Required: 62**

Required Courses:

- CSD 510 - Child Language Disorders, 3 credit hours
- CSD 521 - Neuroanatomy and Physiology, 2 credit hours
- CSD 525 - Articulation & Phonology Disorders, 3 credit hours
- CSD 530 - Clinical Foundations, 3 credit hours
- CSD 531 - Diagnostics in Speech-Language Pathology, 1 credit hour
- CSD 534 - Augmentative & Alternative Communication, 2 credit hours
- CSD 535 - Clinical Practice, 1 credit hour
- CSD 536 - Clinical Practice, 1 credit hour
- CSD 537 - Clinical Practice, 1 credit hour
- CSD 541 - Voice Disorders, 2 credit hours
- CSD 542 - Fluency Disorders, 2 credit hours
- CSD 550 - Integrations, 3 credit hours
- CSD 551 - Integrations, 3 credit hours
- CSD 552S - Integrations, 3 credit hours
- CSD 557 - Culturally Responsive Practices in Communication Sciences and Disorders, 3 credit hours
- CSD 560 - Foundations of EBP, 3 credit hours
- CSD 563 - SLP 2B in Zambia, 2 credit hour
- CSD 610 - Adult Language Disorders, 3 credit hours
- CSD 621 - Aural Rehabilitation, 2 credit hours
- CSD 625 - Dysphagia, 2 credit hours
- CSD 626 - Motor Speech Disorders, 2 credit hours
- CSD 635 - Clinical Practice, 3 credit hours
- CSD 636 - Clinical Practice, 6 credit hours
- CSD 638 - Clinical Practice School Based, 1 credit hour
- CSD 650 - Integrations, 2 credit hours
- CSD 677 - Capstone in Speech-Language Pathology, 3 credit hours

# Course Descriptions

## Accounting

### **ACC 211 - Intro to Financial Accounting, 3 credit hours**

**Prerequisite(s):** Sophomore Status

This is an introductory course designed to acquaint students with the principles of accounting theory with the emphasis upon the accounting equation, the accounting cycle, recording financial transactions into accounting systems, including journal entries and ledgers, and understanding primary financial statements as they relate to various business organizations.

### **ACC 212 - Intro to Managerial Accounting, 3 credit hours**

**Prerequisite(s):** MTH 120/121 or higher, ACC 211

This introductory course emphasizes the application of accounting information from an internal management perspective. As a result, the accounting applications and policies go beyond the generally accepted accounting principles fundamental to financial accounting (ACC 211).

### **ACC 213 - Accounting & Finance Essentials, 3 credit hours**

This is an introductory course designed to emphasize the fundamentals of financial literacy by acquainting students with the basic accounting process and essential principles of finance. The focus will be on understanding the financial impacts of decisions made in every area of a business as they relate to various business organizations.

### **ACC 241 - Hospitality Financial Accounting, 3 credit hours**

**Prerequisite(s):** HTM 240

This course introduces and emphasizes the principles, concepts and systems utilized in the accounting and budgetary areas of the hospitality and tourism industry. Students will learn about the use of accounting information as a basis for decision making and will understand the uniform system of accounts and financial statements unique to the hospitality and tourism industries.

### **ACC 245 - Bloomberg & Excel Certifications, 3 credit hours**

**Prerequisite(s):** MTH 120/121 or higher.

Bloomberg and Excel Certifications will allow students to gain certifications in both Excel and Bloomberg Market Concepts while also applying skills through projects and assignments in order to build proficiency.

### **ACC 295 - Independent Study, 1-4 credit hours**

### **ACC 298X - Internship, Credit hours to be arranged**

The for-credit internship registration process is handled via the Career Center Handshake platform. To register your internship for credit, please contact Career Center at [career@bw.edu](mailto:career@bw.edu).

### **ACC 316 - Managerial Accounting, 3 credit hours**

**Prerequisite(s):** ACC 211

This course surveys the accounting requirements of internal organizational management with particular attention devoted to the costs capitalized in inventory. Defines and illustrates job order costing, process costing, standard costing, direct costing, cost-volume-profit analysis, activity-based costing, budgeting, and control of decentralized operations.

### **ACC 321 - Intermediate Accounting I, 4 credit hours**

**Prerequisite(s):** ACC 211 with at least a B- grade, MTH 120/121 or higher, and minimum Sophomore Status

The conceptual framework, accounting cycle, the theory, and practice of financial statement preparation in accordance with accounting standards are covered in this course.

**ACC 322 - Intermediate Accounting II, 4 credit hours****Prerequisite(s):** ACC 321 with at least a B- grade

This intermediate accounting course will continue with a deep dive into accounting theory and principles, proper recording of business transactions through journal entries and ledger postings, and the interpretation of financial statements prepared in accordance with generally accepted accounting principles. Main topics include long-term assets and liabilities, stockholders' equity of a corporation, and accounting changes and error corrections. Advanced measurement and disclosure issues relating to the financial statements will also be examined.

**ACC 378 - Principles of Fraud Examination, 3 credit hours****Prerequisite(s):** Completion of 45 credit hours.

This course focuses on fraud in the workplace. You will learn about common fraudulent schemes, typical perpetrators and measures a company can implement to protect against workplace fraud.

**ACC 395 - Independent Study, 1-4 credit hours****ACC 398X - Internship, Credit hours to be arranged**

The for-credit internship registration process is handled via the Career Center Handshake platform. To register your internship for credit, please contact Career Center at [career@bw.edu](mailto:career@bw.edu).

**ACC 407 - Individual Taxation, 3 credit hours****Prerequisite(s):** ACC 321

This course is a study of federal income tax law, US Treasury regulations, IRS revenue rulings, and court cases. A major emphasis of the course will be tax planning. There will be a detailed study of individual tax forms and their preparation. We will discuss ethical issues in tax planning and preparation.

**ACC 408 - Entity Taxation, 3 credit hours****Prerequisite(s):** ACC 407

This course is a study of current federal tax laws applicable to corporations, partnerships, estates and trusts. Tax reporting, planning and research are an integral part of this study.

**ACC 418 - Govt and Non-Profit Accounting, 2 credit hours**

This course deals with financial accounting and reporting concepts, standards, and procedures applicable to:

1. state and local governments-including counties, cities, and school districts, as well as townships, villages, other special districts, and public authorities
2. the federal government; and
3. nonprofit and governmental universities, hospitals, voluntary health and welfare organizations, and other nonprofit (or not-for-profit) organizations.

Financial management and accountability considerations peculiar to government and nonprofit (G&NP) organizations are emphasized, and the distinctive aspects of auditing G&NP organizations are discussed.

**ACC 419 - Auditing Principles, 3 credit hours****Prerequisite(s):** ACC 322 (may be taken concurrently)

Auditing Principles is a course blended on theory and practice. The external audit process is brought to life through practice sets, flowchart creation, audit client evaluation, business process understanding, internal control evaluation, and issuance of financial statements for audit clients. This course satisfies Ohio's course requirement for Auditing to qualify to sit for the CPA exam.

**ACC 432 - AIS/Data Analytics for Accountants, 3 credit hours****Prerequisite(s):** ACC 321

This course examines the role of accounting information systems in business organizations. In doing so, we examine organizational risk across various business processes, components of information technology, and internal control. We also consider ethical issues that may surface within these systems. This course also focuses on data analytics in

accounting and business process review, with an emphasis on the use of data analytics in internal audit, and external audit services.

**ACC 495 - Independent Study, 1-4 credit hours**

**ACC 498X - Internship, Credit hours to be arranged**

The for-credit internship registration process is handled via the Career Center Handshake platform. To register your internship for credit, please contact Career Center at [career@bw.edu](mailto:career@bw.edu).

**ACC 500A - Financial Accounting, 3 credit hours**

This course is designed to develop a working knowledge of the basic accounting system. The primary focus is on financial accounting and its effect on the business entity.

**ACC 501 - Intermediate Accounting I, 4 credit hours**

The conceptual framework, accounting cycle, the theory, and practice of financial statement preparation in accordance with accounting standards are covered in this course.

**ACC 502 - Intermediate Accounting II, 4 credit hours**

This intermediate accounting course will continue with a deep dive into accounting theory and principles, proper recording of business transactions through journal entries and ledger postings, and the interpretation of financial statements prepared in accordance with generally accepted accounting principles. Main topics include long-term assets and liabilities, stockholders' equity of a corporation, and accounting changes and error corrections. Advanced measurement and disclosure issues relating to the financial statements will also be examined.

**ACC 506 - Bloomberg & Excel Certifications, 3 credit hours**

Bloomberg and Excel Certifications will allow students to gain certifications in both Excel and Bloomberg Market Concepts while also applying skills through projects and assignments in order to build proficiency.

**ACC 507 - Individual Taxation, 3 credit hours**

A study of the federal income tax law, US Treasury regulations and IRS revenue rulings and court cases. A major emphasis of the course will be tax avoidance for the individual through tax planning. There will be a detailed study of actual personal federal tax forms and ethics will be stressed.

**ACC 516 - Managerial Accounting, 3 credit hours**

A course which surveys the accounting requirements of internal organizational management with particular attention devoted to the costs capitalized in inventory. Defines and illustrates job order costing, process costing, standard costing, direct costing, cost-volume profit analysis, activity-based costing, budgeting, and control of decentralized operations.

**ACC 519 - Auditing Principles, 3 credit hours**

Auditing Principles is a course blended on theory and practice. The external audit process is brought to life through practice sets, flowchart creation, audit client evaluation, business process understanding, internal control evaluation, and issuance of financial statements for audit clients. This course satisfies Ohio's course requirement for Auditing to qualify to sit for the CPA exam.

**ACC 521 - Advanced Accounting, 3 credit hours**

A course dealing with special problems in accounting for business combinations and mergers. Students will be exposed to the different methods of accounting for investments on the books of the parent company. They will develop an understanding of the consolidation procedures that deal with the issues of the noncontrolling interests, intercompany sales, intercompany debt, ownership patterns, and income taxes. In addition, the related topics of business segment reporting, and foreign currency translation will be examined.

**ACC 530 - Financial Analytics Cases and Simulations, 3 credit hours**

The role of accounting is to provide information to investors, policy-makers, regulators, and other decision-makers to facilitate the allocation of resources in society.

The goal of this course is to apply accounting theories to realistic cases in order to prepare students for the dynamics of real-world professional accounting practices: diagnosing problems and issues (often in the face of significant uncertainty), analyzing relevant information, making responsible and ethical decisions, and reporting decision results and recommendations.

This course covers all areas of accounting expertise and focuses on analytical techniques, providing hands-on experience to develop skills with select business analysis technologies.

**ACC 531 - Accounting Cases and Simulations, 1.5 credit hours**

This course will focus on using a general ledger software system – SAGE 50. Students will focus on setting up and running a company documenting all company events and recordable transactions through the general ledger software. All business processes will be introduced, utilized by students entering data into the software and generating various reports to view and analyze financial results of the company's operations.

**ACC 533 - Auditing Cases and Simulations, 1.5 credit hours**

In Auditing Cases & Simulations we will explore practical application of accounting and auditing skills by performing cases study exercises. We will also reinforce the simulation tasks on the CPA exam by performing practice simulations.

**ACC 548 - Accounting for Business Decisions, 3 credit hours**

This course is designed to enhance a manager's understanding in the use of accounting for business decisions. Emphasis is placed on "a day in the life" of a manager and the many interactions with internal and external auditors and others seeking information regarding company financial results, dependency and usage of accounting information systems, and the various analytic techniques that can be applied to the company's financial data.

**ACC 560 - Internal Audit, 3 credit hours**

Internal Audit is a practical course to understand the key aspects of the profession of Internal Auditing. Students will learn the role of internal auditors within an organization and the governing body of the profession. Students will learn about a year in the life of an internal auditor, as well as the different ways companies structure their internal auditing departments.

**ACC 568 - Financial Statement Analysis, 3 credit hours**

This course will demonstrate the relevance of financial statement analysis and equip students with the analytical tools necessary for informed decision making.

**ACC 578 - Principles of Fraud Examination, 3 credit hours**

This course is centered around understanding occupational fraud. Who is the most likely perpetrator of fraud in the workplace? Doesn't a strong set of internal controls stop fraud from happening? What types of schemes do fraudsters commit? What is the Fraud Triangle? You will find answers for these questions and many more as we navigate throughout the course materials. The course culminates in the application of understanding workplace policies and how these policies help to prevent, detect or allow fraud to occur in the workplace.

**ACC 606 - Tax Theory, Research & Practice, 3 credit hours**

This course develops students' capacities to deliver tax services far more sophisticated and of much higher value-added than tax return preparation—that is, the ability to form sound professional judgements about the tax consequences of past and proposed transactions and events. This requires attaining firm understandings of tax theory and policy and of the law relevant to taxation, developing legal reasoning and tax law research skills, and becoming familiar with CPA tax practitioners' professional responsibilities. This course accomplishes those goals while concurrently exposing students to the tax planning process.

**ACC 690 - Accounting and Data Analytics Core Capstone, 3 credit hours**

Combining students' classroom experience with Becker Review online instructions, this course prepares students for success on the CPA exam section which tests Business Environment & Concepts (BEC). In this 8 week long course, students will participate in pre-assessment, pre-lecture online video instruction, in-class discussion, and post-lecture evaluation to be prepared to sit in the BEC CPA exam section.

**Graded:** S/U

**ACC 691 - Auditing and AIS Core Capstone, 3 credit hours**

Combining students' classroom experience with Becker Review online instructions, this course prepares students for success on the CPA exam section which tests Auditing & AIS Core subject matter. In this 8 week long course, students will participate in pre-assessment, pre-lecture online video instruction, in-class discussion, and post-lecture evaluation to be prepared to sit in the AAIS CPA exam section.

**Graded:** S/U

**ACC 692 - ISC Discipline Capstone, 3 credit hours**

Combining students' classroom experience with Becker Review online instructions, this course prepares students for success on the CPA exam section which tests ISC Discipline Capstone subject matter. In this 8 week long course, students will participate in pre-assessment, pre-lecture online video instruction, in-class discussion, and post-lecture evaluation to be prepared to sit in the ISC Discipline CPA exam section.

**Graded:** S/U

**ACC 695 - BAR Discipline Capstone, 3 credit hours**

Combining students' classroom experience with Becker Review online instructions, this course prepares students for success on the CPA exam section which tests BAR Discipline Capstone subject matter. In this 8 week long course, students will participate in pre-assessment, pre-lecture online video instruction, in-class discussion, and post-lecture evaluation to be prepared to sit in the BAR Discipline CPA exam section.

**Graded:** S/U

**ACC 696 - Tax Core Capstone, 3 credit hours**

Combining students' classroom experience with Becker Review online instructions, this course prepares students for success on the CPA exam section which tests Tax Core subject matter. In this 8 week long course, students will participate in pre-assessment, pre-lecture online video instruction, in-class discussion, and post-lecture evaluation to be prepared to sit in the Tax Core CPA exam section.

**Graded:** S/U

**ACC 698 - Independent Study, 1-6 credit hours****ACC 706 - Accountability of Financial Resources, 3 credit hours**

This course emphasizes the use of the accounting system to provide decision-making information to the manager. Cost accounting data are applied to management models of the firm, especially those models dealing with alternative choice situations such as pricing, factor and product combinations and capital budgets. Financial principles and analysis are coupled with accounting data for specialized types of business situations requiring executive decisions. Case problems provide the basis for intensive study of the subject area.

## Africana Studies

**AFR 200D - Introduction to Africana Studies, 3 credit hours**

This course will introduce students to the study of African societies through the lens of the legacy of the slave trade, colonial rule, and national development since independence, with special focus on West Africa. Contemporary African politics, economies, and the emerging role of select countries in global politics will be examined. The contemporary social, economic, and political status of Africans and descendants of the African diaspora in the Western Hemisphere will be analyzed in this historical context, with special attention to the diaspora communities in the U.S.

## Allied Health, Sport and Wellness

### **ASW 110W - Personal Wellness, 1 credit hour**

Course designed as a computer course that includes a comprehensive health risk assessment, nutrition, dietary assessment, substance use and abuse and other aspects of personal wellness as developed especially for the course.

### **ASW 121W - Jazz I Practicum, 1 credit hour**

This is a beginning level course designed to introduce students to the fundamentals and of jazz dance technique. In addition to physical skills, students will learn awareness of the body.

### **ASW 123W - Tap I Practicum, 1 credit hour**

This is a beginning level course designed to introduce students to the fundamentals and of tap dancing. Rudimentary elements of tap will be taught.

### **ASW 131W - Physical Activities/Dance Technique, .5-1 credit hour**

These courses deal with the development of skills and knowledge of sport, dance, fitness, and other movement activities. Courses are designed for one-half or one credit hour depending on the nature and skill level of the activity. Some courses may be offered on a minimester schedule while others are offered for a full semester. No course may be repeated for credit except at a more advanced level. Specific courses are listed in the course schedule for each term.

### **ASW 133W - Physical Activities/Dance Technique, 1-2 credit hours**

These courses deal with the development of skills and knowledge of sport, dance, fitness, and other movement activities. Courses are designed for one-half or one credit hour depending on the nature and skill level of the activity. Some courses may be offered on a minimester schedule while others are offered for a full semester. No course may be repeated for credit except at a more advanced level. Specific courses are listed in the course schedule for each term.

### **ASW 150W - Lifetime Leisure Activities, 2 credit hours**

This course provides practice and methods for participating in lifetime leisure activities. Physical Education students enrolled in this course will be exposed to various activities providing knowledge and application of skills enabling students to participate in activities for a lifetime. Includes activities such as walking, jogging, golf, tennis, outdoor activities, racquetball, pickleball, badminton, ping pong and disc golf.

### **ASW 151W - Team Games, 2 credit hours**

This course provides practice and methods for participating in, officiating, and observing various team games. Physical Education students will be exposed to the skills, tactics, officiating procedures, and overall participation requirements for various team games. Invasion games such as basketball, flag football, soccer, Net games such as volleyball, badminton, pickle ball and Striking games such as softball and team hand ball are played.

### **ASW 152W - Fitness and Physical Activity, 2 credit hours**

This course provides practice and methods for participating in physical activity and fitness activities. Physical Education students will be exposed to various activities providing the necessary components for leading to a healthy and active lifestyle. Instruction and assessment of fitness based activities appropriate for lifelong health and fitness will be provided. Includes activities such as aerobic fitness, strength/resistance training, health-related concepts and the use of technology.

### **ASW 201 - AHSW Leadership and Professional Mapping, 1 credit hour**

**Notes:** Registration limited to declared Allied Health, Sport & Wellness majors or by permission of Chair. To be completed by end of sophomore year. This course does not count toward the Wellness core requirement.



A survey course designed to introduce the nature of study, interrelationships, and career options related to academic disciplines and programs associated with pre-allied health/pre-physical therapy, exercise science, physical activity and recreation administration, and community health promotion. Recommended to be taken in the freshman or sophomore year.

**ASW 202 - Principles of Sports Medicine, 3 credit hours**

This introductory course in sports medicine exposes students to the field with emphasis on the profession of athletic training. The roles and duties of the athletic trainer are discussed in relationship to the current job settings of the profession and interactions with other healthcare providers. Care and prevention of injuries/ illness are presented along with basic practical experience in prevention, assessment and treatment. Students are also introduced to the administrative skills and professional responsibility required of an allied healthcare professional.

**ASW 205 - First Aid and Emergency Care Techniques, 3 credit hours**

**Notes:** Additional administrative/certification fee required.

**Prerequisite(s):** Must be a declared Exercise Science, Pre-Allied Health/Pre-Physical Therapy Major, or Sports Medicine, Athletic Coaching Minor.

Recognizing various types of illnesses, emergency and stress situations and the ability to care for an injured person until advanced professional help arrives are among the topics explored in this course. The course will address the care rendered to be basic first aid, as well as the more advanced emergency management techniques used by pre-hospital healthcare providers. Emphasis will be given to prevention and recognition of illness/injury, the rendering of physical and psychological care, as well as the necessity for a team approach to emergency situations. ASW-205 is not applicable to the ASW Wellness Core requirement.

**ASW 206 - Medical Terminology, 2 credit hours**

This course is an introduction to the field of medical terminology, the language of the medical profession and its allied health professions. Emphasis is on understanding basic medical terms and how they are used in communicating, documenting and reporting patient care procedures. Practical applications are provided by exercises and medical record analyses.

**ASW 207W - Nutrition for Daily Living, 3 credit hours**

An introduction to the study of basic nutrition including macro and micronutrients. Course focuses on nutrition for healthy individuals throughout the stages of the life cycle with emphasis on personal diet planning.

**ASW 209 - Research Design & Statistics in Sport Sciences, 3 credit hours**

**Prerequisite(s):** ASW 201 and Core Math.

This course is designed to acquaint students with the study and principles of qualitative and quantitative research methods; the application of research principles to health and human performance; the understanding of proper research design especially as it might relate to human subjects; and procedures to ensure ethical treatment of subjects. Furthermore, students will have working knowledge of basic statistics to determine appropriate testing parameters and interpretation of analysis using SPSS software upon completion of this course. This course fulfills the core quantitative extension requirement.

**ASW 211W - Nutrition for the Athlete, 3 credit hours**

**Notes:** Registration limited to Allied Health, Sport & Wellness Majors and Minors only.

This course studies the scientific basis for sports nutrition and how it can be used to optimize performance. Emphasis will be on nutritional concepts related to the daily training, diet, and pre competition meal, energy utilization in exercise and recovery, body composition, use of nutrient supplements and ergogenic aids as well as the special needs of athletes.

**ASW 215 - Foundations for Health and Wellness Professionals, 3 credit hours**

A study of the purpose, scope and nature of health education through consideration of the philosophical and behavioral perspectives of the field. A search for and development of principles guiding the operation of health education in the schools, the community, and in public health agencies. The collaboration of school members,

communities, and families will be considered during an evaluation of a Coordinated School Health Program (CSHP) as part of the plan for comprehensive school health education.

**ASW 216W - Family Relations, 3 credit hours**

This course is designed to help the student gain understanding on the developmental stages of adult life choices regarding relationships, singlehood, marriage, and family life. Functions and structure of American family life are examined through the lens of theoretical family life frameworks with an emphasis on how the socio-ecological aspects of society impact American families.

**ASW 218W - Consumer Issues, 2 credit hours**

Course involves the study of consumer issues affecting individuals and families. With special attention to consumer issues in health and wellness, the course focuses on consumer alternatives in the marketplace, consumer legislation, and the rights and responsibilities of the consumer.

**ASW 221W - Personal Health, 3 credit hours**

The study of the health problems and concerns of young adults in America today. Although normally selected by members of the class, topics of study usually include stress management and emotional health, chemical dependency, sexual responsibility, nutrition, fitness, heart disease, cancer and the communicable diseases including the STDs and AIDS. With the focus on prevention, students are encouraged to make lifestyle choices conducive to lifelong wellness.

**ASW 222W - Community Health, 3 credit hours**

A study of health problems affecting entire populations, particularly environmental pollution and toxic wastes, communicable disease control, and the health risks of community living. The course surveys how community action works to reduce such risks, while investigating the crisis in health care and the role of public health agencies in the business of health promotion and disease prevention.

**ASW 226 - Introduction to Recreation and Physical Activity, 3 credit hours**

**Corequisite(s):** ASW 236

An introduction to the field of recreation and leisure studies including historical, philosophical and theoretical aspects of leisure, recreation and play, as well as an overview of the recreation profession and associated careers. A foundation course dealing with professional preparation for students who have an interest in the field of recreation/leisure studies; it includes recreation programming in various settings, commercial and tourism, therapeutic recreation, and parks.

**ASW 227 - Principles of Coaching, 3 credit hours**

**Notes:** \$60 additional fee covers cost of certification.

An introductory level course for students preparing to enter a coaching career or be involved in the management and organization of an athletic program. Through the course the student will develop guidelines and principles helpful in organizing a successful athletic program. The course will emphasize an awareness of the demands of the coaching profession and explore issues and ethical considerations significant to coaching. The course will also include certification from Positive Coaching Alliance and National Federation of High School Sports as well as a review of requirements for the completion of a minor in athletic coaching.

**ASW 235 - Fitness & Health Promotion Program Management & Leadership, 3 credit hours**

**Prerequisite(s):** Sophomore Status and Allied Health, Sport & Wellness Majors and Minors or permission of instructor.

This course is designed to equip students with a series of management, promotion, and other administrative tools necessary to successfully operate health and/or fitness related programs. Encourages and enhances a student's knowledge of proper group exercise instruction including assessment of certifications and a working knowledge of exercise leadership skills. Educates students on current standards to organize fitness facilities and exercise programs that are safe and effective in a variety of settings, including public and private sport/athletic facilities, recreation complexes, corporate fitness centers, and hospital wellness programs. While emphasizing worksite wellness and

programming in the second half of the course, the basic principles are applicable to all types of facilities we will discuss and include needs assessments, program planning, implementation and evaluation.

**ASW 236 - Recreation & Physical Activity Practicum, 3 credit hours**

**Notes:** Student lab fee= \$50.

**Prerequisite(s):** ASW 201. Sophomore Status and Allied Health, Sport & Wellness Majors and Minors or permission of instructor.

A foundation lab course that will apply the theoretical aspects of leisure, recreation, and play. Students will gain exposure and experience leading recreation programming through structured lab sessions to occur at BW and off-campus.

**ASW 238 - Research & Development for Physical Activity & Recreation National Certification, 3 credit hours**

**Notes:** Student fee= \$50.

**Prerequisite(s):** ASW 201

National Certifications serve to generate ongoing improvement in professions worldwide. The certification is an assurance that individuals have met the profession's highest standards for best practices. A survey course designed to introduce the value, importance, process of obtaining national certification in the physical activity and recreation administration, exercise science, and community health promotion fields. Foundational study of current methods and practices of evaluation and research about Physical Activity & Recreation National Certifications is included. Recommended to be taken in the sophomore year.

**ASW 246W - Stress Management, 2 credit hours**

This course will examine a comprehensive approach to stress management, focused on the balance and harmony of the mind, body, spirit, and emotions. Students will assess their personal stressors, develop an understanding of major causes of stress throughout their lifespan, and gain knowledge on stress management techniques premised on a holistic model.

**ASW 247 - History and Philosophy of Physical Activity and Recreation, 3 credit hours**

**Prerequisite(s):** ENG 131 and Sophomore or higher standing. Only Physical Activity and Recreation Administration Majors Permitted.

A course designed to study the historical and philosophical evolution of Physical Activity, Recreation and Sport. Students will examine the goals involved in the profession and how this knowledge forms the basis for the study of individual-, school- and community-based program development in these areas. This course fulfills the core writing extension requirement.

**ASW 263 - Special Topic Seminar, Credit hours to be arranged**

**ASW 270 - Principles of Health Promotion, 3 credit hours**

This course will introduce the student to comprehensive, evidence-based, and cost-effective health promotion strategies, policies, and programs. Through the consideration of the influences on health such as high-risk behaviors and socio-economic factors, students will learn to develop, implement, and evaluate health promotion and education programs for specific populations.

**ASW 280 - Introduction to Exercise Science, 3 credit hours**

**Prerequisite(s):** Declared Exercise Science or Pre-Allied Health/Pre-PT major. Second semester freshman or sophomore status.

This course will introduce majors to the field and profession of exercise science including certifications and career opportunities. Basic concepts related to exercise techniques, proper use of facilities and equipment, training, and program design will also be presented in this course. The lab activity component requires students to be participants in a variety of aerobic and anaerobic activities regularly.

### **ASW 295 - Independent Study, 1-4 credit hours**

### **ASW 298X - Internship, Credit hours to be arranged**

The for-credit internship registration process is handled via the Career Center Handshake platform. To register your internship for credit, please contact Career Center at [career@bw.edu](mailto:career@bw.edu).

### **ASW 300 - Evaluation Techniques in Sports Medicine, 3 credit hours**

**Prerequisite(s):** ASW 202 and BIO 203

This course is a study of the anatomical structures of upper and lower extremity as it relates to normal surface anatomy and injury pathology including bony landmarks, ligamentous tissue and musculotendinous structures. Students will also gain an understanding of the procedures governing the care and treatment of athletic injuries as they relate different regions of the body. Additional topics will include learning general orthopedic assessment skills, injury nomenclature, diagnosing techniques, and the evaluation of posture and gait. Laboratory experience is designed to demonstrate the application of various evaluation techniques and tools utilized in diagnosing regional dysfunctions.

### **ASW 301W - Sport Exercise Conditioning and Program Design, 3 credit hours**

The course will study the importance of physical fitness in sport. It will cover the basic principles of strength and cardiovascular conditioning related to creating aerobic and strength training programs to physically train individuals for peak performance. Lab sessions will be included.

### **ASW 302 - Physiology of Exercise, 3 credit hours**

**Prerequisite(s):** BIO 203 and BIO 204

A study of the human body's responses to the stress of physical exercise. Topics covered include metabolic, neuromuscular, cardiovascular and pulmonary adjustments to acute and chronic exercise.

### **ASW 303 - Health and Physical Fitness Assessment Techniques, 3 credit hours**

**Prerequisite/Corequisite:** ASW 302

Measurement of human metabolic responses to exercise in laboratory and field settings. Topics include ergometry, energy expenditure, body composition, blood pressure recording, lung function during exercise, PWC tests and graded exercise testing. Other health and fitness assessments may include muscular endurance, balance, posture and mobility to create safe and appropriate exercise programs.

### **ASW 306 - Therapeutic Modalities with Lab, 4 credit hours**

**Prerequisite(s):** BIO 203. Sophomore Status and Allied Health, Sport & Wellness Majors and Minors or permission of instructor.

This lecture/lab course is a study of the various therapeutic modalities used in the treatment and care of injuries throughout the healing process. The principles and theories, the physiological responses, and various application methods of therapeutic modalities will be studied.

### **ASW 310 - Medical Topics in Sports Medicine, 3 credit hours**

**Prerequisite(s):** BIO 203 & BIO 204

This course is designed to teach students in the recognition, evaluation, care and proper referral of general medical conditions and illnesses that affect the physically active. The course provides students with hands-on opportunities in the evaluation of the various bodily systems, pharmacology and the use of the otoscope, ophthalmoscope, and other diagnostic instruments commonly used by allied healthcare providers.

### **ASW 312W - Substance Abuse/Chemical Dependency, 3 credit hours**

Addiction and substance use disorders remains a major problem in our society today. This course will examine drugs and drug use from a variety of perspectives including behavioral, pharmacological, historical, and socio-ecological factors. Further, the course will discuss policy prevention strategies and the complexities of dependence and recovery.

**ASW 316 - Therapeutic Interventions, 3 credit hours****Prerequisite(s):** ASW 202 and BIO 203

This course is a study of the principles and application of therapeutic interventions. The course content will focus the components of a restoration/rehabilitation program for various orthopedic injuries; including determinants of therapeutic goals, selection of various modalities and exercises, methods of recording progress and development of criteria for progression. Various therapeutic interventions will be studied in order to better understand the mechanical and psychological effects as well as proper utilization within a rehabilitation program as based on clinical best practices/research.

**ASW 317 - Nutrition Through the Life Cycle, 3 credit hours****Prerequisite(s):** Junior standing and completion of ASW 207W or approval of the Chair. Completion of BIO 203/204 recommended.

This 3 credit hour course addresses specific physiological changes, nutritional requirements, problems, interventions, common deficiencies and diet-related diseases of all age groups within the life cycle.

**ASW 319W - Child in the Family, 3 credit hours****Prerequisite(s):** ASW 216W or junior/senior standing

A study of the factors involved in the physical, cognitive, social and emotional development of children through a community and whole child approach to child development. Particular focus will be placed on external environmental factors influencing the development of children. Additional emphasis on child advocacy and policy development will also be a key component with practical applications to solve problems to deal with day-to-day issues facing families in our current society.

**Semesters Offered:** This course will be offered in alternate years.**ASW 320W - Parenting, 3 credit hours****Prerequisite(s):** ASW 216W or junior/senior standing

This course will examine the issues pertaining to parenting in America, including cultural, social, and familial influences on the child and family. The study of Parenting structure and function are central themes and studied from theoretical family life frameworks.

**Semesters Offered:** This course will be offered in alternate years.**ASW 321 - Adapted Physical Activity, 3 credit hours**

A study of physical activity programming for individuals with physical, intellectual, and developmental disabilities. The course focuses on how to modify and adapt skills and activities for individuals with varying abilities to promote lifelong physical activity.

**ASW 323 - Outdoor Recreation & Education, 3 credit hours**

The course is designed to introduce the fundamental principles, practices, and applications of outdoor recreation and education. International, national, state, and local outdoor recreation/education programs will be examined, including associated career opportunities. The course includes development of instructional materials and resources and will include active participation in selected outdoor recreation and education experiences. In addition, students will be exposed to the three main outdoor experiences including backpacking, paddle sports and recreational climbing.

**ASW 324 - Community Parks & Recreation Administration, 3 credit hours****Prerequisite(s):** ASW 226

The course is designed to include a study of the administration of community based parks and recreation agencies. Content will emphasize the value of recreational and leisure time pursuits, theory, and administration practices. Career opportunities in the recreation professions will also be explored.

**ASW 327 - Coaching, 2 credit hours**

Strategy, techniques and coaching methods in competitive baseball, basketball, football, track and field, and volleyball are studied. Separate courses are offered in the various sports; some coaching courses may be offered less frequently than once a year.

**ASW 328 - Skill Concept Development, 2 credit hours**

This course is designed to provide coaches and students an explanation of the skill concepts surrounding performance techniques. This course will provide the opportunity to observe, analyze, develop and correct the skills of sport techniques for quality athletic performance.

**ASW 330W - Human Sexuality Education, 3 credit hours**

**Prerequisite(s):** Sophomore or higher standing or consent of instructor

A study of human sexuality in relation to oneself and others, this course explores sexual behavior and its impact on sexual health. The principle of sexual responsibility is a central theme guiding the development of decision-making skills leading to risk reduction and the prevention of unwanted intimacy, unwanted pregnancy, and disease. In addition to learning the content of sex education, students will practice and evaluate teaching strategies designed for effective Family Life Education.

**ASW 335 - Health Behavior Management, 3 credit hours**

**Prerequisite(s):** ENG 131. Junior standing preferred. Must be an Allied Health, Sport & Wellness Major or Minor, or permission of instructor.

Introduction to key health behavior change theories and psychosocial determinants of health behaviors. Laboratory emphasis on communication, leadership, and group-process activities related to health behavior change theories and practices. This course fulfills the core writing extension requirement.

**ASW 352 - Motor Learning & Developmental Movement, 3 credit hours**

**Prerequisite(s):** ASW 201

This course includes a study of the psychological factors affecting the development of motor skills, learning theories and their application to motor skills, the nervous system, including perceptual mechanism, and the factors relating to the development of motor skills throughout the life cycle. Applications of conceptual principles to practical motor skill learning will be stressed.

**ASW 356 - Risk Assessment & Safety Management in Recreation, 3 credit hours**

**Prerequisite(s):** ASW 226

The purpose of this course is to develop an awareness of legal liability among community recreation and leisure providers and develop skills in managing risk within their organizations. In addition, the students will learn methods on how to offer quality leisure experiences with maximum public safety for participants and protection under the law for leaders, administrators, and organizations offering the recreation services.

**ASW 395 - Independent Study, 1-4 credit hours****ASW 398X - Internship, Credit hours to be arranged**

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**ASW 402 - Kinesiology/Biomechanics, 3 credit hours**

**Prerequisite(s):** ASW 302

This course provides a background in the fundamental principles of mechanics used to analyze human movement. Emphasis is on both describing movement and understanding the internal and external forces acting on the body. Practical applications to injury prevention, rehabilitation, and performance improvement are provided by a combination of lecture and laboratory activities.

**ASW 403 - Health and Fitness Assessment Practicum, 1 credit hour**

**Prerequisite(s):** Requires completion of ASW 280 and ASW 303 and declared Exercise Science major or approval of Academic Program Coordinator.

This practicum course provides the opportunity for Exercise Science students to apply the knowledge and skills acquired through their programs of study in an intentional and focused manner as prescribed by accreditation standards. In addition, students will enhance skills related to health and fitness assessments, exercise programming

and effective communication with clients. A planned, supervised and evaluated practical experience that is relevant to the student's program is an essential component of an exercise science professional degree program.

**ASW 406 - Psychology of Coaching, 3 credit hours**

**Prerequisite(s):** ASW 227 or consent of instructor.

Study of the nature and responsibilities of the coaching profession, focusing on the psychological aspect of teaching sports and motivating individuals and teams. A variety of information will be presented and discussed concerning the importance of the mental dimension of sport.

**ASW 408D - Cultural Concepts & Leadership in Healthcare, 3 credit hours**

**Prerequisite(s):** ASW 202 or permission of instructor

This course will allow students to develop an understanding of the process of cultural competence and responsiveness for athletic trainers and sports medicine professionals. This course will also provide a foundation to understanding theoretical concepts of leadership/management and how different leadership approaches impact ones' working environment. Time will be spent on professional behaviors in sports medicine, working towards being a culturally competent healthcare provider, and seeing the intersection of leadership within these concepts. This course fulfills the Diversity requirement of the core.

**ASW 409 - Advanced Research Design & Statistics in Sport Sciences, 3 credit hours**

**Prerequisite(s):** ENG 131, ASW 202 and ASW 209 or permission of instructor

This course covers the development of empirical research designs for both practical and theoretical problems and includes literature review of hypothesized relationships, and formulation of research proposals, with an emphasis placed on an evidence-based approach to sports medicine research. This class will develop student's ability to critically review literature and advance student's professional writing and presentation skills. Enrolled students will develop and conduct research projects based on their declared discipline. This course fulfills the writing extension requirement of the core.

**ASW 423 - Exercise Prescription in Chronic Disease and Prevention, 3 credit hours**

**Prerequisite(s):** ASW 302 and ASW 303; senior standing or consent of instructor

The capstone course will focus on Exercise Is Medicine in exercise prescriptions and development of exercise programs. Attention will be placed on understanding the pathophysiology, medical interventions and exercise protocols for persons with cardiovascular disease (including MetS, PAD, CHF and dyslipidemia), diabetes, pregnancy, hypertension and other conditions pertinent to the literature (i.e. cancer, youth, depression). The student will demonstrate competence and skills necessary to deliver safe and valid exercise prescriptions.

**ASW 445 - Theory and Practice of Strength and Conditioning, 3 credit hours**

**Prerequisite(s):** ASW 302 and junior/senior standing

Course is designed to provide in-depth content on the theory and practice of designing resistance exercise programs and the scientific basis for such programs; also covers practical aspects such as exercise technique, safety issues, administration of strength and conditioning programs, and considerations for special populations.

**ASW 459X - Faculty-Student Collaboration, Credit hours to be arranged**

**ASW 463 - Advanced Special Topic Seminar, Credit hours to be arranged**

**ASW 491 - Departmental Thesis/Project, Credit hours to be arranged**

**ASW 492 - Departmental Thesis/Project, Credit hours to be arranged**

**ASW 494 - Physical Activity & Recreation Capstone, 3 credit hours**

**Prerequisite/Corequisite:** ASW 356

This course is designed to be completed in the final year of the required curriculum in a Physical Activity and Recreational Administration. Course activities and assignments will focus on overall expectations of a Physical Activity and Recreational Administration. Emphasis will be on integrating the knowledge and skills that the student has developed throughout the Physical Activity and Recreation Administration curriculum.

**ASW 495 - Independent Study, 1-4 credit hours**

**ASW 497X - Internship, Credit hours to be arranged**

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**ASW 506 - Psychology of Coaching, 3 credit hours**

This course treats the research and theoretical consideration of the psychological variables in human performance, with special reference to the body self in movement, and the psychology of sport.

**ASW 509 - Research in Allied Health & Human Performance, 3 credit hours**

This course provides an orientation to graduate study and research in allied health, movement studies, and exercise physiology. The course is designed to acquaint the graduate student with the methods and materials of graduate study and scientific inquiry.

**ASW 511 - Nutrition for Health & Human Performance, 3 credit hours**

This course is designed to provide the student with the advanced knowledge and understanding of contemporary topics in sports nutrition and exercise metabolism as they relate to sports and exercise performance.

**ASW 520 - Neuromechanics, 3 credit hours**

**Corequisite(s):** ASW 521

This course focuses on the study of motor learning and the mechanical analyses of human movement. Factors such as skill acquisition, linear and angular motion, force, and fluid mechanics are considered as they affect the internal and external mechanics of the body and overall motor performance.

**ASW 521 - Neuromechanics Lab, 1 credit hour**

**Corequisite(s):** ASW 520

This laboratory course provides students with hands on experience performing quantitative and qualitative assessments of human movement. Emphasis is placed on analysis of biomechanical factors related to movement technique to enhance performance and promote the welfare of participants in exercise, dance, recreation, and competitive sport.

**ASW 535 - Behavioral Strategies for Exercise Promotion, 3 credit hours**

This course addresses key health behavior change theories and psychosocial determinants of health behaviors. Communication strategies to work with a variety of populations and targeted techniques for activity adoption, maintenance and optimization will also be covered.

**ASW 550 - Exercise Physiology Lab, 3 credit hours**

This course teaches knowledge and skills related to the measurement of human metabolic responses to exercise in laboratory and field settings. Topics include ergometry, energy expenditure, body composition, blood pressure recording, lung function during exercise, PWC tests and graded exercise testing. Emphasis will include introduction to equipment and measurement techniques in exercise testing, electrocardiography assessment, lactate and glucose measurement, and anaerobic assessment. Communication of fitness and health-related outcomes will be emphasized.



**ASW 601 - Seminar I: Practical Placement & Planning in the Profession, 2 credit hours**

This seminar provides students with guidance in setting their individualized academic plan and foundations of professional skills to prepare them for the rigors of graduate work and an intensive internship or thesis.

**ASW 602 - Seminar II: Professional Skills & Development, 2 credit hours**

**Prerequisite(s):** ASW 601

This seminar provides opportunities to delve further into expectations of professionals in the field and requirements to maintain credentials. Specific emphasis is placed on leadership skills, strategies for effective teamwork and professional standards of practice to prepare students for culminating experiences.

**ASW 603 - Seminar III: Cultural Competence in the Profession, 2 credit hours**

**Prerequisite(s):** ASW 601

This seminar explores relevant topics related to cultural sensitivity and communication in a professional setting.

**ASW 608 - Allied Healthcare Organization & Administration, 3 credit hours**

**Prerequisite(s):** ASW 602

This course analyzes general principles and procedures of allied health program administration. The organization and administration of specific programs will be discussed.

**ASW 623 - Applied Physiology, 3 credit hours**

**Corequisite(s):** ASW 624

The course covers advanced concepts related to the metabolic, muscular, cardiovascular, endocrine, and respiratory systems with primary focus on acute and chronic responses comparing healthy and chronic disease states.

**ASW 624 - Applied Physiology Lab, 2 credit hours**

**Prerequisite(s):** ASW 550

**Corequisite(s):** ASW 623

The laboratory course provides applied laboratory experiences related to the exercise response related to metabolic, cardiovascular, and respiratory systems. Emphasis will include advanced measurement techniques in maximal exercise testing, electrocardiography assessment, lactate and glucose measurement, and anaerobic assessment. Application of advanced fitness and health-related measures for clinical settings will be emphasized.

**ASW 645 - Human Performance, 3 credit hours**

**Prerequisite(s):** ASW 520

**Corequisite(s):** ASW 646

This course provides advanced concepts in the scientific theory and practice of strength & conditioning for human performance. This course covers practical aspects such as exercise technique, safety issues, program design for performance, facility management and design.

**ASW 646 - Human Performance Lab, 2 credit hours**

**Prerequisite(s):** ASW 550

**Corequisite(s):** ASW 645

This laboratory course provides students with practical performance experience and coaching theoretical foundations in a variety of activities and sports. Assessment of performance variables will be taught to then apply goal-oriented program design. Additional analysis of biomechanical factors related to movement technique to enhance performance and promote the welfare of participants in exercise, dance, recreation, and competitive sport will also be covered. The student will explore specific performance tactics related to contest and practice management and develop specific practice strategies to develop human performance related skills (eg. Speed, power, agility, strength, endurance & flexibility).

**ASW 680 - Practicum/Thesis, 7 credit hours**

**Prerequisite(s):** Approval of Clinical Coordinator and/or Program Director

Students must complete a minimum of 300 hours of supervised field-work experience and/or a research-based

thesis. The practicum is designed to provide MSEP students with practical experience in a structured, supervised, professional setting under the direction of a site supervisor and faculty member in a relevant setting for human performance or clinical exercise physiology. Experiences must be approved by the Clinical Coordinator of the MSEP Program. Requires a final project and/or thesis as approved by the Program Director.

## **Arabic**

### **ARA 101 - Elementary Arabic I, 4 credit hours**

This course is designed for students with no previous knowledge of Modern Standard Arabic. Students will learn the Arabic alphabet, basic writing and conversational skills, and entry-level Arabic grammar, including gender of nouns and verbs and regular conjugations. Students will also be exposed to Arabic culture and customs of polite society.

### **ARA 102 - Elementary Arabic II, 4 credit hours**

**Prerequisite(s):** ARA 101 or equivalent

Students of Arabic 102 are expected to enhance the four language skills of speaking, listening, reading and writing in Modern Standard Arabic. This class will introduce hollow, double-root, and defective verbs, absolute negation, and conditional tense. Students will be exposed to native speakers of Arabic through audio-visual materials and will continue learning about Arab culture.

### **ARA 201 - Intermediate Arabic I, 4 credit hours**

**Prerequisite(s):** ARA 102 or equivalent

This third semester course continues building the students' intermediate knowledge of Modern Standard Arabic and completes the book used in ARA 101 and ARA 102. The course will provide opportunities for students to solidify and augment the grammar learned in Elementary Arabic as it introduces new vocabulary. It will focus on the development of the ability to use Modern Standard Arabic orally and in reading and writing. Topics include describing activities, professions, places, events, and states of affairs. Exercises include writing, relating information from written sources, and expressing thoughts and oneself. The course will also include an oral component, in which students will practice their Arabic oral communication skills. This will be assessed through specific presentations and projects, which will allow the students to further develop and build on the oral aspect of the Arabic language. Students who complete this course should be able to initiate discussion on topics of daily life and understand and produce more complicated life scenarios.

### **ARA 202 - Intermediate Arabic II, 4 credit hours**

**Prerequisite(s):** ARA 201 or equivalent

This fourth semester course continues building the students' intermediate knowledge of Modern Standard Arabic and completes the book used in ARA 101 and ARA 102. The course will provide opportunities for students to solidify and augment the grammar learned in Elementary Arabic as it introduces new vocabulary. It will focus on the development of the ability to use Modern Standard Arabic orally and in reading and writing. Topics include describing activities, professions, places, events, and states of affairs. Exercises include writing, relating information from written sources, and expressing thoughts and oneself. The course will also include an oral component, in which students will practice their Arabic oral communication skills. This will be assessed through specific presentations and projects, which will allow the students to further develop and build on the oral aspect of the Arabic language. Students who complete this course should be able to initiate discussion on topics of daily life and understand and produce more complicated life scenarios.

### **ARA 295 - Independent Study, 1-4 credit hours**

### **ARA 395 - Independent Study, 1-4 credit hours**

### **ARA 495 - Independent Study, 1-4 credit hours**

## Art

### **ART 102I - Art Appreciation, 3 credit hours**

Explore the masterpieces of Western art from mysterious prehistoric cave paintings to mystifying modern art. Appreciate and understand them by unlocking their meaning and function and by investigating the context in which the art was made. Our explorations will include such awe-inspiring monuments as Stonehenge, the Colosseum, and the Sistine Chapel, as well as vibrant Impressionist paintings and the perplexing works of Picasso and Dali.

### **ART 103D - Art of Our Time, 3 credit hours**

Encounter and come to understand the challenging and often provocative trends in American art since 1945, as art is redefined not just through painting and sculpture, but also through photography, earthworks, performance, and multi-media installations. We will determine if contemporary American art is a reflection of our society and of ourselves.

### **ART 110 - Drawing I, 2 credit hours**

Creative problem solving and self-expression are the underlying themes in this survey of the basic topics in drawing, including perspective, perception, materials and techniques.

### **ART 111 - Drawing II, 2 credit hours**

**Prerequisite(s):** ART 110

An extension of ART 110 that includes an introduction to figure drawing and pastels. Students begin formulating a unique personal vision and style while familiarizing themselves with more advance pictorial strategies.

### **ART 115 - Two Dimensional Design, 2 credit hours**

An investigation of structure and order in the visual arts. Such two dimensional design concepts as figure/ground, positive/negative space, balance, composition, pattern and rhythm will be explored. Emphasis will be on learning basic design concepts through various projects, creation of artworks, visual problem solving, self-expression, and assessment through group critiques by learning to make critical aesthetic judgments.

### **ART 116 - Three Dimensional Design, 2 credit hours**

Students participate in creative problem-solving exercises that explore the concepts of three dimensional design. Students will participate in classroom critiques where emphasis will be placed on making critical aesthetic judgments.

### **ART 117 - Color Theory, 2 credit hours**

The theory and practice of color are closely examined in this course. Useful applications are made to a broad range of fields with a special focus on the visual arts.

### **ART 210 - Intro to Illustration, 2 credit hours**

This course is an introduction to illustration and various ways of creating imagery on an Ipad Pro. Using the Procreate program, students will gain experience in digital painting by exploring a range of subject matter including character development, caricature, and photorealism. Requirements: Ipad Pro, Apple Pencil and the Procreate app.

### **ART 212 - Life Drawing, 2 credit hours**

**Prerequisite(s):** ART 110

An in-depth investigation of the human form through drawing. Topics covered include gesture, anatomy, color, and foreshortening. Students will be encouraged to develop a personal philosophy and style regarding the use of the human form in art.

### **ART 213 - Introduction to Painting, 2 credit hours**

An introduction to oil painting, various techniques and styles, both traditional and contemporary, will be explored to aid the student in creative problem-solving and self expression.

**ART 214 - Intermediate Painting, 2 credit hours****Prerequisite(s):** ART 213

An extension of ART 213, students begin building a personal artistic style and philosophy through the exploration of a variety of subjects, working strategies and stylistic concerns. Readings and discussions on contemporary art and artists aid the students in this process.

**ART 216 - Introduction to Ceramics, 2 credit hours**

An introduction to the potter's wheel and the basic processes of hand forming, decorating and glazing pottery. Student projects will be evaluated based on craftsmanship, design, aesthetics and creativity.

**ART 217 - Intermediate Ceramics, 2 credit hours****Prerequisite(s):** ART 216

An intensive study of utilitarian and non-utilitarian forms created with clay. Students will participate in classroom critiques where emphasis is placed on craftsmanship, design, aesthetics and creativity.

**ART 220 - Digital Photography, 2 credit hours**

This studio course covers the fundamentals of digital photography as an art form. Areas of study include learning to use the digital camera, shutter, aperture and exposure as well as gaining experience in the digital darkroom and in the process of the digital image with Adobe Photoshop. Students will also learn color management and how to print digital images. The course emphasizes visual problem solving and creativity through class assignments. Students must provide a digital SLR camera with removable lenses. Camera must have full manual control over focusing, shutter speed, aperture and capable of at least 8 megapixels.

**ART 225 - Introduction to Photoshop, 2 credit hours**

A study of two-dimensional computer imaging and design using Adobe Photoshop for creative image making and visual problem solving. Students will learn to operate the computer, picture and film scanners, and color printers while studying the raster based program Adobe Photoshop. The course will focus on 16 million color digital painting, drawing and photography. Students must provide film and/or digital cameras for use in the course.

**ART 226 - Three-dimensional Computer Imaging- Maya, 2 credit hours**

A study of three-dimensional computer imaging and design using the program 3Ds Max for creative image making, animation and visual problem solving. This program is the industry standard for 3D computer imaging for film, video, game creation and 3D visualizations. Students will learn to create virtual 3D worlds by creating 3D objects, navigating space, lighting, camera techniques, ray trace rendering and animation. Emphasis will be on the technical, visual problem solving and self-expression through this medium. May be repeated for credit.

**ART 231I - Art History: from Caves to Cathedrals, 3 credit hours**

Survey the main trends of art and architecture from mystifying prehistoric cave paintings to majestic Gothic cathedrals. Along the way, explore Stonehenge in England, the pyramids of Ancient Egypt, the Parthenon of Ancient Greece, the Colosseum of Ancient Rome, Early Christian and Byzantine churches in Italy, Early Medieval art in Ireland, and the soaring grandeur of medieval cathedrals.

**ART 232I - Art History: from Renaissance to Modernism, 3 credit hours**

Survey the main trends of art and architecture from the dazzling Italian Renaissance to the complexities of modern art. Along the way, explore Michelangelo's Sistine Chapel, the Baroque masterpieces of Rome and the Palace of Versailles in France. You'll also study the paintings of Neoclassical and Romantic artists, the Impressionist portraits and landscapes of Renoir and Monet, the mesmerizing colors of Vincent Van Gogh, the groundbreaking Cubism of Picasso, and the strange dreamscapes of Dali.

**ART 234 - Survey of American Art from Colonial Times to 1945, 3 credit hours**

Survey the main artistic trends in American painting, sculpture, and architecture from the colonial era to 1945. Along the way, you'll explore Spanish colonial architecture, Independence Hall in Philadelphia, the classical buildings of Washington, D.C., the dizzying skyscrapers of Chicago and New York, and the unique architecture of Frank Lloyd

Wright. You'll also discover the majestic landscape paintings of Niagara Falls and the Rocky Mountains, the seascapes of Winslow Homer, the palettes of American Impressionism, and the mysterious cityscapes of Edward Hopper. The highly admired collection of American art at the Cleveland Museum of Art will be highlighted, as well the architecture of Cleveland.

**ART 235I - Topics in Non-Western Art, 3 credit hours**

Explore the fascinating art of non-Western cultures, such as China, India, Japan, or Africa.

**ART 236I - Modern Art, 1850-1950, 3 credit hours**

A study of the history of European and American art from 1900-1945. Decade by decade, we will chronicle the revolutionary stylistic movements that reformed the notion of the meaning and purpose of art. Through the painting, sculpture, architecture, photography, and cinema of this extraordinary era, we will witness the full unleashing of the human imagination.

**ART 240 - Graphic Design I, 2 credit hours**

In this studio course, the first in a sequence of graphic design courses, students will generate independent creative solutions to a series of real-world design problems that answer the question: "How do graphic designers create compelling print layouts that effectively communicate to their target audience?" Students learn to apply design fundamentals, principles, and elements to create informative and persuasive print layouts. In addition to the graphic terms and techniques learned, students will expand their knowledge in other design processes, including brainstorming, conceptualizing, critical thinking, industry-standard software (Adobe Creative Cloud), mockups, and project presentations.

*Students must provide a laptop computer to be used in class and purchase a monthly subscription to Adobe Creative Cloud Software (student discount available, approx. \$20/month), specifically Adobe Photoshop, Adobe Illustrator, and Adobe InDesign. Students pay for various printing costs throughout the semester to mockup projects. Students are responsible for a course supply fee to purchase materials used in this course. The materials will be used in subsequent studio design courses in the major and minor.*

**ART 241 - Graphic Design II, 2 credit hours**

**Notes:** This class will require a laptop computer with an Adobe CC subscription and require students to cover costs for arts supplies and printing.

**Prerequisite(s):** ART 240; and a "C" or better grade in CSC 135

In ART-241 Graphic Design II, students will learn how to apply their prior graphic design knowledge to website design. As part of the course work, students will learn the website design process from concept to code. Students learn and apply skills to construct a well-designed, responsive, trending, professional website. Other areas addressed include HTML, CSS, SEO, page optimization, navigation, email design, website images, color and font usage, browser compatibility, basic UX/UI, accessibility, and more.

*Students must provide a laptop computer to be used in class and have a subscription to Adobe Creative Cloud Software (Adobe CC), specifically Adobe Photoshop, Adobe Illustrator, and Adobe XD. Brackets, an open-source software, is also required.*

**ART 246 - Introduction to Sculpture, 2 credit hours**

Students explore creative processes aimed at uncovering the structural and plastic potential of a variety of media. Projects will be critiqued and evaluated while students learn to make critical aesthetic judgments.

**ART 248 - Introduction to Printmaking, 2 credit hours**

An introductory course covering various printmaking processes; relief (linocut, woodcut, collagraph), and intaglio (etching). Emphasis will be on learning how to make prints, visual problem-solving, personal image-making, and assessment through group critiques by learning to make critical aesthetic judgments.

**ART 261 - Typography, 2 credit hours**

**Notes:** This class will require a laptop computer with an Adobe CC subscription and require students to cover costs for arts supplies and printing.

**Prerequisite(s):** ART 240

This course is an introduction to the history, anatomy, and classifications of type. By using a combination of studio and lecture, this course evaluates typography's role in the creative and visual direction of a message. Understanding the power of typography by way of its influential & iconic typefaces and layout guidelines lead to more effective visual communication. Students use Adobe InDesign and Adobe Illustrator to complete projects and solve problems aimed at achieving these goals.

*Students must provide a laptop computer to be used in class and have access to Adobe Creative Cloud Software (Adobe CC), specifically Adobe Photoshop, Adobe Illustrator, and Adobe InDesign.*

**ART 263 - Seminar, 1-4 credit hours**

Areas of specialized interest are offered.

**ART 295 - Independent Study, 1-4 credit hours****ART 298X - Internship, Credit hours to be arranged**

The for-credit internship registration process is handled via the Career Center Handshake platform. To register your internship for credit, please contact Career Center at [career@bw.edu](mailto:career@bw.edu).

**ART 315 - Advanced Painting, 2 credit hours**

**Prerequisite(s):** ART 214

Primarily a self-directed course, students are responsible for creating a body of work that reflects individual formal and conceptual concerns. Students receive personalized guidance and feedback through discussions, directed readings and structured critiques. May be repeated for credit.

**ART 318 - Advanced Ceramics, 2 credit hours**

**Prerequisite(s):** ART 217

The exploration and development of a student's personal style in ceramics. Through classroom critiques students learn to make critical aesthetic judgments. This course may be repeated for credit.

**ART 319 - Special Topics in Ceramics, 1-2 credit hours**

**Prerequisite(s):** Consent of the Instructor

This course will focus on and explore techniques and materials not covered in ART 216, ART 217, ART 318. Areas of concentration may include Raku, Earthenware, Mold Making and Slip Casting, and Clay and Glaze Calculation. This course may be repeated for credit.

**ART 320 - Special Topics in Graphic Design, 1-2 credit hours**

**Prerequisite(s):** Consent of the Instructor

Areas of specialized interest are offered. This course may be repeated for credit.

**ART 323 - Advanced Digital Photography, 2 credit hours**

**Prerequisite(s):** ART 220

Students will learn advanced digital SLR camera controls, organizing and processing photographs using Adobe Lightroom, large scale digital printing and studio lighting. Various digital photography processes will be covered including, panorama, HDR, light painting and photo montage. Course projects allow students to use their own subject matter while advancing their creative and technical skills. Projects emphasize visual problem-solving, self-expression, and assessment through group critique and by learning to make critical aesthetic judgments. May be repeated for credit. A digital SLR camera is required.

**ART 347 - Advanced Sculpture, 2 credit hours**

**Prerequisite(s):** ART 246

An intensive study of the sculpture process in a medium of the students' choice. Through regular evaluation and critiques students will learn to make critical aesthetic judgments. May be repeated for credit.

**ART 349 - Advanced Printmaking, 2 credit hours****Prerequisite(s):** ART 248

An intensive personal exploration of any print medium of the students choice. A search for individual style is emphasized. Advanced topics will also be covered and may include: photographic techniques in etching and lithography, the big woodcut, color techniques in relief and intaglio, the collagraph, the multi-block print, paper making and the print, and artists books. May be repeated for credit.

**ART 350 - Graphic Design III, 2 credit hours****Notes:** This class will require a laptop computer with an Adobe CC subscription and require students to cover costs for arts supplies and printing.**Prerequisite(s):** ART 240, ART 241 (with a C or higher), & ART 261

This course utilizes and expands upon skills learned in previous design courses, focusing on visual branding campaigns which include, brochures, direct mail, print/digital ads, packaging design, and website development. Also, this course covers topics that include design methods and techniques, such as paper, die-cuts, binding, and folds. ART 350 includes digital print file preparation, print quotes, and a visit to a printer to introduce and familiarize students with how the professional printing process works.

*Students must provide a laptop computer to use in class and have access to Adobe Creative Cloud Software (Adobe CC), specifically Adobe Photoshop, Adobe Illustrator, Adobe InDesign, and Adobe XD. Brackets, an open-source software, is also required.*

**ART 362 - Logos & Symbols, 2 credit hours****Prerequisite(s):** ART 240. ART 261 is strongly recommended.

This course explores the importance of logos, symbols, and icons as they pertain to graphic design and branding. Students learn what makes a logo work as an instantly recognizable representation of a company, service, or product. Using industry-standard software, each student will focus on the design process and development from conception to presentation, creating effective symbols, icons, logotypes, and logos. Students will apply their designs to branding material, identity systems, and other collateral to explore the use in context.

*Students must provide a laptop computer to be used in class and have a subscription to Adobe Creative Cloud Software (Adobe CC), specifically Adobe Photoshop, Adobe Illustrator, and Adobe InDesign.*

**ART 363 - Junior Seminar- Portfolio Review & Critique, .5-1 credit hours****Prerequisite(s):** Junior Standing

Students present their portfolios for review by studio art faculty and their peers. Participation in presenting and evaluating artworks prepares students for the Senior Seminar.

**ART 395 - Independent Study, 1-4 credit hours****ART 398X - Internship, Credit hours to be arranged**

The for-credit internship registration process is handled via the Career Center Handshake platform. To register your internship for credit, please contact Career Center at [career@bw.edu](mailto:career@bw.edu).

**ART 452 - Portfolio Review, 2 credit hours****Prerequisite(s):** ART 240, ART 261, ART 362; and ART 241 with at least a C grade. ART 350 is recommended.

This course covers all aspects of the creation and presentation of a professional print and digital graphic design portfolio. Emphasizing individual strengths and areas of specialization, students edit and modify their creative works where required and add new pieces to a final portfolio that meets industry standards. Students also develop a brand and apply it to appropriate presentation materials, create resumes, references, business cards, promotional pieces, and an online portfolio website.

*Students must provide a laptop computer to use in class and have access to Adobe Creative Cloud Software (Adobe CC), specifically Adobe Photoshop, Adobe Illustrator, Adobe InDesign, and Adobe XD. Brackets, an open-source software, is also required. Additional costs can be incurred with the purchase of a portfolio book, print professional business cards, and provide hosting and a URL to complete this course.*

**ART 459X - Faculty-Student Collaboration, Credit hours to be arranged**

**ART 463X - Senior Seminar- Senior Art Exhibit, .5-1 credit hour**

**Prerequisite(s):** ART 363 and Senior Standing

This course involves student participation in the annual senior art exhibition. Students work with faculty advisors in preparing, mounting and exhibiting in the Fawick Art Gallery.

**ART 491 - Departmental Thesis/project, Credit hours to be arranged**

**ART 492 - Departmental Thesis/project, Credit hours to be arranged**

**ART 495 - Independent Study, 1-4 credit hours**

**ART 497X - Digital Media Design Internship, 3 credit hours**

**Prerequisite(s):** ART 240, ART 241, ART 261, ART 350, ART 362 and Senior Status. ART 452 is suggested.

This course integrates the skills and knowledge students acquired in the Digital Media & Design program and applies them to a professional work setting. During the course of the semester, students will complete an off-site internship with a minimum of 15-20 hours per week for a total of 135 hours. Through regular meetings, the student will reflect on their work completed during the internship and on their academic experience at Baldwin Wallace. At the end of the experience, students will write and design a reflective essay and give a presentation on their internship. The for-credit internship registration process is handled via the Career Center Handshake platform. To register your internship for credit, please contact Career Center at [career@bw.edu](mailto:career@bw.edu).

*Students must provide a laptop computer to be used in class and have a subscription to Adobe Creative Cloud Software (Adobe CC), specifically Adobe Photoshop, Adobe Illustrator, and Adobe InDesign.*

**ART 498X - Internship, Credit hours to be arranged**

The for-credit internship registration process is handled via the Career Center Handshake platform. To register your internship for credit, please contact Career Center at [career@bw.edu](mailto:career@bw.edu).

## **Arts Management**

**AMG 102 - Introduction to Arts Management, 3 credit hours**

An examination of the Arts Management field including career options, types of arts organizations, relationship of program components to program goals, and current issues in arts management. Students will also reflect upon their career goals, create preliminary plans for attaining them, and begin working on interview, resume, and professionalism skills.

**AMG 201 - Principles & Practices of Arts Management I, 3 credit hours**

**Prerequisite(s):** AMG 102

This course focuses on skills related to Mission Alignment, Program Development, Assessment, Strategic Planning, Organizational Behavior, Advocacy, and Public Policy for arts organizations and businesses.

**AMG 202 - Principles & Practices of Arts Management II, 3 credit hours**

**Prerequisite(s):** AMG 102

This course focuses on skills related to Community Engagement, Education & Outreach, Ethics, Legal Environments, Human Resources, and International Perspectives for arts organizations and businesses.

**AMG 203 - Music Industry I, 3 credit hours**

**Prerequisite(s):** AMG 102 or MUC 309

This course provides an overview of foundational skills necessary for the music industry including: principles and practices of financial concepts of the music industry, music intermediaries, merchandising, concert production and promotion, music touring, record labels, and technology in music delivery and consumption.



**AMG 204 - Music Industry II, 3 credit hours**

**Prerequisite(s):** AMG 203

This course builds on business skills necessary to the music industry including: principles and practices of business, organizational structures, business technology, corporate structures, assessment strategies, and business cycles through a music industry lens.

**AMG 295 - Independent Study, 1-4 credit hours**

**AMG 297X - On-campus Internship, 1-2 credit hours**

**Prerequisite(s):** AMG 102

The for-credit internship registration process is handled via the Career Center Handshake platform. To register your internship for credit, please contact Career Center at [career@bw.edu](mailto:career@bw.edu).

**AMG 301 - Marketing and Audience Development for the Arts, 3 credit hours**

**Prerequisite(s):** AMG 102

This course focuses on skills related to strategic planning, outreach, and resource development strategies for not-for-profit arts organizations.

**AMG 302 - Financial Management of Arts Organizations, 3 credit hours**

**Prerequisite(s):** AMG 102, ECN 120, Core Math, and either ACC 211 or ACC 213.

This advanced course covers selected topics in financial management for arts organizations such as financial analysis, forecasting, non-profit accounting, grants (corporate, individual and government) management and production/exhibition budgeting.

**AMG 303 - Fundraising for the Arts, 3 credit hours**

**Prerequisite(s):** AMG 102

This course focuses on skills related to fundraising, development and grant proposal writing as they relate to arts organizations.

**AMG 304 - Principles of Marketing for the Music Industry, 3 credit hours**

**Prerequisite(s):** AMG 203

This course presents the fundamental concepts of marketing for the music industry. This includes the concept of brand identify, customer analysis, competitor analysis, pricing strategy, technological approaches to marketing, and marketing plan implementation.

**AMG 305 - Special Topics, 1-3 credit hours**

**Prerequisite(s):** AMG 102

This course will present content on current issues relevant to the music industry and arts management, and will be taught by leading professionals in these diverse fields. Topics will vary based on instructor and area of expertise. This course is able to be repeated for credit based on the continually changing content.

**AMG 395 - Independent Study, 1-4 credit hours**

**AMG 397X - Internship, 1-3 credit hours**

**Prerequisite(s):** AMG 102

Students complete an off-campus internship while having weekly meetings with other arts management students participating in internships. The for-credit internship registration process is handled via the Career Center Handshake platform. To register your internship for credit, please contact Career Center at [career@bw.edu](mailto:career@bw.edu).

**AMG 401 - Senior Experience, 1 credit hour**

**Prerequisite(s):** AMG 102, AMG 297X.

This course focuses on typical transitional issues for University seniors as they prepare for graduate school or careers in arts management.

**AMG 495 - Independent Study, 1-4 credit hours****AMG 497X - Internship, Credit hours to be arranged**

**Prerequisite(s):** AMG 102 and a 3.0 GPA.

The for-credit internship registration process is handled via the Career Center Handshake platform. To register your internship for credit, please contact Career Center at [career@bw.edu](mailto:career@bw.edu).

## Asian Studies

**ASN 100I - Understanding Asia, 4 credit hours**

This interdisciplinary, team-taught course will provide an overview of the broad social changes in the major social institutions in contemporary China, Japan, Korea, India, and Pakistan. The course will place special emphasis on "modern" East Asia and South Asia's linkages with their "traditional" pasts. The goal of the course is to give a broad introduction to social conditions in this part of the world, and to provide a basis for further study in more advanced and specialized classes in Asian studies.

**ASN 295 - Independent Study, 1-4 credit hours****ASN 395 - Independent Study, 1-4 credit hours****ASN 495 - Independent Study, 1-4 credit hours**

## Astronomy

**AST 111 - Astronomy of the Stars, 3 credit hours**

The student is assumed to have had high school mathematics through algebra. An introductory lecture course dealing primarily with objects beyond the solar system. The course briefly discusses the historical development of astronomy, telescopes, and spectroscopy. The major topics covered are the birth and death of stars, the structure and evolution of galaxies, exotic objects such as pulsars, white dwarfs, black holes, radio galaxies, quasars and some of the current theories of cosmology. No Lab.

**AST 121 - Astronomy of the Solar System, 3 credit hours**

The student is assumed to have had high school mathematics through algebra. An introductory lecture dealing primarily with objects in the solar system. The course briefly covers the methods and historical development of astronomy. Drawing on the most recent data from space probes and the Hubble, the course's major topics include the structure of the sun, the structure and remarkable features of the planets and their moons, and solar system debris such as comets and asteroids. No Lab.

**AST 131 - Exploratory Astronomy, 4 credit hours**

The student is assumed to have had high school mathematics through algebra. An introductory lecture-laboratory course dealing with topics in solar system and stellar astronomy. Lab exercises emphasize topics such as the nature and properties of light, optics, heat, mechanics, astronomical data analysis and/or computer simulations. Lab included.

**AST 170 - Observational Astronomy Lab, 1 credit hour**

**Prerequisite/Corequisite:** AST 111 or AST 121 or equivalent

An introductory laboratory course that explores the universe and the practice of basic scientific principles through observations of the night sky, using the naked eye, binoculars and small telescopes, and the large telescope of the Burrell Memorial Observatory. Topics also include the properties of light and the principles and design of telescopes and optical instruments.

**AST 200 - Science, 1-4 credit hours**

A study of a topic in science which may involve an interdisciplinary approach. Course content is determined by the department under whose auspices the course is offered. AST 200 is not offered on a regular basis.

**AST 295 - Independent Study, 1-4 credit hours**

**AST 395 - Independent Study, 1-4 credit hours**

**AST 459X - Faculty-Student Collaboration, Credit hours to be arranged**

**AST 491 - Departmental Thesis/project, Credit hours to be arranged**

**AST 492 - Departmental Thesis/project, Credit hours to be arranged**

**AST 495 - Independent Study, 1-4 credit hours**

## **Biology**

**BIO 101 - Human Biology, 3 credit hours**

**Notes:** For non-biology majors only; does not count toward biology major or minor

A non-laboratory scientific study of fundamental biological principles as they pertain to the human condition.

**BIO 110 - Biology for the Citizen, 4 credit hours**

**Notes:** For non-biology majors only; does not count toward biology major or minor

A lecture-laboratory inquiry into selected biological topics of interest to the intelligent citizen.

**BIO 111 - Field Biology, 4 credit hours**

**Notes:** For non-biology majors only; does not count toward biology major or minor

An ecological approach to the study of life with emphasis on the outdoor world and peoples place in it. A field and laboratory course emphasizing the natural history of selected aquatic and terrestrial ecosystems.

**BIO 121 - Principles of Biology I, 4 credit hours**

A lecture-laboratory survey of cellular and molecular biological principles. Topics include the chemistry of living cells; cellular structure, function, and metabolism; and the principles of inheritance.

**BIO 122 - Principles of Biology II, 4 credit hours**

A lecture-laboratory survey of macro-level biological principles. Topics include evolution, diversity, classification, ecology, and environmental science.

**BIO 163 - Freshman Biology Seminar, .5 credit hour**

**Notes:** All biology majors must take this course during their first year of study at Baldwin Wallace.

This course serves as an introduction to the opportunities, expectations, and responsibilities that result from choosing a career in the biological sciences. The course consists of discussions, outside speakers, assessment testing, and presentations given by senior biology majors.

**Graded:** S/U

**BIO 180 - Introduction to Biotechnology, 3 credit hours**

**Notes:** For non-biology majors only; does not count toward biology major or minor An introduction to the science of biotechnology.

Topics to be covered include a survey of the fundamentals of proteins and DNA, the basic procedures employed in working with these biological molecules, and the construction of recombinant DNA and transgenic animals ("genetic engineering"). The class will also explore the societal impact of biotechnology.

**BIO 200 - Science, 2-4 credit hours**

A study of a topic in science that involves an interdisciplinary approach. The department under whose auspices the course is offered determines course content.

**BIO 203 - Human Anatomy and Physiology I, 4 credit hours**

A lecture-laboratory course covering cells, tissues and the skeletal, muscular, nervous, sensory, and respiratory systems of the human body. Prosected human cadavers, organs and skeletons will be studied in the laboratory portion of the course.

**BIO 204 - Human Anatomy and Physiology II, 4 credit hours**

**Prerequisite(s):** BIO 203

A continuation of BIO 203, covering the cardiovascular, lymphatic, respiratory, immune, digestive, urinary, and reproductive systems of the human body. Prosected human cadavers and organs, histology, and electrophysiology, will be studied in the laboratory portion of the course.

**BIO 211 - Genetics, 4 credit hours**

**Prerequisite(s):** "C-" or better in BIO 121 and BIO 122.

A lecture-laboratory study of classical, cellular and population genetics.

**BIO 212 - Microbiology, 4 credit hours**

**Prerequisite(s):** "C-" or better in BIO 121 and BIO 122.

A lecture-laboratory study of microorganisms, particularly bacteria. The relationship of these microorganisms to humans is emphasized.

**BIO 221 - General Zoology, 3 credit hours**

**Prerequisite(s):** "C-" or better in BIO 121 and BIO 122.

A lecture-laboratory survey of the most common taxa of the animal kingdom.

**BIO 222 - General Botany, 3 credit hours**

**Prerequisite(s):** "C-" or better in BIO 121 and BIO 122.

A lecture-laboratory study of the plant kingdom with emphasis on the flowering plants.

**BIO 263 - Sophomore Biology Seminar, 1 credit hour**

**Prerequisite(s):** "C-" or better in BIO 121 and BIO 122. Biology majors must take this course during their sophomore year. Transfer biology majors must take this course the next semester after they take BIO 121/BIO 122 if they are sophomores or higher when they transfer in. Otherwise, they must take this course their sophomore year.

Students in this course will learn how to use and interpret the scientific literature, and how to research, develop and deliver a talk on a current topic in Biology.

**BIO 295 - Independent Study, 1-4 credit hours**

**BIO 298X - Internship, Credit hours to be arranged**

**Notes:** Up to thirteen internship hours may count toward graduation, but only four hours may count toward the biology major.

The for-credit internship registration process is handled via the Career Center Handshake platform. To register your internship for credit, please contact Career Center at [career@bw.edu](mailto:career@bw.edu).

**BIO 301 - Cell Biology, 3 credit hours**

**Prerequisite(s):** BIO 211

This lecture course provides a detailed analysis of the eukaryotic cell and its components. Topics that will be covered include chaperones, proteasomes, the cytoskeleton, the flagellum, nuclear transport, mitochondria, protein trafficking, cell cycle, and cell signaling.

**BIO 308 - Evolution of Animal Behavior, 4 credit hours**

**Prerequisite(s):** "C-" or better in BIO 221

Animal Behavior is a broad field, encompassing topics as diverse as the neural basis of perception in insects, to issues such as whether patterns of deviant human behavior like murder and rape conform to evolutionary explanations. This course is a survey of the function, development and evolution of behavior. We will start with an analysis of the mechanics of behavior, including genetic influences, development, and physiological aspects. We will then discuss the ecological significance of behavioral patterns and the adaptations of behavior. Discussion sections will develop your critical reading and thinking skills. Each week we will discuss seminal and/or current papers on the topic covered in class that week. Laboratory exercises are designed to give a hands-on experience designing experiments, observing patterns, making hypotheses, data analysis and interpretation.

*A weekend field trip is required*

**BIO 309 - Vertebrate Natural History, 4 credit hours**

**Prerequisite(s):** BIO 221

A lecture-laboratory-field study of the evolution and ecology of vertebrate animals.

*A weekend field trip is required*

**BIO 310 - Evolution, 4 credit hours**

**Prerequisite(s):** BIO 121, BIO 122

A lecture-laboratory-field study of the fundamental principles of organic evolution.

**BIO 311 - Conservation Biology, 4 credit hours**

**Prerequisite(s):** BIO 211. A weekend field trip is required.

This class examines the major biological approaches and ecological principles upon which conservation are based and applied. Course topics include the history of the conservation movement, biodiversity, extinctions, population modeling, habitat fragmentation, invasive species, endangered species, conservation genetics, economics, government policy and regulation, restoration ecology and social science elements of conservation strategies designed to conserve diversity. There is a mandatory overnight field trip.

**BIO 313 - Ecology, 4 credit hours**

**Prerequisite(s):** ENG 131, BIO 121, BIO 122

A laboratory-field study of the concepts of ecology. Representative aquatic and terrestrial ecosystems will be studied.

**BIO 314 - Molecular Ecology, 4 credit hours**

**Prerequisite(s):** "C-" or better in BIO 211. BIO 212 is also recommended.

Molecular ecology is a young and exciting field that is taking advantage of the rapid development of new techniques in molecular genetics as well as advances in the theoretical and statistical approaches to interpreting the wealth of molecular data now available. Essentially, molecular ecology describes the dynamics of evolutionary change at the molecular level. Specifically, molecular ecology employs variation in nucleic acid and/or proteins to answer questions involving organismal behavior, kinship, populations and communities of organisms and phylogenies. The laboratory will be a hands-on introduction to the standard genetic markers computational techniques culminating in an

independent project. After an introduction to some of the techniques and methods, you will be conducting your own independent project in the field. You will be responsible for choosing a study system, collection of tissue samples, extraction of genetic material, and assays of genetic material by one or more molecular markers.

#### **BIO 322 - Plant Evolution, 4 credit hours**

**Prerequisite(s):** BIO 122, BIO 222, & Core Math; or permission of instructor

Plants have diversified into over 400,000 species that dominate all terrestrial habitats, support all other organisms, and sustain human life by supplying oxygen, foods, drugs, fuels, and fibers. This course focuses on the evolutionary patterns and processes shaping the astonishing array of adaptations across the plant kingdom. Through discussions of primary literature, field trips, and lab activities, students build their understanding of systematics research, skills in plant identification, familiarity with local flora, and appreciation of plant diversity.

#### **BIO 330 - Clinical Gross Anatomy, 4 credit hours**

**Prerequisite(s):** "C-" or better in BIO 121 and BIO 122.

This is a lecture-laboratory course in the gross structures of the human body, in which a detailed, regional approach is used. Student dissection of human cadavers, as well as the study of skeletons and organs will be performed in the laboratory.

#### **BIO 331 - Developmental Biology, 4 credit hours**

**Prerequisite(s):** ENG 131, "C-" or better in BIO 211 or consent of instructor.

A lecture-laboratory course emphasizing the processes and concepts of embryonic development at the cellular, tissue, and organismal levels. A large part of this course is concerned with the biochemical, cellular, and molecular aspects of developmental biology.

#### **BIO 332 - Histology, 3 credit hours**

**Prerequisite(s):** ENG 131, "C-" or better in BIO 121 and BIO 122, or BIO 203 and BIO 204

A lecture-laboratory study of the microscopic structure of the human body. All organ systems will be covered. Detailed consideration is given to the manner in which cells are organized into tissues and tissues are organized into organs. Slides of mammalian tissues and organs will be studied in the laboratory portion of the course.

#### **BIO 333 - Human Physiology, 4 credit hours**

**Prerequisite(s):** "C-" or better in BIO 121 and BIO 122.

A lecture-laboratory study of the fundamental processes responsible for the normal function of the cells, tissues, organs, and systems of the human body. Initial emphasis is given to physiological processes common to all cells of the body. Essential concepts of physiology at the organ and system level are then presented.

#### **BIO 334 - Invertebrate Natural History, 4 credit hours**

**Prerequisite(s):** "C-" or better in BIO 221

A laboratory-field study of the ecology, behavior and importance of invertebrate animals. Special emphasis is given to insects and marine organisms.

#### **BIO 335 - Bioinformatics and Genomics, 3 credit hours**

**Prerequisite(s):** "C-" or better in BIO 211 or consent of instructor. CSC 212 or some previous programming experience are encouraged, but not a requirement.

A lecture-laboratory course focused on exploring questions in molecular biology with computational tools. Specific topics include DNA sequencing, phylogenetic trees, epigenetics, gene expression analysis, protein structure prediction, and gene networks. Students will also be able to apply their knowledge with in-class lab exercises, scientific literature, and original research projects.

#### **BIO 336 - Molecular Biology, 4 credit hours**

**Prerequisite(s):** "C-" or better in BIO 211 is required and BIO 212 is recommended

A lecture-laboratory study of some of the major techniques and applications in molecular biology.

**BIO 337 - Plant Physiology, 4 credit hours**

**Prerequisite(s):** ENG 131, BIO 222 or consent of instructor

A lecture-laboratory study of the mechanisms employed by plants to solve the problems of life on land. Discussion of classic and current papers from the literature is included. Major topics covered are stress physiology, growth and development, and photosynthesis. The cellular and molecular basis for plant function is explored. The implications of plants' physiological adaptations in ecology and agriculture are emphasized.

**BIO 340 - Medical Case Studies, 3 credit hours**

**Prerequisite(s):** BIO 121, BIO 122, and at least Junior Status

This is a case-based learning course, designed to promote problem solving and diagnostic skills through group discussions and the investigation of medical literature, resulting in the development of differential medical diagnoses. It provides a cumulative study for students preparing for medically-related professions.

**BIO 341 - Immunology, 4 credit hours**

**Prerequisite(s):** "C-" or better in BIO 121 and BIO 122 are required. BIO 211 and BIO 212 are recommended.

A lecture-laboratory study of innate and acquired immune responses.

**BIO 351 - Head & Neck Anatomy and Facial Reconstruction, 4 credit hours**

**Prerequisite(s):** At least Junior status

This is a detailed study of the structure of the head & neck and the forensic reconstruction using human skulls. Detailed concepts of soft and hard tissue structure, facial esthetics, as well as basic facial development and aging are taught. The course consists of both lecture and laboratory portions. The lecture portion deals mostly with general principles and concepts. In the laboratory, the student participates in practical examination of cadaver specimens, the clinical examination of the head and neck, and the facial reconstruction using sculpting clay applied to skulls. Artistic experience is not required.

**BIO 363 - Biology Seminar, 0 credit hours**

This course consists of attending the senior biology seminar (BIO 463) and evaluating the presentations.

**Graded:** S/U

**BIO 365 - Ecology Field Studies, 2 credit hours**

**Prerequisite(s):** Consent of the instructor

A field and classroom study of a particular ecosystem. A major component of the course will be an extensive field trip that will take place during or after the semester in which the course is offered.

**Graded:** S/U

**BIO 395 - Independent Study, 1-4 credit hours****BIO 398X - Internship, Credit hours to be arranged**

**Notes:** Up to thirteen internship hours may count toward graduation, but only four hours may count toward the biology major.

The for-credit internship registration process is handled via the Career Center Handshake platform. To register your internship for credit, please contact Career Center at [career@bw.edu](mailto:career@bw.edu).

**BIO 405 - Advanced Topics In Biology, 1-4 credit hours**

**Prerequisite(s):** A C- or better in BIO 121 & BIO 122.

A single topic will be addressed each time the course is offered, but topics chosen may differ.

**BIO 422 - Field Botany, 1 credit hour**

**Prerequisite(s):** BIO 222

Field Botany is a field based course that meets once a week for an off campus trip. In this course students will develop familiarity with flowering herbaceous species and with tree species of NE Ohio. They will gain skill in using

field guides to identify unknown species, will learn characteristics of common plant families, and will learn some of the natural history of our local flora.

**BIO 459X - Faculty-Student Collaboration, Credit hours to be arranged**

**BIO 463 - Senior Biology Seminar, 1 credit hour**

**Prerequisite(s):** BIO 263 with a grade of C- or better

Students enrolled in this course will give an oral presentation to the faculty and students of the Department on a previously approved biological topic that they have researched. They will write a research paper on the same topic.

**BIO 491 - Departmental Thesis/project, Credit hours to be arranged**

**BIO 495 - Independent Study, 1-4 credit hours**

**BIO 498X - Internship, Credit hours to be arranged**

**Notes:** Up to thirteen internship hours may count toward graduation, but only four hours may count toward the biology major.

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## **Business**

**BUS 108 - Introduction to Business, 3 credit hours**

This course provides an introduction to the role of business in modern society, its responsibilities and obligations, existing forms and functions, and projected changes and their effect on society. Not open to students who have taken MGT 205.

**BUS 263 - Seminar, 1-3 credit hours**

Sophomore-level seminars are open to all students who have completed listed prerequisites. Seminars study a specified current business topic and may be taken more than once for credit provided the topic or subject area is different.

**BUS 295 - Independent Study, 1-4 credit hours**

**BUS 298X - Internship, Credit hours to be arranged**

The for-credit internship registration process is handled via the Career Center Handshake platform. To register your internship for credit, please contact Career Center at [career@bw.edu](mailto:career@bw.edu).

**BUS 310I - International Business, 3 credit hours**

**Prerequisite(s):** Sophomore status or BUS 108.

This course is designed to give students an opportunity to become familiar with the particularities of conducting business in an international environment, by giving them the theoretical and practical foundations necessary to study this discipline in greater detail.

**BUS 326 - Legal Environment of Organizations, 3 credit hours**

**Prerequisite(s):** Completion of 30 credit hours

Substantive private law, business associations, labor-management agreements, government regulations, and international law as they affect American business policies, practices and ethics are covered in this course.



**BUS 351I - Global Strategies, 3 credit hours****Prerequisite(s):** BUS 310I

This course challenges the student to understand management of a multinational organization operating in a variety of national and cultural contexts. Strategic and tactical concepts will provide a framework for examining how organizations deal with the complex global environment.

**BUS 352I - International Logistics, 3 credit hours****Prerequisite(s):** BUS 310I

This course provides students with an in-depth coverage of issues dealing with the international transportation of goods and the exchange of international trade documents: transportation choices, international insurance, import processes, and international payment alternatives.

**BUS 358 - Business Communications, 3 credit hours****Prerequisite(s):** ENG 131 and Sophomore Status

This writing intensive course is designed to provide a practical application of business communication skills. Students will learn how to effectively communicate with various audiences. Competency will be developed in oral and written communication. Development of these skills is integrated with the use of technology.

**BUS 360I - Political & Social Responsibility of Multinational Corporation, 3 credit hours****Prerequisite(s):** BUS 310I

This course examines the role of power and ethics in the conduct of international business. Actual cases are studied that demonstrate some of the dilemmas faced by the multinational corporation and the growing concern with integrating the ethical and social concerns with business actions in a way that is beneficial to both business and society.

**BUS 363(H) - Seminar, 1-3 credit hours**

Junior-level seminars are open to juniors and seniors who have completed listed pre-requisites. Seminars study advanced contemporary business topics and may be taken more than once, provided that the subjects are different.

**BUS 364 - Making Hard Decisions- Under Uncertainty and Risk, 3 credit hours****Prerequisite(s):** MTH 105 & MTH 106; or MTH 279; or FNC 280

The course offers an overview of decision analysis under risk and uncertainty. It provides an understanding of modern decision analysis and risk management techniques at a level that can be easily understood by those without a strong math background. It will help a person think hard about the problem on hand especially if the outcome is influenced by future doubts. Decision analysis provides an overall paradigm and a set of tools to incorporate uncertainty in the decision-making process. Students will appreciate that the tools and techniques covered in the course can be used to represent real world problems and thus gain insight and understanding of the decision-making process in uncertain situations. This will help one manage risk; the end result will be a smart decision.

**BUS 365 - Business Analytics, 3 credit hours****Prerequisite(s):** MTH 120/121 or higher; CSC 141 or ACC 245; and either MTH 105 or MTH 108 or MTH 235 or PSY 278 or MTH 279 or FNC 280

This course provides an introduction to the field of business analytics, which is defined as the use of data, statistical and quantitative analysis, exploratory and predictive models, and prescriptive analysis to drive corporate decisions and actions. The course starts off with a discussion of models to summarize, visualize and understand data. We use that selected data to build a sample of models to make decisions. The course takes additional steps to build smart models designed to make optimal decisions. The course uses Microsoft Excel Add-ins to expose students to the concepts and use of Data Mining (scuffle thru large amount of data to pull out useful information), and Optimization Models.

**BUS 395 - Independent Study, 1-4 credit hours**

**BUS 398X - Internship, Credit hours to be arranged**

The for-credit internship registration process is handled via the Career Center Handshake platform. To register your internship for credit, please contact Career Center at [career@bw.edu](mailto:career@bw.edu).

**BUS 451 - Management Strategy & Policy, 4 credit hours**

**Prerequisite(s):** Preq: Senior Standing; MTH 120/121 or higher; ACC 213 or ACC 211 & ACC 212; BUS 358; ECN 120 or ECN 121 & ECN 122; FNC 342 or MGT 377; MGT 205; and MKT 230.

This is the capstone course of the business major. Students learn to research and formulate top level strategic goals which enable the firm to adapt and grow with its changing environment. Students also learn how to implement strategic goals by integrating the functions learned in lower level courses. Real world case examples are used to apply the learnings.

**BUS 459X - Faculty-Student Collaboration, Credit hours to be arranged****BUS 463 - Seminar, 1-4 credit hours**

Upper level seminars are open to juniors and seniors who have completed listed prerequisites. Seminars study advanced current business topics and may be taken more than once for credit provided the topic or subject area is different.

**BUS 495 - Independent Study, 1-4 credit hours****BUS 497X - Internship, Credit hours to be arranged**

This course number exists to transcribe an approved professional work experience in the student's major. An individualized program initiated by the student in conjunction with an employer, a faculty coordinator of the student's choice, and the University Career Center office, the paid or unpaid internship will be designed as an immersive, practical experience in the field. Note: Forty-five hours of work time must be completed for every hour of academic credit earned. Students are required to complete at least one credit hour but no more than 12. The for-credit internship registration process is handled via the Career Center Handshake platform. To register your internship for credit, please contact Career Center at [career@bw.edu](mailto:career@bw.edu).

**BUS 498X - Internship, Credit hours to be arranged**

The for-credit internship registration process is handled via the Career Center Handshake platform. To register your internship for credit, please contact Career Center at [career@bw.edu](mailto:career@bw.edu).

**BUS 500E - Excel Certification, .5 credit hour**

This course is a self-study and provides students with critical Excel skills needed to navigate MBA core and specialization courses. Students will complete 7 modules with an overall grade of 85%. It will be graded S/U, for satisfactory or unsatisfactory.

**BUS 500Q - Quantitative Analysis, 3 credit hours**

This is a course for individuals who have limited skills in Excel, algebraic techniques or statistical analysis. Students are exposed to statistical models and applications for quantitative methods in modern management.

**BUS 526 - Operations Analysis Models, 3 credit hours**

This course will utilize Excel to analyze models often seen in operational environments. Students will learn how to break down, analyze, display and make recommendations based on large data sets. Students will also explore forecasting techniques. Other operational models and other topics may also be utilized including: PERT/CPM, Quality, Six Sigma, Lean, Inventory, Learning Curves, Queueing.

**BUS 563 - Seminar, 3 credit hours**

This course will be offered as needed to cover topics of interest, e.g., Financial Statement Analysis, Fraud Examination, etc. It is also available to any student wanting to study an accounting or finance elective topic at a more

advanced level or for studying an accounting or finance topic that is not currently offered in the curriculum. It may be taken more than once for credit provided the subject matter is different.

**BUS 591T - Global Business Trip, 2 credit hours**

This course provides an introduction to the dynamic and complex issues involved with doing business in a foreign country. Students will explore the complex processes causing rapid change and the pressing problems businesses face. Issues to be addressed will include economic growth and development, environmental pollution, the role of the government, and depend on the country visited.

**BUS 622 - Development Tools in Business Analytics, 3 credit hours**

This course exposes students to an integrated set of business analytics development and reporting tools. Students are introduced to the basics of programming with such languages as R and Python to develop a working knowledge of how to use these programming languages for data acquisition and management. Students will then apply these analytical development tools using various statistical decision science methodologies for the analysis and modeling of business data.

**BUS 623 - Data Visualization, 3 credit hours**

Business intelligence is increasingly becoming more important, and the ability to analyze and present data requires reporting tools that can access data and create the information needed for decision-making. This course will present the case for visual analysis and introduce students to software languages that not only provide data for operational analysis, but also to help students understand the causes behind the data and provide new insights and business recommendations.

**BUS 626 - Applied Analytics, 3 credit hours**

This course explores the computer models necessary to deal with the complex relationships making up an integrated system. Linear regression, forecasting/time series, linear programming, simulation, and probabilistic decision models are studied. The emphasis is on the description of common management problems in terms of these models, the solution of such models, and the analysis of the results for making decisions from a systems perspective.

**BUS 627 - Predictive Analytics, 3 credit hours**

This course expands the computer models necessary to deal with the complex relationships making up an integrated system. Logistic and non-linear regression, data visualization, K nearest neighbors and the use of specialized software are studied. The emphasis is to perform analyses used in modern decision making.

**BUS 628 - Applied Marketing Analytics, 3 credit hours**

This course encompasses the collection and analysis of information from the web, including web-based surveys, web analytics, online communities, blog scraping, and web spiders to support marketing strategy and performance. Three areas will be examined: *Data visualization* of complex data and models for discerning patterns using graphical representations; *Network analysis* of social media and mobile data for actionable strategic insights, and *Website Analytics* data mining for measurement of offline marketing, channel performance, and return on marketing investment.

**BUS 629 - Applied Prescriptive Analytics, 3 credit hours**

**Prerequisite(s):** BUS 626

This course will let a student understand the nature of prescriptive analytics used by organizations to make optimal decisions. The course will be applied in nature focusing on how a problem is solved using computer rather than the theoretical mathematical underpinnings of the application methods. As such, higher mathematical knowledge is not required. Basic algebra and statistics knowledge is assumed; knowledge of calculus is not required.

**BUS 652 - International Strategic Logistics, 3 credit hours**

This course is designed to give the students a working knowledge of the logistical challenges associated with international trade. While a good portion of the course content will be quite pragmatic, the course will attempt to build a strategic framework for the logistical function in a multi-national company.

**BUS 749 - Operations Management, 3 credit hours**

This course develops a systems approach to the analysis of senior managerial operating problems. Computer, quantitative, and behavioral models are used to formulate operating decisions consistent with an organization's competitive strategy.

## Business Information Systems

**BIS 340 - Visualizing Data for Business Analysis, 3 credit hours**

**Prerequisite(s):** MTH 105 or MTH 108 or MTH 235 or PSY 278 or MTH 279 or FNC 280 or CSC 280 or CSC 141 or CSC 380 or ACC 245; junior standing; and MTH 120/121 or higher.

This course examines the analysis of information or data to support business strategy decisions by focusing on techniques for creating effective visualizations for business analysis. The course builds on both the theoretical and hands-on components using current visualization software and is targeted towards business students interested in building visualizations of business data to improve business performance. Knowledge of computer programming is not required.

**BIS 475 - Cyber Security Governance, 3 credit hours**

**Prerequisite(s):** CSC 160, ACC 211, junior standing, and MTH 120/121 or higher.

An introduction to the various technical and administrative aspects of Information/Cyber Security and Assurance. This course provides the foundation for understanding the key issues associated with protecting information assets, determining the levels of protection and response to security incidents, and designing a consistent, reasonable information security system, with appropriate intrusion detection and reporting features.

## Chinese

**CHI 101 - Elementary Chinese I, 4 credit hours**

Introduction to Chinese language and culture for students with no or little previous experience. Students learn about 100 characters to help them understand basic texts such as songs and poems. Use of videos and internet help the learners gain a better understanding of Chinese culture.

**CHI 102 - Elementary Chinese II, 4 credit hours**

**Prerequisite(s):** CHI 101 or equivalent

This second course continues the introduction of simple Chinese characters. Students learn 100 more characters to help develop their reading and writing skills. Teaching of culture is an integral part of the course.

**CHI 201 - Intermediate Chinese I, 4 credit hours**

**Prerequisite(s):** CHI 102 or equivalent

This third course continues building on the students' previous Chinese knowledge by introducing new vocabulary, characters, grammar and usage. Students who complete this course should be able to initiate discussion on topics of daily life, understand more complicated sentences and write short compositions. Mandarin pronunciation is taught.

**CHI 202 - Intermediate Chinese II, 4 credit hours**

**Prerequisite(s):** CHI 201 or equivalent.

This course begins the second volume of the textbook introducing additional characters with more complicated dialogue and sentence patterns with continued practice of Mandarin pronunciation. Students will read and discuss supplemental materials including Chinese proverbs and folk stories.

**CHI 295 - Independent Study, 1-4 credit hours****CHI 395 - Independent Study, 1-4 credit hours**

## **CHI 495 - Independent Study, 1-4 credit hours**

# **Chemistry**

### **CHM 111 - General Chemistry I, 4 credit hours**

**Prerequisite(s):** Three years high school mathematics or equivalent. High school chemistry is highly recommended. CHM 111 is a prerequisite for CHM 112

An introduction to chemical principles including the electronic structure of atoms and molecules, chemical reactions, reaction and solution stoichiometry, thermochemistry, and gas laws.

### **CHM 112 - General Chemistry II, 3 credit hours**

**Prerequisite(s):** CHM 111

**Corequisite(s):** Concurrent registration in CHM 115 required.

Continuation of CHM 111. Topics include chemical kinetics, equilibrium, acid-base chemistry, chemical thermodynamics, and electrochemistry.

### **CHM 115 - General Chemistry Lab, 1 credit hour**

**Prerequisite(s):** CHM 111

**Corequisite(s):** CHM 112

A one-semester laboratory companion course to General Chemistry. Experiments focus on techniques of chemical measurements and strategies for solving chemical problems in the laboratory.

### **CHM 120 - U.S. Chemical Industry, 3 credit hours**

This course, designed for non-chemistry majors with little to no science background, explores the U.S. Chemical Industry, including many products manufactured in various segments of the industry as well as environmental and human health effects of chemical use.

### **CHM 150 - Introductory Chemistry, 3 credit hours**

**Prerequisite(s):** High school mathematics through algebra

This course is a basic introduction to the general principles of inorganic, organic, and biochemistry. The lecture and integrated laboratory component additionally focuses on the scientific method, scientific literacy, and chemistry in everyday life. This course is a basic introduction to the theoretical, qualitative, and quantitative aspects of chemistry, making it appropriate for non-science majors and specific programs including middle childhood education. The course cannot substitute for the General Chemistry courses CHM 111, CHM 112, and CHM 115.

*A lab component is included in this course.*

### **CHM 151 - Chemistry for Nursing I, 3 credit hours**

**Corequisite(s):** CHM 155

Introduction to the principles of chemistry and the fundamentals of inorganic, organic, and biochemistry for nursing students. In this course, atomic structure is introduced and related bonding, reactions, solutions, acid/base chemistry and radioactivity. Basic organic chemistry, organic structures, nomenclature and reactions are also introduced.

### **CHM 152 - Chemistry for Nursing II, 3 credit hours**

**Prerequisite(s):** CHM 151/155

**Corequisite(s):** CHM 156

Continuation of the introduction to principles of chemistry and the fundamentals of inorganic, organic, and biochemistry. This course continues the discussion of basic organic chemistry reactions and how they relate to the structure and chemistry of carbohydrates, lipids, proteins, and nucleic acids. The biochemistry of enzymes metabolism and radiation is also discussed.

**CHM 155 - Chemistry for Nursing Lab I, 1 credit hour****Corequisite(s):** CHM 151

Laboratory course applying principles of chemistry and the fundamentals of inorganic, organic, and biochemistry.

**CHM 156 - Chemistry for Nursing Lab II, 1 credit hour****Prerequisite(s):** CHM 151/155**Corequisite(s):** CHM 152

Continuation of a laboratory course applying principles of chemistry and the fundamentals of inorganic, organic, and biochemistry.

**CHM 221 - Quantitative Analysis, 3 credit hours****Prerequisite(s):** CHM 112, CHM 115**Corequisite(s):** Concurrent registration in CHM 225 required.

Introduction to chemical methods of quantitative analysis, including classical and volumetric, a discussion of error and uncertainty in measurements, and elementary statistics. Discussion also covers the underlying physical and chemical theories and laws with emphasis on chemical equilibrium.

**CHM 225 - Quantitative Analysis Laboratory, 1 credit hour****Corequisite(s):** Concurrent registration in CHM 221 required.

Introduction to classical techniques for analytical chemistry including titrations and use of volumetric glassware.

*Lab: One three-hour lab per week.***CHM 251 - Organic Chemistry I, 3 credit hours****Prerequisite(s):** CHM 112 and CHM 115 or permission of the instructor.**Corequisite(s):** Concurrent registration in CHM 255 required.

Introduction to structure and bonding of organic molecules. Organic reactions and reaction mechanisms, including acid-base, nucleophilic substitution, elimination, and electrophilic addition, will be studied with a focus on alkanes, alkenes, alkynes, alkyl halides, and alcohols.

**CHM 252 - Organic Chemistry II, 3 credit hours****Prerequisite(s):** CHM 251, CHM 255**Corequisite(s):** Concurrent registration in CHM 256 required.

Continuation of CHM 251. Organic reactions, reaction mechanisms, and organic syntheses, including electrophilic aromatic substitution, nucleophilic addition, and nucleophilic acyl substitution will be studied with a focus on aromatic compounds, ketones, aldehydes, amines, carboxylic acids and their derivatives.

**CHM 255 - Organic Chemistry I Laboratory, .5 credit hour****Corequisite(s):** Concurrent registration in CHM 251 required.

Introduction to the fundamental laboratory techniques used in the laboratory for the synthesis and analysis of organic compounds.

*Lab: One three-hour minimester lab per week.***CHM 256 - Organic Chemistry II Laboratory, 1 credit hour****Corequisite(s):** Concurrent registration in CHM 252 required.

Continuation of CHM 255.

*Lab: One three-hour lab per week.***CHM 281 - Environmental Chemistry, 3 credit hours****Prerequisite(s):** CHM 112 & CHM 115**Corequisite(s):** Concurrent registration in CHM 285 required.

The focus of the class is the chemical basis of the environment. The principles of stoichiometry, solution chemistry, and atmospheric chemistry will be examined as they apply to environmental systems.

**CHM 285 - Environmental Chemistry Laboratory, 1 credit hour**

**Prerequisite(s):** CHM 112 and CHM 115.

**Corequisite(s):** Concurrent registration in CHM 281 required.

This course uses laboratory methods to examine environmental samples.

*Lab: One three-hour lab per week*

**CHM 295 - Independent Study, 1-4 credit hours****CHM 311 - Biochemistry, 3 credit hours**

**Prerequisite(s):** Grade of C- or better in CHM 251 and CHM 252. BIO 121 is highly recommended.

**Corequisite(s):** Concurrent registration in CHM 315 required.

An introduction to the chemistry of biological systems including proteins, enzymes, nucleic acids, lipids and carbohydrates. An overview of metabolic processes will be presented. Successful completion of BIO 121 or the equivalent is highly recommended.

**CHM 315 - Biochemistry Laboratory, 1 credit hour**

**Corequisite(s):** Concurrent registration in CHM 311 required.

An introduction to the experimental design of analytical protein purification protocols and assaying proteins.

*Lab: One three-hour lab per week*

**CHM 321 - Instrumental Analysis, 3 credit hours**

**Prerequisite(s):** Grade of C- or better in CHM 221.

**Corequisite(s):** Concurrent registration in CHM 325 required.

The theory and principles of instrumental methods of analysis, with emphasis placed on spectroscopic (UV/VIS, IR, AA), mass spectrometric, and chromatographic methods of analysis.

**CHM 325 - Instrumental Analysis Laboratory, 1 credit hour**

**Prerequisite(s):** ENG 131

**Corequisite(s):** Concurrent registration in CHM 321 required.

This course offers practical experience with instrumental methods of analysis.

*Lab: One three-hours lab per week*

**CHM 331 - Physical Chemistry, 3 credit hours**

**Prerequisite(s):** MTH 142 & Grade of C- or better in CHM 221.

Systematic study of thermodynamics and statistical mechanics applied to chemical systems.

**CHM 332 - Physical Chemistry II, 3 credit hours**

**Prerequisite(s):** MTH 142 & Grade of C- or better in CHM 221.

Systematic study of quantum mechanics and spectroscopy applied to chemical systems.

**CHM 335 - Physical Chemistry Lab, 1 credit hour**

**Prerequisite(s):** MTH 142 & CHM 221/225. Minimum grade C- in CHM 221.

This laboratory course introduces the chemistry major to advanced physical measurement, modeling and experimental design, incorporating elements of chemical kinetics, spectroscopy, thermodynamics and computational chemistry. In addition, students are expected to employ scientific inquiry in designing an investigation, make use of primary scientific literature and communicate their work by oral presentation, poster presentation or journal-style article using accepted professional standards.

**CHM 341 - Inorganic Chemistry, 3 credit hours**

**Prerequisite(s):** Grade of C- or better in CHM 251 and CHM 252.

Chemistry of inorganic compounds with a focus on transition-metal complexes. Topics include structure, bonding, molecular orbital theory, group theory and spectroscopic properties.

**CHM 343 - Organometallic Chemistry, 3 credit hours****Prerequisite(s):** C- or better in CHM 251 and CHM 252.

The fundamentals of organometallic structures and bonding, organometallic reactions, and their application to catalysis and organic synthesis will be studied. The course counts toward the 300-level credit requirement for the chemistry major. Lecture/problem solving delivery.

**CHM 345 - Inorganic Chemistry Laboratory, 1 credit hour****Prerequisite(s):** CHM 341

Laboratory experiments will focus on synthesis of inorganic and organometallic complexes emphasizing inert-atmosphere techniques. Lab: One three-hour lab per week.

**CHM 351 - Organic Spectroscopy, 2 credit hours****Prerequisite(s):** Grade of C- or better in CHM 251 and CHM 252.

A lecture/laboratory course covering spectroscopic techniques used in identifying organic molecules including UV/VIS, IR, NMR spectroscopy and mass spectrometry.

**CHM 352 - Polymer Chemistry, 3 credit hours****Prerequisite(s):** Grade of C- or better in CHM 251 and CHM 252.

An introduction to polymer chemistry covering step, ionic and chain polymerization mechanisms and kinetics. Properties of polymers, such as molecular weight determination, glass transition temperature ( $T_g$ ), melt temperature ( $T_m$ ) and crystalline and amorphous polymers will be discussed.

**CHM 364 - Junior Chemistry Seminar, .5 credit hour****Notes:** Must be taken three semesters prior to graduation

This course is the start of the capstone course sequence in the chemistry major. Students develop the skills necessary to search and cite the chemical literature. The topic of professional ethics within the realm of chemical research will be discussed. Attendance at presentations given by outside speakers and senior Chemistry majors is expected.

**Graded:** S/U**CHM 395 - Independent Study, 1-4 credit hours****CHM 403 - Laboratory Projects, .5 or 1 credit hour****Prerequisite(s):** Permission of the instructor

An introduction to research techniques through independent projects in analytical, inorganic, organic, physical chemistry or biochemistry. All projects are under the guidance of one of the professors in each field.

**CHM 411 - Topics in Biochemistry, .5-2 credit hours****Prerequisite(s):** CHM 311

Advanced topics in biochemistry chosen by the instructor. Recent topics have been derived from peer reviewed biochemical publications with a focus on metabolic pathways and diseases resulting from metabolic dysfunction.

**CHM 421 - Topics in Analytical Chemistry, .5-2 credit hours****Prerequisite(s):** CHM 321 and CHM 325.

Advanced topics in analytical chemistry.

**CHM 431 - Topics in Physical Chemistry, .5-2 credit hours****Prerequisite(s):** CHM 331**Corequisite(s):** CHM 332

Advanced topics in physical chemistry. Possible topics include: statistical thermodynamics, photophysics, surface chemistry, computational chemistry, etc.



**CHM 441 - Topics in Inorganic Chemistry, .5-2 credit hours****Prerequisite(s):** CHM 341

Advanced topics in inorganic chemistry chosen by the instructor. Recent topics include: organometallic complexes, organometallic reactions, and catalytic mechanisms.

**CHM 451 - Topics in Organic Chemistry, .5-2 credit hours****Prerequisite(s):** CHM 252

Advanced topics in organic chemistry chosen by the instructor. Recent topics include the synthesis, characterization and properties of polymers and strategies in asymmetric synthesis.

**CHM 464 - Senior Chemistry Seminar I, 1 credit hour****Prerequisite(s):** CHM 364

This course continues the capstone experience in the chemistry major. Students develop the skills necessary to develop and deliver effective scientific presentations based in the primary scientific literature.

**CHM 465 - Senior Chemistry Seminar II, .5 credit hour****Prerequisite(s):** CHM 464

This course is the final course in the capstone sequence in the chemistry major. Students will develop and deliver an effective scientific presentation based in the primary chemical literature and often drawing upon their own original laboratory research. Students will also take a comprehensive chemistry exam.

**CHM 491 - Departmental Thesis/project, Credit hours to be arranged****Prerequisite(s):** Permission of the instructor**CHM 492 - Departmental Thesis/project, Credit hours to be arranged****Prerequisite(s):** Permission of the instructor**CHM 495 - Independent Study, 1-4 credit hours**

## College

**COL 110 - BW FiRST, 1 credit hour**

**Prerequisite(s):** Freshmen who report a score below 20 on the ACT Reading Subtest, below 26 on the SAT Reading Subtest, or below 471 on the SAT Evidence-Based Reading and Writing Subtest are selected and pre-registered for BW FiRST and the paired course. Students who qualify will take the course in the fall and spring semester of their first year.

**Corequisite(s):** Each section of BW FiRST is taught in conjunction with a specific section of a 100-level core course. The two courses must be taken concurrently.

The goal of BW FiRST (Freshmen in Reading Support Teams) is to teach students to use research-based strategies to successfully read and learn from the complex texts required in the paired core course.

**COL 123 - Study Strategies, 1 credit hour**

The Study Strategies course is a one-credit hour full semester course for freshmen and sophomores who would like to learn strategies to become active, confident, independent and successful university learners. This course emphasizes strategies such as critical thinking, priority management, information literacy, motivation and goal setting, learning styles, active listening and recall strategies, college reading, note review, test preparation and test performance.

**Graded:** *This class is graded S/U.*

**COL 228 - Leadership Education and Development, 1 credit hour**

This course centers on the theoretical foundations of student development and personal growth, and serves as a preparatory course for leadership. It helps student leaders in their personal growth and aids them in becoming

positive influences in the Baldwin Wallace community. The course focuses on understanding the role of higher education, developing interpersonal and group skills, and integrating developmental and human relations theories with practical situations. It is a prerequisite for Resident Assistant positions.

**Graded:** S/U

**COL 295 - Independent Study, 1-4 credit hours**

**COL 300IE - International Immersion, 1 credit hour**

**COL 395 - Independent Study, 1-4 credit hours**

**COL 495 - Independent Study, 1-4 credit hours**

## **Communications**

**CAS 107 - Film and Culture, 3 credit hours**

An analysis of the motion picture as an art form and a medium of cultural communication. A variety of examples showing significant artistic and contextual development will be viewed and discussed in order to establish criteria for evaluating and setting of standards for film and other narrative media.

**CAS 108 - International Cinema and Aesthetics, 3 credit hours**

An analysis of the motion picture as an art form and a medium of cultural communication. A variety of international examples showing specific cultural trends are examined.

**CAS 112 - Presentational Speaking, 3 credit hours**

A practical general course introducing the elements of presentational speaking. Emphasis on ethics in presentational speaking, controlling nervousness, the importance of listening, audience analysis, speech purposes, selecting and researching topics, speech organization, language for oral style, delivery techniques including nonverbal communication skills, and use of basic support visuals. Student assignments will move from simple to relatively complex presentations.

**CAS 115 - Media Literacy, 3 credit hours**

This course is designed to examine, interpret, and deconstruct mass media content and processes with emphasis on a political economy and medium theory perspectives. Students will develop an informed and critical understanding of mass media's impact in shaping our views of politics, culture, and society through a theoretical and practical exploration of various effects. The course will also emphasize the role of the press in a democracy and the formation of a critical foundation to consider current cultural and systemic changes and challenges to media industries in order to be more informed consumers and producers of mediated content.

**CAS 120 - Strategies in Public Relations, 3 credit hours**

This course shall focus on public relations from a value driven perspective. Students will learn the fundamentals of public relations. A focus will be given to how public relation strategies can be employed to support philanthropies and other forms of community involvement. The difference between ethical and unethical public relations is detailed.

**CAS 125 - Event Planning, 3 credit hours**

All elements of event planning are covered in this course, such as the strategic plan, communication channels, coordination of participants, media coverage, and assessment of the event. Through experiential exercises students will plan and implement an event as part of the course.

**CAS 126 - Introduction to Communication, 3 credit hours**

**Notes:** Required of all communication majors.

This course serves as an introduction to the fields of study within the broad discipline of communication. An emphasis is on the various theories that add insight to communication, media studies, and organizational communication.

**CAS 161 - Radio Production and Announcing, 3 credit hours**

This experiential course will introduce students to the primary aspects of radio production; air studio management, formatting music, and preparing and reading news. After the successful completion of the course students may apply for a shift at WBWC and can receive their FCC Radio Operators License for an additional fee.

**CAS 172 - Foundations of Media Production, 3 credit hours**

Fundamentals of Media Production introduces students to the full range of production skills and forms, building both the technical and conceptual competencies needed to continue at more advanced levels. Students will explore the numerous aspects of production: field and studio production, aesthetics and mechanics of recording digital video, the introductory role of sound and how to record and mix it, lighting, and editing.

**CAS 202 - Relationships and Communication, 3 credit hours**

An introduction to one-on-one communication which emphasizes the initiating, maintenance, and dissolution of relationships. The concepts of people perception beginning with the "self" are studied in terms of verbal and nonverbal cues, gender, and multicultural variables. Listening, conflict management, and self-presentation are included.

**CAS 212 - Persuasive Speaking, 3 credit hours**

**Prerequisite(s):** CAS 112

This course prepares students to be ethical speakers by exploring the concepts of persuasion and propaganda. Students will learn persuasion theories and examine research findings related to the persuasion process, public opinion, and compliance gaining. Students will apply this knowledge to prepare, practice, and deliver persuasive presentations.

**CAS 215 - Introduction to Communication Research, 3 credit hours**

**Prerequisite(s):** CAS 126

This course is designed to introduce students to different types of inquiry within the discipline of communication. The course will examine methods of inquiry and research that reach across the four different tracks in the Communication major (Communication Studies, Public Relations, Film, and Media Production). The course will focus on developing critical thinking skills, and students will learn to write an academic literature review.

**CAS 222 - Film History, 3 credit hours**

**Prerequisite(s):** CAS 107 or CAS 108 or instructor approval.

A study of the history of cinema from its beginnings to the present day. Topics will include the business, politics, and development of film as an art form. Representative films will be shown in class.

**CAS 226 - Writing for Multimedia, 3 credit hours**

**Prerequisite(s):** CAS 126 and ENG 131, or instructor's approval.

A study of the principles of writing for broadcasting and other electronic media. Focus is placed upon creating scripts with visual and aural appeal, conveying messages in clear, economical, conversational style to effectively communicate to mass audiences.

**CAS 230 - Public Relations Cases, 3 credit hours**

This course is an introduction to public relations cases and current topics. This course focuses on award-winning PR case studies and allows students to analyze and discuss the research aspects, objective development, programming steps, and evaluation components of these successful cases. Additionally, students will be exposed to relevant topics in public relations through an examination of books focusing on current issues. Students will learn public relations

process steps and gain a better understanding of professional issues to develop foundational skills needed for careers.

**CAS 232 - Workshop in Journalism, 3 credit hours**

**Prerequisite(s):** Students must have completed the college writing requirement (ENG 131, or exemption) before enrolling in CAS 232.

Assignments in writing news and features, with emphasis on improving general writing skills, and understanding news values and the functions of journalism in our society.

**CAS 251 - Participation in The Exponent, 1-3 credit hours**

**Prerequisite(s):** CAS 232 or consent of the instructor.

This course offers students the opportunity to work for the student newspaper for credit. Students will serve as staff members and may fill a variety of roles within the production process, gaining skills in journalistic writing, interviewing, layout and design, headline writing, social media, and more. Course may be repeated.

**CAS 261X - DJ Format Shift, 2 credit hours**

**Prerequisite(s):** CAS 161, FCC License and registration with instructor's approval.

This experiential learning opportunity includes one semester as a staff disc jockey at WBWC. Course may be repeated.

**CAS 263 - Seminar, 1-4 credit hours**

**Prerequisite(s):** Varies dependent upon the topic being offered

The study of current topics of concern within the broadcasting and mass communication, communication studies, film studies, or public relations areas. May be repeated more than once, provided the subject or topic is different.

**CAS 271 - Participation in BW-TV, 1-3 credit hours**

**Prerequisite(s):** CAS 172 or consent of instructor.

This course offers students the opportunity to develop the techniques of television production for multi-camera studio and on-location environments. Students learn the skills necessary for reproduction, principal photography, and post-production, as well as the importance of operating under studio deadlines. Course may be repeated.

**CAS 272 - Documentary and Field Production, 3 credit hours**

**Prerequisite(s):** CAS 172

**Prerequisite/Corequisite:** CAS 107 or CAS 108

This course is designed to give students an overview of all major aspects of television broadcasting. Emphasis is placed on laboratory elements of three-camera and single-camera field production including ENG, lighting, audio and editing.

**CAS 273 - Narrative Film Production and Direction, 3 credit hours**

**Prerequisite(s):** CAS 172

**Prerequisite/Corequisite:** CAS 107 or CAS 108

Film aesthetics and practices will utilize Digital Video Technologies. Topics will include image acquisition, image manipulation, image composition and non-linear editing.

**CAS 274 - Sound, Microphone Technique, and Recording, 2 credit hours**

This course is an introduction to the principles, theories, and terminology of sound, hearing, and recording technology. Microphone styles and transducer types will be explained with an emphasis on microphone technique in various recording and reinforcement environments. Analog audio and digital formats and storage media will be compared and explained. The technical and aesthetic aspects of the accurate acquisition sound will be stressed.

**CAS 277D - Media and Diversity, 3 credit hours****Prerequisite(s):** CAS 126

This course will critically examine the role of the media in facilitating and challenging the social constructions of race, class, gender, and sexual orientation in our culture. It will take an interdisciplinary approach and will consider the mass media to be one among many other social institutions such as family, education, and religion, which strongly influence our conceptions of race, class, gender and sexual orientation. The course will address a variety of entertainment and news content in chemical, print and electronic media.

**CAS 278D - Diversity in America, 3 credit hours**

Through experiential exercises, field trips, discussions, and presentations, students will learn issues of diversity that affect communication processes in their everyday lives. We will be visiting different cultural groups in the immediate area to observe cultural practices and discuss the underlying values.

**CAS 285D - Introduction to Intercultural Communication, 3 credit hours****Prerequisite(s):** CAS 126

This course will analyze difficulties in communicating across cultural boundaries, misunderstandings arising from cultural differences, and techniques for living and working successfully in a multicultural setting. The course utilizes films, simulation games and other experiential learning techniques. Appropriate for any student interested in being a genuine citizen of the world.

**CAS 295 - Independent Study, 1-4 credit hours****CAS 298X - Internship, Credit hours to be arranged**

The for-credit internship registration process is handled via the Career Center Handshake platform. To register your internship for credit, please contact Career Center at [career@bw.edu](mailto:career@bw.edu).

**CAS 305 - Workshop in New Media, 3 credit hours**

This course is designed to give students an overview of emerging new media techniques, platforms and strategies. Emphasis is also placed on ethical practices in changing media environs. Specific media or platforms may vary each semester.

**CAS 311 - Quantitative Communication Research I, 3 credit hours****Prerequisite/Corequisite:** CAS 126, CAS 215 can be taken concurrently.

The primary objective of this course is to familiarize students with the process of communication research. Students will demonstrate familiarity with this process through the reading, evaluation, and analysis of communication research. Students will build evidence-based arguments for their own research project including specific research questions and hypotheses. Several written assignments will be utilized to practice the formulation research proposals, testable research premises, and ethical guidelines. Literature reviews that adhere to the APA (American Psychological Association) writing format are required. Students will also complete academic readings, homework activities, exams, and participate discussions to master course content.

**CAS 312 - Quantitative Communication Research II, 3 credit hours****Prerequisite(s):** CAS 311 and Core Math

This course focuses on the completion of research projects proposed in CAS 311 based on established procedures and/or designs. The student will gain hands-on research experience, analytical skills, scientific writing abilities, and oral presentation skills. Completion of an investigation utilizing the APA (American Psychological Association) writing format and the use of SPSS is required. Students will be expected to participate in a variety of activities, discussions, and complete various readings and assignments to successfully master the content area.

**CAS 313 - Organizational & Group Leadership, 3 credit hours****Prerequisite(s):** CAS 126

Organizational & Group Leadership is a course providing students with the knowledge and analysis of organizational communication theories and also containing the practical nature of a design to emphasize leadership skills in the

group setting. The course will focus on organizational communication theories and will also develop skills in leadership and innovative thinking through the use of student-led learning, discussion techniques, relational and task related projects.

**CAS 315 - Crisis Communication, 3 credit hours**

**Prerequisite(s):** CAS 120, CAS 230

The course focuses on the different types of crises common within an organization, and the role a public relations practitioner has during a crisis. Some of the topics examined in the course are the following. Analyses of various organizations and individuals and how they reacted in a crisis. What are the effective communication strategies for researching, planning, and responding to a crisis? Strategies for working with the media during a crisis, and the importance of ethical practices are essential aspects of the course.

**CAS 316 - Social Media Fundamentals, 3 credit hours**

**Prerequisite(s):** Junior Standing Required

Social Media Fundamentals will introduce students to social media from professional and consumer standpoints. Students will learn how to apply teachings to real-world clients as well as work with professional organizations to assist them in developing social media plans and tactics.

**CAS 322 - Film Themes and Genres, 3 credit hours**

**Prerequisite(s):** CAS 107 or CAS 108 or instructor approval.

An examination of various genres in film that contribute to the greater appreciation of film as an art form. Each term the course is offered, one of the major cycles of motion picture production will be highlighted including international films, musicals, horror, war, westerns, etc. Several full length films illustrating historically important phases of that film form will be shown in the laboratory period. Course may be repeated as genre changes.

**CAS 328 - Special Topics in Communication and Ethics, 3 credit hours**

**Prerequisite(s):** At least two courses in CAS or consent of instructor.

This course examines current topics of concern within the communication area. Topic offerings to include, but are not limited to: computer mediated communication, instructional communication, health communication, communication and aging, listening, conflict communication, communication education, black rhetoric, political communication, legal communication, communication and technology, or gender communication.

**CAS 360 - Intro to Visual Communication, 3 credit hours**

**Prerequisite(s):** CAS 120, CAS 230

The field of public relations is influence by different forms of technology. This course introduces student to different aspects of technology relevant to communication. Students learn about social media, web design, video news releases, and other forms of technical communication.

**CAS 361 - Participation in WBWC, 1-3 credit hours**

Students may work at WBWC for credit by working in the music department, in broadcasting news, or in other station activities as approved by the station management and the instructor. This course is graded.

**CAS 370 - Screenwriting, 3 credit hours**

**Prerequisite(s):** Completion of 45 credit hours, ENG 131, and CAS 107 or CAS 108. Course open to Film Studies majors only.

This course covers the most critical elements of screenwriting. Among them are development of plots and subplots through the inciting incident, backstory, turning points, image systems, beats and scenes units, and set-ups and pay-offs. This course will also examine the mechanics of the teleplay, a more restricted form of screenplay.

**CAS 372 - Advanced Media Criticism, 3 credit hours**

**Prerequisite(s):** CAS 115

This course an advanced undergraduate examination of mediated communication theory and criticism, with the goals of 1) critically understanding media products for the messages embedded within them, 2) understanding the different

interpretations various audience members or users take away from media products, and 3) of showing how theory drives research. Specific mediated contexts may vary each semester.

**CAS 373 - Lighting for Film, 3 credit hours**

**Prerequisite(s):** CAS 272 or CAS 273, or consent of the instructor.

A lighting design course specifically designed to introduce the student to the equipment and techniques of grips and gaffers. Composition, color theory, and qualities of light will be discussed how they relate to the photography (still, motion, digital, and chemical).

**CAS 374 - Audio Editing, Mixing, and Distribution, 2 credit hours**

**Prerequisite(s):** CAS 274

This course will teach the skills necessary to edit individual audio files as well as execute multi-track mixing, overdubbing, and mastering for post-production. Equalization, normalization, compression, overdubbing, noise reduction and restoration, and various effects will be taught utilizing traditional console as well as software based systems.

**CAS 395 - Independent Study, 1-4 credit hours**

**CAS 398X - Internship, Credit hours to be arranged**

The for-credit internship registration process is handled via the Career Center Handshake platform. To register your internship for credit, please contact Career Center at [career@bw.edu](mailto:career@bw.edu).

**CAS 410 - Persuasive Campaigns, 3 credit hours**

**Prerequisite(s):** CAS 120 and CAS 230

This course covers the fundamentals of public relations. Students will learn how to produce press releases, home pages, brochures, and other communication tools. Students will create and implement a persuasive campaign relying on theories and strategies learned in the course.

**CAS 413 - Argumentation and Debate, 3 credit hours**

**Prerequisite(s):** CAS 112

This course introduces students to argumentative techniques and principles. They will learn to analyze the components of an argument -- claim, grounds, warrant, and backing -- and to build a case with evidence and reasoning. Students will also practice debating a resolution with their peers using formats that include constructive argument, cross examination, rebuttal, and closing argument.

**CAS 415 - Studies in Public Relations, 3 credit hours**

**Prerequisite(s):** Junior or Senior standing

Current topics within the PR area will be studied including research, case studies, writing or other specified areas of public relations. Course may be taken more than once provided the subject or topic is different.

**CAS 422 - Film Makers, 3 credit hours**

**Prerequisite(s):** CAS 107 or CAS 108 or instructor approval.

This course will examine the creative contributions of various filmmakers. The filmmaker's personal vision, time in history and artistic sensibilities will be examined through the context of his or her work. Auteur Theory, history, and criticism will be emphasized as well as the literature and practical techniques of criticism. Course may be repeated as the filmmaker changes.

**CAS 425 - Conflict & Communication, 3 credit hours**

**Prerequisite(s):** Junior or Senior Status

The purpose of this course is to investigate conflict in interpersonal, organizational, and mediated forms. The course will identify various styles of conflict and will examine potential methods for managing interpersonal conflict. Students will examine and analyze case studies of conflict that have been carried out in the context of close relationships, in

the workplace, and through social media. Particular emphasis will be on third party intervention as an effective means of dispute resolution. Students will apply course content to demonstrate proficiency in conflict management.

**CAS 428 - Media Law and Ethics, 3 credit hours**

**Prerequisite(s):** CAS 126 and Junior or Senior status

An exploration of broadcast regulations, law, and ethics with emphasis given to their evolution and their impact on broadcasting and society over time. Current issues including First Amendment law, libel, slander, obscenity, copyright, etc. are also analyzed.

**Semesters Offered:** Offered in alternate years.

**CAS 432 - Advanced Studies in Film Theory and Criticism, 3 credit hours**

**Prerequisite(s):** CAS 107 or CAS 108 and CAS 222

This course provides advanced understanding of film as a cultural medium through the discussion of key theoretical and critical approaches. Theoretical and critical approaches discussed may include: realist theory, genre criticism, auteur theory, structuralism, feminist theory, and journalistic criticism.

**CAS 459X - Faculty-Student Collaboration, Credit hours to be arranged**

**Prerequisite(s):** Consent of instructor.

**CAS 474 - Audio for Film, 3 credit hours**

**Prerequisite(s):** CAS 374 or consent of the instructor.

The study of audio production principles and practices as they specifically relate to film production and post production. Topics will include on location acquisition as well as post production manipulation, and mixing of sound and audio. Foley and ADR projects will be included. The course focuses on the use of sound to compliment the image.

**CAS 476 - Capstone in Communication, 3 credit hours**

**Prerequisite(s):** Senior status or permission of instructor. Course must be repeated if grade is below C.

Majors enrolled in this course will learn the technology needed to conduct a Web-based portfolio that documents their learning experiences. This portfolio will include a resume, recommendation letters, samples of speaking presentations, communication-related papers, projects, and documentation of experiential learning.

**CAS 495 - Independent Study, 1-4 credit hours**

**CAS 497X - Internship, Credit hours to be arranged**

**Prerequisite(s):** At least 12 credit hours in CAS

An experiential learning course that allows the students who are interning to share ideas and practices used in the field of communication. By combining theoretical approaches with applied activities, students will learn valuable skills that are desired in the contemporary job market. Students will be expected to participate in a variety of online activities and discussions. The for-credit internship registration process is handled via the Career Center Handshake platform. To register your internship for credit, please contact Career Center at [career@bw.edu](mailto:career@bw.edu).

**CAS 498X - Internship, Credit hours to be arranged**

The for-credit internship registration process is handled via the Career Center Handshake platform. To register your internship for credit, please contact Career Center at [career@bw.edu](mailto:career@bw.edu).

## **Communications Sciences & Disorders**

**CSD 105D - Introduction to Communication Disorders, 3 credit hours**

An introduction to disorders in the areas of speech, language and hearing. Includes an overview of normal speech, language and hearing development and explanations of causes, characteristics, remediation and prognosis of a wide variety of communication disorders.



**CSD 220 - Speech and Language Development, 3 credit hours**

**Prerequisite(s):** CSD 105D, or consent of the instructor

Speech and language acquisition theory and stages from birth through adolescence. A variety of methods for analyzing syntax, semantics, pragmatics, morphology and phonology across the stages of development are discussed. Contributions of biological, social, cognitive and environmental factors on the process of language development are discussed. Information on language variation in multicultural populations is presented.

**CSD 225 - Phonetics and Phonology, 3 credit hours**

**Prerequisite(s):** CSD 105D, or consent of the instructor

A theoretical and applied study of the production of speech sounds based on the International Phonetic Alphabet. Standard American dialect is emphasized through practice in broad and narrow phonetic transcription techniques on both normal and disordered speech samples. Phonological theories are examined and applied to normal and disordered speech samples.

**CSD 235 - Clinical Ethics & Management, 2 credit hours**

**Prerequisite(s):** CSD 105D and CSD 220

**Corequisite(s):** CSD 236

An introduction to careers in speech-language pathology and audiology. This course focuses on the ethical and professional standards expected set forth by the Ohio Board of Speech-Language Pathology and Audiology as well as the American Speech-Language-Hearing Association. Students will learn the steps in ethical decision making. In addition students will be taught the necessary skills for successful observation, professional clinical writing, and clinical management. Strategies and the importance of confidentiality and HIPAA requirements will also be learned.

**CSD 236 - Speech & Language Observations, 1 credit hour**

**Prerequisite(s):** CSD 105D and CSD 220

**Corequisite(s):** CSD 235

This course provides an opportunity for students to participate in observations of the professions of Speech-Language Pathology and Audiology. Students will write reflections of sessions observed and demonstrate knowledge of ethical and professional standards. This course allows students to obtain the observation hours required by ASHA. All students are required to complete 25 observation hours in order to obtain a passing grade in this course. A grade of B- or above must be obtained in this course in order to register for CSD 335X.

**CSD 263 - Seminar, 1-4 credit hours**

**Prerequisite(s):** Varies dependent upon the topic being offered

The study of current topics of concern within the communication sciences & disorders area. May be repeated more than once, provided the subject or topic is different.

**CSD 295 - Independent Study, 1-4 credit hours****CSD 298X - Internship, Credit hours to be arranged**

The for-credit internship registration process is handled via the Career Center Handshake platform. To register your internship for credit, please contact Career Center at [career@bw.edu](mailto:career@bw.edu).

**CSD 321 - Neurology, Anatomy & Physiology of the Speech & Hearing Mechanism, 3 credit hours**

**Prerequisite(s):** CSD 105D and CSD 220

The anatomy and physiology of normal speech production and of the hearing mechanism. Including the study of the nervous system, ear, laryngeal, respiratory and orofacial processes. Applications to disorders in speech, language and hearing will be discussed.

**CSD 325 - Articulation and Phonology Disorders, 3 credit hours**

**Prerequisite(s):** CSD 105D, CSD 220 and CSD 225

The study of the normal aspects of articulation, speech sound acquisition, phonological awareness, and classification

and factors related to speech sound disorders. Applications of this information in the assessment and remediation of speech sounds disorders in children and adults will be addressed.

**CSD 335X - Clinical Practice- Individual, 1 credit hour**

**Prerequisite(s):** CSD 105D, CSD 220, CSD 225, and either CSD 325 or CSD 340. Earned grade of B- or above in CSD 235 and CSD 236 or consent of Program Director. GPA of 3.2 or above in the major or consent of Director of Clinical Education.

This course allows students to participate in experiential learning at the Baldwin Wallace Speech Clinic. Students are assigned to clients receiving individual therapy sessions and work to obtain ASHA clinical hours. Throughout this experience students are required to develop, write and execute long-term goals, short-term goals, and weekly lesson plans. Students also write SOAP notes and reflections on his/her performance. Students enroll in this course for two semesters.

**Graded:** S/U

**CSD 336X - Clinical Practice II, 1 credit hour**

**Prerequisite(s):** CSD 335X. GPA of 3.2 or above in major or consent of Director of Clinical Education.

Students gain practical application of therapeutic knowledge and techniques for evaluating and treating communication (speech, language, and hearing) and swallowing disorders in the Baldwin Wallace Speech Clinic. Students are assigned individual clinical patients and work on obtaining ASHA/CFCC clinical hours and competencies. Students are required to write long- and short-term patient goals, write and execute weekly lesson plans, and write end-of-semester progress reports.

**Graded:** S/U

**CSD 340 - Language Disorders, 3 credit hours**

**Prerequisite(s):** CSD 105D and CSD 220

The nature and characteristics of language disorders in children and adults are discussed. Including the assessment and treatment of disorders of syntax, semantics, morphology and pragmatics in all populations of language disordered children and adults.

**CSD 341 - Voice and Fluency Disorders, 3 credit hours**

**Prerequisite(s):** CSD 105D and CSD 220

The nature and characteristics of voice and fluency disorders in children and adults are discussed, including the assessment and treatment of disorders in voice and fluency/stuttering.

**CSD 351 - Speech and Hearing Science, 3 credit hours**

**Prerequisite(s):** CSD 105D and CSD 220

During this course students will gain knowledge regarding the principles of acoustics as they relate to speech production and perception. Students will also engage in analysis of speech signals to provide application of theories discussed in class. Clinical applications will also be discussed.

**CSD 395 - Independent Study, 1-4 credit hours**

**CSD 398X - Internship, Credit hours to be arranged**

The for-credit internship registration process is handled via the Career Center Handshake platform. To register your internship for credit, please contact Career Center at [career@bw.edu](mailto:career@bw.edu).

**CSD 420 - Audiology, 3 credit hours**

**Prerequisite(s):** CSD 105D and CSD 220

A study of audiology, instrumentation, diagnosis, hearing disorders and basic rehabilitation procedures for hearing impaired populations.

**CSD 421 - Aural Rehabilitation, 3 credit hours****Prerequisite(s):** CSD 105D and CSD 220

A study of the historical aspects of communication intervention with people who are hearing impaired, etiologies related to hearing impairment, incorporating auditory and visual stimuli in communication, language and speech of the hearing impaired, communication methodologies, psychosocial issues related to hearing impairment, hearing aids, assistive listening devices, cochlear implants, and audiologic rehabilitation techniques across the lifespan.

**CSD 435X - Clinical Practice- Group, 1 credit hour****Prerequisite(s):** CSD 105D, CSD 220, CSD 225, CSD 335X, and either CSD 325 or CSD 340. Earned grade of B- or above in CSD 235 and CSD 236 or consent of Program Director. GPA of 3.2 or above in the major or consent of Director of Clinical Education.

This course allows students to participate in experiential learning at the Baldwin Wallace Speech Clinic or an approved offsite clinical site. These supervised experiences allow the students to lead group therapy sessions while obtaining ASHA clinical hours. Students are required to develop, write, and execute long-term goals, short-term goals, and session lesson plans. Students also write clinic notes and reflections on his/her performance.

**Graded:** S/U**CSD 436X - Clinical Practice IV, 1 credit hour****Prerequisite(s):** CSD 435X. GPA of 3.2 or above in major or consent of Director of Clinical Education.

Students gain practical application of therapeutic knowledge and techniques for evaluating and treating communication (speech, language, and hearing) and swallowing disorders in the Baldwin Wallace Speech Clinic. Students are assigned individual clinical patients and work on obtaining ASHA/CFCC clinical hours and competencies. Students are required to write long- and short-term patient goals, write and execute weekly lesson plans, and write end-of-semester progress reports.

**Graded:** S/U**CSD 440 - Research Methods in Communication Disorders, 3 credit hours****Prerequisite(s):** ENG 131, CSD 105D and CSD 220; and at least one semester of CSD 335X

This course provides an overview of research methodology, design considerations, and the formulation of testable research questions that are central to the study of communication disorders. Ethical issues involved in communication disorders research will also be discussed. Students will design a doable evidence-based practice research proposal by the end of this course.

**CSD 459X - Faculty-Student Collaboration, Credit hours to be arranged****CSD 477 - Capstone in Communication Disorders, 3 credit hours****Prerequisite(s):** Senior status. Course must be repeated if grade is below a C.

Students enrolled in this course will complete a portfolio, in which they are to document the knowledge and skills obtain both in and out of the classroom, during their University years. The portfolio will include a resume, cover letter, recommendations letter, letters of acceptance (graduate school or employment) completed KASA form, clinical experience documentation, reflections on academic, clinical, extracurricular involvement, and employment experiences.

**CSD 495 - Independent Study, 1-4 credit hours****CSD 498X - Internship, Credit hours to be arranged**

The for-credit internship registration process is handled via the Career Center Handshake platform. To register your internship for credit, please contact Career Center at [career@bw.edu](mailto:career@bw.edu).

**CSD 510 - Child Language Disorders, 3 credit hours**

The course is designed to provide a theoretical and practical orientation to the area of child language disorders. It will provide practical applications of the principles of prevention, assessment and remediation of language disorders in children birth to 18 years.

**CSD 521 - Neuroanatomy and Physiology, 2 credit hours**

This course will review neuroanatomy and physiology for the speech, language and hearing mechanism. Development, maturation, and function of all essential structures will be covered.

**CSD 525 - Articulation & Phonology Disorders, 3 credit hours**

The study of the normal aspects of articulation, speech sound acquisition, phonological awareness, and classification and factors related to speech sound disorders. Applications of this information in the assessment and remediation of speech sounds disorders in children and adults will be addressed.

**CSD 530 - Clinical Foundations, 3 credit hours**

This course is an overview of the practice of Speech-Language Pathology and an introduction to clinical practice. Students will learn about ethical practice guidelines, scope of practice, HIPPA/confidentiality, clinic procedures, clinical writing (goals, lesson plans, assessments), and other topics as appropriate.

**CSD 531 - Diagnostics in Speech-Language Pathology, 1 credit hour**

Students will learn diagnostic procedures, administration guidelines, and clinical writing procedures for diagnostics/evaluations in Speech-Language Pathology. Students will earn clock hours conducting diagnostics with a variety of patients with communication disorders across the lifespan.

**CSD 534 - Augmentative & Alternative Communication, 2 credit hours**

A look at the assessment and intervention methods associated with augmentative and alternative communication (AAC). An understanding of AAC and the language systems, continuum of AAC strategies will be developed. Students will learn how to identify potential candidates for AAC, as well as learn evaluation techniques and intervention strategies for individuals with complex communication needs. Students will also participate in service learning through the Baldwin Wallace Speech Clinic, off-site clinical practicum, online practice, and other relevant opportunities.

**CSD 535 - Clinical Practice, 1 credit hour**

Students will participate in Clinical Practice experiences on campus at the Baldwin Wallace Speech Clinic. Students will earn clock hours with a variety of patients with communication disorders across the lifespan.

**Graded:** S/U

**CSD 536 - Clinical Practice, 1 credit hour**

Students will participate in Clinical Practice experiences on campus at the Baldwin Wallace Speech Clinic or at an offsite placement. Students will earn clock hours with a variety of patients with communication disorders across the lifespan.

**Graded:** S/U

**CSD 537 - Clinical Practice, 1 credit hour**

Students will participate in Clinical Practice experiences on campus at the Baldwin Wallace Speech Clinic or at an offsite placement. Students will earn clock hours with a variety of patients with communication disorders across the lifespan.

**Graded:** S/U

**CSD 541 - Voice Disorders, 2 credit hours**

Causation, symptomatology, and remedial procedures of voice disorders, specific evidence-based practice procedures for both children and adults across intervention settings.

**CSD 542 - Fluency Disorders, 2 credit hours**

Causation, symptomatology, and remedial procedures of stuttering, specific evidence-based practice procedures for both children and adults across intervention settings.

**CSD 550 - Integrations, 3 credit hours**

This course is designed to help link the content taught in lecture-based classes in the graduate curriculum to the clinic practicum that the student engage in every semester. Students will participate in service learning projects designed to implement concepts, reflect on clinical experiences, discuss requirements of different clinical settings, and ethical implications of day-to-day clinical practice. Other topics will be covered as needed.

**CSD 551 - Integrations, 3 credit hours**

This course is designed to help link the content taught in lecture-based classes in the graduate curriculum to the clinic practicum that the student engage in every semester. Students will participate in service learning projects designed to implement concepts, reflect on clinical experiences, discuss requirements of different clinical settings, and ethical implications of day-to-day clinical practice. Other topics will be covered as needed.

**CSD 552S - Integrations, 3 credit hours**

This course is designed to help link the content taught in lecture-based classes in the graduate curriculum to the clinic practicum that the student engages in every semester. Students will learn and discuss topics of policy and advocacy relevant to the field of communication sciences and disorders as well as ethical considerations and support for underserved and vulnerable populations. Students will participate in service-learning projects designed to enhance academic learning, reflect on clinical experiences, discuss requirements of different clinical settings, and ethical implications of day-to-day clinical practice. Other topics will be covered as needed.

**CSD 557 - Culturally Responsive Practices in Communication Sciences and Disorders, 3 credit hours**

Our beliefs, attitudes, values, and assumptions shape the way that we move through the world. As health care practitioners, it is incumbent upon us to examine these elements of culture that influence us, the people we serve, and the therapeutic environment. This course will help students deconstruct and examine culture's impact on clinical practice and research in the field of communication sciences and disorders.

**CSD 560 - Foundations of EBP, 3 credit hours**

This course focuses on evidence-based practice in speech-language pathology. The class will examine research methodologies in the area of human communication development and disorders. Major emphases are placed on understanding the process of empirical research; understanding the basic concepts and methods of research; and interpreting and evaluating the quality of research articles. Students will apply the principles of research and its findings to clinical management of communication disorders on their own areas of interest.

**CSD 563 - SLP 2B in Zambia, 2 credit hour**

Speech-language pathology, audiology and elephants, OH MY! Come to Zambia and see how your class work and clinical experiences connect in a different context. Embrace Sub-Saharan Africa and learn in a new way. This is course seeks to integrate critical elements of clinical education, service-learning, and study abroad through a unique cultural exchange experience. While participating in in-country or virtual activities in Zambia, students will have the opportunity to explore the field of communication sciences disorders, learn about Zambian life and industry from incredible professionals, and learn about themselves as members of a global society. This course consists of two parts, an on-campus preparation class and in-country study abroad component (virtual options available).

**CSD 610 - Adult Language Disorders, 3 credit hours**

The course is designed to provide a theoretical and practical orientation to the area of adult language disorders. It will provide practical applications of the principles of prevention, assessment and remediation of language disorders in adults including aphasia and acquired cognitive-communication disorders, with emphasis on cognitive-communication deficits associated with traumatic brain injury, right hemisphere damage, dementing illness, and other neurogenic conditions.

**CSD 621 - Aural Rehabilitation, 2 credit hours**

**CSD 625 - Dysphagia, 2 credit hours**

This course examines the nature, etiology and treatment of swallowing disorders resulting from neuropathologies. Related intellectual, perceptual, social and emotional problems will be considered as well as the neuromuscular symptoms. Evidence-based practice will be utilized in clinical decision-making.

**CSD 626 - Motor Speech Disorders, 2 credit hours**

This course examines the nature, etiology and treatment of motor speech and related disorders resulting from neuropathologies. Related intellectual, perceptual, social and emotional problems will be considered as well as the neuromuscular symptoms. Evidence-based practice evidence will be utilized in clinical decision-making.

**CSD 635 - Clinical Practice, 3 credit hours**

Students will participate in Clinical Practice experiences off campus at a variety of settings as determined by the Clinic Director. Students will earn clock hours with a variety of patients with communication disorders across the lifespan.

**Graded:** *S/U*

**CSD 636 - Clinical Practice, 6 credit hours**

Students will participate in a 15 week Clinical Practice experience off campus at a variety of settings as determined by the Clinic Director. Students will earn clock hours with a variety of patients with communication disorders across the lifespan.

**Graded:** *S/U*

**CSD 638 - Clinical Practice School Based, 1 credit hour**

Students will participate in an 8-15 week full-time Clinical Practice experience off-campus at a school based setting as determined by the Clinic Director. Students will earn clock hours with a variety of patients with communication disorders.

**Graded:** *S/U*

**CSD 650 - Integrations, 2 credit hours**

This course is designed to help link the content taught in lecture-based classes in the graduate curriculum to the clinic practicum that the student engage in every semester. Students will participate in service learning projects designed to implement concepts, reflect on clinical experiences, discuss requirements of different clinical settings, and ethical implications of day-to-day clinical practice. Other topics will be covered as needed.

**CSD 660 - Research Application, 1 credit hour**

This course is intended to provide the student with the opportunity to engage in a research study within the field of Speech-Language Pathology. The student will work under the direction of a faculty member in the Department.

**CSD 677 - Capstone in Speech-Language Pathology, 3 credit hours**

A portfolio-based course in which students integrate evidence regarding the clinical knowledge and skills obtain both the classroom and clinical settings to demonstrate competency in prevention, assessment, and intervention of communication disorders across the lifespan. In addition, evidence of competency in the professional practice areas of cultural competence, evidence-based practice, Interprofessional education and practice, and supervision will be demonstrated through artifacts and reflective approaches to learning. Knowledge about certification, licensure, specialty recognition, ethical conduct, contemporary professional issues and other relevant issues regarding employment and life as a professional will also be demonstrated in this course.

**Graded:** *S/U*

## Computer Science

### **CSC 135 - Introduction to Web Site Development, 3 credit hours**

This course is designed to provide experience in the development of basic web sites, focusing on standard web development languages and tools such as HTML, XML, CSS, and JavaScript. Use of web editing tools such as WordPress or Visual Studio is also included. Several web sites will be developed to practice the implementation of the technologies discussed.

### **CSC 141 - Advanced Applications for Information Analysis, 3 credit hours**

**Prerequisite(s):** Basic computer literacy, including the use of word processing and beginning Excel, is assumed; completion of core MTH course.

This course focuses on spreadsheet and database technologies with an emphasis on the application of those technologies in the business domain. Topics include creation of spreadsheets and databases, financial and statistical functions, charting, problem solving tools, querying of databases, creation of forms and reports, macros, and the integration of spreadsheets and databases.

### **CSC 160 - Introduction to Computing, 3 credit hours**

This course provides an introduction to the computing majors and minors offered at BW including the curricular difference, the professional practices, and the available career opportunities. In addition, it introduces students to many of the primary areas of computing (including, but not limited to computational thinking, computer networks, operating systems, artificial intelligence) and gives a historical perspective of the discipline. Problem solving, teamwork and ethics are woven throughout the course.

### **CSC 210 - Computer Science I: Programs and Applications, 3 credit hours**

This course covers the fundamental concepts of computers and computer programming. Repetition, selection, procedures, simple data types, arrays, and records are covered. Object-orientation and graphical user interfaces are introduced. Structured design and programming techniques are emphasized.

### **CSC 211 - Introduction to Programming in Python, 3 credit hours**

This course is intended to provide students with basic skills and experience in the analysis of problems, the creation of algorithms to solve these problems, and the implementation of the resulting algorithms as working programs. The Python programming language is used and many of the assignments focus on the creation or manipulation of multimedia components. This is the preferred introductory course for students majoring in Digital Media.

### **CSC 212 - Intro to Programming for Scientists & Engineers, 3 credit hours**

**Prerequisite(s):** Knowledge of high school Algebra I, Algebra II and Geometry are prerequisites for all Mathematics courses.

Students are required to have achieved an ACT Math Score of 22 or higher, a SAT Math Section Score of 520 or higher (if taken prior to March 2016), a SAT Math Section Score of 550 or higher (if taken after March 2016), a SAT Math Test Score of 27.5 or higher, a math readiness placement score of at least 75 or higher, or a score of 80% or higher on the Baldwin Wallace mathematics placement exam.

Introduction to programming for scientists and engineers. Programming concepts such as repetition, selection, functions, strings and other simple datatypes will be introduced in the context of solving problems of interest to scientists and engineers. Emphasis on reproducibility and documentation of computational procedures. Exploration of Data visualization along with scientific computing libraries.

### **CSC 235 - System Requirements and Testing, 3 credit hours**

This course introduces the student to user-centered software engineering principles. This course will focus on understanding the problem for which a solution is being requested, building empathy for the people needing/using the solution, gathering user stories to build the requirements for that solution, and validating those requirements through prototyping and testing.

**CSC 240 - Object-Oriented Programming, 3 credit hours**

**Prerequisite(s):** CSC 210 or CSC 211 or CSC 212 any with a "C" or better.

This three credit course builds on the introductory programming concepts presented in Computer Science I by introducing students to the object-oriented programming paradigm. Topics include abstraction, encapsulation, inheritance, polymorphism, object-oriented design and, as time permits, use of advanced language features such as generics, packages and interfaces. Students implement several applications of varying complexity in a current object-oriented programming language (currently Java).

**CSC 245 - Data Structures, 3 credit hours**

**Prerequisite(s):** CSC 240 with a "C" or better.

**Prerequisite/Corequisite:** MTH 161 or MTH 206 either with a "C" or better.

This course focuses on the development of advanced data structures that are commonly used in computer science including stacks, queues, trees, and graphs. Emphasis is placed on the efficiency of the various data structures and the applications for which they are used. Advanced language features including inheritance, polymorphism, templates, and exception handling are also studied.

**CSC 250 - Multimedia Programming, 3 credit hours**

**Prerequisite(s):** CSC 160; and CSC 210 or CSC 211 either with a "C" or better.

This course focuses on the creation and integration of computer media including still graphics, animation, video, and sound. A major part of the course will focus on programming techniques and languages for the interactive control of multimedia presentations.

**CSC 253 - Seminar in Computing for the Community I, 3 credit hours**

**Prerequisite(s):** CSC 210 or CSC 211 or CSC 212

This course and its companion course, Seminar in Computing for the Community II, offers students the opportunity to develop technical skills to fulfill a computing project that can aid a community organization in furthering their objectives. Students learn about the needs-technical and civic-of an organization, gain insight into the cultural context in which the organization operates, and develop a computing project that will then be deployed to the community organization.

**CSC 263 - Seminar, 1-3 credit hours**

**Prerequisite(s):** Dependent upon topic.

Selected topics in computer science

**CSC 270 - Data Communication Concepts, 3 credit hours**

**Prerequisite(s):** CSC 160

This course provides an introduction to data communications. Topics include fundamental communications concepts (data and voice); communications hardware, protocols, and software; and network configurations, design, security, control, and management. Topic coverage includes study of LANs, WANs, OSI models, Internet, and intranets.

**CSC 275 - Info Systems Security, Privacy, & Ethics, 3 credit hours**

**Prerequisite(s):** CSC 160

This course explores the social issues, including historical and social context, professional responsibilities, risks and liabilities, and intellectual property of an information system organization. Topics include security policy development life cycle, policy development and implementation process, network security, privacy laws, authentication, and access and information flow controls.

**CSC 280 - Data Systems, 3 credit hours**

**Prerequisite(s):** CSC 210 or CSC 211 or CSC 212 any with a "C" or better.

The Data Systems course offers a broad view of data - its access, structure, storage, and representation. The course includes database systems as well as other sources of structured and unstructured data from tabular, spreadsheet-like files to unstructured data scrapes from various locations across the internet. The manipulation, cleaning, and representation of data to allow for the application of a variety of analytical tools and techniques is also discussed.



**CSC 285 - Network Diagnostics and Troubleshooting, 3 credit hours****Prerequisite(s):** CSC 210 & CSC 275

This course covers concepts and tools associated with diagnosing and troubleshooting computer networks. Topics include interpreting documentation, performing online and offline diagnostics, debugging code, interpreting diagnostic results, analyzing log files, and performing troubleshooting techniques. Course will focus on finding and localizing "problems" rather than correcting them.

**CSC 290 - Computer Networks, 3 credit hours****Prerequisite(s):** CSC 270 and either MTH 160 or MTH 161**Prerequisite/Corequisite:** CSC 285

This course covers the design, installation and administration of computer networks at the operating system level from an applied perspective. The course includes a highly integrated hands-on component in which a fully functional single client and peer-to-peer client network is realized within a physical and virtualized platform.

**CSC 291 - Computer Science Research Methods, 2 credit hours****Prerequisite(s):** CSC 245 and MTH 161 both with a "C" or better; or permission of the instructor.

Performing undergraduate research in computer science requires that students have foundational knowledge and skills related to research methodology. In this course, students will learn the basics of performing research including how to identify a research problem, performing background research, reading published research, and developing a research plan.

**CSC 294 - Computer Science Research Experience, 1-3 credit hours**

In this course, students will work closely with a research advisor to apply skills from their discipline towards the successful completion of a research project. Throughout the semester, students will be expected to meet with the research group they are assigned to discuss findings and progress towards goals. Students may also be required to present their research at on-campus events or at other venues such as conferences. Students at any academic level and any major can participate based on the advisor's research area and permission from the research advisor.

**Graded:** S/U**CSC 295 - Independent Study, 1-4 credit hours****CSC 298X - Internship, Credit hours to be arranged**

Academic credit is offered for appropriate off-campus, computer-related experience. The for-credit internship registration process is handled via the Career Center Handshake platform. To register your internship for credit, please contact Career Center at [career@bw.edu](mailto:career@bw.edu).

**CSC 310 - Software Engineering I, 3 credit hours****Prerequisite(s):** Junior Standing; CSC 235 and CSC 245 both with a "C" or better.

This course presents how software engineering principles are applied to develop large-scale, complex software systems that will be sustainable over time. The focus is on understanding the broad issues of the software engineering landscape, including culture, processes, and tools.

**CSC 311 - Software Engineering II, 3 credit hours****Prerequisite(s):** Junior standing; CSC 310 with a "C" or better or instructor approval; CSC 235 and CSC 245 both with a "C" or better; and CSC 380 or CSC 280 (either with a "C" or better)

This course prepares students for their capstone experience in the software engineering major, introducing them to working on a team and using processes and tools to analyze, develop, and test a large-scale software system.

**CSC 315 - Network Administration, 3 credit hours****Prerequisite(s):** CSC 290 and either CSC 280 or CSC 380

This course covers administering network operating systems. Topics include Windows system and UNIX (Linux) system administration, application (Database, Web) maintenance and interoperability between Windows and Linux

systems. A highly integrated hands-on component is used where Windows and Linux systems are realized in a hybrid physical and virtualized environment.

**CSC 320 - Computer Architecture & Organization, 3 credit hours**

**Prerequisite(s):** CSC 245 with a "C" or better.

This course covers computing history, computer technology and terminology, basic logic design, computer architecture, CPU architecture, memory systems and assembly language.

**CSC 330 - Web & Mobile Programming, 3 credit hours**

**Prerequisite(s):** CSC 240 or CSC 245 either with a "C" or better; and CSC 280 or CSC 380 either with a "C" or better.

This course focuses on building mobile and web applications using a service oriented approach. Students will learn how to construct web services and utilize these services with mobile clients. Additionally, architecture patterns for mobile and web applications will be covered as well as crosscutting concerns such as security.

**CSC 335 - Software Validate, Verification and Security, 3 credit hours**

**Prerequisite(s):** CSC 310 with a "C" or better.

This course teaches the essential skills necessary to get an understanding of software verification and validation strategies to develop quality software. Students will be introduced to topics in test planning and management, testing tools, reviews, and methods of software testing. Case study examples will be used in this course to give the students an opportunity to use and take informed decisions on the choice of software testing tool /technique used to build quality software system.

**CSC 340 - Data Analysis & Visualization, 3 credit hours**

**Prerequisite(s):** MTH 105 or MTH 235 or MTH 279 or FNC 280; and either CSC 280 or CSC 380. All with a "C" or better.

This course teaches the essential skills necessary to find new ways of understanding and communicating data. The course will introduce students to basic visualization design and implementation techniques using currently available software tools. Case study examples will be used throughout the course to give students an opportunity to practice the learned skills.

**CSC 360 - Information Systems Project Management, 3 credit hours**

**Prerequisite(s):** Junior Status or above.

This course provides a methodical approach to project management in the context of an information system organization. The theory and practice of project management are studied and applied. Topics include system life cycle planning, organizational structures, team building, interview techniques, management functions, project management software, project evaluation and control, and technical writing.

**CSC 364 - Information Systems Analyst Junior Project, 3 credit hours**

**Prerequisite(s):** CSC 235, BUS 108, and either CSC 280 or CSC 380

This course and its companion course, Information Systems Analyst Senior Project, allow students to experience various roles related to the development and management of real world systems. Students in this course perform roles that utilize skills such as database management, requirements analysis and quality assurance. Senior students in the course will take on more senior roles such as senior analyst and project manager.

**CSC 380 - Database: Theory, Application, & Administration, 3 credit hours**

**Prerequisite(s):** CSC 245 with a "C" or better.

This course will introduce students to the design, implementation, and management of small and large databases. We will examine the mathematical and theoretical basis for different database models with an emphasis on relational databases, but an overview of other models, such as object-oriented databases will be included. The connection between the logical model of the database and the physical mapping of the data, including indexing, will be examined. Related topics covered will include current developments in new database models, data mining,

security, and the ethical use of data collection. Practical exercises will include the analysis, design, implementation, and documentation of a data system including a database.

### **CSC 395 - Independent Study, 1-4 credit hours**

### **CSC 398X - Internship, Credit hours to be arranged**

Academic credit is offered for appropriate off-campus, computer-related experience. The for-credit internship registration process is handled via the Career Center Handshake platform. To register your internship for credit, please contact Career Center at [career@bw.edu](mailto:career@bw.edu).

### **CSC 400 - Operating Systems, 3 credit hours**

**Prerequisite(s):** CSC 245 with a "C" or better.

This course covers operating systems concepts and design, including processes and threads, CPU scheduling, mutual exclusion and synchronization, deadlock, memory management, file systems, networking, distributed systems and systems programming.

### **CSC 410 - Advanced Computer Networks, 3 credit hours**

**Prerequisite(s):** CSC 290 and MTH 105

This course covers advanced concepts and tools associated with network operation and performance. Topics include network topology, network hardware (switches, routers, and firewalls), communication protocols and packet formats, troubleshooting techniques, multi-platform integration, and network security and configuration.

### **CSC 411 - Comparative Programming Languages, 3 credit hours**

**Prerequisite(s):** CSC 245 with a "C" or better.

This course examines the structures of modern programming languages and how various languages differ in the implementation of those structures. Language features studied include scope (statics vs. dynamic), storage management, and various control structures. Students are also introduced to programming paradigms beyond the imperative approach, including declarative, functional and parallel computing.

### **CSC 415 - Penetration Testing and Defense, 3 credit hours**

**Prerequisite(s):** CSC 210 & CSC 315

This course covers concepts and tools associated with evaluating the security of a computer system or network and the defense of attacks from malicious outsiders. Topics include the anatomy of an attack, survey of tools used in attacks, strategies used in attacks, and techniques and guidelines on how to prevent or mitigate attacks. Documenting the attacks, from the attacker and the victim perspective, is also covered.

### **CSC 420 - Formal Languages, 3 credit hours**

**Prerequisite(s):** CSC 245 with a "C" or better.

This three credit course presents the computer science major with a view of the underlying theoretical and mathematical concepts that determine what we are able to effectively compute and how efficiently we can solve computational problems. The course is divided into three major topics - automata, computability, and complexity. Emphasis will be placed on relating the concepts presented to realistic problems that students are likely to encounter in various areas of computer science including programming languages, architecture, and algorithms.

### **CSC 430 - Algorithm Design and Analysis, 3 credit hours**

**Prerequisite(s):** CSC 245 with a "C" or better.

Building on concepts of basic algorithm design and complexity analysis introduced in earlier courses, this course explores advanced algorithm design and analysis. Topics may include advanced data structures, inductive algorithms, graph algorithms, geometric, algebraic, and numeric algorithms, reductions, NP-completeness, and parallel algorithms. Emphasis is placed on formal efficiency analysis of algorithms utilizing concepts from discrete mathematics.

**CSC 440 - Intelligent Systems, 3 credit hours**

**Prerequisite(s):** CSC 245 with a "C" or better.

This course offers an exploration of intelligent systems concepts and techniques. Topics discussed could include a broad overview of artificial intelligence (including planning, reasoning, and dealing with uncertainty), applied machine learning, biologically-inspired computational intelligence, the computational concerns of robotics, or other areas within the general field of intelligent systems.

**CSC 453 - Seminar in Computing for the Community II, 3 credit hours**

**Prerequisite(s):** CSC 210 or CSC 211 or CSC 212 and two additional CSC courses at the 200-level or higher

This course and its companion course, Seminar in Computing for the Community (SCFC) I, offers students the opportunity to develop technical skills to fulfill a computing project that can aid a community organization in furthering their objectives. Students learn about the needs-technical and civic-of an organization, gain insight into the cultural context in which the organization operates, and develop a computing project that will then be deployed to the community organization. Students in SCFC II perform roles such as project manager as they direct teams that students in SCFC I in the context of a real-world project.

**CSC 459X - Faculty-Student Collaboration, Credit hours to be arranged****CSC 464 - Information Systems Analyst Senior Project, 3 credit hours**

**Prerequisite(s):** CSC 340 or BIS 340

**Prerequisite/Corequisite:** CSC 360

This course and its companion course, Information Systems Analyst Junior Project, allow students to experience various roles related to the design, testing, and management of real world systems development. Students in this course perform roles such as senior analyst and project manager as they direct teams that include junior students in the context of a real-world project.

**CSC 471 - Senior Project, 3 credit hours**

**Prerequisite(s):** Permission of instructor.

Project proposals must demonstrate that the project is of significant breadth and depth to be considered a capstone experience, integrating multiple aspects of the student's background coursework and extending the student's knowledge in at least one aspect of their area of concentration.

**Graded:** S/U

**CSC 480 - Senior Software Engineering Project I, 3 credit hours**

**Prerequisite(s):** Senior standing; CSC 311 with a "C" or better.

**Prerequisite/Corequisite:** CSC 310

This two-semester sequence is designed to be a capstone experience in the software engineering major that provides the opportunity to identify, formulate, and solve a complex engineering problem by applying engineering, science, and mathematics principles. The projects will be large-scale and complex, requiring students to apply engineering principles and programming techniques from previous courses. Teams of students will complete the project. At the end of the experience, a final report and presentation will be required.

**Graded:** S/U

**CSC 481 - Senior Software Engineering Project II, 3 credit hours**

**Prerequisite(s):** CSC 480

This two-semester sequence is designed to be a capstone experience in the software engineering major that provides the opportunity to identify, formulate, and solve a complex engineering problem by applying engineering, science, and mathematics principles. The projects will be large-scale and complex, requiring students to apply engineering principles and programming techniques from previous courses. Teams of students will complete the project. At the end of the experience, a final report and presentation will be required.

**Graded:** S/U

**CSC 494 - Computer Science Research Capstone, 1-2 credit hours****Prerequisite(s):** CSC 291

This class spans a minimum of 2 semesters and 3 credit hours and encompasses the capstone research experience for Computer Science. Students will conduct research as directed by their faculty advisor either alone or as part of a larger research effort. The details of the expected work will be decided upon by the student and faculty advisor working in conjunction. As an end product, student will be expected to present and defend their work to a committee of computing faculty.

**Graded:** S/U**CSC 495 - Independent Study, 1-4 credit hours****CSC 497X - Senior Internship, 1 or 3 credit hours****Prerequisite(s):** Permission of instructor.

This course is designed to be a senior capstone experience in which the student is expected to demonstrate mastery of the skills and concepts acquired throughout the major curriculum. The internship is required to match the individual's major program and have an emphasis on the application of classroom knowledge to actual practice. All internships must be approved by the faculty of the department. Due to the capstone nature of the course, senior status within the major is a required pre-requisite. The for-credit internship registration process is handled via the Career Center Handshake platform. To register your internship for credit, please contact Career Center at [career@bw.edu](mailto:career@bw.edu).

**Graded:** S/U**CSC 498X - Internship, Credit hours to be arranged**

Academic credit is offered for appropriate off-campus, computer-related experience. The for-credit internship registration process is handled via the Career Center Handshake platform. To register your internship for credit, please contact Career Center at [career@bw.edu](mailto:career@bw.edu).

## Criminal Justice

**CRJ 165 - Overview of the Criminal Justice System, 3 credit hours**

This course examines the criminal justice system, consisting of police, courts and corrections. Acquainting the student with critical issues confronting these subsystems and our society will be of paramount importance. Major topics may include due process, police role, pretrial release, prosecutorial discretion and sentencing.

**CRJ 223 - Juvenile Delinquency & the Juvenile Justice System, 3 credit hours**

This course examines competing theories of juvenile delinquency; measures which aid in the prevention and control of this behavior are also addressed. Juvenile justice procedures and cases are presented. Attention is also given to the social consequences of juvenile delinquency and to the corresponding legal and social reactions.

**CRJ 255 - Forensic Science and Criminalistics, 4 credit hours****Prerequisite(s):** CRJ 165

Forensic Science and Criminalistics is an introductory survey course reviewing the historical development of the field of forensic science, the meaning of evidence and the scientific analysis of evidence in the context of law and criminal investigation. Examples of topics include physical evidence, organic evidence, document evidence, firearm and tool evidence, fingerprints and witness evidence. Students will engage in hands on learning opportunities including demonstrations and labs designed to illustrate and apply course concepts or exemplify skills from the field. Attendance at guest speakers and field trips may be required.

**CRJ 256 - Criminal Investigations, 3 credit hours****Prerequisite(s):** Sophomore or higher status

This course is an introduction to criminal investigation procedures. It includes a review of the historical development of the investigative process, its relation to law enforcement and the techniques employed in conducting a systematic

inquiry and investigation. Investigative concepts and strategies including sources of information, solvability factors, interviewing techniques, the uses of forensic sciences in criminal investigations and Constitutional decisions affecting how investigations are conducted will be considered.

**CRJ 265 - Policing in Society, 3 credit hours**

This course will provide students with a knowledge of the role and functions of the police in our society. Critical issues facing the law enforcement community and our society will be addressed. The primary focus will be on the municipal level, with selective coverage of other levels (county, state, federal) as deemed necessary.

**CRJ 277 - Race, Gender & Justice, 3 credit hours**

**Prerequisite(s):** SOC 100D or CRJ 165

This course explores the intersection between race and gender inequalities and the criminal justice system. It will examine the nature and extent of gender and racial/ethnic minorities as offenders, as victims, and as workers in the criminal justice system. The course will explore theories of criminality, race/ethnicity and gender. The impact of criminal justice related law, policy, and practice on inequalities gender and the larger implications for society and culture will be considered.

**CRJ 295 - Independent Study, 1-4 credit hours**

**CRJ 298X - Internship, Credit hours to be arranged**

**Notes:** (Elective)

An internship with various criminal justice agencies is available to give students the opportunity to gain practical exposure to the workings of the criminal justice system. Criminal Justice majors are advised to see the director or assistant director of the Criminal Justice program regarding internship opportunities. Students must have junior or senior status to participate. Students should see the director/assistant director at least one semester before the semester that they plan to do the internship. Competitive internships will be announced and may have more stringent requirements. The availability of specific internships may vary. The for-credit internship registration process is handled via the Career Center Handshake platform. To register your internship for credit, please contact Career Center at [career@bw.edu](mailto:career@bw.edu).

**CRJ 309 - Criminal Law and the Constitution, 3 credit hours**

**Notes:** Recommended background: POL 101D or American history

An overview of modern criminal law, both substantive and procedural. Includes such topics as crimes against the person and property. Also includes constitutional law decisions on criminal law in the US: exclusionary rules, right to counsel, fair trial procedures and capital punishment are among the topics discussed. Recommended for Criminal Justice majors and Pre-law students.

**CRJ 313 - Criminology, 3 credit hours**

**Prerequisite(s):** SOC 100D

This course focuses on the sociological aspects of crime. The course will include an examination of the nature of criminal law, the variety of theoretical explanations for criminal behavior, the measurement of crime, patterns of crime and the mechanisms for control of criminal behavior.

**Crosslisted:** SOC 313

**CRJ 320X - Victimology, 4 credit hours**

**Prerequisite(s):** SOC 100D or CRJ 165

This course will cover topics such as the patterns of criminal and victim relationship, theories of victimization, victims' rights and activism, the role of victim in the criminal justice process, and problems of adjustment to victimization and compensating the victim. The various types of victims and victimizations will also be explored. Students will actively participate in the community service, applying and integrating knowledge acquired in the classroom with actual programs, social policies, and concerns of the urban community. Sections of Victimology offering experiential learning credit will include tenets of *Philanthropic Learning* and related content regarding the non-profit sector, grant

writing and grant evaluation.

**Crosslisted:** SOC 320X

**CRJ 345 - Crime in the Media, 3 credit hours**

**Prerequisite(s):** SOC 100D or CRJ 165

This course provides an introduction to the relationship between media and crime in modern society. Topics include the prevalence of crime content in media, patterns in how crime is represented in various media forms, the economic, political, and cultural factors that influence how media present crime; the relationship between media content and fear of crime; and how crime in the media influences crime policy and the criminal justice system.

**CRJ 361 - Corrections, 3 credit hours**

The focus of this course will be upon acquainting the student with an analysis of sentencing, probation, parole and a diverse number of "critical issues" in penology. Such issues may include the prison environment, deterrence, rehabilitation, retribution, prison violence, capital punishment, prisoners' rights and reform of the system.

**CRJ 365 - Perspectives on Violence, 3 credit hours**

**Prerequisite(s):** SOC 100D or CRJ 165

Americans today seem to be much more concerned about crime, especially violent crime, than in years past. While this fear is understandable, careful consideration of the "violence problem" leads to different ideas than those generally held in the minds of most citizens and those broadcast on national television. This course is an interdisciplinary inquiry into the patterns and correlates of violence, its various forms, such as interpersonal and collective violence, and attempts to control its occurrence.

**Crosslisted:** SOC 365

**CRJ 395 - Independent Study, 1-4 credit hours**

**CRJ 398X - Internship, Credit hours to be arranged**

**Notes:** (Elective)

An internship with various criminal justice agencies is available to give students the opportunity to gain practical exposure to the workings of the criminal justice system. Criminal Justice majors are advised to see the director or assistant director of the Criminal Justice program regarding internship opportunities. Students must have junior or senior status to participate. Students should see the director/assistant director at least one semester before the semester that they plan to do the internship. Competitive internships will be announced and may have more stringent requirements. The availability of specific internships may vary. The for-credit internship registration process is handled via the Career Center Handshake platform. To register your internship for credit, please contact Career Center at [career@bw.edu](mailto:career@bw.edu).

**CRJ 459X - Faculty-Student Collaboration, Credit hours to be arranged**

**CRJ 464 - Integrative Seminar in Criminal Justice, 3 credit hours**

**Prerequisite(s):** Participation in Criminal Justice Program, Senior status (Junior or Senior status for Evening/Weekend CRJ majors).

This is a 400-level course limited to Criminal Justice majors or minors. A primary focus is to substantively analyze some of the key issues affecting the subsystems of law enforcement, courts, and corrections, particularly from an ethical, and where feasible, an interdisciplinary perspective. Students will also have an opportunity to explore career options within the criminal justice system.

**CRJ 495 - Independent Study, 1-4 credit hours**

**CRJ 498X - Internship, Credit hours to be arranged**

**Notes:** (Elective)

An internship with various criminal justice agencies is available to give students the opportunity to gain practical

exposure to the workings of the criminal justice system. Criminal Justice majors are advised to see the director or assistant director of the Criminal Justice program regarding internship opportunities. Students must have junior or senior status to participate. Students should see the director/assistant director at least one semester before the semester that they plan to do the internship. Competitive internships will be announced and may have more stringent requirements. The availability of specific internships may vary. The for-credit internship registration process is handled via the Career Center Handshake platform. To register your internship for credit, please contact Career Center at [career@bw.edu](mailto:career@bw.edu).

## Dance

### **DAN 120 - Ballet I Practicum, 1 credit hour**

This beginning level course is designed for students with little or no dance training. The class introduces students to the fundamentals of ballet technique by building a basic knowledge of vocabulary and skills. Students will learn, comprehend and execute movement while gaining an understanding of its relationship to music.

### **DAN 122 - Modern I Practicum, 1 credit hour**

This is a beginning level course designed to introduce students to the fundamentals of modern dance technique and discover how that technique allows the body to articulate and express through movement. In addition to physical skills, students will gain a basic knowledge of the history and development of modern dance.

### **DAN 161 - On-stage Experience, 1 credit hour**

After being cast in a play, a student may register for credit for on-stage experience. Registration with instructor's permission only.

**Graded:** S/U

### **DAN 201 - Injury Prevention and Health in the Performing Arts, 3 credit hours**

This course will provide the student with an opportunity to explore the health and safety issues peculiar to the performing arts (music, voice, theatre and dance), as well as define and develop health-promoting and wellness behaviors. The course will cover common performance related injuries and health issues and students will learn basic preventive strategies. Students will develop the skills necessary to appropriately examine health and safety-related issues pertinent to the performing artist as a healthy human being.

### **DAN 214I - Dance History, 3 credit hours**

**Notes:** Required of all dance minors.

A survey course of the history of dance. The course is designed to present to the student a broad overview of dance in various world cultures through the ages. Applicable to the fine arts requirement of the University core and the international studies requirement of the University core.

**Semesters Offered:** May be offered less frequently than once a year.

### **DAN 217D - Dance in America, 3 credit hours**

Course is designed to introduce the student to the vast discipline of dance. Students will view and read about dance as an art form and as a theatrical vehicle and become more aware of the analysis of form and style and elements of critique in the various genres of dance. The course will trace the American dance scene and its impact on and reflection of American culture. No previous knowledge and/or training in dance is required. Course applicable to cultural literacy and diversity requirement of University core. Some additional cost may be involved for purchase of performance tickets.

### **DAN 220 - Ballet II Practicum, 1 credit hour**

**Notes:** Required of all dance minors.

**Prerequisite(s):** DAN 120

This is a beginning/intermediate level course designed for students to continue developing their technical skills and



adding to their ballet vocabulary. Special emphasis will be placed on correct body alignment, spatial awareness, range of motion, and establishing habits that will promote a healthy and safe approach to performing movement.

**DAN 221 - Jazz II Practicum, 1 credit hour**

**Prerequisite(s):** ASW 121W

This beginning/intermediate level course focuses on increasing the movement vocabulary of jazz dance technique. Students will start to explore different forms of jazz and styles.

**DAN 222 - Modern II Practicum, 1 credit hour**

**Prerequisite(s):** DAN 122

This beginning/intermediate level course focuses on increasing the movement vocabulary of modern dance technique. Students will learn, comprehend and execute movement drawn from relevant techniques including Graham, Limon, postmodern and release. Special emphasis will be placed on floor work, alignment and spatial awareness in the performance of movement sequences, and establishing habits that will promote a healthy and safe approach to performing movement.

**DAN 223 - Tap II Practicum, 1 credit hour**

**Prerequisite(s):** ASW 123W

This beginning/intermediate level course focuses on increasing the movement vocabulary of tap. Students will start to explore different rhythms and tempos.

**DAN 263 - Seminar, 2-4 credit hours**

The study of topics relevant to dance. Sample topics include Flamenco Dance, Hip Hop and Partnering. May be repeated more than once, provided the subject or topic is different.

**DAN 295 - Independent Study, 1-4 credit hours**

**DAN 298X - Internship, Credit hours to be arranged**

Practical experience in any area of dance. The for-credit internship registration process is handled via the Career Center Handshake platform. To register your internship for credit, please contact Career Center at [career@bw.edu](mailto:career@bw.edu).

**DAN 320 - Ballet III Practicum, 1 credit hour**

**Notes:** Required of all dance minors.

**Prerequisite(s):** DAN 220

This intermediate level course focuses on continued development of classical ballet technique. Students will learn, comprehend and execute movement drawn from the ballet cannon. Special emphasis will be placed on phrasing and technical competence in the performance of extended combinations.

**DAN 321 - Jazz III Practicum, 1 credit hour**

**Prerequisite(s):** DAN 221

This intermediate level course focuses on continued development of jazz dance technique. Students will continue explore different forms and styles of jazz. Special emphasis will be placed on the competence in the performance of extended movement combinations.

**DAN 322 - Modern III Practicum, 1 credit hour**

**Prerequisite(s):** DAN 222

This intermediate level course focuses on continued development of modern dance technique. Students will learn, comprehend and execute movement drawn from relevant techniques including Graham, Limon, post-modern and release. Special emphasis will be placed on phrasing and technical competence in the performance of extended movement sequences, improvisational exercises and works from the modern dance repertoire.

**DAN 323 - Tap III Practicum, 1 credit hour****Prerequisite(s):** DAN 223

This intermediate level course focuses on continued development of tap dancing technique. Special emphasis will be placed on the competence in the performance of extended movement combinations and shading.

**DAN 324 - Hip Hop I, 1 credit hour**

This introductory course will include warm-up, progressions and choreography. The warm-up will focus on strengthening, stamina, flexibility, finding control in isolated movements, and creating specific lines. Progressions will emphasize weight and directional changes, rhythmic precision, and hip hop grooves. Students will use the information from warm-up and progressions to build choreographed routines. We will explore related hip hop techniques such as locking, popping, breaking and freestyle.

**DAN 331 - Improvisation & Choreography, 3 credit hours****Notes:** Required of all dance minors.**Prerequisite(s):** Consent of instructor

This course offers students an opportunity to explore and implement improvisational techniques as a tool for creating dance works. Students will be introduced to traditional and non-traditional dance making techniques through hands on exercises, video, and live performance. Final project will require students to create and present a finished choreographic work that illustrates the concepts learned in class. Students will be required to attend at least one dance concert during the semester. The final projects will be presented in a public forum.

**DAN 332 - Introduction to Teaching Dance/Movement, 2 credit hours****Notes:** Required of all dance minors

This course introduces students to the fundamentals of teaching dance in a studio setting, and prepares them to clearly interpret a choreographer's intentions so they can successfully lead a movement rehearsal in preparation for performance.

**DAN 395 - Independent Study, 1-4 credit hours****DAN 398X - Internship, Credit hours to be arranged**

Practical experience in any area of dance. The for-credit internship registration process is handled via the Career Center Handshake platform. To register your internship for credit, please contact Career Center at [career@bw.edu](mailto:career@bw.edu).

**DAN 420 - Ballet IV Practicum, 1 credit hour****Prerequisite(s):** DAN 320

This intermediate/advanced level course is designed for students with a thorough foundation in dance, that have completed Ballet I – III, and those who intend to have a career in the performing arts. Emphasis will be placed on refining classical ballet technique in traditionally structured classes consisting of barre work and extended center combinations. Students will also be challenged to improve their performance and partnering skills and learn and perform classical variations.

**DAN 421 - Jazz IV Practicum, 1 credit hour****Prerequisite(s):** DAN 321

This intermediate/advanced level course focuses on the continued development of jazz dance technique in varied styles, improvisation and is designed for students with a thorough foundation in jazz and who have completed Levels 1-3. Special emphasis will be placed on refining technique, phrasing and technical competence in the performance of extended movement combinations.

**DAN 423 - Tap IV Practicum, 1 credit hour****Prerequisite(s):** DAN 323

This intermediate/advanced level course focuses on the continued development of tap dancing, improvisation and is designed for students with a thorough foundation in tap and who have completed Levels 1-3. Special emphasis will

be placed on refining technique, phrasing and technical competence in the performance of extended movement combinations.

#### **DAN 424 - Hip Hop II, 1 credit hour**

**Prerequisite(s):** DAN 324

This course will focus on continued development of Hip Hop dance. Warm-up, progressions and choreography will be part of each class. A stronger emphasis will be placed on learning choreography quickly. Movements will be more intricate with challenges in musicality. We will continue to explore various styles of hip hop movement.

#### **DAN 425 - Pointe, 1 credit hour**

This is a beginning/intermediate level class. Students must get permission from the instructor to enroll, and be registered in another dance technique class during the same semester.

#### **DAN 495 - Independent Study, 1-4 credit hours**

#### **DAN 498X - Internship, Credit hours to be arranged**

Practical experience in any area of dance. The for-credit internship registration process is handled via the Career Center Handshake platform. To register your internship for credit, please contact Career Center at [career@bw.edu](mailto:career@bw.edu).

## **Data Science & Analytics**

#### **DSA 101 - Introduction to Data Science, 3 credit hours**

This is a survey course introducing the core components of data science. Topics include collecting and managing datasets, creating summaries and visualizations, performing statistical analyses, and communicating results to broad audiences. This course will make use of statistical software packages such as R or Python.

#### **DSA 201 - Data Colloquium, 1 credit hour**

**Notes:** Repeatable up to 4 credit hours.

The DSA Colloquium is a repeatable seminar course intended to augment the technical skills acquired elsewhere in the Data Science and Data Analytics programs. Topics include: practical issues in data science or data analytics; ethical considerations related to data; preparation for employment in data-related fields.

**Graded:** S/U

#### **DSA 301 - Data Practicum, 3 credit hours**

**Prerequisite(s):** DSA 101, CSC 280, and MTH 235 or Instructor Consent

The DSA Practicum is a project-based course designed to facilitate students working in teams under faculty supervision to solve meaningful data-oriented problems drawn from within the BW community or from external partners. Students will be responsible for meeting and communicating with clients and providing them with relevant deliverables. Students will also be required to deliver a presentation to clients and faculty at the end of the semester indicating the nature of their work and the status of the project.

#### **DSA 401 - Applied Machine Learning, 3 credit hours**

**Prerequisite(s):** MTH 235 or MTH 279 or FNC 280; and CSC 280. All with a "C" or better.

This course focuses on the use and application of machine learning tools, techniques, and algorithms to data analysis. We will explore the three main branches of machine learning: supervised, unsupervised, and reinforcement learning. We will examine common algorithms and applications to data analysis/prediction. You will gain hands-on, practical experience working with existing machine learning libraries to solve problems of interest.

#### **DSA 494 - Data Science Senior Capstone Project, 3 credit hours**

**Prerequisite(s):** Departmental Approval

Senior seminar course for advanced students. Students will be expected to engage with industry partners on a data science or data analytics project and provide frequent updates on projects.

**DSA 497X - Data Science and Analytics Internship, 3 credit hours**

**Prerequisite(s):** Senior Standing or Departmental Approval

Data Science or Analytics internship with an industry or community partner. The for-credit internship registration process is handled via the Career Center Handshake platform. To register your internship for credit, please contact Career Center at [career@bw.edu](mailto:career@bw.edu).

## Diversity Studies

**DST 295 - Independent Study, 1-4 credit hours**

**DST 395 - Independent Study, 1-4 credit hours**

**DST 463 - Seminar in Diversity Studies, 3 credit hours**

This is an integrative seminar intended to help students achieve an ability to deal with complex problems relating to the diversity of American society. The course is intended to help students integrate the knowledge they have acquired from their elective courses; conceptual issues will be of great importance. The seminar will culminate in a research paper or other appropriate project. The seminar, which may be team taught, will deal with selected topics chosen by the professors offering the course.

**DST 495 - Independent Study, 1-4 credit hours**

## Economics

**ECN 110 - Economics of Social Issues, 1-3 credit hours**

An introductory course designed to explore contemporary social issues using an economist's perspective. Emphasis placed on understanding context, economic principles, evidence, and alternative policy solutions. Three specific topics varying semester-to-semester. May include economics of crypto-currency and blockchain, universal basic income (UBI), superstars, public arts, health care, or fraud. Not a survey of economics course.

**ECN 120 - Survey of Economics, 3 credit hours**

Designed partially to fulfill the general curriculum requirement in social science. (Also see requirements for BUS minors and for EDU Middle Childhood.) A study of economic relationships, problems and institutions. ECN-120 may not be taken for credit if a student has already earned previous credit for ECN 121 and/or ECN 122.

**ECN 121 - Principles of Microeconomics, 3 credit hours**

Principles and problems of microeconomics: price, value and distribution. Economic decision making under different market structures is analyzed. Emphasis is placed on the efficient allocation of resources by firms and owners of the factors of production. VEE Approved Course by the Society of Actuaries.

**ECN 122 - Principles of Macroeconomics, 3 credit hours**

**Prerequisite(s):** ECN 121

Principles and problems of macroeconomics: national income, employment, inflation, economic growth, monetary and fiscal policies, international economics and alternative economic systems. VEE Approved Course by the Society of Actuaries.

**ECN 288X - Engineering Economics, 3 credit hours**

**Prerequisite(s):** MTH 142

A course for advanced students of Economics or Engineering. Topics and applications explored in the first half of this course will include: time value of money as applied to problems of investment, optimal search, product life, and optimal harvesting; benefit-cost problems as applied to infrastructure, bio-diversity, and community amenity projects;

problems in project selection as applied to risk management involving R&D projects. In the second half of the course, teams of students will address and solve a complex problem for a client in the local community.

**ECN 301 - Intermediate Economics I (Micro Theory), 3 credit hours**

**Prerequisite(s):** ECN 121

An in-depth intermediate level discussion of price and value theory, as well as distribution theory. The economic decision-making process of consumers, business firms and owners of factors of production operating under different market structures is given rigorous analysis.

**ECN 302 - Intermediate Economics II (Macro Theory), 3 credit hours**

**Prerequisite(s):** ECN 122

An in-depth intermediate level discussion of macroeconomics, including an analysis of income determination through the classical and Keynesian models. The analysis includes an examination of the theories of consumption and investment, the nature and causes of business cycles, and the determinants of economic growth.

**ECN 320 - Research Methods and Design, 2 credit hours**

**Prerequisite(s):** ECN 121, ECN 122 & MTH 279

**Corequisite(s):** ECN 321

A lecture-laboratory combination prepares students to conduct research in economics. Topics covered include research design and data collection, overview of the research process in economics, preparation of survey article, draft of a research proposal, and proficiency using a software application(s) for graphing, simulating, and computing.

**ECN 321 - Data Analysis Lab, 1 credit hour**

**Prerequisite(s):** ECN 121, ECN 122 & MTH 279

**Corequisite(s):** ECN 320

A lecture-laboratory combination prepares students to conduct research in economics. Topics covered include research design and data collection, overview of the research process in economics, preparation of survey article, draft of a research proposal, and proficiency using a software application(s) for graphing, simulating, and computing.

**ECN 325 - Economic Modeling, 3 credit hours**

**Prerequisite(s):** MTH 120/121 and MTH 279

**Corequisite(s):** One 300-level ECN course

Introduction to non-calculus based modeling techniques for solving economic problems mathematically and statistically.

**ECN 339 - Financial Intermediaries and Financial Institutions, 3 credit hours**

**Prerequisite(s):** ECN 120 or ECN 122

ECN 339 examines the role of the financial markets and financial intermediaries in the determination of interest rates and bond prices, and the money supply; the markets for stocks, bonds, foreign exchange, and other financial instruments; the U.S. commercial banking industry and other non-bank financial institutions; the analysis of bank performance; the U.S. Federal Reserve System and the role of the central bank in the financial markets and in the conduct of monetary policy.

**ECN 341 - US Economic History, 3 credit hours**

**Prerequisite(s):** ECN 120 or ECN 121, ECN 122

This course is a survey of the economic development of the United States. It emphasizes the development of commerce and industry, the structural changes in the economy, and the policy adaptations to these changes.

**ECN 344 - Game Theory, 3 credit hours**

**Prerequisite(s):** ECN 120 or ECN 121 or POL 101D

This course addresses the nature of competition and cooperation in economics and business, as well as how cooperative behavior evolves. The notion of Prisoner's Dilemmas and the means by which players and societies extract themselves from the dilemma of individual vs. social rationality will be our focus. We will ask whether purely

self-interested behavior is always in the "best" interests of the individuals involved or whether there are long-term benefits of cooperation.

**ECN 349D - Labor Economics, 3 credit hours**

**Prerequisite(s):** ECN 120 or ECN 121

Application of microeconomic theory to the analysis of the 21st century American labor market. Labor supply and demand, human capital investment, compensating wage differential, labor mobility, occupational segregation, labor market discrimination, and government policies are examined in the context of current trends and institutional features highlighting the differing employment experiences of men-women, racial and ethnic groups, and other marginalized groups in modern America.

**ECN 352 - Public Finance, 3 credit hours**

**Prerequisite(s):** ECN 121

A study of the economic basis for governmental activity. Emphasis is placed on efficiency, market failure, externalities, public goods and collective choice. The theory of taxation and tax incidence is discussed and applied to contemporary tax policy issues. Alternative means of financing government activity and the distribution of powers among governments in a federal system are analyzed.

**ECN 354 - Law and Economics, 3 credit hours**

**Prerequisite(s):** ECN 120 or ECN 121

This upper-level course presents an economic view of the justice system. Topics include principles of welfare economics as applied to property, contract, and tort law. It also examines the economics of deterrence of both financial and capital crime.

**ECN 356D - Urban & Regional Economics, 3 credit hours**

**Prerequisite(s):** ECN 120 or ECN 121

A study of growth and development of cities and regions. Economic theories of urban and regional development are studied. Topics include determinants of business location decisions, regional economic growth or decline, population shifts, employment opportunities, and inter/intra-regional competition and trade.

**ECN 358 - Environmental Economics, 3 credit hours**

**Prerequisite(s):** ECN 120 or ECN 121

A study of the economic approaches to environmental and natural resource issues. The study includes the ideas, concepts, and theories that have influenced economists in the formulation of environmental and natural resource policy. The greater emphasis will be on environmental economics.

**ECN 362 - Economics of Developing Countries, 3 credit hours**

**Prerequisite(s):** ECN 121 or ECN 122

A study of issues and problems of the economic development of emerging countries: concepts of development and growth, theories of development, domestic and international significance of development plans.

**ECN 365I - International Economics, 3 credit hours**

**Prerequisite(s):** ECN 120 or ECN 122

A study of the economic relations among the nations, the causes and effects of international specialization and exchange, structural changes in the international economy, and international economic policies. The course emphasizes (1) the theory of international trade and (2) the theory of international finance, including a unit on economic integration (common markets).

**ECN 371 - Applied Learning Seminar, 1-3 credit hours**

**Prerequisite(s):** Sophomore Standing & Instructor Permission

A guided, applied learning experience that can include collaborative learning and collaborative research with faculty, career mentoring, and other learning opportunities as approved by the Department Chair.

**ECN 379 - Intermediate Statistical Methods, 3 credit hours****Prerequisite(s):** MTH 279

A continuation of MTH 279 into intermediate statistical techniques and use of software for data analysis. Topics include both regression and time series analysis. Regression analysis covers least-squares estimation of parameters, hypothesis testing and confidence intervals in linear regression models, and testing of models, data analysis and diagnostics and correction of deviations from assumptions. Time series analysis covers estimation, data analysis, and forecasting with various time series models. Learners will choose a research question, perform an analysis, and produce a written report.

**ECN 380 - Financial Econometrics, 2 credit hours****Prerequisite(s):** ECN 379

A continuation of ECN 379 with a focused experience on data analysis and quantitative modeling of the financial sector of the economy using software.

**ECN 397X - Economics Internship, 1 credit hour****Prerequisite(s):** ECN 379

Economics Internship to be taken in the semester(s) following successful completion of ECN 379. The for-credit internship registration process is handled via the Career Center Handshake platform. To register your internship for credit, please contact Career Center at [career@bw.edu](mailto:career@bw.edu).

**ECN 459X - Faculty-Student Collaboration, Credit hours to be arranged****ECN 464 - Research Seminar, 3 credit hours****Prerequisite(s):** ENG 131; Completion of ECN 301, 302, 320/321, and 379 for Economics majors; for non-majors senior standing or permission of instructor.

This course is the capstone experience for economics majors. In this course students will use economic theory and data analysis to conduct an original research project using the scientific method, write a research report, and present the research.

## Education

**EDU 101X - Introduction to Education and Teaching, 3 credit hours****Prerequisite(s):** This course includes a field experience. To complete the experiential requirement, BOTH EDU 101X AND EDU 103DX must be completed at BW.

This course will introduce the beginning student in professional education to teaching at the various levels and licensure areas. Students will explore the foundation of American education; emerging models of teaching; structural reforms; diversity of learners; multicultural education; state and national standards; and issues and trends affecting education. In addition to the scheduled class time, a 15 clock-hour field observation will be required as part of the course requirements.

**EDU 103DX - Education of Children with Special Needs, 2 credit hours****Prerequisite/Corequisite:** EDU 101X may be taken concurrently. For music therapy or music education students either MUC 151 or MUC 171X are co or prereqs. This course includes a field experience (**one day meets in class, one day is devoted to field experience**). To complete the experiential requirement, BOTH EDU 101X and EDU 103DX must be completed at BW.

This is a survey course designed to introduce the students to characteristics of learners with special learning, physical and emotional needs. Public laws, court cases, teaching and accommodation strategies will be explored as they relate to trends in reaching students with disabilities, gifts and talents, and diverse cultural needs in both special education and inclusive K-12 settings.

*A field experience is required.*

**EDU 104DX - Introduction to Inclusive Early Childhood Education, 3 credit hours**

**Notes:** This is a survey course designed to introduce the students to characteristics of learners with special learning, physical and emotional needs. Public laws, court cases, teaching and accommodation strategies will be explored as they relate to trends in reaching students with disabilities, gifts and talents, and diverse cultural needs. A field experience is required.

**EDU 114 - 21st Century Productivity Tools, 1 credit hour**

This course provides students with a foundation for the effective use of technology for their own learning experience and for their preparation as effective 21st Century professionals. Topics include digital citizenship, copyrights, podium management, and technology platforms. Also included is a review of common software and hardware employed for presentations, productivity, and to encourage individuals' responses and interactions to enhance learning. The successful student will complete the course with the skills needed for managing multiple types of professional documents in various contexts across several digital platforms.

**EDU 203 - Theoretical Foundations in Inclusive Early Childhood Education, 3 credit hours**

**Corequisite(s):** May be taken concurrently with EDU 204

This course is designed to provide students with an overview of programs in early childhood education for grades Pk-5th grade. Attention will be given to the early childhood profession, its historical, philosophical, and social foundations, and how they influence current thought and practice. The purpose of the course is to develop candidates' understanding of the theoretical underpinnings that influence instruction in early childhood education. The course will provide the theoretical basis, which guides teaching and learning. This course includes a 25-hour field experience in a preschool setting. These observation hours must be completed in addition to the contact hours required of the course.

*This course includes a 25 hour field experience in a preschool setting.*

**EDU 204 - Phonics and Spelling Development, 3 credit hours**

**Prerequisite(s):** Completion of 100 level EDU courses

**Corequisite(s):** May be taken concurrently with EDU 203

This course focuses on phonics content and developmental spelling. Students will learn strategies for teaching phonics and spelling in the literacy curriculum.

**EDU 205 - Introduction to Middle Childhood Education, 3 credit hours**

**Prerequisite(s):** PSY 100; Completion of 100 level EDU courses.

Students will study the philosophy, curriculum organization, and goals of middle childhood education. The nature of emerging adolescent learners and teaching methodologies unique to this population will be emphasized.

**EDU 206 - Introduction to Adolescent Education, 3 credit hours**

**Prerequisite(s):** Completion of 100 level EDU courses

**Prerequisite/Corequisite:** PSY 325

This course is an overview of adolescent education. Topics include: educating the adolescent in the 21st century; how biological and physiological changes impact the teenager and how teachers approach these unique needs; the needs of the adolescents with disabilities; structures of adolescent learning environments; building relationships with all adolescents.

**EDU 207 - Planning and Guiding Young Children in the Inclusive Early Childhood Setting, 3 credit hours**

**Prerequisite(s):** EDU 203

**Corequisite(s):** EDU 214

In this course, students will examine factors which are necessary to create responsive learning environments for young children. They will also learn to plan developmentally appropriate instruction and will consider the varied curricular domains of effective early childhood programs. This course will further introduce students to techniques for guiding, supporting, and encouraging young children's positive behavior using Positive Behavior Support Interventions (PBIS).



**EDU 210 - Family, School, and Community Dynamics for the Inclusive Early Childhood Setting, 3 credit hours**

**Prerequisite(s):** EDU 207

This course will provide students with knowledge to develop the educational environment for students. The skills to develop a solid plan to communicate with parents and community partners will be highlighted, in order to learn how to garner support.

*A community-based field experience is required.*

**EDU 211D - Exploring Education in a Diverse Society, 3 credit hours**

**Prerequisite(s):** ENG 131 and Sophomore standing

The aim of the course is to sensitize teacher education candidates and other interested students to the differing needs of children/adolescents and to foster an exploration of their beliefs and experiences with regard to issues of diversity. Participants in the course will understand critical concepts of teaching and learning in a multi-cultural classroom. A field experience is required.

This course meets the Writing Extension Core requirement.

**EDU 212 - Teaching and Learning, 3 credit hours**

**Prerequisite(s):** Completion of all 100-level EDU coursework and field experiences; PSY 100; and either MUC 171X, EDU 205, EDU 206 or EDU 274

Candidates will develop and apply the following content knowledge and pedagogical skills related to teaching: the importance of Ohio's Learning Standards in planning; accommodating diversity among students; developing methods and strategies for the effective delivery of instruction; forms of assessment during the learning process; and beginning skills in classroom management. A field experience is required.

**EDU 214 - Media Resources for the Education Professional, 2 credit hours**

**Prerequisite(s):** Completion of 100 level EDU courses

This course introduces and provides hand-on activities with audio, video, and on-line tools in an educational context. The successful candidate will complete the course with a portfolio of media and on-line work samples suitable for making instructional decisions and designing learning activities appropriate for pre-K-12 students and teacher presentations.

**EDU 221 - Language Development and Emergent Literacy in the Inclusive Setting, 3 credit hours**

**Prerequisite(s):** Completion of 100 level EDU courses; & EDU 204.

Students will study techniques, materials, and theories of language acquisition and early literacy development. Topics include language development, oral language instruction, and teaching strategies to support emerging readers and writers (ages 3-8).

**EDU 273 - Internship in Inclusive Early Childhood Education I, .5 credit hours**

**Prerequisite(s):** EDU 203

Internship in Inclusive Early Childhood Education I is an extended, supervised field experience with limited university classroom meetings. Students participate in various activities that follow a developmental sequence applicable to ECE licensure programs. The field experience will be completed within a Pk-5 classroom.

**Graded:** S/U

**EDU 274 - Introduction to Students with Mild/Moderate Educational Needs, 3 credit hours**

**Prerequisite(s):** Completion of 100 level EDU courses

This course is a study of historical and current definition, characteristics, and needs of students with Mild/Moderate Educational Needs (ages 5-21), and how they change through the lifespan. Focus will be on academic, behavioral, and social assessment and interventions based on current research and inclusive, co-teaching models.

*A field experience is required.*

**EDU 275 - Professional Collaboration and Transition Development, 3 credit hours**

**Prerequisite(s):** EDU 103DX&nbsp;& EDU 274.

This course provides an emphasis on collaboration and partnerships with other professionals, paraprofessionals, and

parents as team members designing, implementing, and evaluating appropriate educational experiences for persons with disabilities. Characteristics (e.g., SES, cultural background, language, environmental effects, disciplinary/supervisory practices) of families and their effects on teaming, curriculum, instruction will be explored. Additionally, the course will cover topics related to the transition of students with mild/moderate educational needs from special education settings to the general education classroom, from one level of school to the next and from school to community. Issues, resources, techniques to make successful transitions will be explored.

#### **EDU 295 - Independent Study, 1-4 credit hours**

#### **EDU 301 - Arts Integration in the Inclusive Early Childhood Education Classroom, 3 credit hours**

**Prerequisite(s):** EDU 207; and either ART 102I or MUL 172

This course introduces IECE students to the concepts of Art and Music integration in regular classroom instruction. Throughout the course students will learn techniques to integrate different art and music techniques into early childhood regular education curriculum to enhance lessons and improve student achievement and appreciation of the arts.

#### **EDU 306 - Differentiated Instruction and Assessment, 3 credit hours**

**Prerequisite(s):** All EDU 200-level courses. Completion of Core Math.

Students will study the foundations of assessment and differentiate instruction for varied student needs. Students will be able to: differentiate lessons; design formative and summative assessments using a variety of formats and resources; analyze various assessments and interpret the data; design and implement differentiated assessments based on students' diverse needs.

#### **EDU 311 - Assessment and Data Based Decision Making for Inclusive Early Childhood Settings, 3 credit hours**

**Prerequisite(s):** EDU 207

**Corequisite(s):** Must be taken concurrently with EDU 323 & EDU 333.

This course introduces students to assessment strategies appropriate for use in early childhood learning settings. Alternatives to formal standardized testing including naturalistic, authentic, and performance assessment will be investigated. The course addresses current issues relevant to assessment in early childhood education. Students will learn strategies of data-based decision making.

*A field experience is required.*

#### **EDU 312 - Classroom Learning Environment, 3 credit hours**

**Prerequisite(s):** PSY 100; PSY 315 or PSY 325; EDU 205 or EDU 212

This course will examine the psychological and physiological impact of the development of the adolescent/young adult learner for how to create a classroom environment that is conducive to learning for all learners (including those of diverse backgrounds and special needs), how to manage classroom tasks, and how manage student behaviors. A field experience is required.

#### **EDU 314 - 21st Century Classroom Technology, 1 credit hour**

**Corequisite(s):** Must be taken concurrently with methods course(s)

The technology laboratory is delivered in the form of mini workshops and one-on-one facilitation. Candidates will be supported during their methods coursework and field experiences as they develop a range of skills to complete assignments and lessons that infuse and integrate technology. The lab must be taken concurrently with the content methods course associated with the candidates' major teaching field(s).

#### **EDU 315 - Second Language Acquisition & Pedagogy for the English Language Learner, 3 credit hours**

**Prerequisite(s):** EDU 211D & Sophomore Standing.

This course will provide an introduction to the psycholinguistics, sociolinguistics and issues relating to learning English as a Second Language. The course will also cover theories of Second Language Acquisition and various approaches to teaching English to speakers of other languages. A field experience is required.

**EDU 316 - Assessment & Evaluation Tools for the ESL Classroom, 3 credit hours****Prerequisite(s):** EDU 211D, EDU 315

In this course, enrolled students will discuss formative and summative assessments specific to the English Language Learner in the K12 classroom. Enrolled students will develop an understanding of how to assess or evaluate the English Language Learner's progress in the development of his/her proficiency in both academic and social language. A field experience is required.

**EDU 318 - K-12 Online Teaching, 2 credit hours****Prerequisite(s):** EDU 101X, EDU 103DX, and EDU 214.

This course will introduce pre-service educators to the basic principles of Online Teaching and Learning. It is geared to the various levels and licensure areas with focus on Course Design, Online Instruction, Student Engagement and Assessment. Candidates will explore the foundation of teaching in an online environment and the responsibilities of an online teacher. The coursework will include ways in which both the teacher and students use technology to examine current trends and gain an understanding of the appropriate integration of technology and instruction. Candidates will connect online teaching and learning to current emerging models of teaching as well as state and national standards.

**EDU 323 - Processes & Inquiry in Science/Social Studies for the Inclusive Early Childhood Setting, 3 credit hours****Prerequisite(s):** Completion of all 100 and 200 level EDU courses**Corequisite(s):** Must be taken concurrently with EDU 311 & EDU 333

This course is based on an integrated approach to giving young children the opportunity to develop the skills and problem solving approaches needed to understand concepts in science and social studies. Students will learn to use hands-on, inquiry-based approaches to instruction in science and social studies.

*A field experience is required.*

**EDU 324 - Supporting Diverse Learners in Early Childhood Classrooms, 3 credit hours****Prerequisite(s):** EDU 207**Corequisite(s):** EDU 323, EDU 333, EDU 337, EDU 348, EDU 373X

In this course, candidates will examine factors, which are necessary to support all learners in the classroom. An array of special needs diagnoses will be reviewed, and planning to support each will be discussed as well as put into action in lesson planning. Candidates will get an opportunity to examine IEPs and IEP data to utilize for lesson planning and assessment purposes.

**EDU 333 - Reading Instruction in the Inclusive Early Childhood Setting, 3 credit hours****Prerequisite(s):** Completion of all 100 and 200 level EDU courses.**Corequisite(s):** Must be taken concurrently with EDU 323 & EDU 311.

Students will study the techniques, materials and philosophical approaches to literacy instruction for children ages 3-8. This will include topics such as comprehension instruction, vocabulary development, emergent writing, motivation, and instruction for diverse learners (ELL).

*A field experience is required.*

**EDU 337 - Mathematics Instruction in the Inclusive Early Childhood Setting I, 3 credit hours****Prerequisite(s):** MTH 113; Completion of all 100 and 200 level EDU courses.**Corequisite(s):** Must be taken concurrently with EDU 314, EDU 434.

Students will study the methods and materials applicable to teaching mathematics to children ages 3-8. A problem-solving approach will be emphasized.

*A field experience is required.*

**EDU 343 - Literacy Instruction with Adolescents, 3 credit hours****Prerequisite(s):** Middle Childhood students take EDU 204, EDU 205, EDU 211D, & EDU 212, & EDU 214.

Adolescent Young Adult students take EDU 206, & EDU 212, & EDU 214.

Students will study the techniques, materials, and philosophical approaches to reading instruction for students ages

8-14. Included are topics such as: reading comprehension, word identification, reading in the content areas, integrating literacy instruction across the curriculum, using literature to teach reading, assessment and teaching reading in diverse classrooms.

*A field experience is required.*

**EDU 345 - Social Studies Instruction in Middle Childhood Education, 3 credit hours**

**Prerequisite(s):** PSY 100; Completion of all 100 and 200 level EDU courses.

Students will study materials and teaching strategies applied to the social studies curriculum for students ages 10-14.

*A field experience is required.*

**EDU 346 - Science/Health Instruction in Middle Childhood Education, 3 credit hours**

**Prerequisite(s):** PSY 100; Completion of all 100 and 200 level EDU courses.

Students will study the methods and materials used in the science/health curriculum for students ages 10-14.

*A field experience is required.*

**EDU 347 - Mathematics Instruction in Middle Childhood Education, 3 credit hours**

**Prerequisite(s):** MTH 111; MTH 112 or MTH 113; Completion of all 100 and 200 level EDU courses.

**Corequisite(s):** EDU 374X

Students will study the materials and teaching techniques applicable to teaching mathematics to students ages 10-14. A problem-solving approach will be emphasized.

*A field experience is required.*

**EDU 348 - Reading in the Content Area, 3 credit hours**

**Prerequisite(s):** PSY 100; Completion of all 100 and 200 level EDU courses.

This course is a study of strategies for teaching reading in the content areas. It is required for Middle Childhood and Multi-Age majors.

*A field experience is required.*

**EDU 349 - Literacy Assessment & Remediation for Adolescents, 3 credit hours**

**Prerequisite(s):** Completion of 100 and 200 level EDU courses; & EDU 333 or EDU 343.

Students will study assessment and remediation techniques for teaching adolescents who are experiencing difficulty with reading and writing. This course is designed for students preparing to teach AYA English, Middle Childhood, or adolescents in Mild/Moderate Education.

*A field experience is required.*

**EDU 358 - Reading in the Content Area: AYA, 3 credit hours**

**Prerequisite(s):** PSY 100; Completion of all 100 and 200 level EDU courses.

**Corequisite(s):** EDU 314 and EDU 475X.

This course is a study of strategies for teaching reading in the content areas. It is required for AYA majors.

*A field experience is required.*

**EDU 373X - Internship in Inclusive Early Childhood Education II, .5 credit hours**

**Prerequisite(s):** EDU 207

Internship in Inclusive Early Childhood Education II is an extended, supervised field experience with limited university classroom meetings. Students participate in various activities that follow a developmental sequence applicable to ECE licensure programs. The field experience will be completed within a PK-5 classroom.

**Graded:** S/U

**EDU 374X - Internship in Middle Childhood Education I, 1 credit hour**

**Prerequisite(s):** Completion of all 200-level EDU courses.

**Corequisite(s):** EDU 348

This course is an extended, supervised field experience for Middle Childhood Education candidates with scheduled university meetings. MCE candidates will observe, plan, and teach a series of lessons in an authentic middle school

setting (grades 4-9).

**Graded:** S/U

**EDU 375X - Internship for Intervention Specialists I, 1 credit hour**

**Prerequisite(s):** 100 and 200 level EDU courses

**Corequisite(s):** EDU 347, EDU 348, EDU 349, EDU 378

This course is an extended, supervised field experience for Intervention Specialist Education candidates with limited university meetings. Candidates will observe, plan, and teach a series of literacy and math lessons along with collecting behavioral data, analyzing and creating positive behavior support plans for students with disabilities in an authentic middle school setting (grades 4-9).

**Graded:** S/U

**EDU 376X - Internship for Intervention Specialists II, 1 credit hour**

**Prerequisite(s):** 100 and 200 level EDU courses

**Corequisite(s):** EDU 323, EDU 333, EDU 394, EDU 437

This course is an extended, supervised field experience for Intervention Specialist Education candidates with limited university meetings. Candidates will observe, plan, and teach a series of literacy, science, social studies and math lessons along with providing remediation in an authentic early childhood setting (grades K - 5).

**Graded:** S/U

**EDU 377 - Academic/Life Skills Assessment and Data-Based Decision Making for Students with Special Needs, 3 credit hours**

**Prerequisite(s):** Core Math, EDU 103DX & EDU 274.

This course is the study of the use of formal and informal diagnostic instruments used for planning individual instruction for students with mild/moderate educational needs. Includes authentic, portfolio, curriculum-based, performance, and alternative assessment as well as standardized tests. Procedures for using such information for placement decisions and on IEPs are discussed. A field experience is required.

**EDU 378 - Promoting Social-Emotional Development in the Inclusive Early Childhood Setting, 3 credit hours**

**Prerequisite(s):** Completion of all 100 level EDU courses; & EDU 274

This course is a study of classroom management approaches for learners ages 5-21, including behaviorist, psychodynamic, environmental, and biophysical models with their legal and ethical implications. Baseline data collection, target behaviors, token economies, contracts and certificates, group processes, medical interventions, and classroom arrangements behavior management and intervention planning are discussed.

*A field experience is required.*

**EDU 379 - Internship in Inclusive Early Childhood Education III, .5 credit hours**

**Prerequisite(s):** EDU 207

Internship in Inclusive Early Childhood Education III is an extended, supervised field experience with limited university classroom meetings. Students participate in various activities that follow a developmental sequence applicable to ECE licensure programs. The field experience will be completed within a Pk-5 classroom.

**Graded:** S/U

**EDU 393 - Young Children with Medical and Intensive Needs, 3 credit hours**

**Prerequisite(s):** EDU 210 & EDU 311

**Prerequisite/Corequisite:** EDU 378

Focuses on the medical, legal, educational implications of providing educational services for children with health care needs of young children (i.e., birth through fifth grade). Content will explore the etiology of medical/health conditions that educators will encounter and their role as part of an interdisciplinary team. Includes strategies for cross-disciplinary assessment, planning, technology use, and program implementation. Emphasis on collaborating with other professions including such physical, occupational, and speech therapy; psychology; and other health-related fields. Key areas covered include eligibility, free appropriate public education, individualized education programs, placement, LRE, delegable nursing tasks, do not resuscitate, individualized healthcare plans.

**EDU 394 - Curriculum and Intentional Instructional Strategies in the Inclusive Early Childhood Setting, 3 credit hours**

**Prerequisite(s):** EDU 103DX, EDU 274&nbsp;& EDU 377.

This course is designed to give an understanding of the K-12 curriculum to students who are seeking the Intervention Specialist license in Mild/Moderate Educational Needs. Integrated content methods and accommodations in reading/language arts, math, science/health, and social studies will be explored. Methods and materials used to teach these students with mild/moderate educational needs (ages 5-21) will be examined.

*A field experience is required.*

**EDU 395 - Independent Study, 1-4 credit hours**

**EDU 415 - Clinical Practice in Mild/Moderate Educational Needs, 5 credit hours**

**Corequisite(s):** Must be taken concurrently with EDU 492. No additional coursework may be taken without the Dean's approval.

This is a period of guided teaching of students with mild/moderate educational needs under the direction of a certificated/licensed special educator. This half-semester experience is completed by candidates seeking dual licensure in mild/moderate educational needs and another licensure/program area. Application required.

**EDU 417 - Clinical Practice in Early Childhood Education, 4 credit hours**

**Corequisite(s):** Must be taken concurrently with EDU 492. No additional coursework may be taken without the Dean's approval.

This is a supervised program of observation, participation and classroom teaching experiences in an early childhood setting. This half-semester experience is completed by candidates seeking dual licensure in mild/moderate educational needs and early childhood education. Application required.

**EDU 418 - Clinical Practice in Middle Childhood Education, 4 credit hours**

**Corequisite(s):** Must be taken concurrently with EDU 492. No additional coursework may be taken without the Dean's approval.

This is a supervised program of observation, participation and classroom teaching experiences in two chosen subject areas in a middle childhood setting. This half-semester experience is completed by candidates seeking dual licensure in mild/moderate educational needs and middle childhood education. Application required.

**EDU 419 - Clinical Practice in Adolescent Young Adult/Multi-Age Education, 4 credit hours**

**Corequisite(s):** Must be taken concurrently with EDU 492. No additional coursework may be taken without the Dean's approval.

This is a supervised program of observation, participation and classroom teaching experiences in a secondary school. This half-semester experience is completed by candidates seeking dual licensure in mild/moderate educational needs and adolescent young adult/multi-age education. Application required.

**EDU 434 - Diagnostic and Remedial Reading Methods in the Inclusive Early Childhood Setting, 3 credit hours**

**Prerequisite(s):** Completion of core math; all 100 and 200 level EDU courses; and either EDU 333 or EDU 343.

**Corequisite(s):** Must be taken concurrently with EDU 314, EDU 337.

Students will study diagnostic and remedial techniques for teaching reading to students who are experiencing difficulty in reading. This course is designed for students preparing to teach in early childhood, middle childhood, and mild/moderate educational needs settings. This course meets the Quantitative Extension Core requirement.

*A field experience is required.*

**EDU 435 - Climate, Culture, and Inclusive Early Childhood Settings, 3 credit hours**

**Prerequisite(s):** EDU 207

**Corequisite(s):** EDU 434, EDU 436, EDU 437, EDU 473X

In this course, candidates will examine factors, which are necessary to create positive and supportive learning environments for young children. The practical application of classroom leadership techniques in establishing a

climate and culture conducive to higher-level learning will be developed and practiced. Field experience is required for this class.

**EDU 436 - Differentiated Instruction and Co-Teaching in the Inclusive Early Childhood Setting, 3 credit hours**

**Prerequisite(s):** EDU 207

**Corequisite(s):** EDU 434, EDU 435, EDU 437, EDU 473X

In this course, candidates will examine factors, which are integral to the success of all styles of learners in the classroom. Differentiated instruction (DI) is the key to creating a classroom where all students are challenged and supported to achieve the highest level. Areas to be focused on are theories of DI, styles of learners, techniques of DI including kinesthetic learning. Field experience is required for this class.

**EDU 437 - Mathematics Instruction in the Inclusive Early Childhood Setting II, 3 credit hours**

**Prerequisite(s):** EDU 207

**Corequisite(s):** EDU 434, EDU 435, EDU 436, EDU 473X

Students will study the methods and materials applicable to teaching mathematics to children grades 3rd-5th. A problem-solving approach will be emphasized. Field experience is required for this class.

**EDU 450 - World Language Methods of Instruction, 3 credit hours**

**Prerequisite(s):** EDU 306 and EDU 312

The study of methods and materials applicable to teaching foreign language to students in Grades PK-12. *A field experience is required.*

**EDU 451 - Integrated Language Arts Methods of Instruction, 3 credit hours**

**Prerequisite(s):** EDU 306 and EDU 312

**Corequisite(s):** EDU 314, EDU 358, and EDU 475X

The study of methods and materials applicable to teaching integrated language arts to adolescents and young adults in Grades 7-12.

**EDU 454 - Visual Arts Methods of Instruction, 3 credit hours**

**Prerequisite(s):** EDU 306 and EDU 312

The study of methods and materials applicable to teaching the visual arts to students in Grades PK-12.

**EDU 455 - Integrated Social Studies Methods of Instruction, 3 credit hours**

**Prerequisite(s):** EDU 306 and EDU 312

**Corequisite(s):** EDU 314, EDU 358, and EDU 475X

The study of methods and materials applicable to teaching integrated social studies to adolescents and young adults in Grades 7-12.

**EDU 456 - Integrated Science Methods of Instruction, 3 credit hours**

**Prerequisite(s):** EDU 306 and EDU 312

**Corequisite(s):** EDU 314, EDU 358, and EDU 475X

The study of methods and materials applicable to teaching integrated science to adolescents and young adults in Grades 7-12.

**EDU 457 - Integrated Mathematics Methods of Instruction, 3 credit hours**

**Prerequisite(s):** EDU 306 and EDU 312

**Corequisite(s):** EDU 314, EDU 358, and EDU 475X

The study of methods and materials applicable to teaching mathematics to adolescents and young adults in Grades 7-12.

**EDU 462 - Action Research for the Inclusive Early Childhood Setting, 3 total credit hours**

**Notes:** completed over 2 semesters

**Prerequisite(s):** EDU 207

In this course, candidates will examine practices of action research for the classroom. Action research is an increasingly important point in classroom teachers Professional Development planning and being able to provide their students with the newest and best practices for achievement. Candidates will work with administration and cooperating teacher of field placement to determine an area of need in their placement school. Candidates will research need, and create a project to implement to address need, collect data, and draw conclusions to chart a course of action to improve determined need. Field experience is required for this class.

**Graded:** S/U

**EDU 473X - Internship in Inclusive Early Childhood Education IV, .5 credit hours**

**Prerequisite(s):** EDU 207

Internship in Inclusive Early Childhood Education IV is an extended, supervised field experience with limited university classroom meetings. Students participate in various activities that follow a developmental sequence applicable to ECE licensure programs. The field experience will be completed within a Pk-5 classroom.

**Graded:** S/U

**EDU 474 - Internship in Middle Childhood Education II, 1 credit hour**

**Prerequisite(s):** EDU 374X

Internship in Middle Childhood Education is an extended, supervised field experience with limited university classroom meetings. Students participate in various activities that follow a developmental sequence applicable to the MCE licensure program. The field experience will be completed within same MCE classroom for Clinical Practice.

**Graded:** S/U

**EDU 475X - Internship in Adolescent/Young Adult and Multi-Age Education, 2 credit hours**

**Prerequisite(s):** EDU 306 and EDU 312

**Corequisite(s):** Must be taken concurrently with EDU 314, EDU 348 or EDU 358, and methods (EDU 450, EDU 451, EDU 454, EDU 455, EDU 456, or EDU 457)

Internship in Adolescent/Young Adult and Multi-Age Education is an extended, supervised field experience during which students will observe and then teach in their licensure area in a middle, junior high, or high school setting. The experience will follow a developmental sequence in which students gradually assume responsibility for instruction and assessment in their field placements. The field experience is required and will be about two hours a day, Monday - Friday for approximately 12 weeks.

**Graded:** *Course graded S/U*

**EDU 478 - Clinical Practice in Mild/Moderate Educational Needs (Lic+Masters), 4 credit hours**

**Corequisite(s):** EDU 492 No additional coursework may be taken without the Dean's approval. .

This is a half semester period of guided teaching of students with mild/moderate educational needs under the direction of a certificated/ licensed special educator. Application required.

**EDU 480 - Clinical Practice in Inclusive Early Childhood Education, 9 credit hours**

**Corequisite(s):** Must be taken concurrently with EDU 492. No additional coursework may be taken without the Dean's approval.

This is a supervised program of observation, participation and classroom teaching experiences in an early childhood setting. Application required.

**EDU 481 - Clinical Practice in Middle Childhood Education, 9 credit hours**

**Corequisite(s):** Must be taken concurrently with EDU 492. No additional coursework may be taken without the Dean's approval.

This is a supervised program of observation, participation and classroom teaching experiences in two chosen subject areas in a middle childhood setting. Application required.



**EDU 484 - Clinical Practice in Mild/Moderate Educational Needs, 9 credit hours**

**Corequisite(s):** Must be taken concurrently with EDU 492. No additional coursework may be taken without the Dean's approval.

This is a period of guided teaching of students with mild/moderate educational needs under the direction of a certificated/licensed special educator. Application required.

**EDU 487 - Clinical Practice, Adolescent Young Adult, 9 credit hours**

**Corequisite(s):** Must be taken concurrently with EDU 492. No additional coursework may be taken without the Dean's approval.

This is a supervised program of observation, participation and classroom teaching experiences in a secondary school. Application required.

**EDU 490 - Clinical Practice, Multi-Age Education, 9 credit hours**

**Corequisite(s):** Must be taken concurrently with EDU 492. No additional coursework may be taken without the Dean's approval.

This is a supervised program of observation, participation and classroom teaching experiences in elementary, middle and/or secondary schools. Requests for student teaching assignments are limited to schools within a specified distance from Baldwin Wallace University. Placements are made by the School of Education, not by the individual student.

**EDU 491 - Clinical Practice in Music Education, 9 credit hours**

**Corequisite(s):** Must be taken concurrently with EDU 492. No additional coursework may be taken without the Dean's approval.

This is a supervised program of observation, participation and classroom teaching experiences in a music classroom setting. Application required.

**EDU 492 - Senior Capstone Seminar, 3 credit hours**

**Corequisite(s):** Must be taken concurrently with Clinical Practice

The senior seminar is a capstone course required of all students seeking licensure to teach and is taken concurrently with the clinical practice. It provides an opportunity to synthesize learning from previous course work, field experiences and the clinical practice experience. Reflection, discussion and individual and group activities are used to achieve course objectives. The culminating project is the development of a professional portfolio.

**EDU 495 - Independent Study, 1-4 credit hours**

**EDU 500 - Advanced Study in Teaching & Learning, 1-4 credit hours**

This course is designed to encompass a variety of topics of interest and current need for the professional development of teachers and other post-baccalaureate educators. Coursework will include theory and evidence-based practice. Courses will include an application component that might be applied in the educators' classroom or other appropriate educational setting. The course may be repeated when offered with new topics.

**EDU 504 - Phonics and Spelling Development, 3 credit hours**

This course focuses on phonics content and developmental spelling. Students will learn strategies for teaching phonics and spelling in the literacy curriculum.

**EDU 505 - The Teaching Profession, 2 credit hours**

The Teaching Profession course is the first course in the plan of study for the MAEd in Science or Mathematics Teaching. The course will provide students with introductory and foundational information about the profession of teaching. Students will examine the knowledge, skills, and dispositions of effective teaching and how Baldwin Wallace University School of Education prepares students to become reflective decision makers who are contributing, compassionate, and competent educators.

**EDU 510 - Educational Studies, 3 credit hours**

This course provides an overview of the historical, philosophical and sociological foundations of education with the intent of providing the opportunity to formulate, discuss and evaluate educational policies and practices as they relate to the classroom.

**EDU 511 - Using Evidence, Research, and Data in Education, 3 credit hours**

This introductory course focuses on research techniques and data collection, reporting, and interpreting of educational research. The candidate will have the opportunity to relate research to classroom practice and data-driven decisions.

**EDU 512 - Psychological Foundations, 3 credit hours**

**Prerequisite(s):** EDU 101X & EDU 103DX

Teaching the student in grades 7 through 12 requires a working understanding of the developmental intricacies emerging throughout the adolescent years. This includes integrating the physical, cognitive, and social-emotional changes from the onset of puberty to the formation of a stable identity along with the psychological foundations specific to the adolescent learner. Therefore, educators in this course will examine the implications of developmental factors for learning and teaching the middle school and high school student.

**EDU 514 - Instructional Technology Tools & Resources, 3 credit hours**

This is an introductory course in educational technology. Candidates will be introduced to a variety of technology tools and digital resources that support 21<sup>st</sup> Century teaching and learning to include productivity, communication, and collaborative devices. Candidates will design a comprehensive thematic unit using instructional strategies to integrate technology into the curriculum. Also covered are the multitude of issues that impact the uses of technology, the role of technological innovations, and the opportunities presented by technology in the teaching and learning environments.

**EDU 515 - Digital Media & Project-Based Learning, 3 credit hours**

**Prerequisite(s):** EDU 514

This course expands on the pre-production, production and postproduction of digital media, particularly video and audio. These media will be in the context of K-12 classroom technology integration into existing curricula by both teachers and students. Topics to be examined in media production are best practices, scripting & storyboarding of productions, responsible use of digital media in education, aligning media productions to common core standards, and making video and audio that learners can engage with at any time in any place. Candidates will create their own practical classroom media and will learn how to publish and share their productions with a target audience. Also covered in this course will be project-based learning and the use of technology tools as a means to extend the process of inquiry.

**EDU 516 - Instructional Design & Technology Integration, 3 credit hours**

**Prerequisite(s):** EDU 514

**Corequisite(s):** EDU 525 required for students pursuing technology endorsement only.

The focal point of this course is the integration of technology through the use of multimedia as a method to address students' learning styles. The course expands on the use of productivity tools, communication & collaborative devices, and the creative and effective educational design of multimedia. Topics covered include 21<sup>st</sup> Century learning skills, social aspects of computing, and computer-supported cooperative work. This course develops instructional systems design competencies appropriate for the development of computer-assisted instruction applications. Candidates will complete the semester with a technology toolbox filled with digital resources they can readily access for teaching and learning.

**EDU 517 - Teacher Leadership: Technology Planning & Implementation, 3 credit hours**

**Prerequisite(s):** EDU 514

**Corequisite(s):** EDU 526 required for students pursuing technology endorsement only.

This course is designed to allow learners to explore the many issues surrounding the planning and implementation of technology in educational settings. The issues include, but are not limited to, the following: technology teacher

leadership roles, the development of a technology resources to assure effective and efficient uses of technology that support the instructional and administrative functions of a school; an understanding of basic network concepts & applications, grant writing, implementing and managing local, state and federal policies; professional development; and the complex relationships that exist within the scope of educational technology planning.

**EDU 518 - Online Teaching & Learning, 3 credit hours**

**Prerequisite(s):** EDU 514

This course investigates the many technological tools and methodologies of teaching and learning in the online environment to include both real-time (synchronous) and anytime, anywhere (asynchronous) interactions. Topics covered include desktop video conferencing, electronic field trips in the classroom, simulation education, communicative and collaborative devices, and virtual schools on the worldwide web. This course focuses on a variety of educational opportunities available in the online and blended learning platforms to include student-centered learning, collaboration, and access to multimedia global resources. Emphasis on quality standards for implementation of online courses will also be stressed.

**EDU 520 - Issues & Trends in Educational Technology, 3 credit hours**

**Prerequisite(s):** EDU 514

This course is a culminating experience in educational technology, which integrates and extends the content of other specialization courses. Learning modules are designed to offer an in-depth and practical look at issues and trends facing today's learning environments. The research components allow candidates to further explore topics that are of interest to them. Dynamic multimedia deliveries of student-led presentations are followed by the facilitation of a Q&A with peers to create an optimal hands-on online experience. Some topics to be covered are computer privacy, censorship, online assessment, assistive technology, copyright, emerging technologies, ethics and grantsmanship. Topics will vary with terms.

**EDU 521 - Leadership in Higher Educ Internship I, 3 credit hours**

**Notes:** Required of all Leadership in Higher Education candidates

A four-semester, twenty-hour per week internship in a student affairs or academic affairs unit. Supervised by the department manager. Evaluated by the supervisor, University liaison and candidate using a common rubric reflecting program outcomes.

**EDU 522 - Leadership in Higher Educ Internship II, 3 credit hours**

**Notes:** Required of all Leadership in Higher Education candidates

A four-semester, twenty-hour per week internship in a student affairs or academic affairs unit. Supervised by the department manager. Evaluated by the supervisor, University liaison and candidate using a common rubric reflecting program outcomes.

**EDU 523 - Leadership in Higher Educ Internship III, 3 credit hours**

**Notes:** Required of all Leadership in Higher Education candidates

A four-semester, twenty-hour per week internship in a student affairs or academic affairs unit. Supervised by the department manager. Evaluated by the supervisor, University liaison and candidate using a common rubric reflecting program outcomes.

**EDU 524 - Leadership in Higher Educ Internship IV, 3 credit hours**

**Notes:** Required of all Leadership in Higher Education candidates

A four-semester, twenty-hour per week internship in a student affairs or academic affairs unit. Supervised by the department manager. Evaluated by the supervisor, University liaison and candidate using a common rubric reflecting program outcomes.

**EDU 525 - Tech-Integration Field Experience I, 1 credit hour**

**Prerequisite(s):** EDU 514

**Corequisite(s):** EDU 516

The field experience(s) in the Educational Technology program consist of classroom and school system- based

activities that allow candidates to integrate coursework and apply their knowledge and skills in educational settings. Activities are designed by candidates and supervised by University and school personnel to meet the six major components of the ISTE Standards for Coaches: Visionary Leadership; Teaching, Learning, and Assessments; Digital Age Learning Environments; Professional Development and Program Evaluation; Digital Citizenship, and Content Knowledge and Professional Growth. The goal of the first field experience is to allow candidates at the outset of the course to explore possible field activities and plan for their implementation with the support of an onsite mentor. Activities will then further their understanding of educational technology theory practice and to experience the practical aspects of technology facilitation.

### **EDU 526 - Leadership Field Experience II, 2 credit hours**

**Corequisite(s):** EDU 517

The field experience(s) in the Educational Technology program consist of classroom and school system- based activities that allow candidates to integrate coursework and apply their knowledge and skills in educational settings. Activities are designed by candidates and supervised by University and school personnel to meet the six major components of the ISTE Standards for Coaches. The goal of the second field experience is to encourage candidates to take on leadership roles within their education settings. Students will be asked to become a part of a technology committee, develop a technology proposal addressing a district/organizational need or interest, and then facilitating the professional development necessary to support staff in implementation. As technology coaches, candidates will demonstrate professional knowledge, skills, and dispositions in content, pedagogical, and technological areas as well as adult learning and leadership in order to deepen their knowledge and expertise.

### **EDU 530 - Capstone for Leadership in Technology, 1 credit hour**

**Prerequisite(s):** All MAEd Leadership in Technology Program Courses

This Capstone course will serve to integrate the skills and conceptual outcomes from each of the program's courses and provides facilitated support for the creation of the capstone digital portfolio assessment. Students are expected to combine the program's technical skills and concepts with sound pedagogy and instruction as defined within the structure of the International Society for Technology in Education (ISTE) National Educational Technology Standards for Coaches. Students will use the many projects they have created and collected throughout the program and develop a unifying theme that correlates the artifacts with the above-mentioned standards. In addition, this course will cover the assessment framework of the ODE Computer/Technology Subtest 016 & 017 in order to prepare candidates seeking this endorsement. Technical expertise is expected to be demonstrated in addition to a complete understanding of standards based education.

### **EDU 531 - Integrative Seminar, 1 credit hour**

Integrative seminars are offered to candidates in the Master of Education in Science Teaching program. The seminars are repeated three (3) times throughout the 4 semester program. Classes are focused on immediate needs for candidates preparing to enter the classroom and offer professional information and support once the field and clinical experiences begin.

### **EDU 532 - Assessment and Data Literacy, 3 credit hours**

**Prerequisite(s):** EDU 101X & EDU 103DX

Students will study elements of measurement, assessment, grading systems, and interpretation of classroom and value-added data. Students will construct tests, develop a grading system, demonstrate knowledge of formative and summative assessments, interpret data to identify student needs in diverse settings, and develop an evidence-based educational intervention to address the identified needs.

### **EDU 533 - Teaching Strategies & Management Skills, 3 credit hours**

**Prerequisite(s):** EDU 101X & EDU 103DX

Candidates will study the following: understanding the role of a teacher as a reflective decision maker; planning for instruction; accommodating for the needs of all students; developing strategies for the effective delivery of instruction; aligning a variety of assessments to the learning target. Effective classroom management strategies, including the development of a comprehensive three-stage classroom management plan will be developed along with analyzing

and applying researched-based best practice instructional strategies and reflecting on the responsibilities of a professional educator.

**EDU 534 - Methods in AYA Science Teaching, 5 credit hours**

This course is a study of the methods, materials and pedagogy used in the instructor of science curriculum for children ages fourteen through eighteen. This course will provide the instructional strategies that are needed to compliment the content learned in the candidates' respective undergraduate fields, the pedagogy required for the basis of these strategies, and opportunities to practice these methods under expert supervision. The practical course lessons are based on sound educational research and have been tested in the field by several experienced professionals.

**EDU 535 - Clinical Practice in AYA Teaching, 9 credit hours**

**Prerequisite(s):** All coursework completed in MAE in Science Teaching program except EDU 532

**Corequisite(s):** EDU 531 & EDU 532

Clinical Practice is a supervised program of observation, participation, and classroom teaching experiences in an AYA setting. An application is required.

**EDU 541 - Foundations of Reading & Language Arts, 3 credit hours**

**Notes:** Required of all Literacy candidates

This course is a study of the developmental stages of reading and writing, with a specific focus on the 21st Century Skills of critical thinking and problem solving, effective communication and collaboration, and positive interactions with persons across various social and cultural groups. It is an overview of the historical trends and the current theories and models of the reading and writing process.

**EDU 542 - Teaching Reading in the Content Area, 3 credit hours**

This course is an in-depth analysis of content area reading materials and instructional teaching strategies. Specifically, it focuses on the 21st century skills of information literacy and media literacy. Topics in the course will emphasize the importance of critical thinking and problem solving in teaching and learning in the content areas. Candidates will study issues and trends in content area reading instruction and will be encouraged to think and work creatively with others and communicate ideas clearly.

**EDU 543 - Diagnostic and Corrective Reading Methods, 3 credit hours**

**Notes:** Required of all Literacy candidates.

**Prerequisite(s):** EDU 541 (or waiver)

This course is a study of selected evaluation procedures, remedial techniques and causes and correlates of reading problems. It includes practice in planning, implementing and reporting on a diagnostic evaluation.

**EDU 544 - Practicum in Reading, 3 credit hours**

**Notes:** Required of all Literacy candidates.

**Prerequisite(s):** EDU 541 (or waiver); EDU 543 and EDU 547

Candidates will evaluate children who have been referred for reading difficulties. They will plan and implement a remedial program for the children.

*(50 hours of clinical experience required.)*

**EDU 545 - Research in Literacy Education, 3 credit hours**

**Notes:** Required of all Literacy candidates.

**Prerequisite(s):** EDU 541 (or waiver)

This course is a study of a variety of research methods in literacy education with emphasis on research designed by teachers to be conducted in classrooms. The course will include an overview of current reading research in areas such as comprehension, vocabulary instruction, word recognition, and writing.

**EDU 546 - Child and Adolescent Literature, 3 credit hours**

**Notes:** Required of all Degree-Seeking Literacy candidates

This course is a survey of literature for children and adolescents with attention to criteria and procedures for selecting works appropriate to specific student needs and curriculum objectives.

**EDU 552 - Assessment and Instruction for the Gifted Learner, 3 credit hours**

This course offers participants the opportunity to explore curriculum models and modifications for gifted students in both self-contained and inclusion classes. Participants will consider the role of pre-assessment in differentiated instruction and will develop sample curriculum and assessment tools that are tailored to the needs of gifted students.

**EDU 553 - Nature and Needs of the Gifted Learner, 3 credit hours**

This survey course will provide foundational knowledge of the gifted learner. The course will provide a study of the background of gifted education's history and philosophy, as well as research, theory and practice of identification and program models. It focuses on gifted/talented students' unique learning, behavioral characteristics, developmental patterns, and associated needs and issues, including special populations and accommodations.

**EDU 557 - Special Methods in Secondary Mathematics, 5 credit hours**

Students will study methods and materials applicable to teaching mathematics to adolescents and young adults in grades 7-12. A problem solving approach will be emphasized, centered about the Eight Mathematical Practices of the Common Core. Course will examine mathematics teaching based upon research concerning how adolescents/young adults learn, best practices as modeled through a developmental (constructivist) approach, the National Council of Teachers of Mathematics (NCTM) Standards, the Mathematical Association of America (through the National Research Council), and the Ohio Academic Content Standards for mathematics.

**EDU 558 - Public Policy Dimensions of Higher Education, 3 credit hours**

This course helps students to understand higher education through an examination of both U.S. and state public policymaking processes in general and selected historical and current public policy. Legal issues that have significantly influenced higher education will also be explored.

**EDU 560 - History/Philosophy of Higher Education, 3 credit hours**

**Notes:** Required of all Leadership in Higher Education candidates

Assessment and analysis of the goals of U.S. colleges and universities with reflection on their historical development. Included is an analysis of the current state of post-secondary education including changing student populations, evolving delivery systems, and accountability movements as they affect both academic and student affairs functions. Both private and public institutions, with an emphasis on community colleges, will be explored.

**EDU 561 - Student & Adult Development in Higher Education Practice, 3 credit hours**

**Notes:** Required of all Leadership in Higher Education candidates

An examination of theories describing traditional aged and adult students' growth and change in relationship to the University experience. The application of these theories to programs and practices in student and academic affairs will be assessed. Students will plan programs that reflect the theoretical bases and, where possible, implement and evaluate their effectiveness.

**EDU 562 - Funding and Finance in Higher Education, 3 credit hours**

**Notes:** Required of all Leadership in Higher Education candidates

An examination of the sources of funding for colleges and universities in various Carnegie categories and across private and public institutions. The role of fundraising in current higher education practice, including grant-making and gift-giving. Also included are comparisons of budgeting strategies, tuition pricing, and the effect of market forces on higher education.

**EDU 563 - Advanced Topics in Special Education, 3 credit hours**

**Notes:** Required of all Mild/Moderate Educational Needs candidates.

**Prerequisite(s):** EDU 573

This course provides the Master's candidate an opportunity to critically analyze and evaluate contemporary issues impacting the field of Special Education. The proponents of issues will be discussed as well as potential explanations of their opinions. The issues will be discussed by considering their impact on student, parent, general and special educator, public school systems, and government. Discussions will consider present and future effects upon Special Education. Students will be conversant in pressing issues of Special Education and able to coherently relate these issues to colleagues. The course will help prepare the graduate student as a leader in the field.

**EDU 564 - Ethical Leadership in Higher Education, 3 credit hours**

**Notes:** Required of all Leadership in Higher Education candidates

An overview of the effective academic and student affairs leaders. Topics include leadership theory and style as well as details on typical administrative tasks – staff evaluation and development, budgeting strategies, and ethical decision-making. Students will look at the role of grant-writing in creative, entrepreneurial leadership.

**EDU 565 - Workshop, 3 credit hours**

Topics to be announced. May be used for renewing certification.

**EDU 566 - Diversity in Higher Education, 3 credit hours**

**Notes:** Required of all Leadership in Higher Education candidates

An examination of the current status of college/university's management of diversity issues. Students will explore college/university efforts to diversify students' experience and the roles of academic affairs and student affairs in these efforts. Students will also examine programs and practices focused on attracting and retaining diverse students. Issues specific to underrepresented groups on campus, including those of international students, will be addressed.

**EDU 567 - Theory & Assessment of Educational Environ., 3 credit hours**

An examination of environmental theories as they affect human behavior. Students will assess a variety of campus living and learning environments and employ environmental theory to propose ways to enhance the University experience for all students. Required for interns in Residence Life.

**EDU 569 - Counseling Theory and Practice, 3 credit hours**

An overview of counseling theories and practices for the higher education administrator. Major counseling theories will be introduced. Emphasis will be placed on career development theories as they relate to the University student. Students will be introduced to career counseling assessment tools. Elementary counseling skills will be introduced with in-class activities allowing for practice and development.

**EDU 570 - Capstone Seminar/ Portfolio Development, 0 credit hours**

**Notes:** Required of all Leadership in Higher Education candidates

This seminar includes direction in the development of a professional portfolio and a demonstration project.

**EDU 571 - Practicum in Student Affairs, 2 credit hours**

A field experience in a student affairs setting. The experience is project-based to allow for an indepth understanding on one or more functions of the department.

**EDU 572 - Practicum in Academic Affairs, 2 credit hours**

A field experience in an academic affairs setting. The experience is project-based to allow for an in-depth understanding on one or more functions of the department.

**EDU 573 - Education of Children with Special Needs, 3 credit hours**

**Notes:** Required of all Mild/Moderate Educational Needs candidates.

**Prerequisite/Corequisite:** Prerequisite: May be taken concurrently with EDU 574

This is a survey course designed to introduce the candidates to characteristics of learners with special learning, physical, and emotional needs. Public laws, court cases, teaching and accommodations strategies will be explored as

they relate to trends in reaching students having disabilities, gifts and talents, and diverse cultural needs both in special education and in inclusive K–12 settings.  
(15 hours of field experience required)

**EDU 574 - Introduction to Students with Mild/Moderate Educational Needs, 3 credit hours**

**Notes:** Required of all Mild/Moderate Educational Needs candidates.

**Prerequisite/Corequisite:** May be taken concurrently with EDU 573

This course is a study of historical and current definitions, characteristics, and needs of students with mild/moderate educational needs, and how they change through their lifespan. Focus is on academic, behavioral, and social assessment and interventions based on current research and practices in various settings, including resource and inclusive, co-teaching models. Included will be exercises in reading Evaluation Team Reports and writing Individual Education Plans. A field experience is required.

**EDU 575 - Professional Collaboration and Transition Development, 3 credit hours**

**Notes:** Required of all Mild/Moderate Educational Needs candidates.

**Prerequisite(s):** EDU 573, EDU 574

This course provides an emphasis on collaboration and partnerships with other professionals, paraprofessionals, and parents as team members designing, implementing, and evaluating appropriate educational experiences for persons with disabilities. Characteristics (e.g., SES, cultural background, language, environmental effects, disciplinary/supervisory practices) of families and their effects on teaming, curriculum, instruction will be explored. Additionally, the course will cover topics related to the transition of students with mild/moderate educational needs from special education settings to the general education classroom, from one level of school to the next and from school to community. Issues, resources, techniques to make successful transitions will be explored.

**EDU 576 - Classroom Management for Students with Mild/Moderate Educational Needs, 3 credit hours**

**Notes:** Required of all Mild/Moderate Educational Needs candidates.

**Prerequisite(s):** EDU 573

This course is a study of classroom management approaches for learners 5-21, including behaviorists, psychodynamic, environmental, and biophysical models with their legal and ethical implications. Baseline data collection, target behaviors, token economies, contracts and certificates, group processes, medical interventions, classroom arrangements, behavior management, and intervention planning are discussed. A field experience is required.

**EDU 577 - Assessment for Students with Mild/Moderate Educational Needs, 3 credit hours**

**Notes:** Required of all Mild/Moderate Educational Needs candidates.

**Prerequisite(s):** EDU 573, EDU 574

This course is the study of the use of formal and informal diagnostic instruments used for planning individual instruction for students with mild/moderate educational needs. Includes authentic, portfolio, curriculum-based, performance, and alternative assessment as well as standardized tests. Procedures for using such information for placement decisions and on IEPs are discussed. A field experience is required.

**EDU 578 - Clinical Practice in Mild/Moderate Education, 5 credit hours**

**Notes:** Required of all License+Master's candidates.

**Prerequisite(s):** All Methods and Mild/Moderate Educational Needs Courses.

This course is designed for candidates who are not participating in the summer practicum, who have done their regular education student teaching. This experience would be 1/2 semester in length.

**EDU 579 - Practicum in Mild/Moderate Educational Needs, 3 credit hours**

**Prerequisite(s):** All Mild/Moderate Educational Needs Courses

Guided teaching of students with mild/moderate educational needs in a supervised setting during the summer. For teachers currently teaching in a special education classroom, half of the field experience can be completed in their own setting in the spring by permission only.

(75 hours clinical experience required.)



**EDU 580 - Intro to School Leadership, 3 credit hours**

**Notes:** Required of all School Leadership candidates

This course is aligned with the National Educational Leadership Preparation (NELP) Building Standards (1-3), Ohio's Standards for Principals (2018) (1, 2, 6) and the administrative knowledge, dispositions, and performances needed in today's diverse school environments. Leadership and learning theories and practices that promote the success of all students will be studied and applied. The candidates will be expected to have a working knowledge of all standards and will apply that knowledge through research, applied activities, simulations, and reflections. Special topic speakers and panels of practicing building/district leaders from the field are included as part of the periodic live virtual sessions.

**EDU 581 - Teaching & Learning, 3 credit hours**

**Prerequisite(s):** EDU 580

This course is aligned with the National Educational Leadership Preparation (NELP) Building Standards (1,3,4), Ohio's Standards for Principals (2018) (3,4,6,9) and the administrative knowledge, dispositions, and performances needed in today's 21st century learning environment. The candidates will understand and demonstrate the capacity to promote the current and future success and well-being of each student and adult by applying the knowledge, skills, and commitments necessary to evaluate, develop, and implement coherent systems of curriculum, instruction, data systems, supports, and assessment. Special topic speakers and panels of practicing building/district leaders from the field are included as part of the periodic live virtual sessions.

**EDU 582 - Staff Evaluation & Professional Development, 3 credit hours**

**Notes:** Required of all School Leadership candidates.

**Prerequisite(s):** EDU 580

This course is aligned with the National Educational Leadership Preparation (NELP) Building Standards (6-7), Ohio's Standards for Principals (2018) (5) and the administrative knowledge, dispositions, and performances needed to build the school's professional capacity, engage staff in the development of a collaborative professional culture, and improve systems of staff supervision, evaluation, support, and professional learning for certified and non-certified staff. Certified evaluation modules include the identification and use of high-quality student assessments and data. Data analysis is applied in the context of identifying areas of targeted staff needs for professional development, including the development of a targeted professional development plan that is specifically sustained, intensive, job-embedded, collaborative, data-driven and classroom-focused. Evidence-based professional development strategies will be reviewed and applied as appropriate in the development of professional development plans, including the use of measures of effectiveness as part of a comprehensive professional development plan. Special topic speakers and panels of practicing building/district leaders from the field are included as part of the periodic live virtual sessions.

**EDU 583 - Continuous Improvement Planning, 3 credit hours**

**Notes:** Required of all School Leadership candidates.

**Prerequisite(s):** EDU 580

This course is aligned with the National Educational Leadership Preparation (NELP) Building Standards (1,3-7), Ohio's Standards for Principals (2018) (6-10) and the administrative knowledge, dispositions, and performances needed to understand and demonstrate the capacity to promote the current and future success and well-being of each student and adult by applying the knowledge, skills, and commitments necessary to collaboratively lead, design, and implement a school mission, vision, and process for continuous improvement that reflects a core set of values and priorities that include data use, technology, equity, diversity, digital citizenship, and community. Special topic speakers and panels of practicing building/district leaders from the field are included as part of the periodic live virtual sessions.

**EDU 584 - Pupil Services & Community Resources, 3 credit hours**

**Notes:** Required of all School Leadership candidates.

**Prerequisite(s):** EDU 580

This course is aligned with the National Educational Leadership Preparation (NELP) Building Standards (1-7), Ohio's Standards for Principals (2018) (1-10) and the administrative knowledge, dispositions, and performances needed to promote the current and future success and well-being of each student and adult by applying the knowledge, skills, and commitments necessary to develop and maintain a supportive, equitable, culturally responsive, and inclusive

school culture. In addition, candidates will learn about evidence-based strategies to engage families, community, and school personnel in order to strengthen student learning, support school improvement, and advocate for the needs of their school and community. Special topic speakers and panels of practicing building/district leaders from the field are included as part of the periodic live virtual sessions.

### **EDU 585 - Legal & Ethical Issues, 3 credit hours**

**Notes:** Required of all School Leadership candidates.

**Prerequisite(s):** EDU 580

This course is aligned with the National Educational Leadership Preparation (NELP) Building Standards (1-2), Ohio's Standards for Principals (2018) (1-2) and the administrative knowledge, dispositions, and performances needed to promote the current and future success and well-being of each student and adult by applying the knowledge, skills, and commitments necessary to promote the current and future success and well-being of each student and adult by applying the knowledge, skills, and commitments necessary to understand and demonstrate the capacity to advocate for ethical decisions and cultivate and enact professional norms. Candidates will learn about and apply key federal and state legal policies in the context of case studies and scenarios. Special topic speakers and panels of practicing building/district leaders from the field are included as part of the periodic live virtual sessions.

### **EDU 586 - School Leadership Internship I, 3 credit hours**

**Notes:** Required of all School Leadership candidates.

**Prerequisite(s):** EDU 580, EDU 581, EDU 583, EDU 584, and EDU 585

Candidates successfully complete an internship under the supervision of knowledgeable, expert practitioners that engage candidates in multiple and diverse school settings and provides candidates with coherent, authentic, and sustained opportunities to synthesize and apply the knowledge and skills identified in NELP standards 1–7 in ways that approximate the full range of responsibilities required of building-level leaders and enable them to promote the current and future success and well-being of each student and adult in their school. Each semester will consist of periodic virtual or on site check-in sessions with the university supervisor and logging of a minimum of 150 hours of activity experience and/or project work in the assigned school building as well as diverse district(s) typologies from across all standards areas. Candidates will be paired with a licensed, practicing school administrator (principal) during each semester. The final assessment for each semester for the internship will consist of a triangulation of data from the practicing school administrator, the candidate, and the university supervisor.

### **EDU 587 - School Leadership Internship II, 3 credit hours**

**Notes:** Required of all School Leadership candidates.

**Prerequisite(s):** EDU 580, EDU 581, EDU 582, EDU 583, EDU 584, EDU 585, and EDU 586

Candidates successfully complete an internship under the supervision of knowledgeable, expert practitioners that engage candidates in multiple and diverse school settings and provides candidates with coherent, authentic, and sustained opportunities to synthesize and apply the knowledge and skills identified in NELP standards 1–7 in ways that approximate the full range of responsibilities required of building-level leaders and enable them to promote the current and future success and well-being of each student and adult in their school. Each semester will consist of periodic virtual or on site check-in sessions with the university supervisor and logging of a minimum of 150 hours of activity experience and/or project work in the assigned school building as well as diverse district(s) typologies from across all standards areas. Candidates will be paired with a licensed, practicing school administrator (principal) during each semester. The final assessment for each semester for the internship will consist of a triangulation of data from the practicing school administrator, the candidate, and the university supervisor.

### **EDU 588 - Management of Resources, 3 credit hours**

**Notes:** Required of all School Leadership candidates.

**Prerequisite(s):** EDU 580

This course is aligned with the National Educational Leadership Preparation (NELP) Building Standards 6, 7), Ohio's Standards for Principals (2018) (7, 9, 10) and the administrative knowledge, dispositions, and performances needed to promote the current and future success and well-being of each student and adult by applying the knowledge, skills, and commitments necessary to improve management, communication, technology, school-level governance, and operation systems to develop and improve data-informed and equitable school resource plans and to apply laws,

policies, and regulations. Special topic speakers and panels of practicing building/district leaders from the field are included as part of the periodic live virtual sessions.

**EDU 589 - Contemporary Issues for School Leaders, 3 credit hours**

**Notes:** Required of all School Leadership candidates.

**Prerequisite(s):** EDU 580

This seminar course is aligned with the National Educational Leadership Preparation (NELP) Building Standards (1-7), Ohio's Standards for Principals (2018) (1-10) and the administrative knowledge, dispositions, and performances needed to promote the current and future success and well-being of each student and adult by applying the knowledge, skills, and commitments in the context of current issues in education. Candidates will be engaged in simulations and case study discussions within the areas of mission, vision and improvement; ethics and professional norms; equity, inclusiveness and cultural responsiveness; learning and instruction; community and external leadership; operations and management; and building professional capacity. As a seminar course, live virtual sessions will occur bi-weekly to allow for small group discussions of the topics and readings under study.

**EDU 590 - Methods of Teaching Students with Mild/Moderate Educational Needs, 3 credit hours**

**Prerequisite(s):** EDU 512, EDU 514, EDU 541, EDU 542, EDU 543, EDU 573, EDU 574, EDU 575, EDU 577

**Corequisite(s):** EDU 576

Students will study the techniques, materials and philosophical approaches to literacy instruction for children with disabilities in grades K-12. This will include topics across the curriculum.

**EDU 594 - Remediation Across the Curriculum, 3 credit hours**

**Notes:** Required of all Mild/Moderate Educational Needs candidates.

**Prerequisite(s):** EDU 573, EDU 574, EDU 577

This course is designed to give an understanding of the K-12 curriculum to students who are seeking the Intervention Specialist license in Mild/Moderate Educational Needs. Integrated content methods and accommodations in reading/language arts, math, science/health, and social studies will be explored. Methods and materials used to teach these students with mild/moderate educational needs (ages 5-21) will be examined.

**EDU 596 - Culturally Responsive Curriculum & Instruct., 3 credit hours**

**Notes:** Required of all Teaching & Learning candidates

In this course, candidates will develop the ability to integrate multicultural perspectives in the material they teach and the instruction they employ. Candidates will develop methods of teaching 21st Century skills such as effective social and cross-cultural communication and effective team work in diverse environments. Field application of knowledge and skills required.

**EDU 597 - Differentiation in Effective Learning Environ., 3 credit hours**

**Notes:** Required of all Teaching & Learning candidates

Candidates will explore research-based instructional strategies that effectively meet the needs of diverse learners. Included are approaches for students with diverse learning abilities, from diverse socio-economic backgrounds, and with English as an emerging language. Candidates will be able to think creatively, reason effectively, make judgments and decisions to solve problems in order to plan and assess differentiated instructional strategies as an outcome of this course. Additionally, candidates will be able to communicate clearly as they collaborate and work creatively with others to produce integrated outcomes in this process. Field application of knowledge and skills required.

**EDU 598 - Capstone Experience, 3 credit hours**

**Notes:** Required of all Teaching & Learning candidates

Candidates will focus on integrating their experiences in the teaching and learning specialization while developing the leadership skills of effective teachers. These include collaboration with other teachers; developing partnerships with community, businesses and parents; and garnering necessary resources. Candidates will be guided in the development of their professional portfolio in this course.

**EDU 600 - The Superintendency in the 21st Century, 3 credit hours**

This course is aligned with the Council for the Accreditation of Educator Preparation (CAEP) standards (RA1.1), National Educational Leadership Preparation (NELP) District Standards (1-2), Ohio's Standards for Superintendents (2008) (1, 2) and the administrative knowledge, dispositions, and performances needed in today's diverse school district environments. This course includes: vision building; continuous improvement planning; use of data; and strategies for achieving district goals; communication and collaboration skills; policies and governance of the school district; community collaboration; governance issues; school board development and relations; policy and strategy development. The candidates will be expected to have a working knowledge of all standards and will apply that knowledge through research, applied activities, simulations, and reflections. Special topic speakers and panels of practicing building/district leaders from the field are included as part of the periodic live virtual sessions.

**EDU 601 - The Focus on Student Learning, 3 credit hours**

This course is aligned with the Council for the Accreditation of Educator Preparation (CAEP) standards (RA1.1-1.3), National Educational Leadership Preparation (NELP) District Standards (3-4), Ohio's Standards for Superintendents (2008) (4) and the administrative knowledge, dispositions, and performances needed in today's diverse school district environments.) and the administrative knowledge, dispositions, and performances needed in today's 21st century learning environment. The candidates will understand and demonstrate the capacity to promote the current and future success and well-being of each student and adult by applying the knowledge, skills, and commitments necessary to evaluate, develop, and implement coherent systems of curriculum, instruction, data systems, supports, and assessment. This course includes: a focus on quality instruction; creation of a comprehensive assessment system; high-quality professional development; standards-based instruction; professional development; research-based/evidence-based practices. Special topic speakers and panels of practicing building/district leaders from the field are included as part of the periodic live virtual sessions.

**EDU 602 - The School District Focus, 3 credit hours**

This course is aligned with the Council for the Accreditation of Educator Preparation (CAEP) standards (RA1.1-1.4), National Educational Leadership Preparation (NELP) District Standards (5, 6, 7), Ohio's Standards for Superintendents (2008) (2, 3, 5) and the administrative knowledge, dispositions, and performances needed to lead and manage the complex resources and stakeholder interactions of today's school districts. This course includes topics related to the cost effective management of district resources: materials; human capital management; district facilities and operations; fiscal resources; buildings and transportation. Topics also include: school law and finance; ethics; staff evaluation; board policy; advocacy; and board relations. Special topic speakers and panels of practicing building/district leaders from the field are included as part of the periodic live virtual sessions.

**EDU 603 - The Internship for the Superintendency I, 1 credit hour**

**Corequisite(s):** EDU 600

The internship runs parallel to the coursework in EDU 600. This course is aligned with the National Educational Leadership Preparation (NELP) District Standards (1-2), Ohio's Standards for Superintendents (2008) (1, 2) and the administrative knowledge, dispositions, and performances needed in today's diverse school district environments. Candidates work with a district-approved mentor and university supervisor to gain experience and develop plans related to: vision building; continuous improvement planning; use of data; and strategies for achieving district goals; communication and collaboration skills; policies and governance of the school district; community collaboration; governance issues; school board development and relations; policy and strategy development. The candidates will be expected to log a minimum of 86 hours within the standard areas emphasized in EDU 600. Special topic speakers and panels of practicing building/district leaders from the field are included as part of the periodic live virtual sessions.

**EDU 604 - The Internship for the Superintendency II, 1 credit hour**

**Corequisite(s):** EDU 601

The internship runs parallel to the coursework in EDU 601. This course is aligned with the National Educational Leadership Preparation (NELP) District Standards (3-4), Ohio's Standards for Superintendents (2008) (4) and the administrative knowledge, dispositions, and performances needed in today's diverse school district environments. Candidates work with a district-approved mentor and university supervisor to gain experience and develop plans related to: a focus on quality instruction; creation of a comprehensive assessment system; high-quality professional

development; standards-based instruction; professional development; research-based/evidence-based practices. The candidates will be expected to log a minimum of 86 hours within the standard areas emphasized in EDU 601. Special topic speakers and panels of practicing building/district leaders from the field are included as part of the periodic live virtual sessions.

### **EDU 605 - The Internship for the Superintendency III, 1 credit hour**

**Corequisite(s):** EDU 602

The internship runs parallel to the coursework in EDU 602. This course is aligned with the National Educational Leadership Preparation (NELP) District Standards (5-7), Ohio's Standards for Superintendents (2008) (2, 3, 5) and the administrative knowledge, dispositions, and performances needed in today's diverse school district environments. Candidates work with a district-approved mentor and university supervisor to gain experience and develop plans related to: district resources, materials, and human resources management; district facilities and operations; fiscal resources; school law and finance; buildings and transportation. The candidates will be expected to log a minimum of 86 hours within the standard areas emphasized in EDU 602. Special topic speakers and panels of practicing building/district leaders from the field are included as part of the periodic live virtual sessions.

### **EDU 606 - District Decision-Making for Evidence-Based Improvement, 3 credit hours**

This course is aligned with the Council for the Accreditation of Educator Preparation (CAEP) standards (RA1.1), National Educational Leadership Preparation (NELP) District Standards (1, 4, 6), Ohio's Standards for Superintendents (2008) (1, 4, 5) and the administrative knowledge, dispositions, and performances needed to lead and manage the complex decisionmaking processes faced by today's district school leaders that must be grounded in research and evidence. This course includes: data analytics, decision science, data visualization, data tools, district decision making (functional and strategic), educational data mining, school evidence-based improvement. Special topic speakers and panels of practicing building/district leaders from the field are included as part of the periodic live virtual sessions.

## **Engineering**

### **EGR 101 - Introduction to Engineering, 1 credit hour**

This course introduces the student to the engineering profession, basic engineering skills and knowledge, engineering approach to problem solving, and the engineering design process. The course exposes and enables the student to develop hands-on engineering design experience, teamwork and leadership skills, communication skills, experimentation skills, as well as engineering ethics. It also provides an introduction to computer tools used by engineers (spreadsheet, word processing, presentation software, and MATLAB).

### **EGR 102 - Introduction to Engineering Design & Analysis, 2 credit hours**

This course introduces students to numerical skills such as estimation, graphing, interpolation, statistics, mathematical modeling & programming using MATLAB and Excel. These techniques & tools are applied to applicable engineering problems and open-ended engineering design projects. Students are also introduced to and apply engineering economics and project management techniques in their design projects.

### **EGR 103 - Engineering Graphics, 1 credit hour**

A brief introduction to computer-aided drafting for prospective engineers.

### **EGR 110 - History of Engineering & Technology, 1 credit hour**

This course covers the history of engineering & technical development over the course of human history with the intent of providing students an overview of the development of public works, machinery & other technical inventions that have influenced and enabled societal progress.

### **EGR 200 - Statics & Dynamics, 4 credit hours**

**Prerequisite(s):** PHY 131 and either MTH 141 or MTH 142

The study of force systems in two and three dimensions to explore the principles of equilibrium applied to various

bodies and simple structures. Frictional forces, centroids, and moments of inertia are also discussed. Dynamics of particles, including kinematics and kinetics are presented. The course makes extensive use of vector method. These tools and techniques are applied to engineering problems and engineering applications.

**EGR 201 - Mechanics of Materials, 4 credit hours**

**Prerequisite(s):** EGR 200, MTH 142, PHY 132 & PHY 152.

This course provides an introduction to the mechanical behavior of materials, principal stresses and strains, stress-strain relationships, deflections, bending, deformations of rigid bodies due to forces and moments. Determination of stresses and deformation for axial, flexural, torsional, thermal, and combined loadings. Safe working stresses, yield and failure points. Includes laboratory and design project.

**EGR 202 - Creativity & Design Thinking, 2 credit hours**

**Prerequisite(s):** EGR 102 and ENG 131

**Prerequisite/Corequisite:** EGR 200 may be taken concurrently.

In Creativity & Design Thinking students unpack each step of the design thinking process and become familiar with the design thinker's toolkit. Students will develop skills as visual thinkers, strategists, and storytellers through a hybrid of lecture, seminar-type discussions, and collaborative projects. Students will learn a set of creative thinking tools and gain an introductory overview of the theoretical models of creativity. The creative thinking tools and experiential learning activities in the course offer the necessary background for EGR 306 Product Design & Entrepreneurship and upper level design projects.

**EGR 203 - Thermodynamics & Fluid Mechanics I, 4 credit hours**

**Prerequisite(s):** EGR 200, MTH 142, and CHM 111

The course covers the basics of energy conservation, transfer & conversion to work through the study of the 1st & 2nd Law of Thermodynamics, including an introduction to the principle of entropy, ideal gas, enthalpy, control mass, and control volume systems. Fluid Mechanics concepts covered include fluid statics & dynamics, hydrostatics, fluid measurements, conservation of mass, momentum & energy, Bernoulli equation and viscous flow in pipes. Frictional effects, are covered with an introduction to compressible flow & aerodynamics. The basic mechanisms of heat transfer, including conduction, convection & radiation, heat engines, refrigeration, and heat pumps are covered. The course includes a lab and a design project.

**EGR 300 - Electronics, Circuits & Devices, 3 credit hours**

**Prerequisite(s):** PHY 131, PHY 151, PHY 132, PHY 152

The course addresses electronics, circuits, and electrical devices to provide the basics for controls & system design. Includes a design project.

**EGR 301 - Engineering Materials & Manufacturing, 4 credit hours**

**Prerequisite(s):** EGR 201 and CHM 111

Introduction to the structure, properties, processing & manufacturing of materials used in engineering applications. Topics include: material structure (bonding, crystalline and non-crystalline structures, imperfections); equilibrium microstructures; diffusion, nucleation, growth, microstructure, properties, processing and manufacturing of: steel, ceramics, polymers and composites; creep and yield; fracture mechanics, modes of failure; and the selection of materials and appropriate performance indices. Includes a lab and design project.

**EGR 303 - Sensors and Controls, 3 credit hours**

**Prerequisite(s):** EGR 201, EGR 300, PHY 132 & PHY 152.

Measurements of temperature, light, force, pressure, displacement, velocity, acceleration, flow, and strain. Sensor characteristics and calibration. Electric machines, controls, and actuators. Computer interfacing, microcontrollers, and programmable logic controllers. Includes a lab and a design project.

**EGR 304 - Experimental Engineering, 3 credit hours**

**Prerequisite(s):** EGR 201 & EGR 203

Experimental investigation of engineering systems. Plan & design, perform, analyze and report experimental results

of a single and complex engineering systems. Perform experiments individually and as a group. Oral and written reports. Includes a design project.

**EGR 305 - Global Engineering Experience, 3 credit hours**

**Prerequisite(s):** EGR 203, EGR 300, EGR 301 & EGR 304

This course is designed to provide the student with an interdisciplinary, multidisciplinary, and exposure to international engineering projects, specifically projects in the developing world. The course will expose students to the grand challenges of society and the need for various stakeholders (engineers, scientists, policy-makers, etc) to collaborate and to develop, test, and implement innovative, appropriate, cost-effective, and sustainable solutions. Topics such as systems thinking, green engineering, sustainability life cycle analysis, life cycle cost analysis will be covered. This course has an international component whereby students travel abroad at the end of the semester to implement their semester-long projects.

**EGR 306 - Product Design & Entrepreneurship, 3 credit hours**

**Prerequisite(s):** EGR 202, EGR 203, EGR 301 & SUS/MGT 340

This course presents multidisciplinary content from engineering & business with an emphasis on the process of product development and entrepreneurship. The steps in the product development process are presented to give shape to a design idea to make a commercially viable product. This course will teach teams of students how to develop product concepts and business plans in the design of new and innovative products. Emphasis will be placed on identifying user needs, concept generation, construct an Alpha prototype fabrication, and present the prototype with a business case in support of the product.

**EGR 310 - Thermodynamics & Fluid Mechanics II, 3 credit hours**

**Prerequisite(s):** EGR 203 & MTH 245

This is a follow-on course to the first course in thermodynamics and fluid mechanics for engineering students. The Second Law and principle of entropy and irreversibility is given a thorough treatment. Power plant and automotive-engine cycles are covered. Compressible flow (gas dynamics) is given comprehensive treatment to include aircraft-engine flow, rocket propulsion & shock waves. Includes a design project.

**EGR 410 - Heat Transfer, 3 credit hours**

**Prerequisite(s):** EGR 203

This is a comprehensive course on heat transfer that covers all modes: conduction, convection & radiation. Numerical methods for solving each mode are introduced. Software and computer simulations for each mode are also introduced. Thermal-system design project.

**EGR 420 - Sustainable Power Generation, 3 credit hours**

**Prerequisite(s):** EGR 203 & EGR 300

The course involves description and analysis of power-generation and storage technologies for ground & space systems. The analysis of the chemical, electrolysis and thermodynamic processes, and range of application of various direct-conversion and storage devices are addressed. Direct-energy technologies include: solar-photovoltaic cells, fuel cells, thermionics, dynamic, wind turbines, hydroelectric, radioisotopes and nuclear fission. Storage technologies include batteries, regenerative fuel-cells, hydro and flywheels. Applications to various systems such as buildings, automobiles and spacecraft will be addressed.

**EGR 463 - Engineering Seminar, 1 credit hour**

**Prerequisite(s):** Junior or higher standing

The course is designed to prepare the student for professional engineering employment. It provides opportunities for professional development of undergraduate students and raise awareness of the various issues they may face in their professional careers. Topics include resumes, hiring, interview techniques, negotiation techniques, engineering ethics, professional and societal responsibilities, lifelong learning, diversity, creative problem-solving, goals, quality, timeliness, interaction & cooperation, leadership, continuous improvement. Written reports and oral presentations.

**EGR 464 - Engineering Capstone I, 2 credit hours****Prerequisite(s):** Senior Standing

This course requires students to determine and define a real-world design or analysis problem and work with both faculty and external mentors. The course is offered in two semesters, with the first semester of 2 credit hours for purposes of identifying and defining a problem; the second semester of 3 credit hours for completing the project under faculty and external mentorship.

**EGR 465 - Engineering Capstone II, 3 credit hours****Prerequisite(s):** EGR 464

This course requires students to determine and define a real-world design or analysis problem and work with both faculty and external mentors. The course is offered in two semesters, with the first semester of 2 credit hours for purposes of identifying and defining a problem; the second semester of 3 credit hours for completing the project under faculty and external mentorship.

**EGR 498X - Internship, Credit hours to be arranged**

The for-credit internship registration process is handled via the Career Center Handshake platform. To register your internship for credit, please contact Career Center at [career@bw.edu](mailto:career@bw.edu).

## English

**ENG 109 - College Composition Lab, 1 credit hour****Prerequisite(s):** Students are placed into ENG-109 based upon their writing placement exam or their entrance exam scores.**Corequisite(s):** ENG 111

The goal of this course is to provide support for some students enrolled in ENG 111 College Composition to help them build stronger writing strategies.

**Graded:** S/U**ENG 111 - College Composition, 3 credit hours**

A first course in college-level writing, emphasizing such fundamentals as clarity, coherence, organization, grammatical and mechanical correctness, logic, as well as good content. ENG 111 should be taken in the first year, preferably in the first semester.

**ENG 125 - Introduction to Literature: Fiction, Poetry, and Drama, 3 credit hours**

An introduction to literary analysis with a focus on works on a specific subject or theme. Emphasis on interpretative skills necessary to understand and appreciate works of literature.

**ENG 129 - Special Topics, 2-3 credit hours**

Special topics.

**ENG 131 - Workshop in Exposition and Argument, 3 credit hours****Prerequisite(s):** ENG 111 or placement.

Assignments in writing expository and argumentative prose with particular emphasis on content development. Core requirement; Students required to take ENG 111 should take it during their first semester at BW, and should take ENG 131 no later than their third semester at BW.

**ENG 131H - Honors Workshop in Exposition and Argument, 3 credit hours****Prerequisite(s):** This course is open to students formally accepted into the Honors Program. This course is a common experience for all students.

Assignments in writing expository and argumentative prose with particular emphasis on content development.



**ENG 213 - Applied English Grammar, 3 credit hours****Prerequisite(s):** ENG 131

A study of English grammar, usage, mechanics, syntax, and sentence structure. The course will emphasize the application of traditional grammar in formal and professional writing and include analysis of grammar in different contexts. Required for AYA Licensure.

**ENG 220 - Literature for Adolescents, 3 credit hours****Prerequisite(s):** ENG 131

This course provides an overview of literature for adolescents, focusing on texts that are both classic and contemporary. The course will emphasize literary analysis within cultural contexts. Required for AYA Integrated Language Arts licensure.

**ENG 233 - Workshop in Creative Writing, 3 credit hours****Prerequisite(s):** Students entering Poetry and Fiction topics must have completed ENG 131 and ENG 125. Students entering Playwriting topics must have ENG 131 and either ENG 125 or THE 190.

Assignments in writing poetry, fiction or playwriting. Repeatable as different topics.

**ENG 241I - Survey of British Literature I, 3 credit hours**

A study of selected major British works from the Anglo-Saxon times to 1798, read in their historical contexts.

**ENG 242I - Survey of British Literature II, 3 credit hours**

A study of selected major British works from 1798 to the twenty-first century, read in their historical contexts.

**ENG 251D - Survey of American Literature I, 3 credit hours**

A study of selected works that represent American literature from colonial times through the Civil War, read in their historical contexts.

**ENG 252D - Survey of American Literature II, 3 credit hours**

A study of selected works that represent American literature from Civil War through the twenty-first century, read in their historical contexts.

**ENG 263 - Seminar, 2-4 credit hours**

Varied topics oriented to the non-major.

**ENG 278 - Video Games: Writing and Rhetoric, 3 credit hours****Prerequisite(s):** ENG 125 and ENG 131

Students will be introduced to the basic elements of game narrative as an interactive storytelling medium.

Additionally, students will familiarize themselves with video games as a persuasive tool to make and reproduce meaning.

**ENG 280 - Survey of World Literature, 3 credit hours**

A study of selected classics that represent the growth and development of world literature from Ancient to Early Modern Times.

**ENG 295 - Independent Study, 1-4 credit hours****ENG 298X - Internship, Credit hours to be arranged**

The for-credit internship registration process is handled via the Career Center Handshake platform. To register your internship for credit, please contact Career Center at [career@bw.edu](mailto:career@bw.edu).

**ENG 305 - Workshop in Advanced Expository and Argumentative Writing, 3 credit hours**

**Prerequisite(s):** ENG 131 or exemption

An advanced course in expository and argumentative prose for students who have successfully completed ENG 131.

**ENG 307 - Advanced Creative Writing, 3 credit hours**

**Prerequisite(s):** ENG 233

Intensive workshop specializing in advanced fiction and poetry writing. Designed for students who have taken prerequisite workshops in either or both genres.

**Semesters Offered:** This course is only taught in Fall semesters.

**ENG 308 - Nature Writing, 3 credit hours**

**Prerequisite(s):** ENG 131

Instruction and practice in specialized forms of writing.

**ENG 309(SX) - Grant Writing, 3 credit hours**

**Prerequisite(s):** ENG 131

Instruction and practice in specialized forms of writing.

**ENG 316 - Studies in Literary History, 3 credit hours**

**Prerequisite(s):** Six hours of ENG at the 100 or 200 level.

Courses offered under this number are designed to provide advanced study of specific periods in the history of British or American literature.

**ENG 328(D) - Studies of Major Authors, 3 credit hours**

**Prerequisite(s):** Six hours of ENG at the 100 or 200 level.

Courses offered under this number concentrate on the work of a single major writer or of a small group of closely-allied writers.

**ENG 335 - Studies in World Literature, 3 credit hours**

**Prerequisite(s):** Six hours of ENG at the 100 or 200 level.

A study of selected works in translation from the great literatures of the world.

**ENG 336(D) - Studies in Specific Genres, Themes or Modes, 3 credit hours**

**Prerequisite(s):** Six hours of ENG at the 100 or 200 level.

Courses offered under this number offer intensive study of the development of a single genre, such as the epic, novel or biography; or of a particular literary mode, such as satire or tragedy; or of a recurring theme as it can be traced in various eras and cultures.

**ENG 350 - Advanced Creative Writing II, 3 credit hours**

**Prerequisite(s):** ENG 307

Process-intensive workshop emphasizing commitment to creative writing through the practice of artistic discipline. Students will conceive and create chapbook or chapbook-length works.

**Semesters Offered:** This course is only taught in Spring semesters.

**ENG 395 - Independent Study, 1-4 credit hours**

**ENG 398X - Internship, Credit hours to be arranged**

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**ENG 450 - Seminar in Creative Writing, 3 credit hours****Prerequisite(s):** ENG 233, ENG 307

A "Special Topics," capstone seminar and workshop, primarily for students majoring or minoring in Creative Writing.

**Semesters Offered:** This course is only taught in Spring semesters.**ENG 459X - Faculty-Student Collaboration, Credit hours to be arranged****ENG 463 - Seminar, 1-4 credit hours****Prerequisite(s):** Written consent of the instructor.

Varied topics. May be counted toward "Advanced Studies in English" requirement.

**ENG 491 - Departmental Thesis/project, Credit hours to be arranged****ENG 495 - Independent Study, 1-4 credit hours****ENG 498X - Internship, Credit hours to be arranged**The for-credit internship registration process is handled via the Career Center Handshake platform. To register your internship for credit, please contact Career Center at [career@bw.edu](mailto:career@bw.edu).

## Entrepreneurship

**ENT 215 - Innovation & Entrepreneurship, 3 credit hours**

This overview course will give students an awareness of the skills, knowledge and abilities needed to be a successful entrepreneur. An objective of the course is to develop students' ability to become opportunity-focused and recognize their own entrepreneurial potential. Students will examine a framework that views entrepreneurship as a process that emphasizes the individual, the environment, the organization. Topics such as entrepreneurship, family businesses, social entrepreneurship, and innovation will be explored.

**ENT 263 - Special Topic Seminar, Credit hours to be arranged****ENT 290 - Innovation and Integrity Colloquium, 1 credit hour**

This colloquium provides CIG Student Fellows with a unique opportunity to acquire experiences and relationships designed to guide them in a process of innovation guided by integrity. Students will develop an Innovative Leadership Development Plan as part of their participation in the colloquium. The Innovation and Integrity Colloquium is a full year commitment. Students must be nominated by a faculty member and selected by the Center for Innovation and Growth to be enrolled. This course does not count towards major, minor, or General Education credit.

**ENT 295 - Independent Study, 1-4 credit hours****ENT 315 - Managing a Growing Venture, 3 credit hours****Prerequisite(s):** MKT 230 or AMG 301 or AMG 304

This course helps students understand the different functional areas involved in managing and growing an entrepreneurial enterprise. Students will gain a greater understanding of the interdependencies within an organization. Topics such as hiring employees, guerrilla marketing, networking, legal forms of an organization, relationship-building, advisory boards, and venture capital are explored, and financial issues confronting entrepreneurs are explored in broad terms.

**ENT 320 - Design Thinking, 3 credit hours**

The future workplace will require innovative thinking and action to solve problems and find and execute on opportunities. Design-thinking is a human-centered and systematic approach to innovation and creative problem-solving that applies to a wide range of challenges and disciplines. Through applying the methodologies of design to contemporary challenges, students will learn to develop both an innovative mindset and skill set.

### **ENT 395 - Independent Study, 1-4 credit hours**

### **ENT 415X - Entrepreneurship Capstone Experience, 3 credit hours**

**Prerequisite(s):** ENT 215

**Corequisite(s):** ENT 315

In this capstone course, entrepreneurship students will complete an immersion into an entrepreneurial experience. Students will have the option of pursuing one of two paths depending on their personal interests: 1) develop a comprehensive business plan for a new venture idea, or 2) working with an external new venture to develop and refine the organization's business plan.

### **ENT 495 - Independent Study, 1-4 credit hours**

## **Environmental Science**

### **ENV 101 - Principles of Environmental Science, 4 credit hours**

This course focuses on the scientific principles that serve as the foundation for environmental science and emphasizes the interdisciplinary nature of the field, with specific examples given from the biological/ecological, chemical, and geological perspectives. Students will explore how the global environment functions and develop a deeper understanding of the complexity of environmental issues.

### **ENV 201 - Energy and Climate, 3 credit hours**

**Prerequisite(s):** ENV 101

Two of the most critical environmental issues are sufficient energy resources for an expanding population and the impacts the combustion/utilization of these energy resources on Earth's climate. This course will provide a scientific foundation for examining energy and climate change, with special emphasis given on understanding the rate of climate change over the past century in relation to past climate change.

### **ENV 305 - Biogeochemistry, 4 credit hours**

**Notes:** ENV 101 is a recommended prerequisite but not required.

**Prerequisite(s):** BIO 121, BIO 122, CHM 111, CHM 112, and CHM 115.

This course is an interdisciplinary examination of the physical, biological and chemical processes that control the flow of matter and energy in surface environments on planet Earth. This course emphasizes the interactions between abiotic and biotic processes and their impact on various biogeochemical cycles throughout the semester. We will also examine human dependence, interaction, and impacts on ecosystems and their function. Lab includes field studies and a weekend field trip.

### **ENV 464 - Environmental Science Capstone, 3 credit hours**

**Prerequisite(s):** Senior status or consent of instructor

This course is the capstone experience for the Environmental Science major designed to give students an opportunity to integrate the experiences and coursework within the major. Students will utilize the wide range of knowledge and skills acquired in other courses to complete an interdisciplinary environmental science research project led by the instructor while acquiring and refining crucial skills such as research design, analysis, presentation, and teamwork that will prepare them for a career in environmental sciences.

## **Finance**

### **FNC 243W - Personal Finance, 3 credit hours**

This course studies the principles of personal finance with an emphasis on personal taxes, cash and savings instruments, consumer loans, stock and bond investments, real estate, insurance, and retirement planning.

**FNC 280 - Applied Financial Statistics, 3 credit hours**

**Prerequisite(s):** MTH 120 or higher and ACC 245 (ACC 245 waived for Statistics Minors)

This course will focus on statistical techniques for the analysis of financial market data, including stocks, options, etc. The course objective is to equip students with fundamental statistical analytical techniques to be prepared for careers in the accounting and finance professions. The course provides students with a solid foundation of statistical problem solving empirical methods coupled with the ability to critically evaluate financial data and findings. Financial applications are emphasized but the course serves areas of business applications where statistical concepts are needed. All applications will be analyzed using Bloomberg and Excel.

**FNC 281 - Principles of Risk Management and Insurance, 3 credit hours**

**Prerequisite(s):** MTH 105 & MTH 106; or MTH 279; or FNC 280

The risk management and insurance industries create sustainable value through the rigorous application of data analytics to model, manage and respond to a variety of real-world risks. This of course will introduce students to the concepts of Risk Management and Insurance. Topics begin with the nature and perceptions of risk; we will then connect the cost of the risks to the measurement and assessment of mitigating options including insurance. The course will provide a overview of several insurance products offered as mitigants to various personal and business risks. Examples will rely on numerical analysis as well as systems thinking to introduce modes of analysis.

**FNC 295 - Independent Study, 1-4 credit hours****FNC 342 - Corporate & Organizational Finance, 3 credit hours**

**Prerequisite(s):** ACC 211 or ACC 213

This course is a study of the sources and uses of funds within an organization, the returns and risks related to an organization's working capital and capital budgeting decisions.

**FNC 381 - Enterprise Risk Management, 3 credit hours**

**Prerequisite(s):** FNC 281 & BUS 365

This course will introduce students to the concepts of Enterprise Risk Management. Beyond traditional risk management topics such as insurance, financial institution risk and cyber security, this course will broaden the lens to focus on enterprise wide risks including environmental, safety, supply chain and human capital risks. Management tools for assessing these risks will be introduced including corporate governance functions, compliance, external and internal auditing and quantitative risk assessment tools. The COSO Enterprise risk management framework and ISO 31000 will be introduced as a widely accepted standard to ensure effective enterprise risk management.

**FNC 395 - Independent Study, 1-4 credit hours****FNC 441 - Behavioral Finance, 3 credit hours**

**Prerequisite(s):** FNC 342; and either MTH 105 or MTH 108 or MTH 235 or PSY 278 or MTH 279 or FNC 280

Behavioral finance is an approach to understanding financial phenomena that models decision-makers as less than perfectly rational actors. In trying to understand the specific ways in which behavior departs from full rationality, behavioral finance incorporates important findings from other social sciences, such as psychology, sociology, and economics. This course overviews traditional financial theory, considers perceived irrationalities in decisions and markets, and explores the social and psychological underpinnings of decision flaws.

**FNC 444I - International Financial Management, 3 credit hours**

**Prerequisite(s):** FNC 342; and either MTH 105 or MTH 108 or MTH 235 or PSY 278 or MTH 279 or FNC 280

This course is a study of foreign exchange markets, the management of foreign exchange exposure, multinational capital budgeting, international portfolio management, transfer pricing, multinational taxation, international securities, and interest rate risk management.

**FNC 445 - Principles of Investments, 3 credit hours**

**Prerequisite(s):** FNC 342; and either MTH 105 or MTH 108 or MTH 235 or PSY 278 or MTH 279 or FNC 280

This course emphasizes techniques of security analysis, evaluation of portfolios and investment strategies including the use of derivatives.

**FNC 446 - Intermediate Finance, 3 credit hours**

**Prerequisite(s):** FNC 342; and either MTH 105 or MTH 108 or MTH 235 or PSY 278 or MTH 279 or FNC 280

This advanced course covers selected topics in financial management such as financial analysis, forecasting, working capital management, capital budgeting, long-term financing, cost of capital and dividend policies.

**FNC 455 - Portfolio Analysis and Management, 3 credit hours**

**Prerequisite(s):** FNC 342 & FNC 445; and either MTH 105 or MTH 108 or MTH 235 or PSY 278 or MTH 279 or FNC 280

**FNC 464 - Real Estate Finance & Investments, 3 credit hours**

**Prerequisite(s):** ACC 245 and FNC 342; and either MTH 105 or MTH 108 or MTH 235 or PSY 278 or MTH 279 or FNC 280

The course will provide terminology, concepts, principles, and analytical techniques related to financing of and investment in real estate. It provides an understanding of risks and rewards associated with investing in and financing of both residential and commercial real estate. Concepts covered are used in many careers related to real estate. They include investing, financing including development financing, appraising, buying and leasing real estate - both residential and commercial.

**FNC 465 - Risk Management in Financial Institutions, 3 credit hours**

**Prerequisite(s):** FNC 342; and either MTH 105 or MTH 108 or MTH 235 or PSY 278 or MTH 279 or FNC 280

The course examines various types of financial institutions (banks, investment companies, insurance companies, etc.), the risks (credit risk, market risk, interest rate risk, etc.) inherent in the assets and liabilities of those institutions, and the tools and techniques available for measuring and managing those risks including portfolio diversification, duration, Value at Risk models, and RAROC. Note: This course satisfies the CPA Exam's requirements for "other business courses" but does not satisfy any portion of the "accounting hours" requirement.

**FNC 481 - Enterprise Risk Capstone, 3 credit hours**

**Prerequisite(s):** Completion of major requirements.

This course is a companion to the required capstone of students in the Carmel Boyer School of Business, Enterprise Risk Analytics (ERA) program. This course facilitates practical skill development, real-world experience and application of program concepts in the workplace. The course is taught in the hybrid format to accommodate the demands of the students' work schedules. This course will integrate and apply key concepts from the ERA program, our university expectations and students' career investigations.

**FNC 485 - Empirical Methods in Finance, 3 credit hours**

**Prerequisite(s):** MTH 105 or MTH 108 or MTH 235 or PSY 278 or MTH 279 or FNC 280

The objective of this course is to provide statistical models and their applications of data in business and finance. Emphasis will be on intuitive reasoning and applied statistical modeling rather than mathematical proofs. All applications will be analyzed using software such as SAS. Bloomberg will be the primary source of data for this course. Students at the end of the course will have a working knowledge to conduct an empirical analysis - datasets required, computational needs, and implementation.

**FNC 488 - Financial Modeling Capstone, 3 credit hours**

**Prerequisite(s):** FNC 445 and FNC 446

The course applies economic theories to solve various problems in financial management and investments. Using a hands-on approach to building financial spreadsheet models, the student will gain knowledge of numerical and graphical practices. These include but are not limited to asset return calculations, portfolio theory, index models, and the capital asset pricing model, option pricing models, bond pricing, equity valuation, LBOs and investment

performance analysis. MS Excel is the primary tool to implement these financial models, however, the course will also make use of statistics and probability. In a nutshell, this course focuses on the practical application of financial modeling using Excel. The purpose of this course is to provide participants with tools to assist them in making and supporting management decisions. In terms of subject matter, students should be comfortable with equity and fixed-income derivatives, portfolio math, reading financial statements, free cash flow projections, and cost of capital calculations such as WACC. The bulk of our time will be spent building models and utilizing Excel, and data from internet resources, and Bloomberg.

#### **FNC 495 - Independent Study, 1-4 credit hours**

#### **FNC 548 - Financial Management I, 3 credit hours**

This is a foundation class in finance for MBA students. The course covers the basic concepts, tools, and techniques needed to make financial decisions. The topics covered in this course will include, Financial Tools (Ratio Analysis, Time value of money – PV, FV, NPV, IRR, Payback, PI etc. in evaluating projects), Valuation of Securities and Projects (Fixed Income, equity), and Risk and Return.

#### **FNC 556 - Financial Intermediation, Markets and Institutions, 3 credit hours**

This course provides an integrated overview of both theoretical and practical issues related to the modern financial intermediation business. It covers four central topics. The course outlines the role and functions of the financial system and the nature of financial intermediation with special emphasis on current issues in banking. The course will also cover the main activities and types of financial institutions/intermediaries. Further, coverage is given to main types of financial markets and the exploration of issues related to the organizational structure of financial institutions and link them with ethics, professionalism and effective management. Broadly speaking, the course covers many forms of financial intermediation, but the primary focus is on banks. The main topics of this course, all of which are central to understanding the recent financial crisis, includes type of financial intermediaries (banks, mortgage institutions, insurance companies, pension funds, and investment banks) and their composition of assets and liabilities. Measuring and managing credit risk, interest rate risk, and liquidity risk. Off-balance sheet activities. Risk transfers using derivatives and securitization. Banks as liquidity providers. Bank runs and role of deposit insurance. Bank regulation, including capital requirements, liquidity coverage ratios, and net stable funding ratios. Capital requirements and the business cycle. Capital requirements and bank lending. The interaction of banks and central banks.

#### **FNC 581 - Managerial Economics, 3 credit hours**

This course presents an introduction to economic issues relevant to modern day managers. The course coverage includes a range of both microeconomic and macroeconomic subjects. The course allows students to apply microeconomic theory to firm management, and learn how to use microeconomics to enhance decision making. Further, the course introduces students to macroeconomic indicators and their importance to business performance. Topics covered include demand and supply analysis, consumer theory, market price and output, production, cost, simple competitive market equilibrium, simple monopoly pricing and output determination, price discrimination, and bundling for the microeconomics portion of the course. The macroeconomics section will cover unemployment, inflation, monetary and fiscal policy, economic growth, the causes and consequences of recessions, and issues in global economics.

#### **FNC 585 - Advanced Real Estate Finance, 3 credit hours**

This course provides advanced treatment of the commercial mortgage and real estate equity markets. Topics include an in-depth discussion of financing income-producing properties; commercial mortgage underwriting; real estate investment trusts; and the decisions faced by institutions regarding their property, mortgage portfolios, and real estate valuation. Emerging topics of special interest are also discussed.

#### **FNC 588 - Advanced Behavioral Finance, 3 credit hours**

This advanced course provides an overview of the theoretical and empirical work in behavioral finance. The course starts with an overview of the limits of arbitrage as well as an exploration of psychological decision factors. The

application of behavioral finance, deviations from rationality by managers and investors, centers around two topics: corporate finance and investments.

### **FNC 648 - Financial Management II, 3 credit hours**

**Prerequisite(s):** FNC 548

This course builds upon the knowledge of Finance gained in Financial Management 1. The goal of the course is to make a student more operational in the sense that the student is better trained to be in a position to do financial analysis. The course is structured to provide greater depth on core issues of valuation, capital budgeting, capital structure, cost of capital, working capital management, and the workings of the foreign currency markets. The course will draw upon learning the necessary theory and utilize mini cases to achieve the desired objective. The topics covered by this course include: In-depth review of financial tools e.g. Time of value of money, Project Evaluation (Capital budgeting techniques, Risk analysis), Long term Financial Decisions (Capital Structure), Short Term Financial Decisions (Working Capital Management), International finance (Foreign Exchange Market and Risk prevention).

### **FNC 650 - International Financial Management, 3 credit hours**

This course introduces the operation of international financial markets and risk management in the global environment to equip students with the skills to make financial decisions in the global market.

### **FNC 651 - Empirical Finance, 3 credit hours**

This course provides an introduction to empirical analysis and research in finance. This involves the management of empirical datasets and the aspects of quantitative applications of finance theory. We will cover a wide variety of techniques used in the finance field, such as event study, trading strategies, risk and return, time series analysis, Fama-McBeth methodology. The goal is to enable students to understand financial data and the quantitative methods used in the analysis. All applications are conducted using real financial data and will be analyzed using SAS. Students at the end of the course will have a working knowledge of financial data, gain expertise in SAS software to conduct the analysis, and be able to conduct research.

### **FNC 656 - Financial Modeling & Valuation, 3 credit hours**

The course applies economic theories to solve various problems in financial management and investments. Using a hands-on approach to building financial spreadsheet models, the student will gain knowledge of numerical and graphical practices. These include but are not limited to portfolio theory; index models, option pricing models; bond analysis (pricing, duration, and immunization); equity valuation; LBOs; accretion, and dilution models; and investment performance analysis. MS Excel is the primary tool to implement these financial models. The purpose of this course is to provide participants with tools to assist them in making and supporting management decisions. Regarding subject matter, students should be comfortable with equity and fixed-income derivatives, portfolio math, reading financial statements, free cash flow projections, and cost of capital calculations such as WACC. The bulk of our time will be spent on building models and utilizing Excel, and data from internet resources, and Bloomberg.

### **FNC 657 - Financial Risk Management and Modeling, 3 credit hours**

The objective of this course is to examine risks in financial institutions. Particular emphasis is given to quantitative and qualitative approaches to measuring interest rate risk, market risk, credit risk, foreign exchange rate risk, and liquidity risk. Students will build financial models of some of these types of risk. Attention will also be paid to steps financial institutions can take to manage the various risks.

### **FNC 658 - Investment Banking Analysis, 3 credit hours**

This course focuses on the study of investment banking and all activities associated with it. We cover strategic planning and financial management; analysis, financing and valuation of investment opportunities, corporate governance and ethical issues investment bankers normally face. The course covers the primary functions of investment banks including mergers and acquisitions (M&A), leveraged buyouts (LBO's), and other forms of corporate restructuring. The course explores three aspects of the merger and acquisition process: the strategic decision to acquire, the valuation decision of how much to pay, and the financing decision on how to fund the acquisition.



**FNC 680 - Advanced International Financial Management and International Trade Finance, 3 credit hours**

Integration and globalization of the modern world requires a deep understanding of international finance. This course focuses on the explanation of up-to-date theories of international finance and on its practical real world applications for multinational firms. Effective corporate decision making requires a deep understanding of the international financial markets, in particular, this course will cover foreign exchange markets and world capital markets. Moreover, hedging strategies and risk management are necessary for effective financial management. This course also covers asset and liability management as well as international corporate governance and control. This course helps students learn and discuss a vast array of financial theories and practices in the global context. Using integrated approaches, this course will emphasize the discussion on the implementation of international financial concepts and tools. Upon completion, students are expected to understand and master various state-of-the-art practices and their future advancement. This course is designed for students with a basic understanding of financial theory and related analytical techniques. This background will be beneficial for exploring and creating solutions to realistic global financial management problems. Using the concepts and tools of finance, students are supposed to examine various strategic problems and subsequently find alternative solutions from the perspective of a financial executive in multinational corporations.

**FNC 684 - Advanced Investment Management, Theory, and Portfolio Management, 3 credit hours**

**Corequisite(s):** FNC 685

This course explores modern techniques of investment analysis and portfolio management. The objective is to help students develop the skill and analytical techniques to select individual assets as well as manage a portfolio. Particular emphasis is placed on developing a methodology for evaluating individual stocks and creating stock portfolios. This course is taught in conjunction with Applied Investment Fund Management.

**FNC 685 - Applied Investment Fund Management, 1 credit hour**

**Corequisite(s):** FNC 684

This course is taught in conjunction with Advanced Investment Management, Theory, and Portfolio Management. Emphasis is placed on application as students evaluate equities, make recommendations, and actively manage a student stock portfolio.

**FNC 686 - Advanced Fixed Income and Derivatives, 3 credit hours**

This course covers the valuation of a wide variety of fixed income securities and derivatives including pure discount bonds, coupon bonds, forwards and options on fixed income securities, interest-rate swaps, floating-rate notes, and mortgages. The course focuses on analytic tools used in bond portfolio management and interest rate risk management. These tools include yield curve construction, duration and convexity, and formal term structure models. Some other interesting topics covered include interest rate derivatives such as interest rate swaps, bond options and interest rate options, including caps, floors and swaptions, and the management of callable debt. We then look beyond interest rate risk and study other risks that can be inherent in fixed income securities such as credit risk, illiquidity risk, and the risk stemming from securitization. The course concludes with a discussion about credit default swaps - a fixed income derivative that is popular for transferring credit risks among market participants.

**FNC 688 - Advanced Corporate Financial Analysis, 3 credit hours**

The course will provide thorough in-depth understanding of various elements related to making decisions on corporate projects. The material covered will be application oriented with necessary and sufficient theory to back up the material and understand real life problems faced by managers. The courses will go significantly beyond the basic capital budgeting models covered in basic and intermediate level finance courses by incorporating elements like inflation (general and product specific), irregular nature of cash flows, uncertainty of cash flows etc. Real life situations will be used to model the analysis in Microsoft Excel.

**FNC 689 - Advanced Topics in Finance, 3 credit hours**

This course introduces students to new and demanding topics, techniques and tools in the finance discipline. With a clear emphasis on the business for both profit and non-profit organizations, the coursework provides an ideal resource for managing all the financial aspects of a corporation. Coverage is given to the latest financial tools, practices, and trends.

**FNC 695 - CFA Prep, 3 credit hours**

This course provides a detailed review of the content from the Chartered Financial Analyst (CFA) exams on a variety of topics, including ethics and professional standards, corporate finance, financial reporting, and analysis, quantitative methods, alternative investments, and fixed income analysis. Apart from the instructor covering the body of knowledge, students will conduct research, discuss with peers, and analyze the answers to actual CFA exam items to gain a thorough understanding of the format, concepts, principles in which the exam questions are based, gaining confidence and preparedness for taking the CFA exam.

**FNC 698 - Independent Study, 1-6 credit hours****FNC 746 - Financial Management, 3 credit hours**

Analysis of financial information is central to financial control, forecasting and decision making. It also is central to the evaluation of customers, competitors or merger candidates. This course gives executives insight into financial statement analysis, cash flow projections, capital budget evaluation, working capital management and the primary methods of financing the corporation. Various measures of risk and methods of assessing the risk-return trade-off are also presented.

## First-Year Experience

**FYE 100 - First-Year Experience, 1 credit hour**

The FYE seeks to serve the whole student. The academic seminar helps students become acclimated to the academic life of the university while the transition portion of the FYE introduces students to the resources and life of the campus community. The academic seminar is on a topic designed to engage first-semester students, regardless of major/minor, in the exchange of ideas. Topics vary by section. The FYE will help students develop intellectual curiosity, critical thinking skills, and the ability to communicate clearly in writing with an emphasis on the writing process. The transition portion of the course engages students in topics that will help them succeed at BW.

## French

**FRN 101 - Elementary French I, 4 credit hours**

**Prerequisite(s):** None. Appropriate course for beginners. Students with more than two years of high school French must have special permission of the instructor to register for FRN 101.

French 101 is a class for students with no experience in the language, or for students with a 1 to 2 years of high school experience. Depending on the level of the students, and the program they followed in high school, FRN 102 can be a better entry point for the study of the language. Basic conversation, reading, listening and writing skills are taught at the 101 level. Students learn regular verbs ending in "er" and some irregular verbs: to be, to have, to do, to go, etc. Present and past tenses, basic negations, questions, adjective usage are also part of the 101 core. Main conversation topics include: introducing oneself, telling time, talking about family, leisure activities, food, and different actions in the present and past tenses.

**FRN 102 - Elementary French II, 4 credit hours**

**Prerequisite(s):** FRN 101 or equivalent

French 102 is a continuation of the first-year experience in the language. FRN 101 is required or at least 2 years of high school experience. Students who desire to enter the 102 level without taking 101 should acquire the textbook used in the 101 level and review the chapters covered in that class (contact instructor for more information). More of the basic conversation, reading, listening and writing skills are taught at the 102 level. Students learn more regular and irregular verbs. Future, subjunctive and more past tenses are introduced as well as grammar items such as question formation and pronoun usage. Main conversation topics include: talking about fashion, hobbies, and cultural aspects of the French speaking world.

**FRN 201 - Intermediate French I, 4 credit hours**

**Notes:** Required of all French majors and minors

**Prerequisite(s):** FRN 102 or equivalent recommended. FRN 201 is an appropriate entry point for most students with more than two years of solid high school French.

French 201 is foremost a review of the basic grammar items covered in a first-year university French class (101 and 102) with an emphasis on exceptions to rules and new vocabulary items to improve conversation skills. The course continues to develop students' skills in speaking, listening, reading, writing, cultural awareness, and critical thinking. Emphasis during class is on communicative activities. Students will frequently work with partners and in group format on exercises, dialogues, problem solving activities, research on cultural topics, and discussions. The program for French 201 makes use of a variety of media (audio, informational texts, literary texts, film), and is based on French and Francophone cultural topics. Most high school students who have studied the language for 3 years or more can enter this specific level of the language during their freshmen year in University. A typical 201 level class helps students to go back into the language after their summer break and features a solid review of fundamentals.

**FRN 202 - Intermediate French II, 4 credit hours**

**Notes:** Required of all French majors and minors

**Prerequisite(s):** FRN 201 or equivalent recommended.

This course is the second half of the intermediate French program at Baldwin Wallace University. FRN 201 or at least 3-4 years of high school experience is required to enter the class. Intermediate French II continues to develop students' skills in grammar, speaking, listening, reading, writing, cultural awareness, and critical thinking. Emphasis during class is on communicative activities. Students will frequently work with partners and in group format on exercises, dialogues, problem solving activities, research on cultural topics, and discussions. The program for French 202 makes use of a variety of media (audio files, informational texts, literary texts, film), and is based on French and Francophone cultural topics. Small group conversation sections and are part of the lab component of the course and designed to further students' proficiency in speaking French. The course also provides individualized guidance in composition writing. One of the goals of French 202 is making interdisciplinary connections; upon completion of French 202, students should be familiar with the socio-cultural landscape of contemporary France: socioeconomic issues, the symbols and cultural icons of France; and multiculturalism in France and the Francophone world. French 202 aims to teach French language and culture as part of a broader goal of increasing understanding of the world in a global context; it encourages reflections on the differences between U.S. and French and Francophone cultures and fosters critical thinking about such thematic issues as cultural diversity, globalization, and identity which extends into the global arena. This course serves as the prerequisite for upper-level courses in the French curriculum.

**FRN 221I - French Expressions: Media, Culture, & Conversation, 3 credit hours**

**Notes:** Required of all French majors

**Prerequisite(s):** FRN 202 or equivalent recommended.

A high intermediate-level course in French which emphasizes skill-building in conversation and listening comprehension. Focus on furthering vocabulary and developing fluency of expression through study of enriching cultural artifacts from various media including television, music, film, digital and print media.

**FRN 240I - Contemporary France, 3 credit hours**

**Prerequisite(s):** None. Given in English, with no prior study of French expected. May be taken for major credit if out-of-class research and reports are done in French. May be offered in French as a seminar.

A study of Contemporary French society, politics, and culture. This course explores ongoing and developing topics, such as debates on Laïcité, education, women and gender inclusion, multiculturalism, and migration, which present themselves in France and/or Francophone countries. The course includes readings in and discussion of French cultural identity and examines France and the U.S. through a cross-cultural lens.

**FRN 262(I) - Seminar Taught in English, 1-4 credit hours**

A close study of a selected topic in French. May be repeated if a different topic is offered.

**FRN 263 - Seminar, 1-4 credit hours**

**Prerequisite(s):** FRN 202 or permission of instructor

A close study of a selected topic in French. May be repeated if a different topic is offered. Depending on the topic this class may substitute for courses required of the French minor and major.

**FRN 294 - Workshop in French, .5 credit hours**

**Notes:** May be repeated for credit.

Required of all French majors and minors.

**Prerequisite(s):** FRN 102 or equivalent recommended.

Practicum in French oral expression. Designed to work on spontaneous interpersonal communication in a supportive and convivial setting. Focus on informal conversation, discussions, debates, and interviews. Francophone music, popular culture, and current events might serve as a springboard for conversation. The workshop might also involve staging a theatrical performance, and/or experiential French activities in the Cleveland area during some minimesters. Students will participate in ongoing assessment of their skills and work towards making individual progress towards proficiency.

**Graded:** S/U

**FRN 295 - Independent Study, 1-4 credit hours****FRN 305I - French Connections: Literature, Society, and the Arts, 4 credit hours**

**Prerequisite(s):** FRN 202 or equivalent recommended.

This course focuses on techniques of close textual reading in French. Students acquire skills in the analysis and interpretation of literary, cinematic, and visual/musical cultural productions. Emphasis on the connections between major works of French literature and their social context. Attention will also be given to the relation between the literary work and the other arts (music/opera, film, plastic arts, architecture) and disciplines (such as religion and philosophy).

**FRN 310I - The Making of France, 3 credit hours**

**Prerequisite(s):** FRN 202 or equivalent recommended.

A study of the civilization of "hexagonal" France as it has evolved from its origins up until the Fifth Republic (1958). Students will analyze selected sites, persons, political and social institutions, philosophical and aesthetic movements that have shaped the psyche of the French nation and French national identity.

**FRN 311I - The Francophone World, 3 credit hours**

**Prerequisite(s):** FRN 202 or equivalent recommended.

A study of the civilization of the Francophone world that extends beyond the boundaries of hexagonal France (Quebec, Caribbean, Sub-Saharan Africa, Maghreb, and Machrek). Materials to be studied include informational texts, literary and theoretical works, feature-length films, and documentaries. Emphasis will be on acquiring skills in literary and socio-cultural analysis critical to the field of Francophone studies.

**FRN 322 - French Cinema, 3 credit hours**

**Notes:** Taught in French; Taught in English when cross-listed with CAS 322. Students fulfilling a requirement for the French major or minor will do research and written work in French.

Studies in cinema of the French-speaking world organized as a survey, special topics course, or on specific filmmakers.

**FRN 335I - Advanced Grammar & Composition, 4 credit hours**

**Prerequisite(s):** ENG 131; and FRN 202 or equivalent recommended.

Advanced work in grammar with an emphasis on French composition and stylistics.

**FRN 350 - Techniques of Translation, 3 credit hours**

**Prerequisite(s):** FRN 202 or equivalent recommended

An introduction to the theories of translation, followed by practical experience in translating various materials, such as

news items, magazine articles, technical information and literature, with an effort to produce translations from English to French and from French to English of publishable quality.

### **FRN 360 - French for Global Professional Purposes, 3 credit hours**

**Prerequisite(s):** FRN 202 or equivalent recommended

An advanced course in French as it is used for professional purposes across the Francophone world. Assignments are designed to develop both the linguistic skill and cultural understanding needed for the global French workplace. Students will gain practice in the stylistics of business correspondence, the creation of a French CV and cover letter, as well as the design and marketing of a business or service they develop in class. Students will gain familiarity with major French-language newspapers and magazines and some attention will be given to current political and economic issues. There will be an exploration of professional opportunities involving French as part of this course.

### **FRN 375I - French Inventions of Love, 3 credit hours**

**Prerequisite(s):** FRN 202 or equivalent recommended.

Modern western love has often been said to have been invented in France in the 12th century. This class will explore the enduring association between love and French culture. How and why has a particular conception of passionate love become strongly associated with the French? How might love be understood as a cultural construct? What are some of the narratives and social discourses about love, desire, sex, and marriage which have emerged in France and how have they influenced cultural practices?

In this class we will study innovations in the theme of love in selected French works from the twelfth century to its echoes in the present. Students will gain practice in methods of literary and cultural analysis. Emphasis on the continuity and discontinuity of such thematic content as love and death, marriage and adultery, the state vs. the individual, public vs. private, and the nature of desire and sexuality. Special attention will be given to the intersection between love and the social and the extent to which the ideal of the couple is a form of utopia. Several films will be shown throughout the semester to illuminate the issues surrounding the politics of love in contemporary culture.

### **FRN 376I - Selfhood and Otherness in Modern French Writings, 3 credit hours**

**Notes:** Required of all French majors.

**Prerequisite(s):** FRN 202 or equivalent recommended.

French 376 is a study of the literature of France from 1789 until the present. Students will read representative texts and acquire knowledge and appreciation of the major literary genres, movements, and figures of the nineteenth and twentieth centuries including: romanticism, realism and idealism, Modern poetry, Belle Epoque poetry, modern French novel, Dada and Surrealism, littérature engagée, Résistance poetry, Le nouveau roman, and the contemporary novel. Students will gain techniques of close textual reading in the analysis and interpretation of literary texts. They will gain understanding of what constitutes literary genres, and study the stylistic features of texts from the distinct historical periods. In addition, attention in the class will be placed on French literary history and how the French literary tradition has been constituted. We will also explore the intersections of literature and society, politics, religion and aesthetics in order to assess the history of ideas transmitted through the richness and diversity of the French literary tradition. French 376 will continue to provide students the opportunity to develop their skills in spoken and written French in a supportive class setting.

Framing French 376 will be the special topic of "Selfhood and Otherness in Modern French Literature." How has the self been represented—and constructed—by modern French writers? What is the relation of the self to others? What values govern this relationship? What specificity does literature bring to the articulation of these values? Our trajectory will take us along the following four axes: we will explore intersubjective relations (love, gender and sexual differences, responsibility of self to others); intercultural relations (travel, representations of foreigners and cultural "others," cultural imperialism); global relations and ethics (representations of war, violence, international solidarity, and social justice); and the ethics of writing (why write?, literature and socio-political engagement, language and liberation, revolt and justice). Students will complete a final paper or creative project and will present their work at an in-class colloquium. The focus in this class should appeal equally to the interests of students of literature who seek to further their practice in criticism and theory, as well as to students with an interdisciplinary focus such as international studies and the sciences who will benefit from the broad-ranging considerations of ethics that will be broached in this class.

**FRN 395 - Independent Study, 1-4 credit hours**

**FRN 463 - Seminar, 1-4 credit hours**

**Prerequisite(s):** Advanced standing and permission of instructor

FRN 463 is intended to be a capstone seminar which builds on a significant understanding of French Studies. Topics may vary. Students may take the course twice if different topics are offered.

**FRN 495 - Independent Study, 1-4 credit hours**

**FRN 498X - Internship, Credit hours to be arranged**

The for-credit internship registration process is handled via the Career Center Handshake platform. To register your internship for credit, please contact Career Center at [career@bw.edu](mailto:career@bw.edu).

## **Geology**

**GEO 104 - Geology of National Parks, 4 credit hours**

An introduction to the geology of selected national parks and monuments of the United States, emphasizing basic geologic principles and processes illustrated by the geology of each area. Three lecture sessions and one lab per week.

**GEO 111 - The Dynamic Earth, 4 credit hours**

A study of the origin and nature of minerals and rocks as well as the dynamic processes acting on and in the earth (erosion, sedimentation, volcanism, plate tectonics) and their results as reflected in topography and earth structure. Three lecture sessions and one lab per week. One Saturday or Sunday field trip required.

**GEO 121 - Physical Geography, 4 credit hours**

An introduction to some of the physical features and processes of the earth and their significance in relation to many of the activities and problems of humans in the modern world. Three lecture sessions and one lab per week.

**GEO 150 - Regional Geology & Geography, 2 credit hours**

An introduction to physical and historical geology as well as physical geography of selected areas. Basic geologic principles and processes will be illustrated by the geology of the area of interest. Two lecture sessions per week.

**GEO 163 - Geology Seminar, 1 credit hour**

This course consists of study, discussion and demonstration of special topics. One class session per week.

**GEO 200 - Science, 2-4 credit hours**

An interdisciplinary approach to a topic of scientific interest. Course content is determined by the topic chosen.

**GEO 205 - Geographic Information Systems, 4 credit hours**

This course designed to provide a better understanding of spatial information, its purpose, and its display. This course introduces the practice of GIS through extensive practice of ArcGIS and covers Geodesy, Cartography, Global Positioning System (GPS), Geographic Information Systems (GIS), and spatial analysis. The class will culminate with the completion of a major project.

**GEO 212 - Earth History, 4 credit hours**

**Prerequisite(s):** GEO 104 or GEO 111 or BIO 122

An introduction to the geologic history of the earth including the evolutionary development of prehistoric organism which inhabited the earth as well as the evolution of the earth's geosphere, hydrosphere and atmosphere. Three lecture sessions and one lab per week. One field trip required.

**GEO 223 - Geology of Northeast Ohio Rivers and Their Environment, 3 credit hours**

This course utilizes the resource of our local rivers (Rocky River, Cuyahoga River etc.) and their valleys to teach principles of geology and geography. Students will meet in the Metro parks or Cuyahoga Valley National Park on most class days.

**GEO 227 - Environmental Geology, 3 credit hours**

Provides students with a basic understanding of Earth systems (biosphere, atmosphere, etc.), their interaction, and the relationship between humans and the Earth, including value, limits, and threats to Earth's resources. This course will address topics such as climate change, energy resources, soil and water use and resources, environmental degradation, and waste disposal.

**GEO 229 - Oceanography, 3 credit hours**

A study of the physical aspects of the oceans starting with the ocean floor continuing to the chemical make up of the water, the currents, and movement of the waves. The ocean environment and relationship between the ocean and the atmosphere will be included.

**GEO 295 - Independent Study, 1-4 credit hours****GEO 315 - Hydrology, 4 credit hours**

**Prerequisite(s):** GEO 104 or GEO 111 or GEO 121 or BIO 122; and Core Math.

This course covers all aspects of the hydrologic cycle, including precipitation, stream discharge, groundwater flow, and surface runoff. Human influence on the hydrologic cycle, contaminant transport, and hydrologic statistics will also be addressed, with special attention given to data collection and analysis in the field and laboratory settings.

**GEO 316 - Soils and Geomorphology, 4 credit hours**

**Prerequisite(s):** GEO 104 or GEO 111 or GEO 121 or BIO 122

This course examines the physical and environmental aspects of surface processes and soil development, including a detailed study of landform analysis and the physical structure of soils. Laboratory work will include basic landform mapping, soil profile description, field sampling techniques, and stream geomorphology, and will culminate with a group project on local soils and geomorphology.

**GEO 395 - Independent Study, 1-4 credit hours****GEO 495 - Independent Study, 1-4 credit hours****German****GER 101 - Elementary German I, 4 credit hours**

**Prerequisite(s):** None. Appropriate course for beginners. Students with more than two years of high school German must have special permission of the instructor to register for GER 101.

German 101 begins with an introduction to basic vocabulary, from numbers and greetings through foods and furniture to travel topics. Class time is used to practice speaking and listening skills, where you can expect to respond to questions, do numerous pair exercises and participate in role playing. Students learn about the gender of nouns and pronouns, the nominative, accusative and dative cases and the use of prepositions. Regular and irregular verbs in both the present and present perfect tenses are taught as well as modal auxiliary verbs. Among others, the basic functions of asking and giving personal information, making a purchase, ordering in a restaurant, and giving directions are stressed in written homework as well as in oral work in class. The reading assignments and supplements to the book provide interesting cultural information about the German-speaking countries.

**GER 102 - Elementary German II, 4 credit hours**

**Prerequisite(s):** GER 101 or equivalent.

German 102 reviews the student's basic knowledge of the nominative, accusative and dative cases and introduces

the genitive. Students will be taught how to tell stories in the simple past tense, use attributive adjectives, make comparisons, use the future tense, form sentences in passive voice, and to use the subjunctive to indicate conjecture. Discussion topics include sports and leisure, overnight lodging, entertainment, the German school system, fairy tales and German history. Written practice comes mainly in the form of homework, and time in class concentrates on practicing speaking and listening. The textbook is supplemented with educational language videos, recorded music and interactive small group exercises.

#### **GER 201 - Intermediate German I, 4 credit hours**

**Prerequisite(s):** GER 102 or equivalent. Appropriate entry point for most people who have had more than two years of solid high school German. Required of all German majors and minors.

This first level of the intermediate sequence reviews the basic skills which you acquired in your elementary language study and expands upon them. Although a thorough review of all grammar is given, special attention is paid to the following difficult areas of grammar: adjective endings, past tenses, relative pronouns. The exercises are designed to increase your ability to read, write, speak and understand German. You will be given a selection of authentic reading assignments which are appropriate for your level, and which deal with topics of German-speaking culture and life in Europe. Role play, pair work and writing assignments ask for your personal, creative reaction to the readings. All class discussions, readings and written assignments are in German, but do not require an advanced level of language ability.

#### **GER 202 - Intermediate German II, 4 credit hours**

**Prerequisite(s):** GER 201 or equivalent. Required of all German majors and minors.

German 202 is a continuation of the intermediate level and builds upon the reading, speaking and writing skills practice in GER 201 and continues to strengthen accuracy with an investigation of grammar including relative pronouns, the subjunctive I and II and the passive voice. GER 202 is the prerequisite for advanced level German language classes. Classroom discussions and written assignments center on authentic literary and cultural texts of varying length. The course is taught in German. Class work provides listening and speaking practice while homework affords the chance to sharpen writing skills.

#### **GER 240I - Contemporary Germany & Austria, 3 credit hours**

**Prerequisite(s):** None, taught in English

A discussion of social, political and artistic trends in contemporary German-speaking countries. Students may receive language credit if their reading and papers are done in German. This course may be offered in the eight week minimester format. In addition, this course may be used as a preparatory course for study abroad programs.

#### **GER 263I - Seminar, 3 credit hours**

**Prerequisite(s):** GER 202.

A foundational course, similar to GER 275I, in which students use and build upon their language skills to be able to understand and analyze literary texts. GER 263I is a close study of a selected topic in German. May be repeated if a different topic is offered. Depending on the topic, this class may substitute for courses required of the German minor or major. All work is done in German and this course may serve as a prerequisite for GER 375I and 376I.

#### **GER 265I - Art and Literature of the Holocaust, 3 credit hours**

This course examines different ways of remembering the Holocaust, an unrepresentable event that reshaped how we commemorate the past privately and publicly as well as how we respond to political and moral crises.

Taught in English. German majors may take it for German credit if they fulfill research and writing requirements in German.

#### **GER 275I - Introduction to Visual Culture, 4 credit hours**

**Notes:** Required of all German majors.

**Prerequisite(s):** GER 202 or equivalent.

This foundational course will further your practical linguistic and cultural understanding of German while giving you an introduction to German literature. While honing their language to understand and analyze literary texts from several of the major literary movements, Students will read a variety of genres and authors from works of various periods and



seek to understand and interpret them in their cultural and historical context. All reading, discussion and writing is done in German.

**GER 294 - Workshop in German, .5 credit hours**

**Notes:** May be repeated for credit.

**Prerequisite(s):** GER 102 or equivalent recommended.

Practicum in German oral expression. Designed to work on spontaneous interpersonal communication in a supportive and convivial setting. Focus on informal conversation, discussions, debates, and interviews. German music, popular culture, and current events might serve as a springboard for conversation. The workshop might also involve staging a theatrical performance, and/or experiential German activities in the Cleveland area during some minimesters. Students will participate in ongoing assessment of their skills and work towards making individual progress.

**Graded:** S/U

**GER 295 - Independent Study, 1-4 credit hours**

**GER 298X - Internship, Credit hours to be arranged**

The for-credit internship registration process is handled via the Career Center Handshake platform. To register your internship for credit, please contact Career Center at [career@bw.edu](mailto:career@bw.edu).

**GER 310I - German Civilization, 3 credit hours**

**Prerequisite(s):** GER 202.

A sweeping survey of the historical and cultural development of the German nation from the Germanic tribes to the ultimate formation of the Federal Republic of Germany. Strong emphasis is placed on European history and Germany's central role in Western Civilization. Readings are heavily supplemented by historical, documentary films. All work is done in German. Required of all German majors.

**GER 335I - Advanced Composition and Conversation, 4 credit hours**

**Notes:** Required of all German majors.

**Prerequisite(s):** GER 202

This popular course seeks to fine tune the student's command of German with an advanced review of German grammar. With an emphasis on oral and written communication, this course clears up a number of particularly challenging grammar points, gives a comprehensive explanation of modal particles and offers targeted vocabulary used to express opinions and regulate discussions. Expect numerous written assignments and daily oral exercises in class.

**GER 350I - Techniques of German Translation, 3 credit hours**

**Prerequisite(s):** GER 202.

A brief introduction to theories of translation, followed by practical experience translating various texts. Most assignments will be translations from German to English.

**Semesters Offered:** Offered in alternate years.

**GER 360I - German for Global Professional Purposes, 3 credit hours**

**Prerequisite(s):** GER 202.

An introduction to commercial terminology in German plus cultural study of the institutions needed for business. Students also learn the rudiments of German business correspondence and telephone etiquette. Considerable time will be devoted to modern German culture as it determines the nature of business with Germans.

**Semesters Offered:** Offered in alternate years.

**GER 375I - Introduction to Studies in Early German Literature, 3 credit hours**

**Prerequisite(s):** At least one of GER 263I, GER 275I or GER 310I or permission of instructor.

This study of German literature will include works from the earliest periods to the beginning of the nineteenth century. GER 376I and 375I may be taken in any order.

**GER 376I - Studies in Modern German Literature, 3 credit hours**

**Prerequisite(s):** GER 202, equivalent or permission of instructor.

A survey of German literature from Romanticism to the 20th century. GER 376I and GER 375I may be taken in any order.

**GER 395 - Independent Study, 1-4 credit hours****GER 398X - Internship, Credit hours to be arranged**

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**GER 463I - Special Topics Seminar, 3 credit hours**

**Prerequisite(s):** Advanced standing and permission of instructor.

GER 463I is intended to be a capstone seminar which builds on a significant understanding of German Studies. Topics may vary. Students may take the course twice if different topics are offered. GER 463I is typically taken by juniors and seniors and is cross-listed with other courses.

**GER 495 - Independent Study, 1-4 credit hours****GER 498X - Internship, Credit hours to be arranged**

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## History

**HIS 101I - World Civilizations I: Ancient to Medieval, 3 credit hours**

HIS 101I explores the origins, developments, and interactions of the world's peoples, cultures, and states from prehistory to 1500.

**HIS 102I - World Civilizations II: Imperialism and World War, 3 credit hours**

Europe rises to global power amidst exploitation of American and African labor as the reach of Islamic Empires and East Asia recedes. Imperial conflicts lead to world wars, then to the Cold War, then to the war on terror.

**HIS 151 - History of the United States I, 3 credit hours**

A comprehensive analysis of the origins and growth of American civilization. The first course covers the development of the United States from the discovery period to the end of the Civil War. The second course covers from 1865 to the present.

**HIS 152 - History of the United States II, 3 credit hours**

A comprehensive analysis of the origins and growth of American civilization. The first course covers the development of the United States from the discovery period to the end of the Civil War. The second course covers from 1865 to the present.

**HIS 170D - Diversity in America, 3 credit hours**

This course covers the issue of diversity in America from the colonial era to the present. Topics may include: racial diversity, national origins, women's issues, differing creeds, and sexual orientation.

**HIS 200 - Quantitative Research Methods for Humanities, 3 credit hours**

**Prerequisite(s):** Core Math

This is a hands-on methods course that uses mathematics and quantitative reasoning skills to teach students how to design research, determine the feasibility and practicality of this research, and obtain, analyze, and interpret evidence from a variety of sources and disciplines. Students will use statistical analysis and mathematical reasoning to

address larger issues in the humanities such as the types of sources most likely to provide useful data, the pros and cons of turning data into an index, generating new questions from descriptive statistics, identifying causation and designing experiments with historical data, the difference between a statistically significant difference and a stereotype, and using statistics to test a counterfactual contingent hypothesis. This class emphasizes research skills that are important to all fields in the humanities, and encourages critical thinking skills that will be useful in making intelligent and informed decisions as actively contributing members of society.

### **HIS 2011 - A Global History of Science, 3 credit hours**

**Prerequisite(s):** ENG 131

This course traces the history of science as a global process of discovery in which new scientific ideas, methods, and technologies emerge from different international cultural contexts at different periods of time. The course presents the writings of scientific thinkers and asks students to reflect on how culture affected these thinkers' ideas and reception of those ideas. The course also teaches writing through a developmental process, in which students write essays in response to prompts and primary course readings, receive feedback, and revise.

### **HIS 205 - History and the Environment: Global Perspectives, 3 credit hours**

This course examines how major events in world history have impacted the natural environment. Sample themes such as the agricultural revolution, the Columbian Exchange, industrialization, and global epidemics will tie together geography, history, and the environment.

### **HIS 210 - Ohio History, 3 credit hours**

This course provides an overview of the settlement and development of Ohio from the pre-Columbian era to the present era. When discussing the significant national issues and events of this same period, the focus will be on Ohio's role and reaction and enduring themes of Ohio's history - the cultural diversity of its people and its representative character. Major topics to be discussed include Native Americans, the French & Indian War, early settlement, Indian Wars, statehood, the War of 1812, economic & industrial growth, social & religious reform movements, anti-slavery, sectionalism, Ohio's role in the Civil War & Reconstruction, the "Ohio Dynasty," and Ohio into the 20th century. The course will follow this topical approach by focusing on political, social, cultural, and military developments of the period. Of course, since this is a course focusing on the great state of Ohio, the role of famous Ohioans will also be highlighted in the discussion of each topic. Student participation in the form of questions and/or discussion is welcomed and encouraged.

### **HIS 2211 - Europe: From Black Death to French Revolution, 3 credit hours**

This course explores European history through the impact of the Black Death on medieval Europe, the changes brought about by the Renaissance, the discovery of the so-called "New World" and its consequences, the Protestant Reformation, the development of modern capitalism, the rise of the modern nation-state and absolute monarchies, and the era of Revolutions. Certain themes will become apparent throughout the course, such as the influence of religion in politics and conflict, nationalist rivalries, the growth of empire and modern commerce, and the development of Enlightenment thought.

### **HIS 2221 - Europe: From Revolution to World War and Globalization, 3 credit hours**

This course surveys the rise of modernity in Europe. Students explore the Napoleonic conquests, the Industrial Revolution, the economic and cultural aspects of imperialism and their impact on non-European civilizations, the causes and results of the two world wars, and the cultural developments of the post-war twentieth century.

### **HIS 2271 - History of Africa, 3 credit hours**

**Prerequisite(s):** ENG 131

This course provides a basic survey of African history. Attention will be given to the development of African kingdoms and their fall during the African colonial period. Particular emphasis is placed on the period of independence and the political, social, economic and cultural aspects of the modern states of Africa.

**HIS 235 - Women in Western Civilization, 3 credit hours**

A study of the role and impact of women on the development of Western society. Special emphasis is placed on the biographies of significant and influential women.

**HIS 236I - Women in Asian Civilizations, 3 credit hours**

An introduction to the history of women's roles in East Asia, India, and the Middle East. Special attention will be paid to religious and social factors and developments in the history of ideas that influence the position of women in these societies. No prior knowledge of Asian history is required.

**HIS 245I - Survey of Russian History, 3 credit hours**

This course is a one-semester survey of Russian history from the 800s to the present, treating the origins and expansion of the Russian state, interactions between state and society, Russia's relations with the outside world, and the shifting fortunes of Russia's minority peoples under Russian, Soviet, and post-Soviet rule.

**HIS 250D - African-American History, 3 credit hours**

This course will provide a survey of the historical, political, economic, social and cultural contributions of African-Americans in the U.S. from roots in Africa and colonial times to the present, and is organized around the premise: African-American history cannot be understood except in the broader context of American history; American history cannot be understood without African-American history. Throughout the course, when discussing significant national issues and events, the focus will be on the contributions of African-Americans and their roles in the development and history of the United States. The course will balance accounts of the actions of African-American leaders with examinations of the lives of ordinary men and women.

**HIS 260(D) - Topics in History, 3-4 credit hours**

A basic introduction to specific areas or fields of history.

**HIS 267 - Vietnam War: Causes and Consequences, 3 credit hours**

An in-depth, intensive study of the causes, impact and legacy of a seemingly endless struggle in Vietnam. Emphasizing the history and culture of Vietnam and utilizing lectures, readings, discussion and video material, the course will attempt to highlight the clash of cultures and sort out the blur of images which is the continuing legacy of Vietnam today.

**HIS 270I - Latin America, 3 credit hours**

A crucible of three major cultures -- Native American, European, and African -- the region of Latin America is a fascinating study in contrasts. Some of the oldest democratic constitutions in the world were drafted in Latin America, yet the region still wrestles with the negative legacies of colonialism, imperialism, and feudal exploitation. This course will explore the history of this diverse region, from the first great American civilizations of the Pre-Columbian era, to the problematic and protean present.

**HIS 288I - Islamic History 600-1800, 3 credit hours**

Explores the history of the early Islamic community, the Crusades, the "Golden Age" of Islam, and the Gunpowder Empires. Focuses on economic, intellectual, and cultural developments, and the geographical areas of the Middle East, North Africa, and India.

**HIS 291I - History of East Asia I, 3 credit hours**

A survey of the history of East Asia (primarily China, Japan, Korea, and Mongolia) from ancient times to the rise of the Mongols, emphasizing the origins of statehood, interactions between state and society, relations among East Asian societies and between East Asia and the outside world, and the development of East Asian political, social, economic, and cultural institutions.

**HIS 292I - History of East Asia II, 3 credit hours**

A survey of the history of East Asia (primarily China, Japan, Korea, and Mongolia) from the rise of the Mongols to the present, emphasizing interactions between state and society, the evolution of East Asian political, social, economic, and cultural institutions, relations among East Asian societies and between East Asia and the outside world, and the impact of imperialism and modernization.

**HIS 295 - Independent Study, 1-4 credit hours****HIS 298X - Internship, Credit hours to be arranged**

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**HIS 321 - Classical Antiquity to the Fall of Rome, 3 credit hours**

**Prerequisite(s):** One 100 or 200-level history course.

Ancient Egypt and Mesopotamia, the Hebrews and the Greeks, the heritage of Rome: this course explores the glories and travesties of the great civilizations of classical antiquity and their legacies in the modern world.

**HIS 322 - Medieval Europe to the Black Death, 3 credit hours**

**Prerequisite(s):** One 100 or 200-level history course.

From the rise of Christendom, this course explores the consolidation of European states, the age of chivalry and serfdom, of Celts and Vikings and Crusades and the rise of middle class commerce, up to the devastation of the Black Death.

**HIS 323 - Enlightenment, French Revolution, and Napoleon, 3 credit hours**

**Prerequisite(s):** One 100 or 200-level history course

HIS 323 is an advanced study of the Enlightenment, the French Revolution, and the Napoleonic Era. This course follows the philosophical developments of the Enlightenment, many of which formed the rhetorical basis for the events of the French Revolution, which deposed monarchy in favor of a republic. The course will conclude with an examination of the Napoleonic Era.

**HIS 339 - History of War, 3 credit hours**

**Prerequisite(s):** One 100 or 200-level history course

A survey of Western warfare from antiquity to the present.

**HIS 342 - World War I, 3 credit hours**

**Prerequisite(s):** One 100 or 200-level history course

The First World War (1914-1918) was the seminal event of the twentieth century. This course will cover the origins, progress, and consequences of the war. Special emphasis will be placed on the following topics: why the world went to war in 1914; why the people of the "civilized" nations killed each other on an unprecedented scale; how strategy, tactics, and weaponry evolved during the war; what was the social impact of the conflict; and how the war shaped the rest of the century.

**HIS 343 - The Second World War, 3 credit hours**

**Prerequisite(s):** One 100 or 200-level history course.

The Second World War was the largest and most destructive war in history. This course will provide students with a comprehensive understanding of the causes, development, and consequences of the war as a global conflict. Concerning the background of the war, there will be an analysis of the principal economic, political, diplomatic, and ideological developments after World War I that undermined global stability and gave rise to the Axis powers (Japan, Italy, and Germany). While exploring a variety of individual perspectives on the Second World War, the course will cover all the major ground, naval, and air campaigns, and analyze how the Allies were able to defeat the Axis powers. Special focus will be on war mobilization, grand strategy, pivotal military engagements, experiences of common soldiers, economic productivity, technology and weaponry, espionage, the Holocaust and other war crimes, conditions on the home fronts, roles of women and minorities in the conflict, and the emergence of nuclear warfare.

The course will conclude by analyzing the great effects of the conflict on the post war world, especially the long-term ramifications of the Cold War, technological changes, and global decolonization.

**HIS 344I - Early Russia, 3 credit hours**

**Prerequisite(s):** One 100 or 200-level history course or INT 200I

An in-depth study of the history of Ancient and Mediaeval Russia from the pre-Slavic past to the early eighteenth century, stressing the evolution of Russia's political, economic, social, and cultural institutions, popular challenges to political, cultural, and religious authority, and Russia's expansion into a multiethnic state.

**HIS 345I - Imperial Russia, 3 credit hours**

**Prerequisite(s):** One 100 or 200-level history course or INT 200I

An in-depth study of the history of Russia from the eighteenth century to the last decades of Tsarist rule, with an emphasis upon relations between state and society, the formation of the Russian revolutionary tradition, Russia's cultural and ethnic minorities under imperialism, and attempts to reform Russia's political and social system.

**HIS 346I - Modern Russia, 3 credit hours**

**Prerequisite(s):** One 100 or 200-level history course or INT 200I

An in-depth study of the history of late Tsarist, Communist, and post-Communist Russia, emphasizing the collapse of the autocracy and the triumph of the revolution, the Russian experience in the First and Second World Wars, the changing experiences of the non-Russian minorities, the collapse of Communism, and the emergence of the post-Communist order.

**HIS 349I - Modern Britain, 3 credit hours**

**Prerequisite(s):** One 100 or 200-level history course

An in-depth examination of British history since 1714, providing a more advanced and specialized study of topics such as the Hanoverian century, the rise of constitutionalism, the Victorian Age and the rise and fall of the British empire. Britain in the two world wars, the construction of the welfare state, Thatcherism, New Labour and the impact of the European Union are also explored.

**HIS 350 - Colonial America, 3 credit hours**

**Prerequisite(s):** One 100 or 200-level history course

A study of the exploration, conquest, and settlement of the New World. Topics include the growth of Anglo-American society, the development of Anglo-Indian relations, the origins of slavery, and the causes and consequences of changes in British imperial policy.

**HIS 351 - The American Revolution, 3 credit hours**

**Prerequisite(s):** One 100 or 200-level history course

A study of the causes, development, and consequences of the Revolutionary War. The course also covers the post-war developments that led to the creation and ratification of the Constitution.

**HIS 352 - Jefferson-Jackson, 3 credit hours**

**Prerequisite(s):** One 100 or 200-level history course

A study of the United States from the Constitutional Convention of 1787 to the mid-nineteenth century. Topics will include the first and second political party systems, the War of 1812, westward expansion, slavery, reform movements, the transportation and communications revolutions, and the Mexican War.

**HIS 353 - U.S. Civil War, 3 credit hours**

**Prerequisite(s):** One 100 or 200-level history course

A study of the causes and course of the Civil War, as well as an examination of the postwar Reconstruction era.

**HIS 354 - U.S. Reform and War, 1876-1920, 3 credit hours**

**Prerequisite(s):** One 100 or 200-level history course

This course will provide an intensive examination of the period from the centennial year of 1876 to the presidential election of 1920. Emphasis will be placed on the interplay of political, social, and economic forces in the development of the United States into an industrial and world power. Topics will include the rise of industrial and urban America, the impact of immigration, the growth of organized labor, the emergence of the New South, cultural conflict and the technological transformation of society, Gilded Age politics and the crises of the 1890s, Progressivism and the rise of the regulatory state, the Spanish-American War and U.S. involvement in world affairs, the United States in World War I, and the post-war Red Scare.

**HIS 355 - Modern America: 1920-1945, 3 credit hours**

**Prerequisite(s):** One 100 or 200-level history course

A study of the growth of the United States as an urban -industrial nation and consequent problems of economic power and political adjustment. The course highlights the growth of the United States as a world power. Topics discussed include the end of World War I, the Roaring Twenties, the agony of the Depression Thirties and World War II at home and abroad.

**HIS 356 - Recent America: 1945-present, 3 credit hours**

**Prerequisite(s):** One 100 or 200-level history course

A study of domestic and foreign issues in America from 1945 to the present. In-depth analysis of major political, social and economic changes and adaptations. Emphasis is placed on change and continuity in domestic and foreign policies in the cold-war Forties, the "flat" Fifties, the "sick" Sixties, the "selfish" Seventies and the early Eighties.

**HIS 360(X) - An In-depth Study of Topics in History, 3-4 credit hours**

**Prerequisite(s):** One 100 or 200-level history course

The topics will be supplementary to the material offered in 300-level courses, but taught in a more specific manner. This course can be taken more than once if the subject matter has changed.

**HIS 3811 - The Arab-Israeli Conflicts, 4 credit hours**

**Prerequisite(s):** One 100 or 200-level history course or INT 200I

An exploration of the Arab-Israeli conflicts from the beginning of Jewish settlement in Ottoman Palestine in the 1880s to the present time.

**HIS 389I - The Modern Middle East, 4 credit hours**

**Prerequisite(s):** One 100 or 200-level history course or INT 200I

An introduction to the history of the Middle East in the 19th and 20th centuries. The dominant theme of the course is Middle Eastern peoples' engagement with western ideas and their rediscovery of their own traditions as means to grapple with western political and economic domination. Topics include 19th century reformism (political, military, economic, and religious), economic dependency, Imperialism, Zionism, the Arab-Israeli conflict, Arab socialism and the rise to power of Saddam Hussein, the Iranian revolution, the rise of Islamic fundamentalist and militant groups.

**HIS 395 - Independent Study, 1-4 credit hours****HIS 398X - Internship, Credit hours to be arranged**

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**HIS 400 - Advanced Historical Research and Writing, 1 credit hour**

**Prerequisite(s):** ENG 131 and one 200 or 300-level HIS course in the student's declared area of concentration.

Students will prepare and revise a research paper of at least 5,000 words related to the content of a 200- or 300-level course taken in a previous semester. The workshop entails pre-writing activities such as developing a thesis, bibliography, and outline; meeting weekly with the supervising instructor to discuss detailed feedback on research methods, thesis-driven and evidence-based argumentation, writing, and Chicago-style documentation; and preparing

multiple drafts. The finished product may be used for presentation at professional conferences or Ovation or as a writing sample for graduate school applications.

**HIS 459X - Faculty-Student Collaboration, Credit hours to be arranged**

**HIS 461 - Historiography, 4 credit hours**

**Prerequisite(s):** ENG 131 and a minimum of 15 credit hours in history courses or consent of the instructor

This class helps students prepare to teach history through balanced and critical selection of sources, to answer questions about historical subjects in an enlightened manner, and to do advanced theoretical work. Students will gain an understanding of how history developed as a discipline from ancient times to the present, explore contemporary theories that influence the way historians understand history and historical writing today, and hear case studies that show how historians' selection and interpretation of sources affect the story they tell. Students do historiographical research on a topic of their own interest and gain practical experience in teaching about historiographical issues through a class presentation. Required of all history majors.

**HIS 463 - Seminar in History, 2-4 credit hours**

Must have consent of the instructor.

**HIS 491 - Senior Thesis, Credit hours to be arranged**

**Prerequisite(s):** Consent of Department. Interested students should contact Department Chairperson.

**HIS 492 - Departmental Thesis/project, Credit hours to be arranged**

**Prerequisite(s):** Consent of Department. Interested students should contact Department Chairperson.

**HIS 495 - Independent Study, 1-4 credit hours**

**HIS 498X - Internship, Credit hours to be arranged**

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## Honors

**HON 198X - Honors Guided Internship, 1-3 credit hours**

In this guided internship course, students will serve as interns in the workplace and meet weekly to discuss readings and reflection relevant to their experiences at work. Placements could be in not-for-profit, for-profit, or educational organizations. Weekly reflection meetings with the faculty supervisor, a weekly journal, and a final experiential reflection essay are designed to solidify the student's learning from this experience. The for-credit internship registration process is handled via the Career Center Handshake platform. To register your internship for credit, please contact Career Center at [career@bw.edu](mailto:career@bw.edu).

**HON 200 - Interdisciplinary Honors Theme, 3-4 credit hours**

HON 200 is a course with an intentional perspective from two core schools (Humanities, Natural Sciences, and Social Sciences). The themes range from the narrow to the broad. This interdisciplinary approach is intended to help the student understand how different disciplines address current problems, how thinking has evolved, and how to integrate modes of thinking across disciplines.

**HON 250 - Special Topics, 1-4 credit hours**

Special Topics courses (Example: Problem Solving, Constructing Scientific Knowledge, Freedom vs. Equality, Ethical Clashes)

**HON 350 - Seminar in Honors, 1-4 credit hours**

Advanced Special Topics courses. Junior or Senior status required.



**HON 459X - Faculty-Student Collaboration, 3 credit hours**

Through the FSC courses Baldwin Wallace University encourages and supports faculty-student collaborators as they tackle the inquiry-based, unscripted problems typical of research, scholarship and other creative endeavors. These courses facilitate the engagement of students and faculty in the deep learning required for the creation, practice, and sharing of knowledge or works in their area of professional study. Enrollment in the course is competitive and requires that collaborating students and faculty submit a project proposal.

**HON 491 - Honors Thesis, 1-4 credit hours**

This Honors Program course will be offered on an independent study basis and is suggested for students in their junior or senior year. The topic must be approved by the Director of the Honors Program.

## Hospitality and Tourism Management

**HTM 240 - Introduction to Hospitality and Tourism Management, 3 credit hours**

This course explores the history and development of the hospitality and tourism industries. The course will focus on the exploration of different sectors of the hospitality and tourism industries, travel motivations, experience management, supply and demand for tourism products and services, trends and issues, and effects of hospitality and tourism industries on individuals, cultures, and native environments.

**HTM 326 - Tourism in Recreation and Leisure, 3 credit hours**

**Prerequisite(s):** ASW 226, HTM 240, BUS 108, SPM 243, or MGT 205

The course aims to develop a clear understanding of the relationship between the theory and practice of working in tourism in recreation and leisure. The course is designed to encourage students to develop an understanding of tourist industry operations and problems, and competence in identifying procedures and solutions, by using best practice from industry, established business techniques and information systems.

**HTM 342 - Hospitality and Tourism Marketing and Sales, 3 credit hours**

**Prerequisite(s):** MKT 230

This course will introduce the core principles of marketing within the realm of hospitality and tourism management. Emphasis will be placed on strategies to actively engage consumers in experience industry settings through marketing and sales. An in-depth analysis of marketing strategies and theories will aid a holistic appreciation of the scope and importance of the marketing and sales functions in the hospitality business.

**HTM 343 - Customer Experience Management in Hospitality & Tourism, 3 credit hours**

**Prerequisite(s):** ASW 226, HTM 240, BUS 108, SPM 243, or MGT 205

This course explores how hospitality and tourism professionals create and manage purposefully designed and staged situated experiences. Students will gain a foundation in experience management with necessary knowledge on how to design, develop, implement, and evaluate, situated experiences.

**HTM 344 - Hospitality & Tourism Lodging and Operations, 3 credit hours**

**Prerequisite(s):** ASW 226, HTM 240, BUS 108, SPM 243, or MGT 205

This course introduces and discusses the organization and administration of hospitality and tourism lodging operations including front desk operations, housekeeping, sales/marketing, management and other positions common to lodging operations.

**HTM 497X - Internship, 3 credit hours**

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## Humanities

### **HUM 200H - Global Citizenship: Succeeding in an Intercultural World, 3 credit hours**

**Prerequisite(s):** ENG 131

What does it mean to live in this intercultural world? How can we make sense of ourselves, our relationship to others, and our relationship to nature in the midst of cultural difference, violence, global poverty, the destruction of the ecosystem, and the pervasive hope that we can make our world a better place for all people? In this course, students and faculty engage with current events and the ideas of influential thinkers from various liberal arts disciplines; together, we explore ways of responding to some complex issues facing us all today.

### **HUM 215 - Career Pathways for Humanities Majors, 1 credit hour**

**Prerequisite(s):** Sophomore Standing

This course guides Humanities students through the exploration of possible career pathways in order to increase their knowledge about and confidence in finding a rewarding career that will make use of the skills they developed in their Humanities classes.

**Graded:** S/U

### **HUM 270X - Career Connections for Humanities Majors, 1-3 credit hours**

**Prerequisite(s):** Sophomore Standing, 3.0 GPA, & Application to Professor- resume, cover letter, recommendation.

A guided internship in business and not-for-profit organizations with weekly meetings with the faculty supervisor to reflect, read relevant materials, and begin to chart out a career path.

### **HUM 285I - Intercultural Communication, 3 credit hours**

This course, taught in English by faculty of the Department of Foreign Languages and Literatures, will complement the basic familiarity with intercultural communication. The goal is to analyze difficulties in communicating across cultural boundaries, misunderstandings arising from cultural differences and techniques for living and working successfully in an intercultural setting with a stress on international differences. The course utilizes film analyses, critical incidents, and other experiential learning techniques. Special focus will be on intercultural theories including monochronic vs. polychronic time orientation, an expansion of the basic value orientations, the interconnection of language and culture in both verbal and non-verbal communication and on studies of intercultural matters in specific contexts. It is required of foreign languages majors, but is appropriate for any student interested in cultural studies, those wishing to engage in international travel, study abroad or in working and living in an increasingly global society.

### **HUM 295 - Independent Study, 1-4 credit hours**

### **HUM 395 - Independent Study, 1-4 credit hours**

### **HUM 495 - Independent Study, 1-4 credit hours**

## International Studies

### **INT 200I - Introduction to International Studies, 3 credit hours**

**Notes:** Open to seniors with instructor permission. This course is not open to entering freshmen. Students will have the option to use second language skills to research selected assignments.

This course studies how individuals acquire their cultural, national and state identifications and how these varied identifications complicate coping with a variety of global challenges arising from increasing interdependence and, through case studies and simulations, challenges students to adopt different perspectives and experience the possible cooperation or conflict which results. It provides an introduction to a global community in transition in the post-Cold War world and to the interdisciplinary approach which characterizes the study of international affairs.

**INT 250I - Security, Technology and Threat Assessment, 3 credit hours**

**Notes:** Open to seniors with instructor permission. This course is not open to entering freshmen. Students will have the option to use second language skills to research selected assignments.

This introduction to security analysis will provide an overview of security threats ranging from the traditional definition focused on war to an enlarged conception of human security and existentialist threat assessment encompassing a broader range of issues including the environment and health. Attention will be directed at the challenges of managing complex interdependent systems of governance and associated risks of information analysis under conditions of advancing technology. Emphasis will be placed on understanding the overlap in types of security threats, the importance of applying different perspectives and related information and management issues which arise in developing appropriate responses.

**INT 390 - Preparing for Post-BW, 1 credit hour**

**Prerequisite(s):** Junior or Senior Standing International Studies Majors Only.

This one credit workshop will help students analyze their academic and co-curricular experiences in ways that help them develop post-graduation plans for graduate school, law school, or employment. Students are encouraged to take this during the fall of their junior year.

**INT 459X - Faculty-Student Collaboration, Credit hours to be arranged****INT 463 - Senior Capstone Seminar, 3 credit hours**

**Prerequisite(s):** ENG 131, INT 200I, INT 250I and senior standing.

An integrative interdisciplinary capstone seminar which draws on at least two of the disciplines which comprise the International Studies and National Security majors to analyze a contemporary topic of global significance. Consult the International Studies section of the course schedule for topics and scheduling information.

**INT 491 - Senior Thesis, Credit hours to be arranged**

The Senior Thesis gives juniors and seniors the opportunity to do intensive research on a particular topic of global significance. Students develop their study under the direct supervision of a faculty member as approved by the head of the department or program in which the study will be done. The departmental thesis/project is intended to afford students an opportunity to engage in a study of a significant field of knowledge, to carry on original investigation when possible, and to further develop their abilities of self-expression.

**INT 492 - Departmental Thesis Project, Credit hours to be arranged**

The Departmental Thesis/Project gives juniors and seniors the opportunity to do intensive work on a particular topic of global significance. Students develop their study under the direct supervision of a faculty member as approved by the head of the department or program in which the study will be done. The departmental thesis/project is intended to afford students an opportunity to engage in a study of a significant field of knowledge, to carry on original investigation when possible, and to further develop their abilities of self-expression.

## Italian

**ITL 101 - Elementary Italian I, 4 credit hours**

**Prerequisite(s):** None. Appropriate course for beginners. Students with more than two years of high school Italian must have special permission of the instructor to register for ITL 101.

An introduction to basic Italian vocabulary, pronunciation and grammar. Students complete the first half of the elementary Italian textbook.

**ITL 102 - Elementary Italian II, 4 credit hours**

**Prerequisite(s):** ITL 101 or equivalent.

ITL 102 assumes some active knowledge of basic Italian and builds on the skills taught in ITL 101, completing the elementary textbook.

**ITL 295 - Independent Study, 1-4 credit hours**

**ITL 395 - Independent Study, 1-4 credit hours**

**ITL 495 - Independent Study, 1-4 credit hours**

## **Latin American Studies**

**LAM 200 - Understanding Latin America, 3 credit hours**

The course immerses students into Latin American studies by introducing them to the history, society, politics and culture of the region through a cross-disciplinary and multinational approach.

## **Management**

**MGT 170 - Explorations in Healthcare Careers, 1 credit hour**

This course provides a general exploration and evaluation of career opportunities in the field of healthcare management. The course will help prepare students for the internship search process and provide preparation to guide later career decisions.

**MGT 205 - Introduction to Management, 3 credit hours**

**Prerequisite(s):** Sophomore standing

This course examines the leadership activities of managers within organizations in various environments. It also analyzes the functions of management from a holistic or systems perspective with emphasis on behavioral interaction and integration to create organizational effectiveness. Students apply knowledge acquired to successfully meet individual and organizational challenges.

**MGT 295 - Independent Study, 1-4 credit hours**

**MGT 305 - Individual Development Plan I, 3 credit hours**

This course will provide an assessment of individual student skills, interests, and values. Plans for achieving academic and professional goals are informed by assessment, reflection, conversation with organizational mentors, and faculty advisors. Students are coached through the process of communicating with organizational mentors about the evolving plan and needs for development.

**MGT 306 - Individual Development Plan II, 3 credit hours**

This course will provide an assessment of individual student skills, interests, and values. Plans for achieving academic and professional goals are informed by assessment, reflection, conversation with organizational mentors, and faculty advisors. Students are coached through the process of communicating with organizational mentors about the evolving plan and needs for development.

**MGT 310 - Human Resource Management, 3 credit hours**

**Prerequisite(s):** MGT 205 or HTM 240

This course provides an overview of the various functions in the field of Human Resource Management. The functions of planning, selecting, compensating, appraising, training, and development are covered. Legislation and laws pertaining to these functions as well as labor relations and health and safety are examined. Overall organizational strategy is incorporated into the application of all Human Resource functions.

**MGT 325 - Organizational Project Management, 3 credit hours**

**Prerequisite(s):** MGT 205

This course prepares students for the needs of work environments that are increasing project based. The course builds skills that allow managers to plan, organize, direct and control resources to achieve a specific objective.

Managers working with large complex projects systematically break them down until they become a series of manageable tasks. Keeping these tasks occurring on schedule and within budget is the Project Managers' role.

**MGT 329 - Organizational Ethics, 3 credit hours**

**Prerequisite(s):** Sophomore status and one completed Business course

Business ethics provides an examination of moral problems facing organization managers with a focus on learning how to integrate ethical thinking with strategic thinking in shaping actions. Students analyze actual case problems, learning to use various ethical theories as a guide to clear thinking.

**MGT 340 - Biomimicry- Nature Inspired Product Design, 3 credit hours**

Biomimicry is an emerging field that is encouraging scientists, engineers, social scientists, and inventors to look more closely at nature's way of doing things as more sustainable than our human way. Nature has a rich and largely unexplored library of technologies that process and manage information, materials and energy. Students will both engage in the process of investigation as well as learn about opportunities for applications in various professional and vocational fields, thus broadening their career choices and desires. Students will have unique opportunity to learn and experience how biomimicry inspires and makes changes to various human activities and disciplines: business or organizational managers, architects, engineers, automotive and airplane industry, sustainable energy designers, biologists, entrepreneurs, builders and policy makers. Biomimicry is inspiring these various fields and societies to be more responsible and resilient, and to find and apply solutions to old and new problems in a more sustainable way.

**MGT 350 - Green Business, 3 credit hours**

**Prerequisite(s):** Completion of 30 credit hours

This course introduces the student to the new and rapidly growing field of corporate sustainability. Topics will include global ecological trends compelling the need for sustainable business, the "triple bottom line", total lifecycle analysis, green products and ecological design, sustainable supply chain analysis, long-term strategy, growing public, customer, government, and industry demands made on companies to heighten their levels of sustainability performance, and the ethical motivations that organizations can adopt for "green" performance. Case studies will focus on successful sustainability initiatives across a wide array of industries and organizational contexts as well as enduring challenges faced by businesses that aim toward sustainability.

**MGT 355 - Applied Project, 12 credit hours**

**Prerequisite(s):** Completion of a minimum of 18 credit hours in the Pacesetter Program and approval of project by the faculty advisor.

The Applied Project is an individual project. Students will identify or select a project opportunity within a for profit business, not for profit business, or new business venture to apply coursework for this project. Students will conduct an in-depth analysis and then make recommendations and/or implement a solution to address a current organizational problem, enhance organizational effectiveness or competitiveness, or explore and evaluate new business opportunities.

**MGT 357 - American Healthcare System, 3 credit hours**

This course explores the history, evolution and current state of health services delivery in the United States. The course provides an overview of the various healthcare stakeholders and their impact on cost, quality and access to care. This course also reviews the overall trends in healthcare including the current and future role of technology. Finally, this course provides an overview of career opportunities in healthcare.

**MGT 367 - Healthcare Law and Ethics, 3 credit hours**

**Prerequisite(s):** MGT 357 or Legal Studies Minor

This course focuses on the exploration of the ethical and legal aspects of contemporary issues concerning health care delivery. The potential interaction and conflicts among individual value/moral systems, ethical standards, legal and regulatory considerations are examined. This course will provide a working knowledge of health law enabling students to deal with common legal, regulatory, ethical and practical problems facing the industry.

**MGT 377 - Healthcare Finance, 3 credit hours****Prerequisite(s):** MGT 357

This course examines the economic and regulatory environment as it affects healthcare organizations and provides a general economic framework for understanding public and private funding of healthcare in the U.S. This course also explores the trends in third-party funding as well as approaches to best manage this funding. Finally, this course compares the U.S. healthcare system to that of other countries; the emphasis of this comparison will be placed on funding and cost control as well as its impact on quality and access to care.

**MGT 395 - Independent Study, 1-4 credit hours****MGT 405 - Leadership Excellence, 3 credit hours****Prerequisite(s):** MGT 205

Leadership is a dynamic and changing process encompassing a number of practical and theoretical constructs that are applicable to today's rapidly changing environment. This course explores various leadership dimensions as applied to power, influence, motivation, satisfaction, groups, teams, and change, to name a few. The course also studies leaders and leadership theories for the purpose of developing and shaping one's personal concept of leadership, and the application of various leadership approaches to different contexts. Additionally, not only will students explore leadership domestically, but also will engage in exploring global leadership and its application to different national settings.

**MGT 406I - International Organizational Behavior and Management, 3 credit hours****Prerequisite(s):** MGT 205 or HTM 240. Students may not receive credit for both MGT 409D and MGT 406I

The course is designed to provide the student with theories and skills for understanding international organizational behavior. The individual, the project team, and the organization are the basic units of study and effective interpersonal behavior is presented as one of the most important factors in organizational change as it relates to various international contexts. Topics covered in this course include organizational & national culture differences, ethics & social responsibility, negotiation and conflict resolution, motivation, international human resource management, leadership and approaches to organizational change, to name a few.

**MGT 409D - Behavioral Theories of Management, 3 credit hours****Prerequisite(s):** MGT 205 or HTM 240. Students may not receive credit for both MGT 409D and MGT 406I

This course is designed to provide the student with a behavioral science approach to organizations. Students will learn why we behave as we do in organizations and groups. The course will help the student understand how individual awareness effects performance as a manager and leader. Individual, group, and organizational differences and similarities are highlighted throughout the course. Students will begin to develop the interpersonal skills needed to be effective employees, managers, and leaders and improve the performance of organizations.

**MGT 411 - Compensation, 3 credit hours****Prerequisite(s):** MGT 310 or permission of instructor

Theory and strategy behind organizational compensation practices are examined. Specifically, the behavioral aspects of compensation, the legal constraints, development of base pay systems, variable pay, executive compensation, benefits, and services are covered. Students become familiar with actual practices and application in organizations.

**MGT 412 - Employment Law, 3 credit hours****Prerequisite(s):** MGT 310 or POL 207

This course is a review of the historical foundations of Employment Law and Labor Law with a focus on current issues as reflected by recent agency and court rulings. Students learn about employee rights and relevant management practices to comply with Federal employment and labor laws.

**MGT 413 - Staffing and Development, 3 credit hours****Prerequisite(s):** MGT 310 or permission of instructor

This course provides a strategic overview of the Human Resource Planning function. Job analysis, recruiting,

selection, training, development, retention, and appraisal are covered as key topical areas with a focus on the theoretical foundations and application of current practices.

**MGT 487 - Problem Solving and Applied Healthcare Management, 3 credit hours**

**Prerequisite(s):** Completion of all required healthcare major courses

This course focuses on the investigation and study of problem solving and effective decision making within the dynamics of current healthcare organizations. This course also stresses problem identification, problem analysis, making decisions and recommendations and implementing solutions, and comparing results to a plan. The case method approach is used; management memos and senior research papers that incorporate critical thinking, quantitative analysis, conceptual and technical data analysis, and a formal presentation, are required.

**MGT 494 - Industrial and Organizational Capstone Project, 4 credit hours**

**Prerequisite(s):** MGT 310 or PSY 380

The capstone course will require students to apply learning from coursework in the Major to a project with an outside profit or non-profit organization. Students will learn the consultative process and develop and utilize skills in marketing ideas, influencing decision-makers, and interacting with various organizational constituencies. Students will implement business and behavioral science research knowledge and skills in order to address and solve organizational needs and problems. The capstone requires extensive oral and written communication skills in order to complete an applied and/or research project.

**MGT 495 - Independent Study, 1-4 credit hours**

**MGT 501 - Systems Management & Organizational Theory, 3 credit hours**

With an emphasis on systems management, organizational theory, and ethical management practices, this course provides the foundational theories and applications of organizational management that will be built upon throughout the MBA program. The course provides both a theoretical foundation and a practical understanding of dynamic internal and external organizational environments, and introduces some ethical challenges faced by today's managers. On the individual level, students will begin a process of self-discovery and action planning.

**MGT 504 - Negotiation & Conflict Management, 2 credit hours**

This course will develop student understanding of the principles, strategies, and tactics of effective negotiation and professional conflict management. Students will also increase awareness and understanding of ethical principles and stakeholder considerations that influence the choices offered and made in transactions and relationships.

**MGT 505 - Leadership and Teams, 3 credit hours**

This course covers leadership & followership from an individual perspective, and allows for the self-exploration of each student's leadership potential. Regarding leadership, it explores the characteristics of great leaders, and the degree to which leadership is inborn versus a product of personal growth and experience. Team building is a critical function of management and leadership. The scope and focus are the study of group dynamics and team building theory with an experiential component. It also involves a study of behavioral, conflict and leadership style and an analysis of organizational team functioning.

**MGT 509 - Organizational Leadership, 3 credit hours**

This course provides an analysis of behavioral science approaches to organizations, stressing the implications of theoretical concepts on managerial practices. Topics examined include strategic leadership, individual and team dynamics, and organizational change. Students will also explore interpersonal strategies related to conflict management and negotiation. This course continues the self-exploration of personal mastery with an emphasis on leadership.

**MGT 529 - Business Ethics, 3 credit hours**

**Prerequisite(s):** Sophomore status & one business course for Accounting 3/2 Program Students

An examination of moral problems facing organization managers with a focus on learning how to integrate ethical

thinking with strategic thinking. Students analyze actual case problems, learning to use various ethical theories as a guide to problem solving.

**MGT 611 - Strategic Compensation, 3 credit hours**

Theory and strategy behind organizational compensation practices are examined. Specifically, the behavioral aspects of compensation, the legal constraints, development of base pay systems, variable pay, executive compensation, benefits, and services are covered. Students become familiar with actual practices and application in organizations and the implementations associated with human capital management.

**MGT 612 - Strategic Employment Law, 3 credit hours**

This course is an overview of the laws affecting the workplace in the United States and interpretation of them as reflected in agency and court rulings. Through a case study approach, the course will stress the practical application of the employment laws and rulings to Human Resource Administration.

**MGT 613 - Strategic Talent Management, 3 credit hours**

This in-depth course explores the theory and practices involved in acquiring and developing an organization's human capital. Topics include workforce planning, job analysis, assessment, recruiting, selection, training and development. Course explores these topical areas with a focus on practical application.

**MGT 620 - Leadership as Enlightened Presence, 3 credit hours**

This course examines leadership as an enlightened presence in organizational settings, combining perspectives drawn from the behavioral sciences with the humanities and the global wisdom traditions in exploring the inner architecture of leaders. The focus is on integrating multidisciplinary insights in navigating the relatively uncharted terrain of inner consciousness as the fundamental source of personal and organizational transformation. The focus is simultaneously theoretical and practical transforming conceptual understanding into new possibilities for creative action at the individual, group and organizational levels.

**MGT 621 - Organizational Development & Change Management, 3 credit hours**

This course will explore the process of change in organizations, focusing on organizational development interventions used in helping organizations manage change effectively. The course focus is on the tools and skills needed to manage change, including cultural change, risk assessment, project management and team leadership. We will also explore some of the broader issues surrounding both human processual and technostructural organizational change.

**MGT 622 - Organizational Innovation by Design, 3 credit hours**

This course explores the application of design thinking to the challenges of building, sustaining and transforming complex real world systems. The focus is on (a) integrating insights from cutting edge innovation technologies rooted in human centered design (b) applying them to envision alternative organizational/ societal forms in an imaginative space unfettered by current reality and (b) developing the leadership capacity to spearhead change efforts in real world contexts. By combining deep self-awareness with a critical intellectual understanding of the challenges of organizations and the broader context of globalization, the course seeks to produce an exponential breakthrough in one's problem solving repertoire both as a local actor and as a global, cosmopolitan change agent.

**MGT 645 - Project Management, 3 credit hours**

This course provides students with the basic knowledge in project management according to the Project Management Body of Knowledge (*PMBOK® Guide*). It provides project managers with the fundamental practices needed to achieve organizational results and excellence in the practice of project management. The course is aligned with the current *PMBOK® Guide* covering the following knowledge areas: Integration Management, Scope Management, Schedule Management, Cost Management, Procurement Management, Quality Management, Resource Management, Communication Management, Risk Management and Stakeholder Management.

**MGT 655 - Applied Project, 1-3 credit hours**

The Applied Project is an individual project. Students will identify or select a project opportunity within a for profit business, not for profit business, or new business venture to apply coursework for this project. Students will conduct



an in-depth analysis and then make recommendations and/or implement a solution to address a current organizational problem, enhance organizational effectiveness or competitiveness, or explore and evaluate new business opportunities.

**MGT 657 - Managing Change, Creativity & Innovation, 3 credit hours**

This course will bring together comprehensive aspects of change management, creative problem solving, and organizational growth with systems thinking. The course will be designed to use relevant and timely case study materials, interviews, reflective questions, and hands-on experiential opportunities. Specific topic in the course will include (but not be limited to) The Process of Change, Creativity and Innovation; Growth in the Creative Economy and the Future of Organizations; The Individual – Promoting Critical Thinking; The Group – Nurturing Team Work; The Leader – Promoting New Ideas at Work; The Culture – Enabling and Constraining Creative Processes at Work; and the Organization – Managing Processes of Change.

**MGT 660 - Corporate Citizenship & Ethics in a Globalized Economy, 3 credit hours**

This course explores complex ethical challenges and responsibilities related to the management of corporations in a globalized economy. They include ethics within corporate culture, corporate citizenship, stakeholder engagement, relationships to communities and governments, cross-cultural awareness, international norms of corporate behavior, and trends in sustainability. Students are introduced to various theoretical approaches to corporate ethics and topics such as international labor and environmental challenges, bribery and corruption, and sexual harassment.

**MGT 670 - Strategic Management, 3 credit hours**

**Prerequisite(s):** Completion of all core MBA courses

This capstone course represents the culmination and integration of the student's MBA coursework throughout the MBA program. The art and science of strategic analysis, planning and development, implementation and execution, along with competitive assessment and overall enterprise management is the focus of the class. The student learns to apply the knowledge acquired in the classroom environment to a company that is a major player in its industry and/or in a simulated business strategy game. The competency gained will enable the student to formulate decisions based on rigorous analysis, and enable them to implement decisions, given the organization's capabilities and limitations.

**MGT 702 - Organizational Theory & The Systems Approach to Management, 3 credit hours**

This course introduces healthcare executives to factors that challenge organization design and effectiveness. It incorporates an overview of general systems theory, organizational theory, and healthcare dynamics (e.g. value-based healthcare, etc.), which are of central concern today. Executives apply the above approaches and build systemic models, which provide an understanding of the interrelationships and interdependencies in a variety of complex healthcare environments helping managers make effective decisions for their organizations.

**MGT 705 - Leadership and Teams, 3 credit hours**

This course covers leadership & followership from an individual perspective, and allows for the self-exploration of each student's leadership potential. Regarding leadership, it explores the characteristics of great leaders, and the degree to which leadership is inborn versus a product of personal growth and experience. Team building is a critical function of management and leadership. The scope and focus is the study of group dynamics and team building theory with an experiential component. It also involves a study of behavioral, conflict and leadership style and an analysis of organizational team functioning.

**MGT 709 - Organizational Leadership, 3 credit hours**

This course is designed to provide the manager with behavioral science approaches to organizations. It will stress the implications of theoretical concepts and their effect on managerial practice. Topics are examined at the levels of the individual, group and organization. A participative and experiential learning approach is used to examine topics such as leadership, teamwork, global management, communication & conflict management, individual personality, organizational change & development and strategic HR management. Special attention is given to current literature relating to the relevant OB topics and Health Care Management.

**MGT 760 - Healthcare Policy, Law & Ethics, 3 credit hours**

This course discusses major State and Federal laws applicable to health care, the policy development process, and reviews major health policy milestones. For each section, both the law and the policy behind the law and whether the reason for the law is being met will be discussed. The goal of this class is not for students to become experts in the law, but for students to be able to identify potential legal issues at their work. For instance, the goal is not for students to be able to perform a complicated Stark Law analysis, but instead for the student to be given tools for identifying when a Stark Law problem may exist in a certain scenario and to be able to know when to ask for legal assistance.

**MGT 770 - Health Informatics, 3 credit hours**

Health Informatics is the intersection of information science, computer science, and health care. It deals with the resources, devices, and methods required to optimize the acquisition, storage, retrieval, and use of information in health and biomedicine. This course will help students develop an understanding of health informatics and its goals, standards, applications, and uses in clinical environments.

**MGT 772 - Health Economics, 3 credit hours**

The value of economics stems from its usefulness in making sense out of complex economic and social issues, including issues in healthcare. This course will use economics and integrated systems thinking to better understand the interrelationships between our healthcare stakeholders in order to foster a true shared vision that benefits the stakeholders and society as a whole. This course will also allow you to better understand the mechanisms of the health care delivery system within the broad social, political, and economic contexts. Finally, this course will use economics as a framework to better analyze public health policy.

**MGT 871 - The Strategic Management of Healthcare Organizations, 3 credit hours**

This capstone course represents the culmination of the executive's two-year program. The science of strategic analysis and strategic management is taught along with competitive assessment, and strategic planning. The student learns what it's like to be the CEO, by taking these skills, and applying this knowledge real time within an actual organization. In the process, the executive learns how to formulate decisions based on the analysis, and how to implement these decisions given the organization's capabilities and limitations. The executives develop a multi-year strategic blueprint for the company and make an executive presentation of the plan to the senior management of the organization. Leadership, culture, structure, organization design and change management are key aspects of the implementation/execution process and are woven into this course.

## Marketing

**MKT 230 - Introduction to Marketing, 3 credit hours**

Marketing involves understanding the changing wants of individuals and organizations, the development and distribution of goods and services to meet those wants, and the maintenance of satisfactory customer relationships. It includes all the activities necessary to get goods and services from the producer to the consumer. This course gives students an opportunity to participate in an analysis of marketing strategies and the evaluation and control of marketing programs.

**MKT 295 - Independent Study, 1-4 credit hours****MKT 331 - Services Marketing, 3 credit hours**

**Prerequisite(s):** MKT 230

This course compares marketing of intangible services versus tangible products and how service characteristics affect marketing strategy. Students will learn to dissect services and service experiences, evaluate service delivery systems, and understand the role of service providers and customers. Students will explore service marketing concepts, theory, frameworks, and models to improve service development, service delivery, and service marketing strategies.

**MKT 332 - B2B Marketing, 3 credit hours****Prerequisite(s):** MKT 230

This course provides an introduction to business to business (B2B) marketing, as well as an understanding of the marketing issues businesses face when their customers are other businesses – as distinguished from business to consumer (B2C) marketing for personal consumption. The emphasis will be on marketing management and decision making as it relates specifically to B2B marketing – including (but are not limited to) types of organizations as industrial customers, buying centers, segmentation, industrial selling, high technology developments, and ethics.

**MKT 333 - Advertising Management, 3 credit hours****Prerequisite(s):** MKT 230

Advertising is studied as an integral part of our economic and social systems, and as a tool that has a direct impact on the manufacture, distribution, marketing and sale of tangible and intangible goods. Concepts and strategies include target markets, media selection, sales promotions, budgeting and evaluation techniques. Through case studies, students will receive hands on experience in developing an advertising campaign. Exposure to professionals in the field is provided by tours and lectures.

**MKT 334 - Salesmanship & Sales Management, 3 credit hours****Prerequisite(s):** MKT 230

This course covers the practical aspects of the sales function and the job of the sales manager. Students will be given the opportunity to develop and demonstrate the skills, knowledge, attitudes and understanding necessary for the successful salesperson or sales manager.

**MKT 336 - Brand Management, 3 credit hours****Prerequisite(s):** MKT 230

This course will provide students with an appreciation of the role of branding and will augment students' ability to think creatively and critically about the strategies and tactics involved in building, leveraging, defending, and sustaining brands.

**MKT 337 - Digital Marketing, 3 credit hours****Prerequisite(s):** MKT 230

Students will develop e-marketing strategies to understand how the Internet impacts a firm's product, marketing communications messages, customer acquisition and retention, advertising, selling, distribution, and branding. Students will explore e-business models, segmentation, social media marketing, blogs, search engine marketing, email marketing, mobile marketing, Web site design, e-crm (e-customer relationship management), and e-marketing analytics.

**MKT 338 - Consumer Behavior, 3 credit hours****Prerequisite(s):** MKT 230

What makes people do what they do? What makes people buy? What makes people buy from one company rather than another? This course will look at the nature of the purchase decision process. Theories, concepts, research methods and findings are explored and examined for use in marketing management decision-making.

**MKT 395 - Independent Study, 1-4 credit hours****MKT 415 - Portfolio Review, 1 credit hour****Prerequisite(s):** MKT 337 and MKT 437X

This course covers aspects of creation and presentation of a professional- quality digital portfolio that showcases key projects and artifacts from the student's Digital Marketing coursework and internship experience(s). This course also focuses on career development, emphasizing individual strengths and areas of specialization and specific career goals. Students will edit, expand and modify their portfolio pieces where required and will present a final body of work for review. Students will also develop job search materials, explore industry opportunities and complete a mock interview project.

**MKT 431 - Supply Chain Management, 3 credit hours**

**Prerequisite(s):** MGT 205, MKT 230

This course is designed to cover the essentials of supply chain management, from purchasing to delivery, and includes concepts of transportation, inventory management, supplier selection, distribution, logistics and reverse logistics.

**MKT 432 - Marketing Research & Information Systems, 3 credit hours**

**Prerequisite(s):** MKT 230; and either MTH 105 or MTH 108 or MTH 235 or PSY 278 or MTH 279 or FNC 280

The student will learn how to develop a marketing research project. An understanding of domestic and international marketing information needs and procedures will be covered. Students will be taken through the research process from purpose definition and proposal writing to final report writing and presentation. Data collection techniques will be offered to include current technologies and use of the internet.

**MKT 436I - International Marketing, 3 credit hours**

**Prerequisite(s):** MKT 230

This course is a study of the peculiarities of marketing products and services overseas. An overview of the economic, political, cultural and infrastructure environments; determination of market size; use of segmentation variables; review of foreign buyer behavior; collection and analysis of foreign market research; determination of best method of entry; selection of optimum marketing strategies; and integration of all variables in a comprehensive marketing plan are covered.

**MKT 437X - Content Marketing, 3 credit hours**

**Prerequisite(s):** MKT 337

This is an applied course where students develop a content marketing strategy for clients and create marketing assets—from web and social media to brochures, videos and more. Deliverables include customer profiling, editorial production calendars, email strategies, marketing automation plans and others. Course material includes case studies of effective real-world content marketing efforts. Students will receive Content Marketing Certification from our industry partner, HubSpot.

**MKT 495 - Independent Study, 1-4 credit hours****MKT 537 - Digital Marketing Management, 3 credit hours**

Students explore the skills and knowledge areas necessary in managing the projects, processes, and people involved in effective digital marketing strategy development and implementation. Course modules include inbound strategy and search engine optimization (SEO); search engine marketing (SEM); social media and content marketing; and email, CRM and marketing automation. Analysis of key performance indicators and an exploration of content creation is woven throughout the program. This is an on-line course.

**MKT 551 - Strategic Marketing, 3 credit hours**

This course focuses on the managerial decision-making process of market segmentation, targeting, positioning, branding, pricing, delivering customer value, customer relationship management, consumer behavior, marketing online, leveraging databases, return on marketing investment, and the ramifications of marketing decisions. The course examines how marketing has been transformed by globalization, hyper-competition, industry consolidation, and technology. Students will develop both strategic and tactical marketing skills by working on real-world products/services using market research, segmentation approaches, international and product life cycle management, and financial analysis.

**MKT 761 - Healthcare Strategic Marketing, 3 credit hours**

An organization must deal with strategic and tactical issues on a domestic and global basis if it is to maintain an effective marketing organization. The course places special emphasis on the determination of longer term marketing strategy, the building of shorter term tactics, and the significance marketing has in the strategic direction of the firm. Emphasis is given to the examination of competitive operations and practical marketing problems confronting

executives. Topics include target marketing, marketing research basics, branding, consumer behavior as well as advertising.

## Mathematics

### **MTH 040 - Pre-Calculus Support, 1 credit hour**

**Corequisite(s):** MTH 140

A corequisite course designed to help a student prepare and succeed at MTH 140. Students will work in groups for additional reinforcement of material covered in MTH 140. Graded S/U based on participation. This course does not provide credit towards graduation.

### **MTH 101 - Mathematics Modeling & Quantitative Analysis, 3 credit hours**

The course takes a numerical and modeling approach to the analysis of contextual-based mathematics with a de-emphasis on algebraic manipulations. Students utilize both paper-and-pencil and current technologies to further develop quantitative reasoning. Topics may include collecting, organizing, and interpreting sets of univariate data, fitting functions and graphs to bivariate data including linear and non-linear models, problem-solving, decision-making, probability and statistics. The focus is activity-based with a high-level of student engagement.

### **MTH 105 - Introduction to Probability and Statistics, 3 credit hours**

**Prerequisite(s):** Knowledge of high school Algebra I, Algebra II and Geometry are prerequisites for all Mathematics courses.

An introductory course designed to promote the understanding of basic statistical and probability concepts. Topics to be studied include descriptive statistics, probability of finite sample spaces, probability distributions, hypothesis testing, confidence intervals and parameter estimation.

### **MTH 106 - Introductory Statistics II, 3 credit hours**

**Prerequisite(s):** MTH 105 or MTH 108 or MTH 235 or MTH 279 or PSY 278 or FNC 280 or instructor's permission

This course will continue the development of inferential statistics typically found in an introductory statistics curriculum. Major topics covered will include advanced techniques in hypothesis testing and regression analysis, as well as nonparametric statistics. Additional topics may be covered at the discretion of the instructor.

### **MTH 108 - Biostatistics, 3 credit hours**

**Prerequisite(s):** Knowledge of high school Algebra I, Algebra II and Geometry are prerequisites for all Mathematics courses.

An introductory course in statistics for the biological and health sciences covering descriptive statistics, probability and probability distributions, hypothesis testing, correlation and regression, and analysis of variance.

### **MTH 111 - Math for Primary Education and Middle Childhood Part 1, 4 credit hours**

**Prerequisite(s):** Knowledge of high school Algebra I, Algebra II and Geometry are prerequisites for all Mathematics courses.

Open to primary and middle childhood majors only. A systematic presentation of elementary mathematics for those who are preparing to teach primary and middle childhood. The course provides an overall view of the number system, emphasizing ideas and concepts rather than routine drill. The following topics are surveyed: evolution of the number system, logic and sets, elementary number theory, rules for algebraic manipulation, and mathematical systems.

### **MTH 112 - Mathematics for Middle Childhood Teachers, Part II, 4 credit hours**

**Prerequisite(s):** MTH 111 or permission of the instructor. Students who have not successfully completed a high school geometry course should make special arrangements for tutoring in geometry prior to enrolling in this course.

Open to middle childhood majors only. A continuation of MTH 111, this course examines the ideas of rational and irrational numbers, discrete mathematics, counting theory, basic probability, and basic statistics.

**MTH 113 - Math for Primary Education Part 2, 4 credit hours**

**Prerequisite(s):** MTH 111 or permission of the instructor. Students who have not successfully completed a high school geometry course should make special arrangements for tutoring in geometry prior to enrolling in this course. Open to primary education majors only. A continuation of MTH 111, this course examines the ideas and concepts of geometry and measurements. Included are a study of measurement in one, two and three dimensions, properties and classification of two and three dimensional geometric objects and basic statistical displays.

**MTH 115 - Geometry for Middle Childhood Teachers, 3 credit hours**

**Prerequisite(s):** MTH 111 or permission of instructor

A review of the basics of Euclidean geometry will be followed by a study of empirical geometry, some finite geometries, geometric constructions and measurement activities. The activity and manipulation approach to geometry will be emphasized throughout. Required for middle childhood education majors with a math concentration.

**MTH 118 - Algebraic Thinking Through Modeling, 3 credit hours**

**Prerequisite(s):** MTH 111 and MTH 112 (grade C- or higher in both); or MTH 121 or higher.

An exploration of algebraic ideas involving representation, organizing data and looking for patterns, generalizing findings into a rule, and using findings to make predictions. Through the use of modeling, problem solving, and exploring the multiple uses of algebraic letters students are enabled to see the interconnections among algebraic topics from an advanced perspective.

**MTH 120 - Applied College Mathematics, 4 credit hours**

**Notes:** Admission to the 4 credit hour version is through departmental approval.

This course is designed for freshmen and deals with the fundamental mathematical tools frequently applied in the natural, management and social sciences. Topics include linear, quadratic, exponential functions, linear systems, linear programming, mathematics of finance, and statistics. (All topics are approached with a view toward applications.) The 4 credit hour version includes some remedial topics.

**MTH 121 - Applied College Mathematics, 3 credit hours**

**Prerequisite(s):** Knowledge of high school Algebra I, Algebra II and Geometry are prerequisites for all Mathematics courses.

Students are required to have achieved an ACT Math Score of 22 or higher, a SAT Math Section Score of 520 or higher (if taken prior to March 2016), a SAT Math Section Score of 550 or higher (if taken after March 2016), a SAT Math Test Score of 27.5 or higher, a math readiness placement score of at least 75 or higher, or a score of 80% or higher on the Baldwin Wallace mathematics placement exam.

This course is designed for freshmen and deals with the fundamental mathematical tools frequently applied in the natural, management and social sciences. Topics include linear, quadratic, exponential functions, linear systems, linear programming, mathematics of finance, and statistics. (All topics are approached with a view toward applications.)

**MTH 140 - Precalculus Mathematics, 4 credit hours**

**Prerequisite(s):** Knowledge of high school Algebra I, Algebra II and Geometry are prerequisites for all Mathematics courses.

Concurrent enrollment in MTH 040 or ACT math score of 23 or higher, or SAT math section of 540 or higher (if taken prior to March 2016) or SAT Math section of 570 or higher (if taken after March 2016), or a SAT Math score of 28 or higher or a score of 70% or higher on the Baldwin Wallace Mathematics Exam

A University-level review of algebra, trigonometry and analytic geometry. The course is designed to prepare students for the study of calculus. A graphing calculator is required, and will be used extensively.

**MTH 141 - Calculus I, 4 credit hours**

**Prerequisite(s):** MTH 140 or an ACT Math Score of 27 or higher, a SAT Math Section Score of 550 or higher (if taken prior to March 2016), a SAT Math Section Score of 640 or higher (if taken after March 2016), or a SAT Math Test Score of 28.5 or higher, or instructor permission.

This course will develop the theory and applications of calculus, including limits, continuity, differentiation, and an

introduction to integration and the fundamental theorem of calculus. Topics from elementary functions will be reviewed as needed. Applications and concepts explored using CAS technology.

#### **MTH 142 - Calculus II, 4 credit hours**

**Prerequisite(s):** MTH 141

A continuation of MTH 141, covering techniques and applications of integration, sequences and series, and polar and parametric equations. CAS technology employed.

#### **MTH 151 - Contemporary Mathematics, 3 credit hours**

**Prerequisite(s):** Knowledge of High School Algebra I, Algebra II, and Geometry are prerequisites for all Mathematics courses. Students are required to have achieved an ACT Math Score of 22 or higher, a SAT Math Section Score of 520 or higher (if taken prior to March 2016), a SAT Math Section Score of 550 or higher (if taken after March 2016), a SAT Math Test Score of 27.5 or higher, a math readiness placement score of at least 75 or higher, or a score of 80% or higher on the Baldwin Wallace mathematics placement exam.

This course serves as an introduction to selected areas of the mathematical sciences through exploration. Topics include probability, graph theory and business efficiency, fair division, and cryptography.

#### **MTH 151H - Contemporary Mathematics- Honors, 3 credit hours**

**Notes:** Must be a Honors student or have sophomore or higher standing with at least a 3.5 cumulative GPA.

**Prerequisite(s):** Knowledge of High School Algebra I, Algebra II, and Geometry are prerequisites for all Mathematics courses. Students are required to have achieved an ACT Math Score of 22 or higher, a SAT Math Section Score of 520 or higher (if taken prior to March 2016), a SAT Math Section Score of 550 or higher (if taken after March 2016), a SAT Math Test Score of 27.5 or higher, a math readiness placement score of at least 75 or higher, or a score of 80% or higher on the Baldwin Wallace mathematics placement exam.

This course serves as an introduction to selected areas of the mathematical sciences through exploration. Topics include probability, graph theory and business efficiency, fair division, and cryptography.

#### **MTH 160 - Introduction to Discrete Structures, 3 credit hours**

This course introduces basic concepts in discrete processes and how those concepts apply in computing. Topics include logic, functions, graphs and set. This course is required of all Computer Information Systems Analyst and Computer and Network Security Analyst majors.

#### **MTH 161 - Discrete Structures for Computing, 3 credit hours**

**Prerequisite(s):** Knowledge of high school Algebra I, Algebra II and Geometry are prerequisites for all Mathematics courses.

This course introduces basic concepts in discrete processes, their underlying theory, and how those concepts apply to computing. Topics include logic, functions, graphs, sets and computational efficiency. This course is required of all Computer Science and Software Engineering majors.

#### **MTH 202 - Number Theory and Abstract Algebra for Teachers, 3 credit hours**

**Prerequisite/Corequisite:** MTH 141 or MTH 142

This is a conceptual mathematics course that makes the connection between concepts studied in Abstract Algebra (including groups, rings, and fields), number theory, and the high school math curriculum. The course will show the future teacher what is meant by "inquiry" learning in math using the NCTM Process Standards and Ohio Learning Standards' Eight Mathematical Practices. Content includes the study of the historical development of: algebra, number, number systems, and quantity including contributions of significant figures and diverse cultures.

#### **MTH 203 - History of Mathematics: Calculus Concepts for Teachers, 3 credit hours**

**Prerequisite(s):** MTH 140 or MTH 141 (MTH 141 can be taken concurrently with MTH-203) or an ACT Math Score of 27 or higher, a SAT Math Section Score of 550 or higher (if taken prior to March 2016), a SAT Math Section Score of 640 or higher (if taken after March 2016), or a SAT Math Test Score of 28.5 or higher, or instructor permission.

Conceptual mathematical course that shows the future teacher what is meant by "inquiry" learning in math using the NCTM Process Standards and Ohio Learning Standards' Eight Mathematical Practices as the primary pedagogical

approach to the course; the course will connect these inquiry-based learning activities with the NCTM Process Standards and the OLS Eight Mathematical Practices. Content includes functions (linear, quadratic, polynomial, exponential, and logarithmic), Calculus I concepts, trigonometry, and the study of the historical development of: geometry, trigonometry, calculus, statistics, and probability including contributions of significant figures and diverse cultures.

**MTH 206 - Mathematical Logic and Proof Methods, 3 credit hours**

**Prerequisite(s):** MTH 141 or MTH 142

Covers the principles of symbolic logic and of proof methods in elementary mathematical topics, with the goal of preparing students for reading and writing proofs in advanced mathematics courses. Required for majors.

**MTH 211 - Linear Algebra, 3 credit hours**

**Prerequisite(s):** MTH 141 or MTH 142

Systems of linear equations, matrices and determinants, vectors and vector spaces, eigenvalues and eigenvectors, linear transformations, and applications are studied. The course focuses on widespread applications and computations; and also provides an introduction to axiomatic mathematics.

**MTH 235 - Probability & Statistics for Scientists & Engineers, 3 credit hours**

**Prerequisite(s):** CSC 210 or CSC 211 or CSC 212

Calculus-based introduction to basic probability and statistics. Major topics include discrete and continuous random variables, probability distributions, and an overview of inferential statistics. Statistical computing will be introduced through the use of R.

**MTH 243 - Calculus III, 4 credit hours**

**Prerequisite(s):** MTH 142

A continuation of MTH 142, covering functions in several variables, partial differentiation, vectors, vector-valued functions, surfaces, solids, and multiple integrals, and vector analysis. CAS technology employed.

**MTH 245 - Differential Equations, 3 credit hours**

**Prerequisite(s):** MTH 142

An introductory course in ordinary differential equations and their applications. Topics will include first-order differential equations, higher-order linear equations, series solutions, and systems of differential equations. Computer technology will also be used.

**MTH 262 - Discrete Mathematics, 3 credit hours**

**Prerequisite(s):** MTH 161 or MTH 206

This course is a study of discrete processes as opposed to continuous processes. The topics include combinatorics, mathematical induction and recursion, relations, graphs and trees. Required for those seeking licensure to teach high school mathematics.

**MTH 263X - Seminar, 1-3 credit hours**

A study of selected topics in mathematics.

**MTH 271 - Introduction to Mathematical Modeling, 3 credit hours**

**Prerequisite(s):** MTH 142, CSC 210 or CSC 212

An introduction to a variety of modeling techniques and topics across various mathematical disciplines.

**MTH 272 - Numerical Analysis, 3 credit hours**

**Prerequisite(s):** MTH 142; and CSC 210 or CSC 212

This course is an introduction to numerical methods for the efficient solution of mathematical problems. Topics covered will include roundoff error, algorithms and convergence, solving equations of one variable, interpolation,



numerical integration, and numerical solution of ordinary differential equations. Numerical linear algebra may also be addressed.

**MTH 279 - Basic Statistical Methods, 3 credit hours**

**Prerequisite(s):** MTH 120 or higher (excluding MTH 160 & MTH 161) or completion of 30 credit hours.

Introduction to basic statistical concepts and techniques including descriptive statistics, probability, and inferential statistics including sampling distributions, confidence intervals, hypothesis testing, correlation and regression.

Emphasis is placed on data analysis and quantitative literacy with applications in economics, business and the social sciences.

**MTH 295 - Independent Study, 1-4 credit hours**

**MTH 298X - Internship, Credit hours to be arranged**

The for-credit internship registration process is handled via the Career Center Handshake platform. To register your internship for credit, please contact Career Center at [career@bw.edu](mailto:career@bw.edu).

**MTH 302 - Number Theory, 3 credit hours**

**Prerequisite/Corequisite:** MTH 206

This course will develop basic concepts in number theory, including prime numbers and factorization, congruences, Fermat's theorem, and Diophantine equations, with additional topics chosen from continued fractions, recurrences, and elliptic curves. We will also investigate applications to secure communications and cryptosystems.

**MTH 307 - Introduction to Operations Research, 3 credit hours**

**Prerequisite(s):** MTH 142 or MTH 211

An introduction to some of the techniques which can be applied to explain the behavior of complex systems and aid in management decisions. Mathematical tools include probability, statistics, calculus and linear programming.

Computer applications will be included.

**MTH 313 - Applied Analysis, 3 credit hours**

**Prerequisite(s):** MTH 243

A calculus-based course in mathematical analysis for scientific and engineering applications. Topics will be drawn from vector analysis, complex arithmetic, Fourier series and transforms, Laplace transforms, and numerical methods.

**MTH 315 - College Geometry, 3 credit hours**

**Prerequisite/Corequisite:** MTH 206

A continuation of the subject matter and methods of high school geometry, including theorems not taught in high school and an introduction to the modern geometry of the triangle and circle. Special attention is given to methods of proof and solving problems, the viewpoint being that of the prospective teacher or graduate student in mathematics. Finite and non-Euclidean geometries will be studied.

**MTH 395 - Independent Study, 1-4 credit hours**

**MTH 398X - Internship, Credit hours to be arranged**

The for-credit internship registration process is handled via the Career Center Handshake platform. To register your internship for credit, please contact Career Center at [career@bw.edu](mailto:career@bw.edu).

**MTH 405 - Theory of Probability, 4 credit hours**

**Prerequisite(s):** MTH 243 or permission of instructor. A course in elementary statistics is also highly recommended but not required.

Theory of probability with emphasis on probability distributions.

**MTH 406 - Mathematical Statistics, 3 credit hours**

**Prerequisite(s):** MTH 405

A continuation of MTH 405 with emphasis on the theory and applications of random samples, hypothesis testing, parameter estimation and regression.

**MTH 409 - Real Analysis, 4 credit hours**

**Prerequisite(s):** MTH 206 and MTH 142

This is an analytical study of the real number system and the foundations of calculus. Topics will include axioms for the real numbers, limits, continuity, and differentiability, as well as techniques of proving theorems.

**MTH 411 - Abstract Algebra, 4 credit hours**

**Prerequisite(s):** MTH 206 and MTH 211

An axiomatic approach to algebraic structures, with the focus on groups, homomorphisms and factor groups. Required for those seeking licensure to teach high school mathematics.

**MTH 459X - Faculty-Student Collaboration, Credit hours to be arranged**

**MTH 463 - Seminar, 1-3 credit hours**

**Prerequisite(s):** Advanced standing and consent of the instructor

Advanced study for qualified students.

**MTH 464X - Senior Capstone Experience, 3 credit hours**

**Prerequisite(s):** Senior status or 6 math credits at 300+ level with instructor's approval.

A senior experience integrating multiple aspects of the undergraduate mathematics program. The course will be project-based and group-focused. Students will either design viable solutions for non-routine mathematical problem(s) or engage in mathematical research.

**MTH 465 - Senior Seminar I, 3 credit hours**

**Prerequisite(s):** Senior Standing

Senior seminar course for advanced students. Students will be expected to engage with industry partners on a modeling project and provide frequent updates on projects.

**MTH 466X - Senior Seminar II, 3 credit hours**

**Prerequisite(s):** MTH 465 and Senior Standing

Senior seminar course for advanced students. Students will be expected to engage with industry partners on a modeling project and provide frequent updates on projects. Students will be expected to present findings for various groups.

**MTH 491 - Departmental Thesis/project, Credit hours to be arranged**

**MTH 492 - Departmental Thesis/project, Credit hours to be arranged**

**MTH 495 - Independent Study, 1-4 credit hours**

**MTH 497X - Internship, Credit hours to be arranged**

The for-credit internship registration process is handled via the Career Services Handshake platform. To register your internship for credit, please contact Career Services at [career@bw.edu](mailto:career@bw.edu).

**MTH 498X - Internship, Credit hours to be arranged**

**Prerequisite(s):** Department Permission

Internship with an industry or community partner. The for-credit internship registration process is handled via the

Career Center Handshake platform. To register your internship for credit, please contact Career Center at [career@bw.edu](mailto:career@bw.edu).

## Music as Conservatory Study

### **MUA 011 - Fundamentals of Music, 2 credit hours**

**Notes:** Required for Music majors and minors with minimal experience reading music. Enrollment based on placement exam.

The purpose of this course is to provide students with a basic knowledge of music notation and the fundamentals of tonal harmony, including staff and rhythmic notation, scales, intervals, triads, and lead sheets symbols. Students will be expected to demonstrate their knowledge through written theory, keyboard performance, and singing.

### **MUA 101 - ICTUS (Introduction to Conservatory Training, Understanding, and Skills), 2 credit hours**

A required first-semester course focusing on three pillars of strong musicianship by teaching students ways to think about, listen to, and communicate about music from a variety of musical and cultural perspectives.

### **MUA 110 - Theory 1, 2 credit hours**

**Prerequisite(s):** MUA 101; and "C-" or better in MUA 011 or placement

**Corequisite(s):** Should be taken concurrently with MUA 120

A comprehensive study of tonal harmony, approached through analysis, composition, and keyboard exercises.

### **MUA 120 - Aural Skills 1, 2 credit hours**

**Prerequisite(s):** MUA 101; and "C-" or better in MUA 011 or placement

**Corequisite(s):** Should be taken concurrently with MUA 110

A comprehensive study of ear training, sight-singing, and the development of musical memory. Skills developed include rhythmic and melodic reading ability, and musical dictation.

### **MUA 140 - Music History Survey 1, 3 credit hours**

**Prerequisite(s):** MUA 110 and MUA 120

A two-semester of the major philosophical and aesthetic trends in Western music history, the noted composers in each style period, and masterworks of the literature. Core skills addressed include complex thinking skills and knowledge of human behaviors, cultures and the natural world.

### **MUA 141 - Music History Survey 2, 3 credit hours**

**Prerequisite(s):** ENG 131 and MUA 140

A two-semester of the major philosophical and aesthetic trends in Western music history, the noted composers in each style period, and masterworks of the literature. Core skills addressed include complex thinking skills and knowledge of human behaviors, cultures and the natural world. Fulfills the core writing extension requirement.

### **MUA 210 - Theory 2, 2 credit hours**

**Prerequisite(s):** "C-" or better in MUA 110

A comprehensive study of tonal harmony, approached through analysis, composition, and keyboard exercises.

### **MUA 213 - Counterpoint, 2 credit hours**

**Prerequisite(s):** MUA 210

A systematic study of important contrapuntal techniques, with emphasis on the contrapuntal style of the eighteenth century.

### **MUA 220 - Aural Skills 2, 2 credit hours**

**Prerequisite(s):** "C-" or better in MUA 120

A comprehensive study of ear training, sight-singing, and the development of musical memory. Skills developed include rhythmic and melodic reading ability, and musical dictation.

**MUA 222 - Aural Skills & Theory for Music Theatre, 2 credit hours****Prerequisite(s):** C- or better in MUA 210 and MUA 220

A continuation of the study of the hearing and singing of tonal music, focusing on chromaticism, modulation, and advanced rhythmic techniques as found in music theatre repertoire.

**MUA 240 - Music History & Literature 1, 3 credit hours****Prerequisite(s):** MUA 101, MUA 110, and MUA 120

An examination of the historical and stylistic elements of selected non-Western musical traditions and the study of the stylistic developments and representative masterworks of the Medieval era in the Western world. Music is studied in its cultural and historical contexts. Includes significant listening, score study, and written work.

**MUA 241I - Music History & Literature 2, 3 credit hours****Prerequisite(s):** ENG 131 and MUA 240

A study of stylistic developments and representative masterworks of the Renaissance and Baroque eras of Western music. Music is studied in its cultural and historical contexts. Includes significant listening, score study, and written work. Fulfills the core writing extension requirement.

**MUA 242 - Music History & Literature 3, 3 credit hours****Prerequisite(s):** MUA 241I

A study of stylistic developments and representative masterworks of the Classical and Romantic eras of Western music. Music is studied in its cultural and historical contexts. Includes significant listening, score study, and written work.

**MUA 245 - Music Theatre History, 3 credit hours****Prerequisite(s):** MUA 210 and MUA 220

A survey of the playwrights, composers, lyricists, directors, choreographers, performers and productions of the American musical theater from its European beginnings to the present, placing the music theatre form within a framework of social and historical relevance. Specific works are studied so that students achieve proficiency in identifying how musicals are crafted, and how stylistic and technical elements within a musical collaborate to express meaning. Offered spring semester.

**MUA 310 - Advanced Chromatic Theory, 2 credit hours****Prerequisite(s):** C- or better in MUA 210

A continuation of the study of tonal harmony focusing on intense chromaticism and modulation through analysis, composition, and keyboard exercises.

**MUA 320 - Advanced Chromatic Aural Skills, 2 credit hours****Prerequisite(s):** C- or better in MUA 220

A continuation of the study of the hearing and singing of tonal music, focusing on intense chromaticism, modulation, and advanced rhythmic techniques.

**MUA 330 - Form and Analysis, 2 credit hours****Prerequisite(s):** C- or better in MUA 210

The study of motive, phrase, period, and standard musical forms employed in the Western musical tradition. Emphasis on the historical development of these forms.

**MUA 340 - Topics in Music History, 3 credit hours****Prerequisite(s):** MUA 242

A study of stylistic developments and representative masterworks of Western music of the twentieth and twenty-first centuries. Music is studied in its cultural and historical contexts. Includes significant listening, score study, and written work.

**MUA 345 - History of Music & Drama, 3 credit hours**

**Prerequisite(s):** ENG 131 and MUA 245

A study of the six major classical music time periods through the lens of opera and other music developed around and in response to drama.

**MUA 410 - Theory of Music Since 1900, 2 credit hours**

**Prerequisite(s):** C- or better in MUA 210

Study of the materials, techniques, theories, and styles of composers of the twentieth and twenty-first centuries.

**MUA 420 - Post-Tonal Aural Skills, 2 credit hours**

**Prerequisite(s):** C- or better in MUA 220

An exploration of the skills and techniques needed to sight sing and recognize common non-tonal and contemporary musical structures and advanced rhythmic techniques.

**MUC 001 - Performance Attendance, 0 credit hours**

Attendance of a minimum of six convocation recitals. See individual program requirements.

**MUC 002 - Departmental Recital, 0 credit hours**

Attendance of scheduled departmental recitals. See individual program requirements.

**MUC 101 - Primary Instrument: Private Lessons, 1-4 credit hours**

**Prerequisite(s):** Entry-level audition; for subsequent levels - previous level. Secondary, minor and elective study use MUC 131, MUC 132, MUC 231, MUC 232

**Corequisite(s):** Must be taken concurrently with MUC 002.

Performance studies, available in all orchestral instruments, keyboard instruments, guitar, or voice. Credit hours and repertoire requirements assigned according to student's degree program. Additional fees required for BA Music students.

**MUC 102 - Primary Instrument: Private Lessons, 1-4 credit hours**

**Prerequisite(s):** Entry-level audition; for subsequent levels - previous level. Secondary, minor and elective study use MUC 131, MUC 132, MUC 231, MUC 232

**Corequisite(s):** Must be taken concurrently with MUC 002.

Performance studies, available in all orchestral instruments, keyboard instruments, guitar, or voice. Credit hours and repertoire requirements assigned according to student's degree program. Additional fees required for non-music majors, BA Music students, and music minors.

**MUC 105 - Meditation and Mindfulness for Musicians, 1 credit hour**

**Prerequisite(s):** Must be a music major or music minor.

This is a skill-based course in meditation and mindfulness for musicians, with emphasis on applying these skills to practicing and performance. Participants will learn to recognize their physiological and emotional stress indicators and learn relaxation techniques that allow them to reduce performance anxiety, enhance self-confidence on stage and in the classroom, and help to prevent repetitive stress injuries. Students will study various established world traditions, and emerge from the course with a sustainable personal practice of mindfulness.

**MUC 106 - Freshmen Composition Lessons 1, 3 credit hours**

**Corequisite(s):** MUC 116

Development of compositional skills through individualized study. Students focus on developing compositional craftsmanship, working with a variety of forms and contemporary techniques, and composing in a variety of styles for various performance media.

**MUC 107 - Freshmen Composition Lessons 2, 3 credit hours****Prerequisite(s):** MUC 106**Corequisite(s):** MUC 117

Development of compositional skills through individualized study. Students focus on developing compositional craftsmanship, working with a variety of forms and contemporary techniques, and composing in a variety of styles for various performance media.

**MUC 110 - Music Technology and Notation, 1 credit hour**

Introduction to standard guidelines for the written notation of music and computerized notation software, including Finale and Sibelius. In addition, topics in basic audio and video recording and editing will be introduced, so that students can begin to assemble a professional digital portfolio. This course emphasizes the practical uses of technology for musicians in today's digital age.

**MUC 116 - Introduction to Composition 1, 2 credit hours****Prerequisite(s):** consent of instructor

An introduction to musical composition, employing the smaller forms in a variety of styles.

**MUC 117 - Introduction to Composition 2, 2 credit hours****Prerequisite(s):** MUC 116 and consent of instructor

An introduction to musical composition, employing the smaller forms in a variety of styles.

**MUC 118 - Songwriting, 2 credit hours**

This course will explore what it means to be a contemporary songwriter. Through hands-on modeling and experimentation, students will apply tools and techniques to their own songwriting while simultaneously analyzing current contemporary, commercial, and art-pop trends. Weekly assignments and projects that capture the spirit of the course's six parts will challenge students to create songs individually or as a collaborative team.

**MUC 131 - Secondary Instrument Levels 1, 1 credit hour**

For music majors, private lessons on a secondary instrument other than piano are available by audition and/or permission of the instructor. Private lessons are available for minors and elective study by audition only and as staffing permits. Individualized content will be based upon each student's level of experience, needs and goals. Additional fees required for non-music majors, BA Music students, music minors and music majors pursuing secondary study beyond the required four semesters.

**MUC 132 - Secondary Instrument Levels 2, 1 credit hour****Prerequisite(s):** Prerequisite for MUC-132 = MUC 131

For music majors, private lessons on a secondary instrument other than piano are available by audition and/or permission of the instructor. Private lessons are available for minors and elective study by audition only and as staffing permits. Individualized content will be based upon each student's level of experience, needs and goals. Additional fees required for non-music majors, BA Music students, music minors and music majors pursuing secondary study beyond the required four semesters.

**MUC 133 - Keyboard Musicianship 1, 1 credit hour**

Class instruction in sight-reading and other keyboard skills for the non-piano music major. Open to music majors only.

**MUC 134 - Keyboard Musicianship 2, 1 credit hour****Prerequisite(s):** "C-" or better in MUC 133 or placement.

Class instruction in sight-reading and other keyboard skills for the non-piano music major. Open to music majors only.

**MUC 135 - Voice Class, 1 credit hour**

Introduction to the basic elements of singing, including physiological aspects of the singing process, diction principles based on the International Phonetic Alphabet, and expressive techniques. Emphasis on development of individual singing skills.

**MUC 136 - Guitar Class, 1 credit hour**

Instruction in playing primary chords in several keys, strumming patterns to accompany singing, and a repertoire of songs from the folk, popular, and patriotic literature. Use of bass guitar and amplification included. Use of personally owned instruments advised.

**MUC 137 - Intermediate Guitar Class, 1 credit hour**

**Prerequisite(s):** MUC 136 or consent of instructor

Class instruction to further develop technique and broaden styles introduced in MUC 136. Barre chords, note reading, accompaniment of singing, playing by ear, transposition, and finger picking are among topics for study.

**MUC 140 - Singers' Phonetics, 1 credit hour**

The study of the International Phonetic Alphabet for future singers, teachers and choral conductors. Students will review rules, special sounds and symbols in English, Italian, French and German lyric diction and acquire the needed skills to read and pronounce phonetic transcriptions.

**MUC 141 - Singers' Diction and Literature 1, 2 credit hours**

The study of the International Phonetic Alphabet applied to singing in English and the study of recital literature focusing on British and American art song. Classroom work includes: IPA transcription from original language, individual recitation of text and in-class singing performance of assigned repertoire.

**MUC 142 - Singers' Diction and Literature 2, 2 credit hours**

**Prerequisite(s):** MUC 141

The study of the International Phonetic Alphabet applied to singing in Italian and the study of recital literature focusing on Italian art song. Classroom work includes: IPA transcription from original language, individual recitation of text and in-class singing performance of assigned repertoire.

**MUC 145 - Music Theatre Workshop 1: Core Acting Skills, 1 credit hour**

Students undertake an intensive introduction to techniques for acting for the stage, with a specific objective of creating a language and style for Music Theatre performance. Students will explore the fundamental principles of action—objective and obstacle—as well as the idea of given circumstances, and learn to make non-contemporary, hyper-realistic performance choices.

**MUC 146 - Music Theatre Workshop 2: Scene to Song; Freshman Showcase, 1 credit hour**

**Prerequisite(s):** MUC 145 or consent of instructor

Students will apply fundamental skills acquired in the first semester to the performance of Music Theatre repertoire. Students explore song interpretation, self-presentation and specific performance choices, both in solo and scene form. Semester culminates in a showcase of small group performances.

**MUC 147 - Voice Performance Workshop 1: Acting/ Movement/ Music 1, 1 credit hour**

Students will learn fundamental acting technique and process, physical characterization, and how to prepare music and text in the development of a unique piece of opera theater. Students will also explore the musical preparation process, style, and how to prepare to professional industry standards. The course will culminate in a performance of student-created work.

**MUC 148 - Voice Performance Workshop 2: Acting/ Movement/ Music 2, 1 credit hour**

**Prerequisite(s):** MUC 147 or consent of Director of Opera Studies

Students will develop intermediate physical and vocal characterization skills through in-class work on assigned

English language monologues and songs with classical stylistic acting demands, texts, and music. Classical monologue sessions will focus on acting technique, process, and physical characterization. Musical coursework will include interpretation, style and communication of songs, and fundamental audition technique. The course will culminate in a final performance.

**MUC 151 - Introduction to Music Therapy, 2 credit hours**

Provides an overview of the profession including terminology, history, and practical application of music therapy for various client populations. Assessment of personal qualities necessary to become a music therapist is an ongoing process of the class. Observations of music therapists and those in related fields are required in addition to class work.

**MUC 152 - Vocal Skills for Music Therapists, 2 credit hours**

An introduction to the theory and practice of using the voice effectively in music therapy sessions. Topics include anatomy of breathing and the larynx, preventing vocal fatigue, and developing a list of repertoire in appropriate keys for use with various client groups.

**MUC 162 - Backstage Experience, 1 credit hour**

**Prerequisite(s):** Instructor Approval Required.

A student may register for backstage work on productions being offered during the semester. Credit is available for serving in backstage roles for BW off-campus partnership music theatre productions. Registration with instructor's permission only.

**MUC 171X - Introduction to Music Education, 2 credit hours**

A survey of American education and music education history, with an emphasis on music teaching and philosophy, school structure and governance, diversity and multicultural education, current approaches, and professional ethics. Supervised clinical and field experiences required.

**MUC 181 - Sight-Reading, 1 credit hour**

Required of piano performance and music theatre music direction majors in the first year; piano secondaries may enroll with consent of the instructor. Development of fundamental reading skills for pianists, maximizing understanding of the score to foster overall fluency in at-sight performance. The course includes basic analysis and ensemble experiences of a variety of periods and styles through four-hand and song repertoire.

**MUC 201 - Primary Instrument: Private Lessons, 1-4 credit hours**

**Prerequisite(s):** Entry-level audition; for subsequent levels - previous level. Secondary, minor and elective study use MUC 131, MUC 132, MUC 231, MUC 232

**Corequisite(s):** Must be taken concurrently with MUC 002.

Performance studies, available in all orchestral instruments, keyboard instruments, guitar, or voice. Credit hours and repertoire requirements assigned according to student's degree program. Additional fees required for non-music majors, BA Music students, and music minors.

**MUC 202 - Primary Instrument: Private Lessons, 1-4 credit hours**

**Prerequisite(s):** Entry-level audition; for subsequent levels - previous level. Secondary, minor and elective study use MUC 131, MUC 132, MUC 231, MUC 232

**Corequisite(s):** Must be taken concurrently with MUC 002.

Performance studies, available in all orchestral instruments, keyboard instruments, guitar, or voice. Credit hours and repertoire requirements assigned according to student's degree program. Additional fees required for non-music majors, BA Music students, and music minors.

**MUC 205 - Major Ensembles, 1 credit hour**

BW SINGERS

UNIVERSITY CHOIR

SYMPHONIC BAND



MOTET CHOIR  
SYMPHONIC WIND ENSEMBLE  
SYMPHONY ORCHESTRA  
TREBLE CHOIR

Participation in rehearsals and performances with a large ensemble. Core skills addressed include effective communication and knowledge of human behaviors, cultures and the natural world. Audition required. May be repeated for credit.

**MUC 206 - Elective Ensembles, 1 credit hour**

AFRO-CENTRIC MUSIC ENSEMBLE  
BRASS CHOIR  
JAZZ ENSEMBLE  
JAZZ COMBO  
MUSIC THEATRE PRODUCTION ENSEMBLE  
OPERA PRODUCTION ENSEMBLE  
PERCUSSION ENSEMBLE

Participation in rehearsals and performances with an elective ensemble. May not be used to fulfill major ensemble requirement. Core skills addressed include effective communication and knowledge of human behaviors, cultures and the natural world. Audition required. May be repeated for credit.

**MUC 207 - Chamber Music, 1 credit hour**

Rehearsal and performance of chamber music under faculty guidance. May be repeated for credit; may be taken twice in the same semester (registration assistance may be required).

**MUC 215 - Composition Seminar, 0 credit hours**

**Notes:** Composition majors only or permission of instructor.

**Corequisite(s):** should be taken concurrently with Composition Lessons.

Development of compositional skills through a weekly master class. Students focus on developing compositional craftsmanship, working with a variety of forms and contemporary techniques, and composing in a variety of styles for various performance media.

**MUC 216 - Composition Lessons 1, 3 credit hours**

**Prerequisite(s):** Composition majors only or permission of instructor.

**Corequisite(s):** Co-requisite: MUC 215

Development of compositional skills through individualized study. Students focus on developing compositional craftsmanship, working with a variety of forms and contemporary techniques, and composing in a variety of styles for various performance media.

**MUC 217 - Composition Lessons 2, 3 credit hours**

**Prerequisite(s):** Composition majors only or permission of instructor.

**Corequisite(s):** Co-requisite: MUC 215

Development of compositional skills through individualized study. Students focus on developing compositional craftsmanship, working with a variety of forms and contemporary techniques, and composing in a variety of styles for various performance media.

**MUC 218 - Jazz Improvisation, 2 credit hours**

The development of basic improvisational skills. Some performance background necessary.

**MUC 219 - Jazz Arranging/Composition, 2 credit hours**

Fundamental techniques in arranging and composition for the jazz idiom. Analysis of stylistic approaches, compositional devices, and instrumentation. Weekly compositional and/or arranging projects required.

**MUC 224D - History of Jazz, 2 credit hours**

A survey of jazz from its origins through Dixieland and Ragtime to the present.

**MUC 231 - Secondary Instrument Levels 3, 1 credit hour**

**Prerequisite(s):** Prerequisite for MUC-231=MUC 132

For music majors, private lessons on a secondary instrument other than piano are available by audition and/or permission of the instructor. Private lessons are available for minors and elective study by audition only and as staffing permits. Individualized content will be based upon each student's level of experience, needs and goals. Additional fees required for non-music majors, BA Music students, music minors and music majors pursuing secondary study beyond the required four semesters.

**MUC 232 - Secondary Instrument Levels 4, 1 credit hour**

**Prerequisite(s):** Prerequisite for MUC-232F=MUC 231

For music majors, private lessons on a secondary instrument other than piano are available by audition and/or permission of the instructor. Private lessons are available for minors and elective study by audition only and as staffing permits. Individualized content will be based upon each student's level of experience, needs and goals. Additional fees required for non-music majors, BA Music students, music minors and music majors pursuing secondary study beyond the required four semesters.

**MUC 233 - Keyboard Musicianship 3, 1 credit hour**

**Prerequisite(s):** "C-" or better in MUC 134 or placement.

Class instruction in functional piano skills including melody harmonization, figured-bass realization, improvisation, score reading, sight-reading, and transposition. Emphasis on spontaneous music making and ensemble playing.

**MUC 234 - Keyboard Musicianship 4, 1 credit hour**

**Prerequisite(s):** "C-" or better in MUC 233 or placement.

Class instruction in functional piano skills including melody harmonization, figured-bass realization, improvisation, score-reading, sight-reading, and transposition. Emphasis on spontaneous music-making and ensemble playing.

**MUC 235 - Keyboard Musicianship for the Practitioner, 1 credit hour**

**Prerequisite(s):** MUC 234, completion of the keyboard proficiency exam, or students with keyboard as their primary instrument.

This class is designed to develop the functional piano skills of music educators, music therapists, choir directors, and those who use the keyboard to accompany others. Course topics include repertoire, reading lead sheets, song leading from the keyboard, variation techniques, and improvisation. Students will create an online portfolio to store their materials while tagging their scores and ideas for retrieval in their professional life. Required as one semester of secondary study for piano primary MUSE and MUSP.

**MUC 236 - Jazz Piano Skills, 1 credit hour**

**Prerequisite(s):** Completed piano proficiency exam, status as piano primary student, or permission of instructor.

Students learn about jazz chords and improvisation concepts. Students learn how to interpret chord symbols, play voicings, harmonize a melody, "comp" in various styles, walk bass lines, and improvise. May count for one semester of secondary study.

**MUC 241 - Singers' Diction and Literature 3, 2 credit hours**

**Prerequisite(s):** MUC 142

The study of the International Phonetic Alphabet applied to singing in German and the study of recital literature focusing on German art song. Classroom work includes: IPA transcription from original language, individual recitation of text and in-class singing performance of assigned repertoire.

**MUC 242 - Singer's Diction and Literature 4, 2 credit hours**

**Prerequisite(s):** MUC 241

The study of the International Phonetic Alphabet applied to singing in French and the study of recital literature

focusing on French art song. Classroom work includes: IPA transcription from original language, individual recitation of text and in-class singing performance of assigned repertoire.

**MUC 245 - Music Theatre Workshop 3: Shakespeare, 1 credit hour**

**Prerequisite(s):** MUC 146 or consent of instructor

Students learn how to use language intentionally working closely and actively with the text. Course work includes monologues and scene work.

**MUC 246X - Music Theatre Workshop 4: Audition Techniques, 1 credit hour**

**Prerequisite(s):** MUC 245 or consent of instructor

Students learn the art of the music theatre audition including how to choose and prepare material and how to present themselves professionally. Students will audition for summer stock theatres on campus.

**MUC 247 - Voice Performance Workshop 3: Acting/ Movement/ Music 3, 1 credit hour**

**Prerequisite(s):** MUC 148 or consent of the Director or Opera Studies

Students will develop advanced physical and vocal characterization skills through in-class work on assigned English language spoken scenes and songs with contemporary stylistic acting demands. Students will also develop musical preparation and style, communication and story-telling through songs, and fundamental audition technique. The course will culminate in a final performance of monologues and songs.

**MUC 248 - Voice Performance Workshop 4: Music Theater - Dance/ Style/ Performance Technique, 1 credit hour**

**Prerequisite(s):** MUC 247 or consent of the Director of Opera Studies

This course focuses on Golden Age Music Theater, late 20th Century Music Theater repertoire geared towards classically trained voices, and/or Operetta at the discretion of the instructors and according to the talents of the class. Classes will develop fundamental dance techniques for Waltz and other formal dances encountered in opera, operetta, and musical theater as well as choreography for assigned ensemble scenes. Assignments will focus on dramatic work, musical preparation, staging of assigned scene repertoire, and interpretation and performance techniques. Coursework culminates in a final workshop performance.

**MUC 251 - Recreational Music: Programming and Leadership, 2 credit hours**

**Prerequisite(s):** "B-" or better in MUC 151

Development of a repertoire of activities to provide a foundation for initial field work experiences. Adaptation of activities and instruments, basic assessment of client interests and needs, and evaluation of observations are required.

**MUC 253 - Percussion Skills for Music Therapists, 1 credit hour**

**Prerequisite(s):** MUC 151 or consent of instructor

An introduction to percussion instruments, rhythmic counterpoint, and a variety of percussion repertoire that music therapists may use in professional settings. Students will gain basic technical competence on several percussion instruments and understand their function in group settings.

**MUC 257 - Music Therapy Practicum 1, 1 credit hour**

**Prerequisite(s):** "B-" or better in MUC 151 and MUC 251

Student will complete at least 10 hours of direct client contact in a one-to-one setting at one of the approved practicum sites. Class content will include developing and administration of a client assessment, treatment plan, treatment evaluation and summary in addition to how to write progress notes. Students will also demonstrate and critic client interventions in the class meetings. Adherence to AMTA Standards of Practice, Code of Ethics and HIPAA regulations will be stressed in the conducting this faculty supervised experience.

**MUC 263 - Seminar, Variable credit**

Specialized treatment of particular subjects.

**MUC 267 - Artists and the Classroom, 3 credit hours**

**Prerequisite(s):** Must be a performing arts major or minor (music, theatre, and/or dance).

This course introduces skills required for success as a Teaching Artist including introductory training in trauma-informed care, adverse childhood experiences, the power of play, de-escalation & co-regulation, creating a safe & creative classroom, and self-care.

**MUC 271 - Teaching Music in a Diverse Society, 2 credit hours**

**Prerequisite(s):** MUC 171X, PSY 100, and EDU 103DX

Readings and experience in intercultural competence, culturally relevant pedagogy, and inclusive music selection. Students will understand ethnic, gender, religious, and class diversity, particularly as they manifest in U.S. schools, and experience various instructional and assessment strategies that meet the needs of diverse learners.

**MUC 273 - Brass Class, 2 credit hours**

**Prerequisite(s):** MUC 171X, PSY 100

Class instruction in trumpet, horn, trombone, baritone horn, and tuba, with emphasis on the development of individual performance skills and diagnostic pedagogical techniques and materials.

*Supervised clinical and field experiences and lab class required.*

**MUC 274 - Woodwind Class, 2 credit hours**

**Prerequisite(s):** MUC 171X, PSY 100

Class instruction in flute, clarinet, saxophone, oboe, and bassoon, with emphasis on the development of individual performance skills and diagnostic pedagogical techniques and materials. Supervised clinical and field experiences and lab class required.

**MUC 275 - String Class, 2 credit hours**

**Prerequisite(s):** MUC 171X, PSY 100

Class instruction in violin, viola, cello and bass, with emphasis on the development of individual performance skills and diagnostic pedagogical techniques and materials.

*Supervised clinical and field experiences and lab class required.*

**MUC 276 - Percussion Class, 2 credit hours**

**Prerequisite(s):** MUC 171X, PSY 100

Class instruction in percussion instruments, with emphasis on the development of individual performance skills and diagnostic pedagogical techniques and materials.

*Supervised clinical and field experiences and lab class required.*

**MUC 277 - Vocal Methods for the Young Singer, 2 credit hours**

**Prerequisite(s):** MUC 171X

The study of materials and methods for teaching the young, developing voice. Strategies for reluctant singers, issues in pitch-matching, and vocal pedagogy for adolescent voices, along with incorporating singing assessments in the general music classroom.

**MUC 278 - Diverse Ensembles for the Music Classroom, 2 credit hours**

**Prerequisite(s):** MUC 271

This course will focus on non-western classical music ensembles for the K-12 music classroom. Students will learn about how to organize, create, and plan for these diverse ensembles through guided readings, class discussions, and guest lectures by specialists in each area. Students will also gain experience for the various diverse ensembles through hands-on participation. Supervised clinical and field experiences of 10 hours is required.

**MUC 279 - Elemental Music for Young Students and Teachers, 2 credit hours**

This course offers an opportunity for students to develop individual musicianship skills in either the guitar or ukulele that not only benefits general music teaching but also promotes lifelong music-making. Learning is accomplished through hands-on participation in elemental improvisation and composition activities using recorders, barred

instruments, and untuned percussion. Pedagogy discussions center best teaching practices for young musicians that emphasize differentiation and accessibility for student success.

**Crosslisted:** MUL 279

**MUC 283 - Collaborative Piano, 1 credit hour**

Required of sophomore, junior, and senior B.M. performance majors and sophomore Music Theatre Music Direction majors. The study of key elements of effective collaborative performing, current career and artistic issues, practice and rehearsal techniques, and repertoire, with emphasis on duo works for piano and instrument/voice. Each semester, students will focus on a different aspect of collaborative playing by studying repertoire based on specific topics or special interests. May be repeated for credit.

**MUC 291 - Conducting, 2 credit hours**

Fundamental techniques of choral and instrumental conducting, including basic beat patterns, preparatory motions, cues, and releases.

**MUC 292 - Advanced Conducting, 2 credit hours**

**Prerequisite(s):** MUC 291

**MUC 295 - Independent Study, 1-4 credit hours**

**MUC 298X - Internship, Credit hours to be arranged**

The for-credit internship registration process is handled via the Career Center Handshake platform. To register your internship for credit, please contact Career Center at [career@bw.edu](mailto:career@bw.edu).

**MUC 301 - Primary Instrument: Private Lessons, 1-4 credit hours**

**Prerequisite(s):** Entry-level audition; for subsequent levels - previous level. Secondary, minor and elective study use MUC 131, MUC 132, MUC 231, MUC 232

**Corequisite(s):** Must be taken concurrently with MUC 002.

Performance studies, available in all orchestral instruments, keyboard instruments, guitar, or voice. Credit hours and repertoire requirements assigned according to student's degree program. Additional fees required for non-music majors, BA Music students, and music minors.

**MUC 302 - Primary Instrument: Private Lessons, 1-4 credit hours**

**Prerequisite(s):** Entry-level audition; for subsequent levels - previous level. Secondary, minor and elective study use MUC 131, MUC 132, MUC 231, MUC 232

**Corequisite(s):** Must be taken concurrently with MUC 002

Performance studies, available in all orchestral instruments, keyboard instruments, guitar, or voice. Credit hours and repertoire requirements assigned according to student's degree program. Additional fees required for non-music majors, BA Music students, and music minors.

**MUC 303 - Partial Junior Recital, .5 credit hour**

**Prerequisite(s):** Approval of department

Preparation and performance of a half-length recital program at the junior level. Repertoire chosen to represent technical achievement and a variety of musical styles.

**MUC 304 - Elective Recital, .5 credit hours**

**Prerequisite(s):** Approval of department

Preparation and performance of a half-length recital program at the junior level. Repertoire chosen to represent technical achievement and a variety of musical styles.

**MUC 305X - Pedagogy of Music, 3 credit hours****Prerequisite(s):** MUC 201

An examination of how the human mind interacts with and learns about, in, and through music. Techniques for effective music instruction as well as specific instruction on the student's primary instrument will be explored and practiced. Taken in fall of odd years by junior or senior string and keyboard primaries; fall of even years by junior or senior woodwinds and brass primaries.

**MUC 306 - Chamber Music Literature, 2 credit hours****Prerequisite(s):** MUA 310 and MUA 320

A study of the significant genres and stylistic trends in chamber music. The broad scope of chamber music literature will be examined through focus upon pivotal and archetypal masterworks, with an emphasis on understanding the historical and cultural context. Students will increase skills in analyzing as well as in writing and speaking about music.

**MUC 307 - String Pedagogy, 3 credit hours****Prerequisite(s):** MUC 305X

Pedagogical techniques for string instruments with emphasis on the principal performing area. A range of pedagogical approaches and teaching literature will be examined. Mentored teaching experiences will be arranged.

**MUC 308 - Partial Junior Recital, 0 credit hours****Prerequisite(s):** Approval of department

Preparation and performance of a half-length recital program at the junior level. Repertoire chosen to represent technical achievement and a variety of musical styles.

**Graded:** S/U**MUC 309 - Entrepreneurship and Advocacy, 1 credit hour****Prerequisite(s):** MUC 202

An examination of practical skills and knowledge required for a contemporary professional musician. Includes an introduction to relevant aspects of finance, marketing, contracting, and intellectual property. Additional topics include career exploration & development, audience building, and arts advocacy.

**MUC 310 - Music Performance Career Development, 2 credit hours****Prerequisite(s):** MUC 309

An examination of applied skills for successful performing and portfolio careers in music. Includes an investigation of music income streams, recording, copyright/legal issues, and marketing for successful performances.

**MUC 312 - Music Copyright Law, Publishing, and Licensing, 3 credit hours****Prerequisite(s):** ENG 131 and either AMG 203 or MUC 309

This course provides an overview of legal and professional components of music publishing, copyright, and licensing relative to the music industry.

**Crosslisted:** MUL 312**MUC 315 - Electronic Music, 2 credit hours**

Survey of the evolution of electro-mechanical means of creating music with a focus on contemporary technology. Topics include hardware, software, MIDI, sequencing, sampling, and multimedia applications.

**MUC 316 - Composition Lessons 3, 3 credit hours****Prerequisite(s):** MUC 217; Composition majors only or permission of instructor.**Corequisite(s):** MUC 215

Development of compositional skills through individualized study. Students focus on developing compositional craftsmanship, working with a variety of forms and contemporary techniques, and composing in a variety of styles for various performance media.

**MUC 317 - Composition Lessons 4, 3 credit hours**

**Prerequisite(s):** MUC 217; Composition majors only or permission of instructor.

**Corequisite(s):** MUC 215

Development of compositional skills through individualized study. Students focus on developing compositional craftsmanship, working with a variety of forms and contemporary techniques, and composing in a variety of styles for various performance media.

**MUC 318 - Instrumentation and Orchestration, 2 credit hours**

**Prerequisite(s):** MUA 310

An introduction to the instruments of the orchestra and the study of basic playing techniques and limitations and scoring methods.

**MUC 320 - Advanced Electronic and Computer Music, 2 credit hours**

**Prerequisite(s):** MUC 315

Advanced Electronic and Computer Music will implement this information by focusing solely on generative devices and properties in the program MAX. With its unique coding language, ability to transform live performance, and proven powerful results, MAX has proven to be the dominant software among composers, performers, songwriters, commercial musicians, and even visual artists in the 21st Century.

**MUC 324 - Structure and Style in the Music of the African Diaspora, 2 credit hours**

**Prerequisite(s):** MUA 310 & MUA 320

This course introduces musicians to the system of complex musical counterpoint of Sub Saharan Africa and its descendants in the African Diaspora. The purpose of this course will be to provide students with the ability to decode the dense layers of this music and incorporate it into their own musicianship. Both an applied and an analytical/historical approach will be employed. While the ample rhythmic elements of West African, Afro-Caribbean, and African-American music will be the primary focus, the melodic and harmonic components of these traditions will also be studied.

**MUC 329 - Introduction to Research in Music, 2 credit hours**

Introduces students to the nature of research in music. Through the study of the ways in which music information is created, disseminated, and organized, students will learn to locate, organize, evaluate, and use information. Skills learned will be applicable across disciplines. Music History and Music Theory majors will prepare for their senior project by developing a prospectus of their paper.

**MUC 340 - Vocal Pedagogy 1, 2 credit hours**

Vocal Pedagogy 1 will prepare the student for ongoing comprehension of the vocal mechanism and how it works. Study includes the anatomy and physiology of the vocal mechanism as it pertains to singing.

**MUC 341 - Vocal Pedagogy 2, 3 credit hours**

**Prerequisite(s):** MUC 340

Practicum semester for students pursuing a Pedagogy Emphasis covering vocal exercises, problem solving techniques, and development of a personal philosophy of voice training. Includes observation of private teachers and supervised student teaching.

**MUC 345 - Music Theatre Workshop 5: Golden Age of Music Theatre, 1 credit hour**

**Prerequisite(s):** MUC 246X or consent of instructor

Students work on material from the Golden Age of music theatre in a scene work context, rehearse and perform a concert of Golden Age material.

**MUC 346 - Music Theatre Workshop 6: Music Theatre Business/Acting for the Camera, 1 credit hour**

**Prerequisite(s):** MUC 345 or consent of instructor

Students learn commercial acting techniques, working with a camera and ear prompter. Students also learn about the business side of their career.

**MUC 347 - Voice Performance Workshop 5: Scenes and Period Style - Baroque, Bel Canto and Romantic, 1 credit hour**

**Prerequisite(s):** MUC 248 or consent of the Director of Opera Studies

Students will continue the development of sung acting technique and craft by building on skills acquired in previous semesters. Class work will focus on fundamental period style through assigned scene material including Baroque, Bel Canto, and Romantic repertoire. Coursework culminates in a final workshop performance.

**MUC 348 - Voice Performance Workshop 6: Scenes and Period Style - Classical and Contemporary, 1 credit hour**

**Prerequisite(s):** MUC 347 or consent of the Director of Opera Studies

Students will continue the development of sung acting technique and craft by building on skills acquired in previous semesters. Class work will focus on fundamental period style through assigned scene material including Classical and Contemporary repertoire. Coursework culminates in a final workshop performance.

**MUC 351 - Music Therapy in Psychiatry and Rehabilitation, 3 credit hours**

**Prerequisite(s):** "B-" or better in MUC 352

Clinical methods as they relate to working with psychiatric, geriatric, medical, neurologically impaired, and addicted clients.

**MUC 352 - Music Therapy with the Developmentally Disabled, 3 credit hours**

**Prerequisite(s):** MUC 151 or consent of instructor

Evidence-based clinical practice of Music Therapy as it relates to assessment, treatment planning and direct service for clients with intellectual/cognitive disabilities, autism, sensory impairments (vision, hearing), speech and language disorders, physical challenges and learning disabilities.

**MUC 353 - Program Development and Advocacy in Music Therapy, 2 credit hours**

**Prerequisite(s):** "B-" or better in MUC 151

Focus on program planning, scheduling, budgeting, and public relations strategies. Procedures of documentation, standards of practice, codes of ethics, and legislative issues relating to the practice of music therapy included.

**MUC 354 - Creating Music, 1 credit hour**

**Prerequisite(s):** MUA 310 and MUA 320

The development of functional skills in improvisation, composition, instrumentation, and arranging for use in educational, liturgical, and other community-based settings.

**MUC 357 - Music Therapy Practicum 2, 1 credit hour**

**Prerequisite(s):** "B-" or better in MUC 257

Student will complete at least 12 hours of direct client contact with a consistent client group at one of the approved practicum sites. Continued development of documentation and verbal reporting skills as well as in-class intervention presentations/critiques. Adherence to AMTA Standards of Practice, Code of Ethics and HIPAA regulations will be stressed in this faculty-supervised experience.

**MUC 358X - Music Therapy Practicum 3, 1 credit hour**

**Prerequisite(s):** "B-" or better in MUC 357

Student will complete at least 12 hours of direct client contact (with a population/diagnoses not yet experienced in previous practica) at one of the approved practicum sites plus at least 2 hours of Peer Supervision observing and critiquing a peer in their fieldwork experience. Streamlining and adapting to facility-specific documentation and verbal reporting skills will be focus of class discussion as well as interviewing techniques, preparing for the CBMT exam and CBMT continuing education standards. Adherence to AMTA Standards of Practice & Code of Ethics, CBMT Scope of Practice and HIPAA regulations will be stressed in this faculty-supervised experience.



**MUC 360 - Structure and Interpretation, 2 credit hours****Prerequisite(s):** MUA 330 or the consent of instructor

Structural analysis as applied to musical expression. Study of ways the structure of music informs its interpretation and performance.

**MUC 361 - Music and Meaning in Film, 2 credit hours****Prerequisite(s):** ENG 131

Music and sound play a vital role in the reception, interpretation, and enjoyment of films; yet their roles are often overlooked when a film is critically examined. This course examines the role of music and sound in film. The course will include a survey of the important writings on music and sound in film, as well as the development of terms and methods for analyzing and interpreting the soundtracks of films paying particular attention to music's role in the soundtrack and the overall relation between soundtrack and image-track. Additionally, student will explore how soundtracks are put together and will be given an opportunity to create their own soundtrack to an image-track provided by the professor.

This is neither a course in analyzing music per se, nor a historical survey of film music, at least as traditionally construed. But it is analytical and interpretive, and we will address historical questions, especially with regard to style, genre, and influence. While helpful, courses in music and/or film history and analysis are not a prerequisite for success in the course. The main requirement is a willingness to listen carefully and to articulate what you hear.

**Crosslisted:** MUL 361**MUC 362 - Music and Meaning in Video Games, 2 credit hours****Prerequisite(s):** ENG 131

How do we engage with music in video games? What does this music mean- both in a game and beyond? And what is the status of such music within broader notions of modern music culture? This course will answer these questions by engaging directly with video game music through play and listening, discussing the design and functions that define this repertoire within this media form. We will also step outside of games to discuss contextual and sociocultural issues that surround such music and those who engage with it- particularly in ways that traverse the spectrum of serious to trivial. Students will be given the opportunity to engage with the emerging field of "Ludomusicology," the study of music and/in/as play, and to create trade level sound design documents for a video game concept of their own creation using art provided by the professor.

**Crosslisted:** MUL 362**MUC 363 - Seminar, Variable credit**

Specialized treatment of particular subjects.

**MUC 364 - Special Studies in the Music Of J.S. Bach, 2 credit hours****Prerequisite(s):** MUA 2411

A seminar based on a particular aspect of J. S. Bach's music. Specific seminars may explore a particular genre or piece, a comparison of Bach with other composers, the reception history of Bach, Bach in the historical or religious context of his time, etc. May be repeated for credit.

**MUC 367 - Artists and the Community, 3 credit hours****Prerequisite(s):** MUC/THE 267

This course introduces skills required for success as a Teaching Artist including intermediate level training in: diversity, equity & inclusion; school & community resilience; restorative justice, culturally responsive teaching, creating a safe & creative classroom; and de-escalation & co-regulation.

**MUC 370 - General Music Methods I, 2 credit hours****Prerequisite(s):** MUC 171X; PSY 205

The study of methods and materials for teaching music to children, pre-K through elementary school. Includes child development, music teaching philosophies and theories, planning and assessment, use of technology, and sequencing of skills in general music settings. Supervised clinical and field experiences of 10 hours is required.

**MUC 371 - Choral Music Methods I, 2 credit hours****Prerequisite(s):** EDU 212; MUC 370; PSY 205

The study of methods and materials for teaching choral music including curriculum and planning, diverse and appropriate repertoire selection, rehearsal strategies, and student engagement. Additional focus will include assessment techniques, technology, and program administration. Supervised clinical and field experiences of 10 hours is required.

**MUC 372 - Instrumental Music Methods I, 2 credit hours****Prerequisite(s):** EDU 212; MUC 370; MUC 275; and either MUC 273 or MUC 274

The study of foundational pedagogy for teaching instrumental music to beginning students from a comprehensive musicianship perspective. Includes sequencing pedagogy, writing effective lesson plans, utilizing best educational practices, tuning a large ensemble, incorporating impactful formative assessments, constructing classroom procedures, giving constructive feedback to young musicians, and organizing a beginning instrumental music program. Supervised field experience required.

**MUC 373 - Marching Band Techniques, 2 credit hours**

The study of basic pedagogy, rehearsal techniques, and resources to create a successful Marching Band. Additional focus will include the history and purpose of Marching Bands in the United States and abroad. Includes reading and writing marching band drill charts, instructing marching fundamentals, and the principles of designing a marching band show.

**MUC 375 - School Music Program Administration, 2 credit hours****Prerequisite(s):** MUC 171X and EDU 212

This course will prepare students to complete the administrative and logistical tasks required to run a PK-12 music program. Topics will include: recruiting, fundraising, field trips, assessment, concerts, community outreach, booster groups, inventory, and copyright.

**MUC 385 - Preparation for the Church Musician, 3 credit hours****Prerequisite(s):** Piano or organ major; others by consent of instructor

This course is designed to provide practical experience in hymn playing, improvisation, and leadership in worship services within their appropriate historical, cultural, and denominational context.

**MUC 386 - Church Music Apprenticeship, 1 credit hour**

This course is designed to provide practical experience in hymn playing, improvisation, and leadership in worship services within their appropriate historical, cultural, and denominational context.

**MUC 395 - Independent Study, 1-4 credit hours****MUC 398X - Internship, Credit hours to be arranged**

The for-credit internship registration process is handled via the Career Center Handshake platform. To register your internship for credit, please contact Career Center at [career@bw.edu](mailto:career@bw.edu).

**MUC 401 - Primary Instrument: Private Lessons, 1-4 credit hours****Prerequisite(s):** Entry-level audition; for subsequent levels - previous level. Secondary, minor and elective study use MUC 131, MUC 132, MUC 231, MUC 232**Corequisite(s):** Must be taken concurrently with MUC 002.

Performance studies, available in all orchestral instruments, keyboard instruments, guitar, or voice. Credit hours and repertoire requirements assigned according to student's degree program. Additional fees required for non-music majors, BA Music students, and music minors.

**MUC 402 - Primary Instrument: Private Lessons, 1-4 credit hours**

**Prerequisite(s):** Entry-level audition; for subsequent levels - previous level. Secondary, minor and elective study use MUC 131, MUC 132, MUC 231, MUC 232

**Corequisite(s):** Must be taken concurrently with MUC 002.

Performance studies, available in all orchestral instruments, keyboard instruments, guitar, or voice. Credit hours and repertoire requirements assigned according to student's degree program. Additional fees required for non-music majors, BA Music students, and music minors.

**MUC 403 - Partial Senior Recital, .5 credit hour**

**Prerequisite(s):** Approval of department

Preparation and performance of a half-length recital program at the senior level. Repertoire chosen to represent technical achievement and a variety of musical styles.

**MUC 404 - Full Senior Recital, 1 credit hour**

**Prerequisite(s):** Approval of department

Preparation and performance of a full-length recital program at the senior level. Repertoire chosen to represent technical achievement and a variety of musical styles.

**MUC 405 - Chamber Music Recital, 1 credit hour**

**Prerequisite(s):** Approval of department

Preparation and performance of a full-length chamber music recital program at the senior level. Repertoire chosen to represent technical achievement and a variety of musical styles.

**MUC 407 - Collaborative Piano Recital, 1 credit hour**

**Corequisite(s):** MUC 283. Student must also be enrolled in the Collaborative Piano Emphasis Program and/or be given permission and approval by the Department of Keyboard Studies.

Preparation and performance of a full-length collaborative piano recital program at the senior level. Repertoire chosen to represent technical achievements and a variety of musical styles from vocal and instrumental duo literatures.

**MUC 408 - Full Senior Recital, 0 credit hours**

**Prerequisite(s):** Approval of department

Preparation and performance of a full-length recital program at the senior level. Repertoire chosen to represent technical achievement and a variety of musical styles.

**Graded:** S/U

**MUC 410 - Thesis Project Presentation, 1 credit hour**

**Prerequisite(s):** Approval of department

Preparation and performance of a lecture program at the senior level, as a publishable document, and as a defended work of scholarship. Subject to correspond with the required Senior Research project in Music History or Music Theory.

**MUC 411 - Thesis Research in Music Theory, 1 credit hour**

In-depth analysis and supporting research of a major work of symphonic proportions or a group of shorter works. Use of several analytical approaches expected. Requires completion of major paper in compliance with departmental requirements.

**MUC 412 - Music Academic Studies Seminar, 0 credit hours**

**Prerequisite(s):** Must be a music major to enter course.

A seminar for music history and music theory majors to be taken throughout the junior and senior years. This seminar will include a series of lectures, presentations, and discussions led by department faculty and visiting scholars. It is meant to demonstrate musical scholarship and provide guidance for students as they work through their undergraduate research projects. Additionally, the seminar will focus on professional development topics such as graduate school applications, graduate entrance exams, graduate and undergraduate scholarships, graduate

assistantships, conference proposals, and professional etiquette. This seminar is open to interested students, faculty, and/or staff who would benefit from the information.

**MUC 415 - Contemporary Composition Techniques, 2 credit hours**

**Prerequisite(s):** MUC 217; Composition majors only or permission of instructor

An exploration and composition modeling course of 20th and 21st century compositional trends and techniques, specifically twelve-tone, serialism, indeterminacy, process/algorithmic, proportional notation, minimalism, third-stream (jazz influence), rock influenced, and tonal/nonfunctional music writing.

**MUC 416 - Composition Lessons 5, 3 credit hours**

**Prerequisite(s):** MUC 317; Composition majors only or permission of instructor

Development of compositional skills through individualized study. Students focus on developing compositional craftsmanship, working with a variety of forms and contemporary techniques, and composing in a variety of styles for various performance media. May be repeated for credit.

**MUC 417 - Composition Lessons 6, 3 credit hours**

**Prerequisite(s):** MUC 317, MUC 416; Composition majors only or permission of instructor

Development of compositional skills through individualized study. Students focus on developing compositional craftsmanship, working with a variety of forms and contemporary techniques, and composing in a variety of styles for various performance media. May be repeated for credit.

**MUC 418X - Senior Composition Recital, 1 credit hour**

**Prerequisite(s):** Approval of department

A full length recital of original compositions representing the student's work throughout his or her undergraduate study. The program is to be chosen in consultation with the Instructor of Composition.

**MUC 419X - Music Theory Practicum, 1 credit hour**

**Prerequisite(s):** MUC 329 or consent of instructor

Practical application of music theory skills through observation of and participation in supervised professional experience such as, but not limited to, tutoring, course assisting, or research assisting.

**MUC 421 - Thesis Research in Music History, 1 credit hour**

In-depth analysis and supporting research of a major work, composer, or style period. Use of several analytical approaches expected. Requires completion of major paper in compliance with departmental requirements.

**MUC 429X - Music History Practicum, 1 credit hour**

**Prerequisite(s):** MUC 329 or consent of instructor

Practical application of music history skills through observation of and participation in supervised professional experience such as, but not limited to, tutoring, course assisting, or research assisting.

**MUC 445 - Music Theatre Workshop 7: Music Theatre Senior Boot Camp, 1 credit hour**

**Prerequisite(s):** MUC 346 or consent of instructor

Students will give back to the community by creating an hour-long Disney program to be presented at local hospitals. Students will then participate in a series of high intensity workshops focusing on understudying, preparing for Showcase week in NY, and their senior recitals.

**MUC 446 - Music Theatre Workshop 8: Music Theatre Showcase, 1 credit hour**

**Prerequisite(s):** Anticipated completion of graduation requirements and department chair consent

Students create, rehearse, and perform a professional Agent Showcase presented in New York City near the end of their final semester. Students learn strategies for optimizing agent interviews and handling themselves as professionals in a professional context.

**MUC 447 - Voice Performance Workshop 7: Advanced Audition Preparation 1, 1 credit hour**

**Prerequisite(s):** MUC 348 or consent of the Director of Opera Studies

Intensive dramatic, musical, stylistic, interpretive, and communicative preparation of audition repertoire. Course work will focus on students' studio teacher assigned repertoire and culminates in a final workshop performance.

**MUC 448X - Voice Performance Workshop 8: Advanced Audition Preparation 2 with Final Project, 1 credit hour**

**Prerequisite(s):** MUC 447 or consent of the Director of Opera Studies

Intensive dramatic, musical, stylistic, interpretive, and communicative preparation of audition repertoire. Course work will focus on students' studio teacher assigned repertoire and a special project determined by class enrollment. Students will also present on a particular acting method, system, teacher, or practitioner. Coursework culminates in a final workshop performance.

**MUC 451 - Psychology of Music, 2 credit hours**

**Prerequisite(s):** MUC 151 or consent of instructor

An overview of current research in music learning, music preference, acoustics, influence of music on listener behavior, and measurement of music achievement and performance.

**MUC 452 - Research Seminar in Music Therapy, 2 credit hours**

**Prerequisite(s):** "B-" or better in MUC 451

Practical exposure to research methods. Independent research projects incorporating the most common methods of data analysis and test design required.

**MUC 454 - Music Therapy Internship, 1 credit hour**

**Prerequisite(s):** Senior Music Therapy majors only; successful completion of all coursework

Six months of full-time clinical experience in an AMTA-approved facility. Documentation and special research projects included according to the clinical internship training plan. Must be completed within two years following conclusion of course work.

**MUC 455 - Music Therapy Equivalency Internship, 0 credit hours**

**Prerequisite(s):** Successful completion of all coursework prior to the internship for the Post-Baccalaureate Music Therapy Equivalency Program.

Six months of full-time clinical experience in an AMTA-approved facility. Documentation and special research projects included according to the clinical internship training plan. Must be completed within two years following conclusion of course work.

**MUC 459X - Faculty-Student Collaboration, Credit hours to be arranged**

**MUC 463 - Seminar, Variable credit**

Specialized treatment of particular subjects.

**MUC 467 - Teaching Artist Capstone, 3 credit hours**

**Prerequisite(s):** MUC/THE 368

This capstone course allows students to integrate their learning through a mentored internship with a teaching artist in a community or school setting. In addition, all students will meet weekly in class to reflect on their engagement in the field and prepare for future teaching.

**MUC 470 - General Music Methods II, 2 credit hours**

**Prerequisite(s):** MUC 370

The study of methods and materials for teaching general music to middle and high school students. Includes adolescent development, age-appropriate instructional strategies, the use of technology in the general music

classroom, non-traditional instruments, and advanced pedagogy. Supervised clinical and field experiences of 30 hours is required.

**MUC 471 - Choral Music Methods II, 2 credit hours**

**Prerequisite(s):** MUC 371

Using choral repertoire as the basis, the study of specific strategies for successful secondary choral ensembles. Additional focus on choral pedagogy, recruitment, differentiation for diverse learners, individual voice development, and professional organizations. Supervised clinical and field experiences of 30 hours is required.

**MUC 472 - Instrumental Music Methods II, 2 credit hours**

**Prerequisite(s):** MUC 372

The study of methods, repertoire, and pedagogy for teaching intermediate/advanced instrumental music ensembles. Focus will expand upon the techniques and pedagogy that were included in Instrumental Music Methods I. Those topics will include: marching band technique, repertoire, shifting, vibrato, and rehearsal techniques. Supervised clinical and field experiences of 30 hours is required.

**MUC 493 - Conducting Apprenticeship, 1 credit hour**

Score preparation, rehearsal observation, and some large-ensemble conducting under the guidance of a master conductor.

**MUC 495 - Independent Study, 1-4 credit hours**

**MUC 498X - Internship, Credit hours to be arranged**

Program of study for the Pedagogy Emphasis. The for-credit internship registration process is handled via the Career Center Handshake platform. To register your internship for credit, please contact Career Center at [career@bw.edu](mailto:career@bw.edu).

## **Music in the Liberal Arts**

**MUL 118 - Songwriting, 2 credit hours**

This course will explore what it means to be a contemporary songwriter. Through hands-on modeling and experimentation, students will apply tools and techniques to their own songwriting while simultaneously analyzing current contemporary, commercial, and art-pop trends. Weekly assignments and projects that capture the spirit of the course's six parts will challenge students to create songs individually or as a collaborative team.

**MUL 121 - Diversity Through Music in Disney Films, 3 credit hours**

This course examines representations of diversity—specifically, the topics of race, ethnicity, gender, sexuality, and disability—through the lens of music in Disney and Disney/Pixar films. Although its early films featured racial caricatures and exclusively Caucasian heroines, Disney has, in recent years, become more multicultural in its filmic fare and its image. From Aladdin and Pocahontas to the first African American princess in the The Princess and the Frog and the depiction of Mexican culture, family, and borders in Coco, Disney films have come to both mirror and influence our increasingly diverse society. In Disney's early films, music was often used to bolster common negative stereotypes, but music has increasingly become a significant tool in providing authenticity. Students will learn the basic terminology and techniques for examining music's role in film; no prior musical training is required.

**MUL 122D - Gender and Sexuality in Popular Music, 3 credit hours**

This course examines popular music—broadly defined to include rock, pop, hip hop, country, and other popular music genres—through the lens of gender and sexuality from the 1970s to the present.

**MUL 123 - The Music of Woodstock, 3 credit hours**

An examination of the performers and music at Woodstock and their affect on American music and society.

**MUL 125D - Megamix: American Society Through Music Theatre, 3 credit hours**

This course examines American Music Theatre as a reflection of American Society by looking at how Music Theatre uses music from a multitude of traditions and how the art form addresses a multitude of American cultural and societal issues.

**MUL 132I - An Introduction to Drumming with a Focus on the Music of the African Diaspora, 2 credit hours**

This course introduces students to technically safe drumming techniques with hands and sticks and explores their application to the music of West Africa, Cuba, Brazil, and the United States. Students will have the opportunity to learn traditional music and have the option of studying traditional dance as well. Each unit will be presented in its cultural context as a product of the complex legacy of slavery, colonialism, and the mixing of the global cultures. Students will perform parts to pieces, identify important elements of traditional elements of Afro-centric music, and understand their manifestation in modern American life.

**MUL 134 - Piano Class, 1 credit hour**

Piano for non-music majors who have had little or no piano experience. Core skills addressed include effective communication and knowledge of human behaviors, cultures and the natural world.

**MUL 135 - Voice Class, 1 credit hour**

Introduction to the basic elements of singing, including physiological aspects of the singing process, diction principles based on the International Phonetic Alphabet, and expressive techniques. Core skills addressed include effective communication and knowledge of human behaviors, cultures and the natural world.

**MUL 136 - Guitar Class, 1 credit hour**

Instruction in playing primary chords in several keys, strumming patterns to accompany singing, and a repertoire of songs from the folk, popular, and patriotic literature. Use of bass guitar and amplification included. Prior experience in reading music helpful but not required. Use of personally owned instruments advised. Core skills addressed include effective communication and knowledge of human behaviors, cultures and the natural world.

**MUL 137 - Intermediate Guitar Class, 1 credit hour**

**Prerequisite(s):** MUL 136 or consent of instructor

Class instruction to further develop technique and broaden styles introduced in MUL 136. Barre chords, note reading, accompaniment of singing, playing by ear, transposition, and finger picking are among topics for study. Core skills addressed include effective communication and knowledge of human behaviors, cultures and the natural world.

**MUL 139 - Intermediate Piano Class, 1 credit hour**

**Prerequisite(s):** MUL 134 or consent of instructor

Class instruction to further the development of technical and musical skills introduced in MUL 134. Includes playing in major and minor keys, sight-reading, improvisation, harmonization, and appropriate technical studies and literature. Core skills addressed include effective communication and knowledge of human behaviors, cultures and the natural world.

**MUL 171I - The Art of Listening to Music, 2 credit hours**

An introductory course designed for the non-music major, with the goal of becoming familiar with representative masterpieces of classical music. Core skills addressed include complex thinking skills and knowledge of human behaviors, cultures and the natural world.

**MUL 172 - Engaging With Music, 3 credit hours**

An introduction to music and its basic elements, focusing on the interaction of these elements in musical styles. Content includes a survey of historical periods with emphasis on stylistic characteristics to inform the knowledgeable listener.

**MUL 178I - World Music, 3 credit hours**

The study of the music of non-Western and Western cultures. Participants study the music of other peoples, thereby gaining an understanding of their culture, mores, and traditions. The different functions music serves in a society are also considered. Study includes music from people of Africa, Asia, Australia, Europe, North and South America, the Caribbean, and the Middle East. Students become acquainted with the music of these cultures through listening, reading and other outside assignments, class discussion, and concert attendance.

**MUL 208 - Non-Music Major Ensemble, 1 credit hour**

MEN'S CHORUS  
MARCHING BAND

Participation in rehearsal and performances with non-music major elective ensemble. May not be used by music majors to fulfill major ensemble or elective requirements. Audition not required. May be repeated for credit.

**MUL 218 - Jazz Improvisation, 2 credit hours**

Development of basic improvisational skills. Some performance background necessary.

**MUL 224D - History of Jazz, 2 credit hours**

A survey of jazz from its origins through Dixieland and Ragtime to the present.

**MUL 226 - American Popular Music: 1865-1965, 3 credit hours**

Examines the evolution of American popular music in its social, political, and cultural contexts from the Civil War to the Cultural Revolution of the 1960s. An exploration of the century during which distinctive American musical styles, functions, sounds, and identities were established will reveal way the music develops, assimilates, and changes within its social and political contexts. In addition, the consideration of cultural contexts, geographic perspectives, and racial issues offer paths toward insight into the character, influence, and purposes of music in America.

**MUL 279 - Elemental Music for Young Students and Teachers, 2 credit hours**

This course offers an opportunity for students to develop individual musicianship skills in either the guitar or ukulele that not only benefits general music teaching but also promotes lifelong music-making. Learning is accomplished through hands-on participation in elemental improvisation and composition activities using recorders, barred instruments, and untuned percussion. Pedagogy discussions center best teaching practices for young musicians that emphasize differentiation and accessibility for student success.

**Crosslisted:** MUC 279

**MUL 295 - Independent Study, 1-4 credit hours****MUL 307 - Brand, Marketing, and Social Media for Artists, 3 credit hours**

**Prerequisite(s):** Junior or Senior Status

This course examines how to use social media and email marketing to build a brand and develop a marketing plan as an artist. Focusing on building a community through inbound marketing strategies, students will create a brand message and entrepreneurial plan to promote their work as a musician, artist, or actor.

**MUL 312 - Music Copyright Law, Publishing, and Licensing, 3 credit hours**

**Prerequisite(s):** ENG 131 and either AMG 203 or MUC 309

This course provides an overview of legal and professional components of music publishing, copyright, and licensing relative to the music industry.

**Crosslisted:** MUC 312

**MUL 315 - Electronic Music, 2 credit hours**

Survey of the evolution of electro-mechanical means of creating music with a focus on contemporary technology. Topics include hardware, software, MIDI, sequencing, sampling, and multimedia applications.



**MUL 361 - Music and Meaning in Film, 2 credit hours****Prerequisite(s):** ENG 131

Music and sound play a vital role in the reception, interpretation, and enjoyment of films; yet their roles are often overlooked when a film is critically examined. This course examines the role of music and sound in film. The course will include a survey of the important writings on music and sound in film, as well as the development of terms and methods for analyzing and interpreting the soundtracks of films paying particular attention to music's role in the soundtrack and the overall relation between soundtrack and image-track. Additionally, student will explore how soundtracks are put together and will be given an opportunity to create their own soundtrack to an image-track provided by the professor.

This is neither a course in analyzing music per se, nor a historical survey of film music, at least as traditionally construed. But it is analytical and interpretive, and we will address historical questions, especially with regard to style, genre, and influence. While helpful, courses in music and/or film history and analysis are not a prerequisite for success in the course. The main requirement is a willingness to listen carefully and to articulate what you hear.

**Crosslisted:** MUC 361**MUL 362 - Music and Meaning in Video Games, 2 credit hours****Prerequisite(s):** ENG 131

How do we engage with music in video games? What does this music mean- both in a game and beyond? And what is the status of such music within broader notions of modern music culture? This course will answer these questions by engaging directly with video game music through play and listening, discussing the design and functions that define this repertoire within this media form. We will also step outside of games to discuss contextual and sociocultural issues that surround such music and those who engage with it- particularly in ways that traverse the spectrum of serious to trivial. Students will be given the opportunity to engage with the emerging field of "Ludomusicology," the study of music and/in/as play, and to create trade level sound design documents for a video game concept of their own creation using art provided by the professor.

**Crosslisted:** MUC 362**MUL 373 - Marching Band Techniques, 2 credit hours**

The study of basic pedagogy, rehearsal techniques, and resources to create a successful Marching Band. Additional focus will include the history and purpose of Marching Bands in the United States and abroad. Includes reading and writing marching band drill charts, instructing marching fundamentals, and the principles of designing a marching band show.

**MUL 395 - Independent Study, 1-4 credit hours****MUL 495 - Independent Study, 1-4 credit hours**

## Neuroscience

**NRO 110 - Introduction to Brain & Behavior, 3 credit hours**

This survey course provides an introduction to brain structure/function and the neural bases of regulatory functions, complex behaviors, and mental processes, such as motivation, vision, hearing, movement, emotion, language, memory, and sleep.

**NRO 200 - Introduction to Cell and Molecular Neuroscience, 3 credit hours****Prerequisite(s):** BIO 121

A lecture survey of cellular and molecular principles of neuroscience. Topics include nervous system cell structure and function, membrane biophysics, cell signaling, brain development, memory, and disease.

**NRO 210 - Neuroanatomy, 4 credit hours****Prerequisite(s):** NRO 110

This course provides an in-depth understanding of the workings of the mammalian nervous system. The course will go beyond basic knowledge through hands-on exploration and application in a lab that utilizes gross and computerized specimens to illustrate structure-function relationships. At the end of the course, students will be able to describe the location, function, and interactions of the levels of the mammalian nervous system, and how function and dysfunction of these levels results in normal and abnormal outcomes.

**NRO 263 - Special Topics in Neuroscience, 3 credit hours****Prerequisite(s):** Prerequisites dependent on topic

Seminars reflecting the depth and breadth of Neuroscience are offered periodically.

**NRO 280 - Neuroscience Research Methods and Techniques, 3 credit hours****Prerequisite(s):** NRO 110, NRO 200, and either PSY 278 or MTH 108

Student performance and outcomes will be measured through exams, leading discussion on a research paper with a partner, data analysis worksheets based on the readings, and a group project consisting of a written research proposal and presentation.

**NRO 295 - Independent Study, 1-4 credit hours****NRO 298X - Internship, Credit hours to be arranged**

The for-credit internship registration process is handled via the Career Center Handshake platform. To register your internship for credit, please contact Career Center at [career@bw.edu](mailto:career@bw.edu).

**NRO 310 - Neural Circuits and Systems, 3 credit hours****Prerequisite(s):** NRO 210, NRO 280, and ENG 131

A writing-intensive workshop course for upper-level students focused on the structure and function of neural circuits. Students will be introduced to best practices of professional scientific correspondence, including technical prose, peer review, data visualization, and oral presentations in the context of neural systems.

**NRO 320 - Behavioral Neuroscience, 4 credit hours****Prerequisite(s):** PSY 100, CHM 112/115, BIO 122, NRO 210, NRO 280

This advanced course will expand upon a foundation in neuroscience by providing in-depth information on the interaction of the nervous system and the environment in physiological regulation, perception, emotion, learning, cognition, and other behavior through the critical discussion of empirical articles as well as content-based lecture & discussion. An additional laboratory component will provide an opportunity for exposure to and training in basic behavioral neuroscience laboratory skills and the execution of research in behavioral neuroscience.

**NRO 330 - Neurophysiology, 4 credit hours****Prerequisite(s):** PSY 100, CHM 112/115, BIO 122, NRO 210, NRO 280, and Core Math

A lecture-laboratory course that examines how neurons receive, integrate, and transmit information at a molecular level. Topics include ion channel structure and function, synaptic transmission, receptor signaling, and the molecular basis of sensory systems. Special emphasis is also placed on current scientific literature and techniques.

**NRO 340 - Laboratory in Cognitive Neuroscience, 4 credit hours****Prerequisite(s):** PSY 100, CHM 112/115, BIO 122, NRO 210, NRO 280

This combined lecture-laboratory course will engage students in the use of human neuroscience methods for examining mental processing, such as memory, attention, and language. Students in this course will complete a group-research project using electroencephalography (EEG) to investigate a cognitive neuroscience theory.

**NRO 350 - Neuropharmacology, 3 credit hours****Prerequisite(s):** NRO 210 & NRO 280

The nervous system uses a very precise system of neurochemical messengers to produce all aspects of sensation, perception, feelings, emotions, motivation, movement, and conscious experience. This course addresses the role of neurochemicals in normal brain functioning and also describe how drugs are used to treat neurological and psychological disorders. Drug abuse and toxicology are also discussed.

**NRO 395 - Independent Study, 1-4 credit hours****NRO 398X - Internship, Credit hours to be arranged**

The for-credit internship registration process is handled via the Career Center Handshake platform. To register your internship for credit, please contact Career Center at [career@bw.edu](mailto:career@bw.edu).

**NRO 459X - Faculty-Student Collaboration, Credit hours to be arranged****NRO 463 - Advanced Topics in Neuroscience, Credit hours to be arranged****Prerequisite(s):** Prerequisites dependent on topic

Advanced seminars reflecting the depth and breadth of Neuroscience are offered periodically.

**NRO 464 - Neuroscience Capstone I, 3 credit hours****Prerequisite(s):** NRO 310 and NRO 320, or NRO 330, or NRO 340

This course is the first in a series of two capstone courses necessary for the completion of the neuroscience major. Students in this course will develop the skills necessary to integrate primary scientific literature across the multiple levels of analysis in neuroscience and design effective research projects and hypothesis testing procedures to investigate interdisciplinary neuroscience research questions within the scope of a faculty-selected topic.

**NRO 465 - Neuroscience Capstone II, 1 credit hour****Prerequisite(s):** NRO 464

This course is the second in a series of two capstone courses necessary for the completion of the neuroscience major. Students in this course will develop the written and oral communication skills necessary to effectively defend their examination of interdisciplinary neuroscience research proposals within the scope of a faculty-selected topic.

**NRO 495 - Independent Study, 1-4 credit hours****NRO 498X - Internship, Credit hours to be arranged**

The for-credit internship registration process is handled via the Career Center Handshake platform. To register your internship for credit, please contact Career Center at [career@bw.edu](mailto:career@bw.edu).

## Nursing

**NUR 100 - Foundations of Nursing Practice, 3 credit hours****48-theory hours, 0-clinical hours, 0-lab hours**

This first nursing practice course provides students with the opportunity to develop the basic knowledge and skills required in the practice of nursing. The course is organized by concepts linked around three professional domains: Individual, Nursing, and Healthcare. Students will learn the nursing process, communication skills, and the fundamentals of patient assessment, nursing diagnosis and treatment, care planning, and care evaluation.

**NUR 101 - Nursing Foundations Clinical, 1 credit hours****0-theory hours, 0-lab hours, 48-clinical hours**

Students will achieve basic client care skills that are utilized or delegated by the nurse to implement the nursing process. Students will be assigned patients in the clinical setting based on the concepts covered in the current or

previous courses. Students will not be expected to provide nursing care for conditions which have not yet been covered in the coursework to that date. Clinical hours may include days, evenings, nights, weekends, and holidays. Transportation is the responsibility of the student.

**NUR 102 - Introduction to Nursing Lab, 1 credit hour**

**0-theory hours, 24-lab hours, 0-clinical hours**

Students gain competency by practicing nursing skills in a supportive and supervised environment in the nursing lab. This kinesthetic-based course links clinical and classroom. Students begin to integrate knowledge and skills into their clinical practice. Skills learned in this course include: assessment techniques, communication and other basic nursing care. Students will apply concepts of quality and safety in the care of patients in the clinical setting.

**Graded:** S/U

**NUR 104 - Health Assessment, 3 credit hours**

**48-theory hours, 0-lab hours, 0-clinical hours**

This course prepares the student with a foundational knowledge of nursing health assessment, including basic health history collection, physical, mental and emotional assessment techniques, with a focus on normal and abnormal assessment findings as it relates to patient care.

**NUR 105 - Pathophysiological Concepts for Nursing Practice, 3 credit hours**

**48-theory hours, 0-lab hours, 0-clinical hours**

In this course the student will explore the steps of disease process, from etiology to treatment. Normal anatomy and physiology will be reviewed prior to exploration of abnormalities and disease processes. An overview of major degenerative, metabolic, immunologic, and infectious diseases will be presented.

**NUR 106 - Pharmacological Concepts in Nursing Practice with Lab, 3 credit hours**

**Prerequisite(s):** Core Math and admission to the TBSN nursing sequence or admission to the ABSN program.

**40-theory hours, 12-lab hours, 0-clinical hours**

This course examines pharmacological concepts and is organized according to body systems and diseases. The pathophysiologic approach places the drugs in context with how they are used therapeutically, allowing the student to integrate all relevant anatomy, physiology, pathology and pharmacology.

**NUR 110 - Health & Illness Concepts in Nursing Practice I with Lab, 4 credit hours**

**48-theory hours, 24-lab hours, 0-clinical hours**

This course combines concepts linked around three domains of Individual, Nursing and Healthcare while integrating them with knowledge from previous courses of Foundations, Health Assessment, and Pathophysiology. Exemplars of health and illness concepts based on national guidelines and standards are presented. These concepts and exemplars are carried over to skills in the corresponding nursing lab and clinical practice setting.

**NUR 112 - Theoretical Foundations of Nursing Practice, 1 credit hour**

**Prerequisite(s):** NUR 100, NUR 101, NUR 102, NUR 104, NUR 105

**16-theory hours, 0-lab hours, 0-clinical hours**

This course is designed to help nursing students apply concepts and theories to practice. Students will explore the ideas of well-known nursing theorists and relate their work to evidence-based practice and professional nursing practice.

**NUR 115X - Professional Nursing Clinical I, 2 credit hours**

**Prerequisite(s):** NUR 100, NUR 101, NUR 102, NUR 104, NUR 105

**0-theory hours, 0-lab hours, 96-clinical hours**

The beginning nursing student will integrate content from classroom learning activities and skills lab practice experiences to the clinical area. Care will be provided to selected clients across the lifespan in a variety of settings. Students will not be expected to provide nursing care for conditions not yet been covered in the coursework.

to that date. Clinical hours may include days, evenings, nights, weekends, and holidays. Transportation is the responsibility of the student.

**NUR 210 - Health & Illness Concepts in Nursing Practice II with Lab, 4 credit hours**

**Prerequisite(s):** NUR 106, NUR 110, NUR 112, NUR 115X

**48-theory hours, 24-lab hours, 0-clinical hours**

This course combines concepts linked around three domains of Individual, Nursing and Healthcare while integrating them with knowledge from previous foundational nursing courses, and concepts from NUR 110. This course introduces more complex exemplars of health and illness concepts, based on national guidelines and standards, for the intermediate learner. These concepts and exemplars are carried over to skills in the corresponding nursing lab and clinical practice setting.

**NUR 212 - Research Methods and Evidence-Based Practice in Nursing, 2 credit hours**

**Prerequisite(s):** NUR 106, NUR 110, NUR 112, NUR 115X

**32-theory hours, 0-lab hours, 0-clinical hours**

An introductory research and evidence-based practice (EBP) course focused on nursing contributions to high-quality patient care. Students gain knowledge of the research process including EBP models, literature appraisal, design, methods and basic quantitative and qualitative data interpretation. Ethical research conduct, and role of the institutional review board will be examined. Students will complete CITI training and collaborate with clinical partners to plan and investigate an EBP project.

**NUR 215 - Professional Nursing Clinical II, 2 credit hours**

**Prerequisite(s):** NUR 106, NUR 110, NUR 112, NUR 115X

**0-theory hours, 0-lab hours, 96-clinical hours**

The intermediate nursing student will integrate content from classroom learning activities and skills lab practice experiences to the clinical area. Care will be provided to assigned clients across the lifespan in a variety of settings. Students will be assigned patients in the clinical settings based on concepts covered in the current or previous courses. Students will not be expected to provide nursing care for conditions not yet been covered in the coursework to that date. Clinical hours may include days, evenings, nights, weekends, and holidays. Transportation is the responsibility of the student.

**NUR 220 - Behavioral Health Concepts, 2 credit hours**

**Prerequisite(s):** NUR 106, NUR 110, NUR 112, NUR 115X

**Corequisite(s):** NUR 225

**32-theory hours, 0-lab hours, 0-clinical hours**

This course focuses on concepts integral to behavioral health care of adults in acute care settings as well as application of these concepts in other health care and community settings. Students will learn about individuals with alterations in psychosocial adaptation and therapeutic approaches in psychiatric nursing care with the goal of understanding the mental health care needs of individuals of diverse compositions. Emphasis is on the role of the professional nurse in the promotion of mental health and care of individuals with mental health disorders. Standards and policies influencing access to mental health care and services in all settings will be discussed.

**NUR 225 - Behavioral Health Clinical, 1 credit hour**

**Prerequisite(s):** NUR 106, NUR 110, NUR 112, NUR 115X

**Corequisite(s):** NUR 220

**0-theory hours, 0-lab hours, 48-clinical hours**

The nursing student will integrate content from NUR 220, knowledge gained in earlier coursework, and experiences from previous clinical courses to care for adults in the behavioral health setting. Clinical experiences will provide students the opportunity to gain additional knowledge and skills in therapeutic communication, motivational interviewing and to apply the nursing process in the care of clients in the behavioral health environment. Clinical hours may include days, evenings, nights, weekends, and holidays. Transportation is the responsibility of the student.

**Graded:** S/U

**NUR 310 - Health & Illness Concepts in Nursing Practice III with Lab, 4 credit hours****Prerequisite(s):** NUR 210, NUR 212, NUR 215**52-theory hours, 18-lab hours, 0-clinical hours**

This course combines concepts linked around three domains of Individual, Nursing and Healthcare while integrating them with knowledge from previous foundational nursing courses, and concepts from NUR 210. Students are introduced to more complex exemplars of health and illness concepts, based on national guidelines and standards, for the intermediate learner. These concepts and exemplars are carried over to skills in the corresponding nursing lab and clinical practice setting.

**NUR 312 - Leadership and Ethics in Professional Practice, 3 credit hours****Prerequisite(s):** NUR 106, NUR 110, NUR 112, NUR 115X**48-theory hours, 0-lab hours, 0-clinical hours**

This course emphasizes professional leadership and the standards of professional nursing practice. Students will discuss professional leadership dilemmas and explore management, legal, political and health policy concepts. Students will explore the multi-facets of ethics that result in ethical dilemmas. Presentation and discussion of the most current issues confronted by healthcare will be examined using a principle-based theoretical framework.

**NUR 315 - Professional Nursing Clinical III, 2 credit hours****Prerequisite(s):** NUR 210, NUR 212, NUR 215**0-theory hours, 0-lab hours, 96-clinical hours**

The intermediate nursing student will integrate content from classroom learning activities and skills lab practice experiences, including that gained in earlier coursework to the clinical area. Emphasis will be on the care of more complex clients and the use of evidence-based nursing research. Care will be provided to selected clients across the lifespan in a variety of settings. Students will be assigned patients in the clinical settings based on the concepts covered in the current or previous courses. Students will not be expected to provide nursing care for conditions which have not yet been covered in the coursework to that date. Clinical hours may include days, evenings, nights, weekends, and holidays. Transportation is the responsibility of the student.

**NUR 320 - Maternal/Newborn Concepts, 2 credit hours****Prerequisite(s):** NUR 210, NUR 212, NUR 215**Corequisite(s):** NUR 325**32-theory hours, 0-lab hours, 0-clinical hours**

This course focuses on the care and experiences of the healthy childbearing family as well as families with health alterations. Knowledge and skills essential for the provision of high quality, safe care of the pregnant patient, mother, and baby during the antepartum, intrapartum and postpartum as well as infants will be emphasized. The course incorporates the concepts and exemplars relevant to the care of this populations and is consistent with current evidence-based practices of the specialty. Emphasis is on the role of the professional nurse in health promotion and maintenance and wellness/illness care of the childbearing family.

**NUR 322 - Family Centered Nursing Lab, 1 credit hour****Prerequisite(s):** NUR 210, NUR 212, NUR 215**0-theory hours, 24-lab hours, 0-clinical hours**

This kinesthetic based course prepares students for the physical and emotional care of patients beginning in the antenatal period progressing through adolescence. Students will apply concepts of quality and safety in the care of patients to meet basic human needs.

**Graded:** S/U**NUR 325 - Maternal/Newborn Clinical, 1 credit hour****Prerequisite(s):** NUR 210, NUR 212, NUR 215**Corequisite(s):** NUR 320**0-theory hours, 0-lab hours, 48-clinical hours**

Students in this clinical nursing course will integrate content from classroom learning activities and skills lab practice experiences to the clinical area. Care will be provided to selected clients in the clinical area of maternal/newborn

nursing in a variety of settings. Students will be assigned patients in the clinical settings based on the concepts covered in the current or previous courses. Clinical hours may include days, evenings, nights, weekends, and holidays. Transportation is the responsibility of the student.

**Graded:** S/U

**NUR 330 - Pediatric Concepts, 2 credit hours**

**Prerequisite(s):** NUR 210, NUR 212, NUR 215

**32-theory hours, 0-lab hours, 0-clinical hours**

This course focuses on the care and experiences of the child with health alterations. Knowledge and skills essential for the provision of high quality, safe care of children is taught. The course incorporates the concepts and exemplars relevant to the care of this populations and is consistent with current evidence-based practices of the specialty.

Emphasis is on the role of the professional nurse in health promotion and maintenance and wellness/illness care of the child.

**NUR 335 - Pediatric Clinical, 1 credit hour**

**Prerequisite(s):** NUR 210, NUR 212, NUR 215

**0-theory hours, 0-lab hours, 48-clinical hours**

Students in this clinical nursing course will integrate content from classroom learning activities and skills lab practice experiences to the clinical area. Care will be provided to selected clients in the area of the pediatric population in a variety of settings. Students will be assigned patients in the clinical settings based on the concepts covered in the current or previous courses. Clinical hours may include days, evenings, nights, weekends, and holidays.

Transportation is the responsibility of the student.

**Graded:** S/U

**NUR 410 - Health & Illness Concepts in Nursing Practice IV with Lab, 4 credit hours**

**Prerequisite(s):** NUR 310, NUR 312, NUR 315

**52-theory hours, 18-lab hours, 0-clinical hours**

This course combines concepts linked around three domains of Individual, Nursing and Healthcare while integrating them with knowledge from previous foundational nursing courses, and concepts from NUR 310. This course introduces more critical exemplars of health and illness concepts, based on national guidelines and standards, for the advanced learner. These concepts and exemplars are carried over to skills in the corresponding nursing lab and clinical practice setting.

**NUR 412 - Issues and Trends in Nursing Practice, 3 credit hours**

**Prerequisite(s):** NUR 312

**48-theory hours, 0-lab hours, 0-clinical hours**

In this course, nursing students will explore and understand their professional role in the health care environment while transitioning their professional practice from a nursing student to a licensed healthcare provider. In addition to focusing on the nurses' role, issues and trends that affect healthcare and professional practice will be considered. Students will discuss how technology, interdisciplinary care, health disparities and social determinants of health affect healthcare outcomes.

**NUR 415 - Professional Nursing Clinical IV, 2 credit hours**

**Prerequisite(s):** NUR 310, NUR 312, NUR 315

**0-theory hours, 0-lab hours, 96-clinical hours**

The advanced nursing student will integrate content from classroom learning activities, skills lab practice, and prior clinical experiences. Emphasis will be on the care of complex clients, the use of evidence-based nursing research, and the professional role within the health care environment. Care will be provided to selected clients across the lifespan in a variety of settings. Students will be assigned patients in the clinical settings based on the concepts covered in the current or previous courses. Clinical hours may include days, evenings, nights, weekends, and holidays. Transportation is the responsibility of the student.

**NUR 420 - Community Health Concepts, 2 credit hours****Prerequisite(s):** NUR 310, NUR 312, NUR 315, NUR 320, NUR 325**Corequisite(s):** NUR 425**32-theory hours, 0-lab hours, 0-clinical hours**

This course builds upon the concepts covered in prior courses and prepares the student to apply them while caring for individuals in various community-based settings. Linking the three domains of Individual, Nursing and Healthcare, students will explore community systems designed to support individual and group health. Students will increase their understanding of the relationships between health maintenance and illness care and between an individual versus community foci. Standards and policies around public health will be considered. Emphasis is on the role of the professional nurse in health promotion and maintenance in the school, home, community, and global community environments.

**NUR 425 - Community Health Clinical, 1 credit hour****Prerequisite(s):** NUR 310, NUR 312, NUR 315, NUR 320, NUR 325**Corequisite(s):** NUR 420**0-theory hours, 0-lab hours, 48-clinical hours**

The nursing student will integrate content from NUR 420, knowledge gained in earlier coursework, and experiences from previous clinical courses to care of individuals and groups in the community. Emphasis will be on policy and community systems designed to support individual and group health. Clinical experiences will provide students the opportunity to care for individuals across the lifespan in a variety of community settings including health teaching with elementary, middle and high school children and wellness screenings. Clinical hours may include days, evenings, nights, weekends, and holidays. Transportation is the responsibility of the student.

**Graded:** S/U**NUR 450 - Capstone Immersion, 3 credit hours****Prerequisite(s):** NUR 310, NUR 312, NUR 315**8-theory hours, 12-lab hours, 96-clinical hours**

The student will work in a healthcare delivery setting, as a provider of patient care, under the supervision of a RN preceptor, to plan, implement, and evaluate nursing care for multiple clients. The student will synthesize, integrate, and apply knowledge, skills, and critical concepts from previous coursework throughout this real-world experience. Clinical hours may include days, evenings, nights, weekends, and holidays. Transportation is the responsibility of the student.

## Philosophy

**PHL 101 - The Examined Life, 3 credit hours**

An introduction to philosophical reflection and questioning through the examination of some of the central themes of philosophy.

**PHL 102 - Introduction to Ethics, 3 credit hours**

Classic Ethical theories such as virtue ethics, utilitarianism, and duty ethics are used to analyze current moral problems involving issues such as social justice, war, legal punishment, global issues, science and technology, and professional ethics.

**PHL 103 - Philosophy and Human Nature, 3 credit hours**

A study of theories of human nature and their capacities to improve the human condition. Among the questions this area of philosophy considers are: What is the essential nature of the human being? What should characterize human life? Is there anything more to human life than what we experience with our senses? Readings are drawn from various disciplines, cultures, and/or historical periods.



**PHL 201 - Logic and Critical Thinking, 3 credit hours**

In a society rife with misinformation good reasoning is essential for successfully navigating the infosphere and successful problem-solving. Topics studied in this course include identifying arguments and judging their validity and strength, identifying common fallacies of reasoning, use and abuse of language in persuasion, and principles of fair play in argumentation and debate. Students learn to (1) translate ordinary arguments into formalized symbolic languages (Propositional Logic & Predicate Logic), (2) test arguments for validity, and (3) perform derivations and proofs. No prior knowledge of mathematics or philosophy is required.

**PHL 205 - Topics in Ethics, 3-4 credit hours**

A detailed study of a selected topic in ethics, such as Development Ethics and International Justice, War and Terrorism, or Cross-cultural Moral Disagreement. Topics vary from semester to semester in accordance with current interests of students and faculty; therefore this course may be repeated for credit.

**PHL 207 - Topics in Philosophy, 3-4 credit hours**

An inquiry at the intermediate level into philosophical issues, problems, or applications, such as Feminist Theory, Asian Philosophy, or Philosophy of Sex and Love. Topics vary from semester to semester in accordance with current interests of students and faculty; therefore this course may be repeated for credit.

**PHL 209 - Political and Social Philosophy, 3 credit hours**

Critical evaluations of selected political and social concepts with historical and contemporary significance, including the state, law, government, power, political obligation, justice, rights, freedom, and equality. Extensive reading in original texts is required.

**Semesters Offered:** May be offered less frequently than once a year.

**PHL 211 - Classical Philosophy, 3 credit hours**

Whitehead has correctly observed that "Philosophy is but a footnote to Plato." Beginning with the Pre-Socratics and focusing on the great contributions of Socrates, Plato, and Aristotle, students will explore the Greek creation of philosophy as "the love of wisdom," and witness the birth of metaphysics, epistemology and ethics.

**Semesters Offered:** Offered biennially.

**PHL 213 - Modern Philosophy, 3 credit hours**

An exploration of the two great developments of modern philosophy: the rationalist system-builders who endeavored to place the categories of religious metaphysics on firm scientific foundations, and the empiricists who started the modern preoccupation with subjectivity and the limits of knowledge.

**Semesters Offered:** Offered biennially.

**PHL 214 - Nineteenth-century Philosophy, 3 credit hours**

An exploration of the great philosophies emerging from the rubble of the enlightenment edifice, with a focus on the human condition after the eclipse of system and sanity: Hegel, Kierkegaard, Marx, Dostoevsky, Nietzsche.

**Semesters Offered:** Offered biennially.

**PHL 215 - Existentialism, 3 credit hours**

In this course students study key figures and texts in existentialism, a philosophical and cultural movement that became dominant in mid-twentieth-century Europe and subsequently expanded across the globe. The course will explore existential themes and methods as presented in philosophical writings but also literary works and the arts, giving special attention to contributions to existential thought in American and Black American literature. We will consider how these figures, texts and themes have influenced contemporary social and political institutions, aesthetic styles and norms, and cultural preoccupation. In a given semester students will study instances of the revival of existential themes in critical explorations of a few of the following developments and pathologies: colonialism and slavery, Jim Crow, imperialism, global capitalism, totalitarianism, social media and ecological destruction.

**PHL 216 - 20th Century: Logic & Language Games, 3 credit hours**

"20th Century: Logic and Language Games" will use a game-based approach to consider the ability (or perhaps inability) of logic to capture ordinary language. With the idea that language is like a game, particularly in the influence of the 20th-century idea that "players" follow rules in order to succeed, this course will actually use games to illustrate major concepts in the field as a prelude to class discussion. Special attention will be given in these discussions to the implications of this branch of philosophy today, especially as computing technology runs up against the limits of logic in using large binary data sets to mimic human expression and the demand for genuine artificial intelligence to operate with fuzzy, more flexible logic in reading symbols more ambiguously, like we humans do in our more complex forms of expression (i.e. humor). So, amidst serious discussions of logic and language games, there will also be "pun" times discussing puns, etc. to the extent that our cup might just punneth over, hopefully appealing to gluttons for PUNishment (puns very much intended).

**PHL 249 - Philosophy of the Arts, 3 credit hours**

An examination of the problems that arise when we reflect upon the nature and basis of criticism of works of art.

**Semesters Offered:** May be offered less than once a year.

**PHL 263 - Seminar, 3 or 4 credit hours**

Varied topics of specialized interest.

**Semesters Offered:** Offered to advanced and qualified students.

**PHL 271D - Philosophy of Sexuality, 3-4 credit hours**

This course introduces students to a range of issues related to sexuality, with a particular focus on the relevance of gender to sexuality in the West. We will investigate issues such as sexual orientation, transsexuality, marriage and fidelity, pornography and prostitution, and sexual violence. Warning: this course contains some graphic materials, students must be 18 years old.

**PHL 272I - International Ethics, 3 credit hours**

An exploration of the philosophical and ethical foundations of human rights with a view to the relevance of human rights to the just war tradition and modern security challenges, cultural disagreements, and global poverty. Students examine their own ethical obligations in connection to these international issues.

**PHL 273(X) - Environmental Ethics, 3 credit hours**

An exploration of the ethical issues associated with the impact of human activity on the environment, eco-systems, and biodiversity. Course addresses broad questions such as: how should we conceive our relationship to the natural environment? Does sustainability demand a new biocentric ethic? Do non-humans (e.g. other animals, natural objects) have rights? What responsibilities do we have to future generations? Students will also explore some specific issues (e.g. energy, food production), their personal obligation to sustainable living, and the local context.

**PHL 274 - Bioethics, 3 credit hours**

Students learn influential theories in philosophical ethics and study their application to a number of controversial ethical issues emerging from new situations and possibilities brought about by advances in biology and medicine. Students engage in interdisciplinary thinking by examining ethical questions that arise in the relationships among life sciences, biotechnology, medicine, politics, law, and philosophy. Specific ethical issues include debates over the boundaries of life, allocation of scarce health-care resources, cloning, and genetic engineering.

**PHL 295 - Independent Study, 1-4 credit hours****PHL 314 - Contemporary Philosophy, 3-4 credit hours**

**Prerequisite(s):** ENG 131

A detailed investigation of the works of a significant philosopher or movement of the twentieth and twenty-first centuries. Topics vary from semester to semester in accordance with current interests of students and faculty; therefore this course may be repeated for credit.

**PHL 371 - Advanced Topics, 3-4 credit hours****Prerequisite(s):** ENG 131

A detailed study of a selected topic in philosophy. Student interest will help to determine what topics will be offered. May be repeated for credit, provided that the topic is different from any for which the student has already received credit. Topics to be announced.

**Semesters Offered:** May be offered less frequently than once a year.**PHL 372 - Great Philosophers, 3-4 credit hours****Prerequisite(s):** ENG 131

A detailed investigation of the works of a significant philosopher or philosophic tradition. Student interest will help to determine what topics will be offered. May be repeated for credit, provided the topic is different from any for which the student has already received credit. Topics to be announced.

**Semesters Offered:** May be offered less frequently than once a year.**PHL 395 - Independent Study, 1-4 credit hours****PHL 459X - Faculty-Student Collaboration, Credit hours to be arranged****PHL 491 - Senior Thesis/Project, Credit hours to be arranged****PHL 492 - Senior Thesis/Project, Credit hours to be arranged****PHL 495 - Independent Study, 1-4 credit hours**

## Physician Assistant

**PAS 503 - Evidence-Based Medicine, 2 credit hours**

This course will cover an introduction to evidence-based medicine, an in depth look and review on various research methods which are used in clinical medicine and in health services research which gives students a framework on which to develop their practice of medicine. Students will apply what they have learned in this course and apply their knowledge to the culminating review paper at the end of the program.

**PAS 507 - Leadership in Healthcare, 1 credit hour**

The leadership course is one semester in length and will give students the foundation to become competent physician assistants and leaders in the field. The course content will give students the tools to become an effective leader in their practice while adhering to NCCPA guidelines as well as federal and state laws regarding physician assistant practice.

**PAS 510 - Clinical Anatomy, 6 credit hours**

This 14-week gross anatomy course is a detailed study of the structures of the human body, consisting of both lecture and laboratory sections. The lecture portion deals with descriptions and explanations of body structures, while in the laboratory, the student participates in the practical examination of prosected human cadavers and removed specimens, and the regional dissection of a human cadaver.

**PAS 511 - Pathophysiologic Foundations of Medicine, 4 credit hours**

Pathophysiologic Foundations of Medicine focuses on pathophysiology of various body systems with an introduction to clinical medicine. The core basic science areas which are included in the course are: physiology/ pathophysiology, genetics, microbiology, immunology, biochemistry, nutrition, and pathology. The design of the curriculum is such that students will continually learn and build on concepts from each course as well as learn by integrating concurrent coursework during the semester.

**PAS 512 - History Taking and Medical Documentation, 3 credit hours**

Beginning in the summer semester, PA students will learn fundamental patient communication skills and will be able to elicit an accurate and comprehensive history on patients from a variety of backgrounds. Students will learn how to communicate with different patient populations as well as learn subtleties in medical history taking. Students will learn how to effectively document in a medical record for adult and pediatric populations in the outpatient and inpatient settings. Patient centered interviewing skills and clinician centered interviewing techniques will be incorporated throughout the course activities. Students will be evaluated based on standardized patient examinations, written examinations and oral presentations.

**PAS 513 - Clinical Medicine I, 7 credit hours**

Clinical Medicine is a 2 part course which spans the fall and spring semesters. Students will progress through the course learning a large variety of clinical conditions which affect each body system. Clinical medicine seminars are integrated throughout each course and are centered on problem-based learning techniques which will be used throughout the entire didactic phase of the program. Students will meet in small groups with a faculty facilitator and work through a case scenario from etiology/pathology of the disease to treatment and maintenance of the illness. Students will meet frequently throughout the semester and review topics which follow the lecture material sequence. By incorporating this educational activity, students will learn critical thinking and presentation skills as well as have an in depth clinical view of the disease process. Students will then be able to formulate a practice plan for each case and be able to rationalize their management strategies. The critical topics of discussion will emerge from the medical disciplines of: Dermatology, Hematology/ Oncology, Cardiology, Pulmonary, Endocrinology, Gastroenterology, Neurology, Orthopedics, Psychiatry, Nephrology, Urology, Geriatrics, Pediatrics, Obstetrics and Gynecology, and General Surgery.

This type of instruction enhances the student learning and promotes the knowledge and development of cooperative and self-directed learning skills, interpersonal skills, patient-care skills, and professional behavior.

**PAS 514 - Physical Exam Techniques, 3 credit hours**

During this course, students will learn the fundamentals of physical exam and be able to perform a more structured physical examination with the ability to link diagnostic testing to the exam findings as well as development of a differential diagnosis and treatment plan. During this course, students will be instructed through lecture and through the physical examination lab component. While in the lab, students will have hands on approach to specific physical exam techniques which are appropriate for each body system.

Emphasis will be placed on developing and demonstrating proficiency in performing an accurate physical examination on patients throughout the lifespan, age, ethnicity, and gender. Students will learn how to integrate historical information and examination methods in the assessment of patient problems. At the completion of this course, students will demonstrate the ability to perform a complete physical examination on any patient and document both normal and abnormal findings in the patient record. Patient centered communication skills will be incorporated throughout the course activities. Evaluation is performance based and includes standardized patient examination. Fund of knowledge will be evaluated through written examinations and case scenarios.

**PAS 515 - Clinical Medicine II, 7 credit hours**

Clinical Medicine is a 2 part course which spans the fall and spring semesters. Students will progress through the course learning a large variety of clinical conditions which affect each body system. Clinical medicine seminars are integrated throughout each course and are centered on problem-based learning techniques which will be used throughout the entire didactic phase of the program. Students will meet in small groups with a faculty facilitator and work through a case scenario from etiology/pathology of the disease to treatment and maintenance of the illness. Students will frequently meet throughout the semester and review topics which follow the lecture material sequence. By incorporating this educational activity, students will learn critical thinking and presentation skills as well as have an in depth clinical view of the disease process. Students will then be able to formulate a practice plan for each case and be able to rationalize their management strategies. The critical topics of discussion will emerge from the medical disciplines of: Dermatology, Hematology/ Oncology, Cardiology, Pulmonary, Endocrinology, Gastroenterology, Neurology, Orthopedics, Psychiatry, Nephrology, Urology, Geriatrics, Pediatrics, Obstetrics and Gynecology, and General Surgery.

This type of instruction enhances the student learning and promotes the knowledge and development of cooperative and self-directed learning skills, interpersonal skills, patient-care skills, and professional behavior.

**PAS 516 - Procedural Skills and Special Populations, 3 credit hours**

During this course, students will learn exam techniques for special populations (pediatrics & pregnancy) as well as lectures on various procedural skills which are essential to PA practice. Students will also rotate through the clinical skills/ simulation lab where they will learn invasive techniques such as IV access, central line placement, chest tube placement, medication administration (IM, IV), basic suture technique, incision and drainage, lumbar puncture, identification and use of surgical instruments, donning surgical attire, and concepts of examining special populations. Also the concept of inter-professional education will be introduced through various lecture and lab based activities. Upon completion of this course, students will have working knowledge regarding common procedural skills to further enhance their clinical decision making. Fundamental procedural competencies relevant to PA practice will be emphasized in lecture and in the skills lab, while other specialized interventions will be introduced from a cognitive point of view.

**PAS 521 - Laboratory and Diagnostic Testing I, 3 credit hours**

This is a 2-part course which teaches PA students the fundamentals of diagnostic testing with application to clinical practice. The first course begins with basic and most common hematological and chemistry testing and then progresses on to microbiological testing and various imaging modalities (system based) as well as electrocardiography. The application of various tests and development of a differential diagnosis and diagnostic algorithms is discussed in detail.

**PAS 522 - Laboratory and Diagnostic Testing II, 3 credit hours**

This is a 2-part course which teaches PA students the fundamentals of diagnostic testing with application to clinical practice. The first course begins with basic and most common hematological and chemistry testing and then progresses on to microbiological testing and various imaging modalities (system based) as well as electrocardiography. The application of various tests and development of a differential diagnosis and diagnostic algorithms is discussed in detail.

**PAS 523 - Psychiatry and Emergency Medicine, 5 credit hours**

This course will provide an overview of potentially life-threatening illness and injury encountered in emergent situations or in the critically ill patient. In addition, this course will discuss the essentials of assessment and management for the initial evaluation, stabilization, assessment, management and treatment, patient education, disposition and follow-up of an acutely ill patient requiring expeditious medical, surgical, or psychiatric attention. Also, Instruction focused on the detection and application of preventive measures and treatment of health risk behaviors including stress, abuse and violence, substance abuse and psychological symptoms and syndromes through basic counseling, patient education and/or appropriate referrals that are sensitive to culture and ethnicity. Introduction to strategies to identify and ease patient reaction to illness and end of life issues and application of those strategies to overcome resistance, encourage therapeutic cooperation, and assist in changing patient risky behaviors. Cultural diversity and its relationship to health, disease, and death will be addressed. Other topics include sexuality and health.

**PAS 531 - Pharmacology I, 4 credit hours**

The 3-part pharmacology course educates students on the fundamentals of drug classifications, pharmacodynamics actions, and the rationale for therapeutic use of prescription and nonprescription medications. In addition, students will be able to describe the potential advantages and disadvantages of specific therapeutic regimens, universal indications and contraindications for usage, dosing schedules, and the relative cost of commonly prescribed medications. Common errors involving prescription writing will be discussed and practical exercises will require students to accurately write prescriptions and treatment orders.

This course will review the mechanism(s) of action, toxicities and interactions of some specific drugs and drug classes, as well as provide the students with an introduction to clinical therapeutics. Clinical therapeutics incorporates the physiologic basis and clinical characteristics of disease states relative to pharmacologic therapy. Disease states

that will be targeted are: dermatology, hematology, endocrinology, HIV, hepatitis, pancreatitis, obstructive pulmonary disease and gastrointestinal.

**PAS 532 - Pharmacology II, 4 credit hours**

The 3-part pharmacology course educates students on the fundamentals of drug classifications, pharmacodynamics actions, and the rationale for therapeutic use of prescription and nonprescription medications. In addition, students will be able to describe the potential advantages and disadvantages of specific therapeutic regimens, universal indications and contraindications for usage, dosing schedules, and the relative cost of commonly prescribed medications. Common errors involving prescription writing will be discussed and practical exercises will require students to accurately write prescriptions and treatment orders.

This course will review the mechanism(s) of action, toxicities and interactions of some specific drugs and drug classes, as well as provide the students with an introduction to clinical therapeutics. Clinical therapeutics incorporates the physiologic basis and clinical characteristics of disease states relative to pharmacologic therapy. Disease states that will be targeted are: dermatology, hematology, endocrinology, HIV, hepatitis, pancreatitis, obstructive pulmonary disease and gastrointestinal.

**PAS 533 - Pharmacology III, 4 credit hours**

The 3-part pharmacology course educates students on the fundamentals of drug classifications, pharmacodynamics actions, and the rationale for therapeutic use of prescription and nonprescription medications. In addition, students will be able to describe the potential advantages and disadvantages of specific therapeutic regimens, universal indications and contraindications for usage, dosing schedules, and the relative cost of commonly prescribed medications. Common errors involving prescription writing will be discussed and practical exercises will require students to accurately write prescriptions and treatment orders.

This course will review the mechanism(s) of action, toxicities and interactions of some specific drugs and drug classes, as well as provide the students with an introduction to clinical therapeutics. Clinical therapeutics incorporates the physiologic basis and clinical characteristics of disease states relative to pharmacologic therapy. Disease states that will be targeted are: dermatology, hematology, endocrinology, HIV, hepatitis, pancreatitis, obstructive pulmonary disease and gastrointestinal.

**PAS 541 - Physician Assistant Profession, 1 credit hour**

This course introduces the PA student to the physician assistant profession and discusses various practice related topics which are critical for the practice of medicine. The course will discuss professional practice issues such as: reimbursement, licensing, credentialing, patient safety, and risk management.

**PAS 542 - Biomedical Ethics, 2 credit hours**

This course will discuss various aspects of medical ethics and decision making and how these concepts relate to physician assistant practice. Students will research cases representing bioethical issues and apply the principles of ethics as appropriate to participating in student led discussions. The course will foster professional development and expose students presenting medical cases.

**PAS 543 - Public Health and Policy Systems, 2 credit hours**

This course will discuss health policy in the U.S as it pertains to physician assistant practice, health care reform, and public health policy and workforce. The students will gain an in depth view of physician assistant practice which will help prepare them for a career as a clinician and a leader in their field.

**PAS 591 - Clinical Preparations, 4 total credit hours**

(Semester IV- 2 credit hours, Semester V- 1 credit hour, Semester VI- 1 credit hour)

This course is given in multiple modules over the course of the clinical year with the first installment just prior to starting clinical rotations. Students will be offered opportunities to enhance their clinical reasoning skills and the opportunity to refine various procedural techniques. Students will be presented with case scenarios that will allow them to perfect their history taking and physical exam skills as well as their oral presentation skills. Students will also be instructed on professional issues related to clinical rotations and practice. This course will provide significant review of knowledge obtained during the didactic year in order to prepare them for the clinical phase. Perioperative

patient management will also be discussed in depth. The course will end with a Final OSCE and written summative exam.

**PAS 600 - Masters Seminar, 2 credit hours**

This is a 2-part course which allows students to formulate a research question by applying what was learned in the previous EBM course modules. In the first part of the course, the students will work with faculty advisors to refine their research question and begin a preliminary literature review. During the second part of the course, students will actively analyze the literature and formally write about a topic of interest based on the researched material. The goal of this exercise is for students to write a paper of publishable quality as well as incorporate their evidence based knowledge into practice. Students will hand in the final paper prior to graduation, after the completion of all clinical rotations.

**PAS 601 - Rotation #1, 3 credit hours**

See PAS 601-611 description.

**PAS 601-611 - Clinical Rotations, 3 credit hours each**

Clinical Rotations include the following: Family Medicine, Surgery, Emergency Medicine, OB/GYN, Pediatrics, Psychiatry, Internal Medicine I, Internal Medicine II, Mandatory Elective Rotation I, Mandatory Elective Rotation II, Mandatory Elective Rotation III.

**Family Medicine**, 3 credit hours: A 4-week rotation in a family medicine environment to expose physician assistant students to primary care practice and to introduce the role of the physician assistant when working with the primary care physician. This rotation will encompass a total of 160 hours of total patient care time.

**Surgery**, 3 credit hours: A 4-week rotation in a general surgery environment to expose physician assistant students to general surgical principles, including pre-operative, intra-operative, and post-operative patient care and to introduce the role of the physician assistant when working with the general or sub-specialty surgeon. This rotation will encompass a total of 160 hours of total patient care time.

**Emergency Medicine**, 3 credit hours: A 4-week rotation in an emergency medicine facility to expose physician assistant students to emergency medicine/ acute care practice and to introduce the role of the physician assistant when working with the emergency physician. Learned skills will include those necessary for appropriate triage, stabilization, diagnosis and management of patients with traumatic injuries and illnesses as well as the management of less life-threatening problems that present to the emergency department. Physician Assistant students will develop skills in working with the prehospital emergency medical team and secondary referral systems. This rotation will encompass a total of 160 hours of total patient care time.

**OB/GYN**, 3 credit hours: A 4-week rotation in a women's health/OBGYN environment to expose physician assistant students to women's health with treatment of the prenatal and gynecology patient. This rotation will introduce the role of the physician assistant when working with the obstetrician/gynecologist. This rotation will encompass a total of 160 hours of total patient care time.

**Pediatrics**, 3 credit hours: A 4-week rotation in a pediatric medicine environment to expose physician assistant students to pediatric and adolescent medicine and to introduce the role of the physician assistant when working with the pediatrician. This will encompass well-child care, common pediatric illnesses and care of the newborn through adolescent populations. This rotation will encompass a total of 160 hours of total patient care time.

**Psychiatry**, 3 credit hours: A 4-week rotation in psychiatry will expose physician assistant students to psychiatric and behavioral medicine and to introduce the role of the physician assistant when working with the psychiatrist. This will encompass psychiatric evaluations and medication/clinical management of psychiatric patients. This rotation will encompass a total of 160 hours of total patient care time.

**Internal Medicine I and II**, 3 credits hours each: Both 4-week rotations in general internal medicine will expose physician assistant students to internal medicine and various related specialties. These rotations will allow the physician assistant student to work alongside an internist/hospitalist and gain valuable patient care experience. These rotations will encompass a total of 320 hours of total patient care time.

**Mandatory Elective Rotation I, II and III**, 3 credit hours each: Each 4-week rotation is chosen from all of the medical specialties and subspecialties. Each student will take three rotation electives during the clinical year.

**PAS 602 - Rotation #2, 3 credit hours**

See PAS 601-611 description.

**PAS 603 - Rotation #3, 3 credit hours**

See PAS 601-611 description.

**PAS 604 - Rotation #4, 3 credit hours**

See PAS 601-611 description.

**PAS 605 - Rotation #5, 3 credit hours**

See PAS 601-611 description.

**PAS 606 - Rotation #6, 3 credit hours**

See PAS 601-611 description.

**PAS 607 - Rotation #7, 3 credit hours**

See PAS 601-611 description.

**PAS 608 - Rotation #8, 3 credit hours**

See PAS 601-611 description.

**PAS 609 - Rotation #9, 3 credit hours**

See PAS 601-611 description.

**PAS 610 - Rotation #10, 3 credit hours**

See PAS 601-611 description.

**PAS 611 - Rotation #11, 3 credit hours**

See PAS 601-611 description.

## Physics

**PHY 102 - Topics in Physics, 3 credit hours**

**Prerequisite(s):** Topics approved for Quantitative Extension require core math.

Topics in Physics is a collection of introductory lecture courses in various areas and are primarily intended for students not majoring in science. All of the topics presuppose only a knowledge of high school mathematics and general science. All of the topics courses typically include the interdisciplinary links between the sciences, social sciences and humanities. PHY 102 may be repeated for credit if different topics are taken. The topics below are currently being offered on a regular basis.

- **Science Through the Ages**

A historical guide to science, scientists, which begins with the Greek roots of modern science and then traces in more detail the evolution of science during the past few centuries from an obscure esoteric activity to the professionalized, the industrialized, and democratic version of science we have today.

- **Physics of the 20th Century**

A survey of the important physics that came about over the last century. The class will examine the theoretical successes, such as quantum theory and relativity, as well as some of the important technological developments such as solid state electronics and lasers.

*No lab.*



**PHY 102H - Quantitative Problem Solving- Honors, 3 credit hours**

**Notes:** Must be a Honors student or have sophomore or higher standing with at least a 3.5 cumulative GPA.

**Prerequisite(s):** Core Math

**PHY 103 - Sci & Hist on Development of Nuclear Weapons in WWII, 3 credit hours**

This course contains two distinct halves. The first half covers humanity's search for the ultimate building blocks of the universe, in short, the story of the atom. The second half covers the development of the nuclear bomb during World War II and the associated physics. In other words, the first half of the course teaches the fundamental physics needed to understand the bomb and the second half covers its actual development from a more historical perspective. PHY-103 is intended for students not majoring in science and presupposes only a knowledge of high school mathematics and general science. Because of the nature of the subject material covered, the course is also recommended for interested physics majors on either an audit or credit basis.

**PHY 104 - General Problem Solving Techniques, 3 credit hours**

**Prerequisite(s):** Core Math

In his book, *The Road Ahead*, Bill Gates wrote, "More than ever, an education that emphasizes general problem solving skills will be important." The entire purpose of this course is to develop the students' general problem solving ability. Students will work both individually and in teams to solve some of the most fun and challenging problems concocted by the human brain. The topics from which the problems were chosen include; operations research, geometry, probability, risk management, physics, pattern recognition and logic. The only prerequisites for the course are a solid foundation in algebra and the desire for an intellectual challenge.

**PHY 104H - General Problem Solving Techniques- Honors, 3 credit hours**

**Notes:** Must be a Honors student or have sophomore or higher standing with at least a 3.5 cumulative GPA.

**Prerequisite(s):** Core Math

In his book, *The Road Ahead*, Bill Gates wrote, "More than ever, an education that emphasizes general problem solving skills will be important." The entire purpose of this course is to develop the students' general problem solving ability. Students will work both individually and in teams to solve some of the most fun and challenging problems concocted by the human brain. The topics from which the problems were chosen include; operations research, geometry, probability, risk management, physics, pattern recognition and logic. The only prerequisites for the course are a solid foundation in algebra and the desire for an intellectual challenge.

**PHY 105 - Physics in Everyday Life, 4 credit hours**

A lecture-laboratory course in which physics principles underlying many phenomena encountered in daily life are studied. The course assumes no prior background in mathematics or physics other than the normal University entrance requirements. Topics are studied through a combination of lectures, demonstrations, and laboratories, which include "envelope experiments" that can be completed at home.

*Lab included.*

**Semesters Offered:** Offered primarily for Evening/Weekend Students; day students only with special permission.

**PHY 106 - Light, Color, Vision, 4 credit hours**

A lecture-laboratory course investigating optical phenomena found in nature, photography, color vision and holography. The topics are studied in a way that is meaningful for those whose interests are in a variety of fields other than science: art, psychology, photography, etc. The course assumes no prior background in mathematics or physics other than the normal University entrance requirements. Emphasis is placed on the optical phenomena seen in everyday life. Light, color, and vision are studied through a combination of lectures, demonstrations, and laboratories, which include "envelope experiments" that can be completed at home.

*Lab included.*

**Semesters Offered:** Offered primarily for Evening/Weekend Students; day students only with special permission.

**PHY 107 - Space From the Ground Up, 3 credit hours**

A lecture-laboratory course intended to provide an insight into space propulsion, space power, space exploration, living in space, and future space ventures through the eyes of physicists, but in a way that would be meaningful for those whose interests are in a variety of other fields: art, psychology, photography, business, law, etc. The course assumes no prior background in mathematics or physics other than the normal University entrance requirements. Emphasis is placed on understanding the fundamental scientific principles and their application to space projects. Space related topics are studied through a combination of lectures, demonstrations and laboratories, which include "envelope experiments" which can be completed at home.

*Lab included.*

**Semesters Offered:** Offered primarily for Evening/Weekend Students; day students only with special permission.

**PHY 110 - Physics of Music, 3 credit hours**

Physics of oscillations and waves; acoustics of tubes, strings, vibrating bodies, and rooms; psychophysics or perception of sound; and, their application to musical sounds, musical instruments, musical performance, and musical cognition. Computer-based tools are used for recording, analysis and synthesis of musical sounds.

**PHY 111 - Physics for Presidents, 3 credit hours**

**Prerequisite(s):** ENG 131

An online course that investigates the physical principles underlying critical issues in modern society. The nature of scientific inquiry and the goals and limitations of science are considered in light of the problems facing the world and their proposed technological solutions. Course involves considerable writing, and regular access to BlackBoard is required.

**PHY 112 - Energy and the Future, 3 credit hours**

Energy and The Future provides the technology foundation necessary for an understanding of issues and policies relating to energy sustainability. The course describes the various technologies behind energy production and the environmental, political, and social consequences of each. It explores historical and current usage trends with an emphasis on the implications of exploding energy requirements in the third world. It also engages issues such as economic, climatic, and national security implications of energy choices. In addition to lecture, the course requires students to research and present a relevant topic of their choice.

**PHY 113 - Physics of Weather, 3 credit hours**

An introduction survey course investigating the underlying physics of the Earth's climate. The course will investigate topics such as the short-term climate changes from the interaction of energy flow between the oceans, atmosphere, and land masses; solar radiation; weather fronts; cloud formation; condensation and precipitation; atmospheric electricity and lightning; and various storm phenomena.

**PHY 131 - Physics for Scientists and Engineers I, 4 credit hours**

**Prerequisite(s):** Four years of high school mathematics, including trigonometry, or MTH 140.

**Corequisite(s):** Except by permission of the instructor, PHY 151 is to be taken concurrently with PHY 131 and PHY 152 to be taken concurrently with PHY 132.

A two-semester sequence covering the standard physics topics expected for a major in physics, chemistry, pre-med, or pre-engineering. Concepts are presented primarily in lecture demonstration form, but in a sufficiently small class setting that allows for student questions. The course emphasizes qualitative and quantitative problem solving skills. PHY 131 emphasizes mechanics and heat while PHY 132 delves into electricity, magnetism, light, and optics. Students may not take both PHY 131 and PHY 145 or both PHY 132 and PHY 146 for credit.

**PHY 132 - Physics for Scientists and Engineers II, 4 credit hours**

**Prerequisite(s):** Four years of high school mathematics, including trigonometry, or MTH 140 .

**Corequisite(s):** Except by permission of the instructor, PHY 151 is to be taken concurrently with PHY 131 and PHY 152 to be taken concurrently with PHY 132.

A two-semester sequence covering the standard physics topics expected for a major in physics, chemistry, pre-med, or pre-engineering. Concepts are presented primarily in lecture demonstration form, but in a sufficiently small class setting that allows for student questions. The course emphasizes qualitative and quantitative problem solving skills. PHY 131 emphasizes mechanics and heat while PHY 132 delves into electricity, magnetism, light, and optics. Students may not take both PHY 131 and PHY 145 or both PHY 132 and PHY 146 for credit.

#### **PHY 145 - Applied College Physics I, 5 credit hours**

**Prerequisite(s):** The student is assumed to have had high school mathematics through algebra and pre-calculus.

**Corequisite(s):** High school physics and a familiarity with calculus are highly recommended or calculus can be taken concurrently.

A two-semester sequence covering most of the standard introductory physics topics needed for a science major or for those needing a lab science. Applied College Physics is presented primarily in a laboratory setting. Rather than lectures and demonstrations, almost all concept development is achieved by hands-on activities and many mini-investigations with an emphasis on student inquiry, peer interaction, and small group activities. Applied College Physics' slower rate of concept development results in the coverage of somewhat fewer topics, but in more depth and with more applications than does General Physics. The first semester emphasizes mechanics and heat while the second semester explores electricity, magnetism, light, and optics. Students may not take both PHY 131 and 145 or both PHY 132 and PHY 146 for credit. Applied College Physics students are expected to schedule an additional hour in the lab each week so that the actual in-class time is the same as the General Physics and Introductory Physics Lab combination.

#### **PHY 146 - Applied College Physics II, 5 credit hours**

**Prerequisite(s):** The student is assumed to have had high school mathematics through algebra and pre-calculus.

**Corequisite(s):** High school physics and a familiarity with calculus are highly recommended or calculus can be taken concurrently.

A two-semester sequence covering most of the standard introductory physics topics needed for a science major or for those needing a lab science. Applied College Physics is presented primarily in a laboratory setting. Rather than lectures and demonstrations, almost all concept development is achieved by hands-on activities and many mini-investigations with an emphasis on student inquiry, peer interaction, and small group activities. Applied College Physics' slower rate of concept development results in the coverage of somewhat fewer topics, but in more depth and with more applications than does General Physics. The first semester emphasizes mechanics and heat while the second semester explores electricity, magnetism, light, and optics. Students may not take both PHY 131 and PHY 145 or both PHY 132 and 146 for credit. Applied College Physics students are expected to schedule an additional hour in the lab each week so that the actual in-class time is the same as the General Physics and Introductory Physics Lab combination.

#### **PHY 150 - Physical Science Investigations, 3 credit hours**

**Prerequisite(s):** EDU 101X

This physics course is designed for teachers in the upper elementary and middle school to improve the learning and teaching of basic physics concepts, and is intended as a complement to CHM 150. Students will spend considerable time in the laboratory completing investigations that, in addition to exposing and clarifying basic physics concepts, can be used for effectively teaching students about physics. Ohio state science standards will be used as a guide for determining specific items of study. Topics covered include: sound, light and color, electricity, magnetism, properties of matter, the atom, force and motion, simple machines, force and fluids, and measurement.

#### **PHY 151 - Introductory Physics Lab I, 1 credit hour**

**Corequisite(s):** Except by permission of the instructor, PHY 151 is to be taken concurrently with PHY 131 and PHY 152 to be taken concurrently with PHY 132. Laboratory to accompany General Physics I and II (PHY 131, PHY 132). Experiments designed to investigate and reinforce the ideas and concepts developed in General Physics. Employing recent computer technology to gather and graphically analyze data, PHY 151 emphasizes experiments in mechanics (motion, force, energy, etc.) and heat (temperature, heat capacity, latent heat, etc.). PHY 152 first focuses on mechanical oscillations, static electricity, DC circuits, Ohm's law, frequency-dependent AC circuits, and magnetic effects. Students gain some experience with "bread-boarding" circuits, and the use of modern digital multi-meters and

CRT oscilloscopes. The last part of PHY 152 concentrates on the basic properties of light with experiments in reflection, refraction, simple optical systems, and interference.

**PHY 152 - Introductory Physics Lab II, 1 credit hour**

**Corequisite(s):** Except by permission of the instructor, PHY 151 is to be taken concurrently with PHY 131 and PHY 152 to be taken concurrently with PHY 132. Laboratory to accompany General Physics I and II (PHY 131, PHY 132). Experiments designed to investigate and reinforce the ideas and concepts developed in General Physics. Employing recent computer technology to gather and graphically analyze data, PHY 151 emphasizes experiments in mechanics (motion, force, energy, etc.) and heat (temperature, heat capacity, latent heat, etc.). PHY 152 first focuses on mechanical oscillations, static electricity, DC circuits, Ohm's law, frequency-dependent AC circuits, and magnetic effects. Students gain some experience with "bread-boarding" circuits, and the use of modern digital multi-meters and CRT oscilloscopes. The last part of PHY 152 concentrates on the basic properties of light with experiments in reflection, refraction, simple optical systems, and interference.

**PHY 200 - Science, 1-4 credit hours**

A study of a topic in science which may involve an interdisciplinary approach. Course content is determined by the department under whose auspices the course is offered.

**Semesters Offered:** PHY 200 is not offered on a regular basis.

**PHY 233 - Modern Physics, 4 credit hours**

**Prerequisite(s):** The student is assumed to have taken General Physics, Applied College Physics, or the equivalent and to have completed or be taking introductory calculus.

A one-semester introduction to the developments in physics since about 1900. Topics such as special relativity, the Bohr atom, atomic and molecular physics, nuclear processes and the important experiments leading to the modern quantum theory are studied in detail. In addition to important course material, Modern Physics begins the development of the applied math skills needed by the professional scientist. PHY 233 is required for a physics minor, for all physics, pre-engineering majors, and some science teaching licensure. Modern Physics should be taken as soon as possible after completing General Physics or Applied College Physics

**Semesters Offered:** PHY 233 is normally offered every Fall semester.

**PHY 260 - Engineering Materials, 2 credit hours**

**Prerequisite(s):** one year of introductory physics and chemistry or instructor's permission

A lecture course studying the most important materials of practical interest to engineers and manufacturers. Special consideration will be given to the different physical and chemical characteristics of and the means of manufacturing metallic, polymeric, ceramic, and composite materials. PHY 260 is taught as needed as a minimester and is especially recommended for students in the pre-engineering program.

**PHY 261 - Introduction to Statics, 2 credit hours**

**Prerequisite(s):** one year of introductory physics or instructor's permission

A lecture course concentrating on equilibrium forces and torques on extended bodies. Topics covered include stress, strain, elastic moduli, Poisson's ratio, compression, tension, sheer, bending, torsion, power, moments of inertia, bending moments, beam deflection and Mohr's circle. PHY 261 is taught as needed as a minimester and is especially recommended for students in the pre-engineering program.

**PHY 263 - Seminar, 1-4 credit hours**

Open to all students interested in physics. Reports and discussions of topics of interest in physics.

**Semesters Offered:** Not offered on a regular basis.

**PHY 295 - Independent Study, 1-4 credit hours**

**PHY 298X - Internship, Credit hours to be arranged**

The for-credit internship registration process is handled via the Career Center Handshake platform. To register your internship for credit, please contact Career Center at [career@bw.edu](mailto:career@bw.edu).

**PHY 311 - Electronic Instrumentation, 3 credit hours**

**Prerequisite(s):** PHY 131, PHY 132 or PHY 145, PHY 146, or instructor's permission

A lecture-laboratory course covering the basic principles of circuit design and analysis, use of standard modern instrumentation such as multi-meters, signal generators, and oscilloscopes. The analog part of the course moves from basic DC resistor circuits, to AC frequency filters, diodes, bipolar transistors, op-amps, and 555 oscillator circuits. The digital portion covers analog to digital conversion, boolean logic, and various digital gate and multiplexing circuits. If time permits, computer simulated analog and/or digital circuits may be studied. PHY 311 is required for all physics and pre-engineering majors, and some science teaching licensure.

**Semesters Offered:** PHY 311 is offered on an alternate year basis.

**PHY 312 - Advanced Laboratory, 3 credit hours**

**Prerequisite(s):** ENG 131; PHY 131 & PHY 132 or PHY 145 & PHY 146, or instructor's permission

A laboratory course in which independent experiments of advanced level in physics and engineering are designed, performed and analyzed by the student, acting in consultation with the instructor. Results are expected to be obtained with sufficient care and detail to make the results comparable to quality research results. Typically, an independently designed project with an oral and/or a poster presentation is expected. PHY 312 may be repeated if different experiments are carried out each time it is taken. The current advanced lab topics offered are:

**Advanced Labs**

- Optics and Holography: Review of lenses, mirrors, interference, diffraction, and their applications: Michelson and Mach-Zehnder interferometers, Reflection and transmission holography.
- Modern Physics: A lab designed primarily around the important physics experiments of the last century:  $e/m$  ratio of the electron, photo-electric effect, Franck-Hertz effect, gamma ray spectroscopy, Zeeman effect, scanning tunneling microscope, hydrogen/deuterium spectrum, semiconductors.
- Special Lab Topics: With prior permission of the instructor, experiments, projects, or research of particular interest to the student may be arranged.

**PHY 313 - Computational Physics, 3 credit hours**

**Prerequisite(s):** PHY 131 & PHY 132 or PHY 145 & PHY 146, or instructor's permission

A laboratory course helping students write their own programs to solve problems in physics by numerical methods. Results are expected to be obtained with sufficient care and detail to make the results comparable to quality research results. Typically, an independently designed project with an oral and/or a poster presentation is expected.

**PHY 331 - Physical Mechanics I, 3 credit hours**

**Prerequisite(s):** PHY 131, PHY 132 or PHY 145, PHY 146, one year of calculus, or instructor's permission

A one-semester course in classical mechanics as developed by Galileo, Kepler, Newton and their successors. The course includes a brief review of first year topics, but progresses quickly beyond the introductory level to include such topics as damped and driven oscillatory motion, velocity-dependent forces, non-cartesian coordinate systems, rigid body motion and two-body and central force motion, and, as time permits, Lagrangian mechanics.

**Semesters Offered:** PHY 331 is offered on an alternate year basis.

**PHY 341 - Mathematical Methods in the Physical Sciences, 3 credit hours**

A one-semester lecture course which explores the principles and mathematical methods underlying a wide range of topics in physics. The course will focus on solving problems efficiently with the appropriate coordinates systems and mathematical techniques. Problems will be taken from various fields of physics, such as solid state physics, nuclear physics, thermodynamics, electrodynamics, statistical mechanics, and quantum mechanics. Mathematical techniques will include those which impact most directly on physics, typically including vector analysis, calculus of functions of several variables, functions of complex variables, Fourier series, and partial differential equations such as the wave and heat equations.

**PHY 361 - Electromagnetism, 4 credit hours**

**Prerequisite(s):** PHY 131, PHY 132 or PHY 145, PHY 146, one year of calculus, or instructor's permission

A study of electrostatics and magnetostatics. Includes topics dealing with the electric field and potential, dielectric materials, multipole expansions, the magnetic field, Laplace's equation, and Maxwell's equations as time permits.

**PHY 362 - Physics of Waves, 3 credit hours**

**Prerequisite(s):** PHY 131, PHY 132 or PHY 145, PHY 146, one year of calculus, or instructor's permission

Vibrations and waves are universal phenomena that affect objects and processes from ordinary scales down to subatomic particles and up to cosmic proportions. This course studies oscillations in mechanical and electromagnetic systems. Mathematics of complex numbers, differential equations, Fourier analysis, and linear algebra are introduced as needed. The Python programming language is used to solve appropriate problems.

**PHY 371 - Thermal Physics, 4 credit hours**

**Prerequisite(s):** PHY 131, PHY 132 or PHY 145, PHY 146, one year of calculus, or instructor's permission

A one-semester lecture course investigating the basic principles and ideas of thermodynamics and statistical mechanics including entropy, enthalpy, temperature, and the thermodynamic potentials. The course explores how traditional thermodynamics is best understood by looking at its underlying statistical roots as found in the Boltzmann and Gibbs distributions. If needed, the course may include a brief review of introductory topics. The course is then expected to quickly move on to the investigation of such advanced topics as the Maxwell relations, Bose and Fermi statistics, Debye and Einstein solids, and the Clausius-Clapeyron relation. Spreadsheets are used to solve appropriate problems.

**PHY 372 - Quantum Physics, 3 credit hours**

**Prerequisite(s):** PHY 131, PHY 132 or PHY 145, PHY 146, one year of calculus, or instructor's permission

An introduction to the basic concepts and applications of quantum mechanics. Includes solutions to the Schrodinger wave equation in 1 and 3 dimensions. Potential wells, scattering, the hydrogen atom and elements of perturbation theory are among the topics normally covered.

**PHY 395 - Independent Study, 1-4 credit hours**

**PHY 398X - Internship, Credit hours to be arranged**

The for-credit internship registration process is handled via the Career Center Handshake platform. To register your internship for credit, please contact Career Center at [career@bw.edu](mailto:career@bw.edu).

**PHY 410 - Special Topics in Physics, 1-4 credit hours**

**Prerequisite(s):** Consent of the instructor required for registration.

An in-depth study of selected areas of physics not normally covered in the courses offered by the department and which may be associated with the department's general education courses.

**Semesters Offered:** Offered only if there is sufficient demand.

**PHY 459X - Faculty-Student Collaboration, Credit hours to be arranged**

**PHY 491 - Departmental Thesis/Project, Credit hours to be arranged**

**PHY 492 - Departmental Thesis/Project, Credit hours to be arranged**

**PHY 495 - Independent Study, 1-4 credit hours**

**PHY 498X - Internship, Credit hours to be arranged**

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## Political Science

### **POL 101D - U.S. Government and Politics, 3 credit hours**

Whether you are paying attention or not, politics affects your life. Debates about citizenship, equality, and the role of government are more important than ever. In this course, students will learn about the founding of the American democracy and the Constitution, civil liberties and civil rights, public opinion and the media, elections and voting, Congress, the Presidency, our courts, and how diversity and demographic changes affect all of these things. Much of the course will be spent discussing how politics impacts you and how you can participate more effectively and make the world a better place. This course is a "users guide" for your government.

### **POL 102 - Concentration in Politics, 1-3 credit hours**

A concentrated study of a particular aspect of politics, a particular ideology or issue, or a particular individual or group which has significance politically. The specific topic to be studied will be announced each semester in the course schedule by the professor teaching the section. Students may repeat the course and register for as many sections of POL 102 as they wish, as long as they do not repeat the same topic.

### **POL 131 - Democracy and Citizenship, 3 credit hours**

This course introduces students to the theory and practice of active citizenship in a democracy.

### **POL 202 - Major Policy Issues, 1-3 credit hours**

**Notes:** Recommended background: POL 101D

An introduction to the study of major policy issues facing the American system today. The issues examined include such matters as energy and the environment, national defense, elections, agricultural subsidies, health care, civil rights, budget deficits, affirmative action, and other matters of national concern.

### **POL 207 - Introduction to Law, 3 credit hours**

This course is a broad exploration of the American legal system and law. The topics covered are very similar to what students would encounter during the first year of law school: legal writing, an introduction to criminal and civil procedure, torts, contracts, business law, and constitutional law. A major part of this course is devoted to providing students with the opportunity to practice critical thinking, logical reasoning, and writing skills.

### **POL 211I - International Politics, 3 credit hours**

**Notes:** Required for all majors

A study of the major concepts in international politics and their application to the events of the postwar world, particularly the Cold War and its aftermath, the North-South split and increasing interdependence. Emphasis is on the forces which motivate states to act and the possibilities for increasing conflict or cooperation. Attention is also given to the United Nations and to various regional organizations like the European Union.

### **POL 216X - International Organizations: Case Studies, 1-3 credit hours**

**Prerequisite(s):** POL 315 or INT 200I or INT 250I

An illustration of the factors determining the behavior or potential behavior of individual nations at the United Nations. This course serves as specific preparation for Model United Nations team participants. May be repeated if countries differ.

### **POL 221I - Intro to Comparative Politics, 3 credit hours**

**Notes:** Required for all majors

A comparative examination of selected government systems illustrating the variety of political systems in the world today.

### **POL 240 - Research Design and Methods, 4 credit hours**

**Notes:** Required for all majors

A study of political science methods of research and analysis with an emphasis on how those techniques can be

applied to contemporary political issues. The course investigates the ways political scientists understand the political environment.

**POL 250 - Government & Politics in Latin America, 3 credit hours**

This course is an introduction to the study of Latin America's political development, its historical background and contemporary problems. This course counts toward the Latin American Studies Minor.

**POL 263 - Seminar in Political Science, 1-3 credit hours**

An examination of selected topics in the field of political science. May be repeated for credit, depending on the topic of the specific seminar.

**POL 295 - Independent Study, 1-4 credit hours**

**POL 298X - Internship, Credit hours to be arranged**

The for-credit internship registration process is handled via the Career Center Handshake platform. To register your internship for credit, please contact Career Center at [career@bw.edu](mailto:career@bw.edu).

**POL 301 - Congress, The Presidency, and Elections, 3 credit hours**

**Notes:** Recommended background: POL 101D

**Prerequisite(s):** ENG 131

This course is an in-depth exploration of Congress, the presidency, and how the people who hold those offices are elected. The primary theme of this course is: politics is math. If you really want to understand anything that happens in Washington, you need to know how to count, or hire someone who can. Many people argue that Washington is "broken." Are we really facing a crisis in our national political institutions? This course fulfills the Writing Extension requirement for the Core.

**POL 303 - Public Policy and Administration, 3 credit hours**

**Notes:** Recommended background: POL 131 and/or PHL 101

An exploration of the processes by which public policy develops and how public agencies function. Students learn about organizational behavior and fiscal and personnel management through study of a broad range of policy areas, including law enforcement, national security, healthcare, education, and sustainability.

**Semesters Offered:** Offered in alternate years.

**POL 304D - Urban Policy and Politics, 3 credit hours**

**Notes:** Recommended background: POL 101D

An examination of the policy problems facing American cities and suburbs, and the politics involved in addressing these issues. Attention is given to metropolitan problems as well as the relationships among governments at the local level and those at the state and national levels in the United States.

**POL 305 - Women, Politics, and Law, 3 credit hours**

**Notes:** Recommended background: POL 101D

The evolution of the political and legal status of women in the United States has not been a slow steady march of progress: this history is not linear. The status of American women is intertwined in complex ways with the history of blacks, gays and lesbians, and other marginalized groups. From multiple perspectives, we will explore how gender affects elections, how women impact policy making, and how the Supreme Court has shaped the struggle for equality.

**POL 306 - Social Media and Politics, 3 credit hours**

**Prerequisite(s):** Core Math

This course examines the impact of information technology on politics, including public opinion; campaigns and elections; social capital; political participation, information gathering and political knowledge; social movements; collective action; and security. Importantly, this course will draw on cutting-edge research in political science,



communications, sociology, and computer science to examine important political phenomena from a variety of perspectives.

**POL 307 - Constitutional Law, 3 credit hours**

**Notes:** Recommended background: POL 101D or American history

The US Constitution is the oldest written constitution on the planet, and is, in many ways, our secular religion; Americans revere it, and we have been arguing over what it means for over two centuries. This class will explore a wide variety of constitutional issues that address the powers and relationships between the legislative, executive and judicial branches, and the federal and state governments. For example, how can states legalize pot when this violates federal law? How far can the President push national security powers? How has the Supreme Court shaped "the rules of the game?" This course is highly recommended for students interested in law school.

**Semesters Offered:** Offered in alternate years.

**POL 308 - Civil Rights and Liberties, 3 credit hours**

**Notes:** Recommended background: POL 101D or American history

We take our constitutional rights for granted, but the civil rights and liberties we enjoy today have not always been recognized by the Supreme Court. In this class, from multiple perspectives, we will explore the evolution of the Bill of Rights, focusing on the 1st and 14th amendments. For example, how has the application of the equal protection clause been applied to race, sex, and sexuality? What does freedom of speech mean in the digital age? Does a large wooden cross along a public road violate the establishment clause? And what about those Christmas trees your town puts up every December? This class is highly recommended for students interested in law school or work in the criminal justice system.

**Semesters Offered:** Offered in alternate years.

**POL 310 - U.S. Political Economy, 3 credit hours**

This course addresses issues and debates in political economy in the context of U.S. public policy including, for example, inequality, welfare, markets, (un)employment, and monetary and fiscal policy.

**POL 311 - American Foreign Policy, 3 credit hours**

**Notes:** Recommended background: POL 101D or POL 2111

The course will focus on post-war American foreign policy and the changing international environment in which the U.S. finds itself. We will explore what America's foreign policy has been since 1945 with emphasis on the Cold War and its aftermath as a global phenomenon with continuing impact today. We will also survey America's position in the world and the challenges faced by the Trump administration including the changing nature of threats from potential powers like China and Russia, from a variety of non-state actors and from economic, environmental, social and technological forces in an era of globalization.

**Semesters Offered:** Offered in alternate years.

**POL 314 - Comparative Foreign Relations, 3 credit hours**

**Notes:** Recommended background: POL 2111

A study of foreign policies of various states with an emphasis on those of the major foreign powers. The course examines both the substance of policy and the process of policy formulation. Consult Course Schedule for specific countries.

**Semesters Offered:** Offered alternate years.

**POL 315 - International Organization, 3 credit hours**

**Notes:** Recommended background: POL 2111

The course will include the study of the United Nations and add indepth study and research of additional international organizations. This course is required for participation in BW Model UN Team.

**POL 321 - Democracy and Democratization, 3 credit hours**

**Notes:** Recommended background: POL 2211

This course considers the following key questions in the study of democratization: How and why have some 60%

of the countries in the world become democracies while others like China and Saudi Arabia remain authoritarian? Why do some previously democratized countries, such as Turkey and Venezuela, backslide into dictatorships? What explains the recent rise of populist forces in some long-established democracies, such as the US and the UK? We will explore the theories of democratization and autocratization that answer these questions and more.

**POL 323I - Politics of the Middle East, 3 credit hours**

This course seeks to understand the modern Middle East by examining the major political, social and economic challenges and dilemmas facing the region: authoritarianism, the oppression of women, sectarian violence, economic underdevelopment and the rise of political Islam. The aim of this course is to provide students with the historical background and theoretical tools to explore these big challenges.

**POL 326 - Special Comparative Political Studies, 2-3 credit hours**

An examination of selected topics in comparative studies, including political systems such as democracy; political processes and political problems (like political development, revolution, etc.), and/or policy studies (like energy policy in industrial states, population policies, etc.). The course may be repeated when different subject areas are covered. Consult the Course Schedule for applicable information.

**Semesters Offered:** Not offered every year.

**POL 329 - Politics and Governance in Africa, 3 credit hours**

This course will introduce students to the development of modern governments and politics in Africa, examining the influences of European imperialism, and analyzing the changing nature of challenges and opportunities facing Africa's 54 national governments. The course will include discussion of the political traditions of pre-European Africa, the influence of European imperialism, and the opportunities of a continent rich in resources and talent grappling with social needs, economic development challenges, and external pressures.

**POL 330 - History of Political Philosophy I: Ancient and Medieval, 3 credit hours**

**Notes:** Recommended background: POL 131 and/or PHL 101(I)

Students examine the ideas of selected political philosophers from ancient Greece to the 16th century. A special effort is made to connect political ideas to concrete historical and cultural developments; to understand ideas as perspectives originating from, and representing, relative vantage points of power and interest; to understand how political philosophy is gendered; and to use political ideas to help understand contemporary issues.

**Semesters Offered:** Offered in alternate years.

**POL 331 - History of Political Philosophy II: Early Modern and Modern, 3 credit hours**

**Notes:** Recommended background: POL 131 and/or PHL 101

Students examine the ideas of selected political philosophers from the 16th century to the present. A special effort is made to connect political ideas to concrete historical and cultural developments; to understand ideas as perspectives originating from, and representing, relative vantage points of power and interest; to understand how political philosophy is gendered; and to use political ideas to help understand contemporary issues.

**Semesters Offered:** Offered in alternate years.

**POL 332 - American Political Thought, 3 credit hours**

**Notes:** Recommended background: POL 131 and/or PHL 101

Students survey the history of U.S. political thought since the early 17th century as a way of helping understand U.S. political history into the present.

**Semesters Offered:** Offered in alternate years.

**POL 333D - Contemporary Political Voices at the Margins, 3 credit hours**

**Notes:** Recommended background: POL 131 and/or PHL 101

An examination of the political thought of selected contemporary thinkers who occupy the margins of American political and intellectual life. The course emphasizes diverse political thinkers whose ideas lie outside the dominant

political culture.

**Semesters Offered:** Offered in alternate years.

**POL 339 - Special Topics in Political Theory, 3 credit hours**

**Notes:** Recommended background: POL 131 and/or PHL 101(I)

An intensive examination of special topics in political philosophy. Subjects vary, and may address central political concepts such as justice, freedom, democracy, and the political thought of selected thinkers. Course can be repeated if subjects differ.

**POL 363(I) - Seminar in Political Science, 2-3 credit hours**

A junior-level seminar dealing with topics in a seminar format that are not covered elsewhere in the offerings.

**Semesters Offered:** Not offered every year.

**POL 371 - Applied Learning Seminar, 1-3 credit hours**

**Prerequisite(s):** Sophomore Standing & Approval of Professor

A guided, applied learning experience that can include collaborative research with faculty, career mentoring, and others as approved by the Department Chair.

**POL 372 - Internship Seminar, 1-3 credit hours**

**Prerequisite(s):** Sophomore Standing & Approval of Professor

A closely supervised internship experience including seminar.

**POL 390 - Preparing for Post-BW, 1 credit hour**

**Prerequisite(s):** Junior or Senior Status Political Science Majors only.

This one credit workshop will help students analyze their academic and co-curricular experiences in ways that help them develop post-graduation plans for graduate school, law school, or employment. Students who are political science majors are required to take this course when they are juniors or seniors, but are strongly encouraged to take this during the fall of their junior year.

**POL 395 - Independent Study, 1-4 credit hours**

**POL 398X - Internship, Credit hours to be arranged**

The for-credit internship registration process is handled via the Career Center Handshake platform. To register your internship for credit, please contact Career Center at [career@bw.edu](mailto:career@bw.edu).

**POL 441X - Public Interest Research, 4 credit hours**

**Prerequisite(s):** POL 240 and Core Math

Students in this course learn social science research methods by applying them on behalf of community organizations. Students conduct research that helps policy makers, community activists, leaders and citizens find solutions to current social and political problems and improve the lives of area residents.

**POL 459X - Faculty-Student Collaboration, Credit hours to be arranged**

**POL 463 - Seminar in Political Science, 2-3 credit hours**

An intensive, senior-level examination of selected topics in the field of political science.

**Semesters Offered:** Not offered every year.

**POL 491 - Departmental Thesis/project, Credit hours to be arranged**

**POL 492 - Departmental Thesis/project, Credit hours to be arranged**

**POL 495 - Independent Study, 1-4 credit hours**

**POL 498X - Internship, Credit hours to be arranged**

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## Psychology

**PSY 100 - Principles of Psychological Science, 3 credit hours**

**Notes:** This course may be taken to partially satisfy the core curriculum requirement in the social sciences. An introduction to the scientific study of behavior. Topics surveyed will include the study of brain-behavior relationships, sensation and perception, learning, memory and thinking, social and personality psychology, lifespan development, psychological disorders and psychotherapy. Additionally, this course will enhance critical thinking skills by acquainting students with fundamental research techniques and with the interpretation and evaluation of research findings.

**PSY 205 - Developmental Psychology, 3 credit hours**

**Prerequisite(s):** PSY 100.

This course may be taken to partially satisfy the core curriculum requirement in the social sciences. A course designed to help the student gain knowledge of the sequence of human development from conception and birth through infancy, childhood, adolescence, adulthood and aging. The impact of biological and interpersonal factors in the growth and maturation of the individual is considered.

**PSY 215D - Psychology of Women, 4 credit hours**

**Prerequisite(s):** PSY 100.

This major purpose of this course is the examination of the gendered experience of being female in a world that socially constructs gender. Topics include sex roles, violence against women, body image, work, parenting and development. Special attention is paid to the intersections of gender and other identities such as race, class, sexual orientation, and size, and how these experiences relate to the physical and mental health of women. Students of all genders and class levels are welcome.

**PSY 245D - Multicultural Psychology, 3-4 credit hours**

Multicultural psychology is the study of race and ethnic diversity and its impact on the field of psychology. This course will address the issue of multiculturalism as it relates to the history of psychology, research, testing and counseling specific to racial and ethnic groups in America. Students will gain an understanding of the role of culture on society as well as the therapeutic process.

**PSY 263 - Skills in Psychology, 3 credit hours**

**Prerequisite(s):** PSY 100. Must be Psychology major or minor to enroll.

This course is designed to provide students with the foundational skills and knowledge necessary for successful completion of the psychology major. The content of this course will build upon the knowledge acquired in Principles of Psychology. The fundamental skills covered in this course include scientific literacy, critical thinking, and familiarity with written and oral presentation techniques used in the field of psychology.

**PSY 263 - Special Topics Seminars, 1-4 credit hours**

**Prerequisite(s):** Prerequisites dependent on topic

Seminars reflecting the depth & breadth of Psychology are offered periodically.

**PSY 278 - Elements of Statistics, 4 credit hours**

**Prerequisite(s):** PSY 100&nbsp;or SOC 100D; & Core Math

This course is designed for behavioral science students and covers such topics as measures of central tendency, variability, tests of significance, confidence intervals, regression analysis and correlation. In addition, the students will receive an introduction to computer data analysis and advanced inferential techniques.

**PSY 279 - Laboratory in Statistical Methods, 3 credit hours**

**Prerequisite(s):** PSY 278. Must be Psychology major or minor to enroll.

This course will introduce students to PASW, a statistical software package commonly used by psychologists. Students will learn techniques important to data analysis including data entry and transformation, descriptive and inferential statistics, interpretation of results, graphical presentation of data and APA style reporting conventions.

**PSY 295 - Independent Study, 1-4 credit hours****PSY 298X - Internship, Credit hours to be arranged**

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**PSY 301 - Psychological Testing, 4 credit hours**

**Prerequisite(s):** PSY 278 or consent of the instructor A study of the field of psychological testing and assessment.

The course will focus on issues of reliability, validity, and psychometrics. Special attention will be given to the areas of intelligence, aptitude, educational, and personality testing. Ethical, legal, and judgmental issues in psychological assessment in clinical, industrial, and educational settings will be explored.

**PSY 302 - Psychological Disorders, 4 credit hours**

**Prerequisite(s):** PSY 100

A survey of the phenomena of psychopathology, including historical background, symptomatology, incidence, course and etiology of a wide array of pathologies including, to name a few, stress-related disorders, mood disorders, anxiety disorders, dissociative disorders, personality disorders and the schizophrenias. A brief review of treatment will also be presented.

**PSY 303 - Physiological Psychology, 4 credit hours**

**Prerequisite(s):** 40 credit hours, including PSY 100

This lecture course provides an overview of the physiological bases of behavior, cognition, motivation, emotion, learning and memory. Emphasis is placed on the mechanisms of brain and endocrine system functioning.

**PSY 304 - Personality Psychology, 4 credit hours**

**Prerequisite(s):** PSY 100.

This course may be taken to partially satisfy the core curriculum requirement in the social sciences. An introduction to the general subject of personality. Emphasis is on the determinants of a healthy personality in such areas as emotions, self-concept and interpersonal relations. The course consists of a review of major theories of personality and an introduction to research methods and testing.

**PSY 312D - Counseling Psychology, 4 credit hours**

**Prerequisite(s):** PSY 100

This seminar is designed to expose students to the various counseling theories, techniques, specialties, as well as assessment and ethical issues. Students will learn and implement beginning counseling techniques. Students acquire knowledge and engage in the counseling psychology supervision process.

**PSY 315 - Child Development, 4 credit hours**

**Prerequisite(s):** PSY 100 and PSY 205 or EDU 203 or EDU 205

The span of life from birth until puberty is examined with a focus on the following areas of development: genetics, prenatal, physical, perceptual, cognitive, language, emotional, social, self-concept, gender, and moral development. Also addressed will be the influence of various contexts including the family, peers, school, and society.

**PSY 316D - Child Psychopathology, 3 credit hours**

**Prerequisite(s):** PSY 205, or PSY 315, or consent of the instructor

A study of the specific psychological disorders exhibited during childhood. Emphasis is placed on childhood disorders

as normal development gone awry. Symptomatology, course, etiology and treatment will be examined for emotional and behavioral disturbances in children and adolescents.

**PSY 320 - Industrial/Organizational Psychology, 4 credit hours**

**Prerequisite(s):** PSY 100.

A study of psychological research and theory as applied to work settings. The course will emphasize industrial issues such as job analysis, job evaluation, validation, and performance appraisal and organizational issues such as corporate culture, downsizing, organizational justice, stress, leadership and motivation. Job design and ergonomics issues will also be reviewed. The course will also examine the legal and ethical context of the practice of industrial/organizational psychology.

**PSY 321 - Human Relations and Group Dynamics, 3 credit hours**

**Prerequisite(s):** PSY 100.

This course may be taken to partially satisfy the core curriculum requirement in the social sciences. A course designed to examine interpersonal relationships in small and large groups. Current theory and research is presented, along with experiential exercises. A major focus is on leadership skills and group development.

**PSY 325 - Adolescent Development, 4 credit hours**

**Prerequisite(s):** PSY 100 and either PSY 205 or Education Student

The span of life between puberty and young adulthood is examined with special attention given to such factors as previous developmental experience, cultural variables, physiological changes, cognitive development, identity formation, interpersonal relations, delinquency, substance abuse, and adolescent psychopathologies.

**PSY 326 - Applied Behavior Analysis, 3 credit hours**

**Prerequisite(s):** PSY 100 or consent of instructor.

This course covers the various methodologies used by behavior analysts to change maladaptive behaviors. Students will design and carry out a project to change some behavior(s) of their own choosing.

**PSY 327 - Psychology of Learning, 4 credit hours**

**Prerequisite(s):** 40 credit hours, including PSY 100

A study of the historical development of theories of learning, with a focus on experimental technique and results. The course emphasizes three areas: innate behaviors, classical conditioning, and operant conditioning. A lab component exposes the student to all three areas.

**PSY 328 - Cognitive Processes, 4 credit hours**

**Prerequisite(s):** 40 credit hours, including PSY 100

A study of the processes by which people receive, transform and store incoming information and retrieve stored information. Specific topics examined include perception, concept formation, levels of memory processing, the relation of cognitive and language processes, models of semantic organization and artificial intelligence.

**PSY 329 - Sensation and Perception, 4 credit hours**

**Prerequisite(s):** 40 credit hours, including PSY 100

This course provides an introduction to the study of the principles of sensation and perception. Emphasis is placed on understanding how individuals obtain information from the environment and various theories as to how that information is processed. Topics will include basic sensory physiology, psychophysics, visual perception, auditory perception, tactile perception, and the chemical senses. In addition the students will gain first hand experiences in carrying out several classical perceptual experiments and will gain research skills relevant to the field of sensation and perception.

**PSY 339 - Social Psychology, 4 credit hours**

**Prerequisite(s):** PSY 100 or consent of the instructor.

This course may be taken to partially satisfy the core curriculum requirement in the social sciences. A study of

psychological principles underlying social behavior. Problems in perception, motivation, social cognition, social interaction attitudes, values and prejudice in person/group relationships are studied.

**PSY 363 - Seminar, 1-4 credit hours**

**Prerequisite(s):** Prerequisite dependent on topic.

Advanced seminars reflecting the depth and breadth of Psychology are offered periodically.

**PSY 380 - Research Methods, 4 credit hours**

**Prerequisite(s):** ENG 131, PSY 100, and PSY 278.

This course provides an overview of research techniques and design considerations that are central to a variety of sub-disciplines within psychology (e.g., cognitive, physiological, sensation and perception, developmental, clinical, learning, social, industrial/organizational, etc.). Students are also familiarized with ethical issues involved in conducting psychological research. Students develop a proposal for a study of their own design.

**PSY 381X - Thesis in Psychology, 3 credit hours**

**Prerequisite(s):** PSY 278, PSY 279, and PSY 380. Grade of C or higher PSY 380 required.

This course entails conducting the research project that was designed in PSY 380. The student research is facilitated by discussions in class and through individual instruction each week. The student will gain hands-on research experience, analytical skills, scientific writing abilities and oral presentation skills. A grade of "C" or higher in PSY 380 is required to enroll in this course.

**PSY 395 - Independent Study, 1-4 credit hours**

**PSY 398X - Internship, Credit hours to be arranged**

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**PSY 412 - History and Systems of Psychology, 4 credit hours**

**Prerequisite(s):** PSY 279 & PSY 380 (PSY 381X recommended), Senior Status

This course covers the development of psychological thought through the ages, beginning in the pre-Socratic period. There is a heavy emphasis on critical analysis of the issues (for example, dualism, empiricism, etc.) that have faced Psychology through time. This course fosters individualized student thought. In addition to a text book, original readings from the classics are emphasized and explored.

**PSY 459X - Faculty-Student Collaboration, Credit hours to be arranged**

**PSY 463 - Seminar, 1-4 credit hours**

**Prerequisite(s):** Prerequisite dependent on topic.

Advanced seminars reflecting the depth and breadth of Psychology are offered periodically.

**PSY 464 - Practicum in Psychology, 4 credit hours**

**Prerequisite(s):** PSY-279 & Senior Status by the beginning of the semester. Must be a Psychology major.

This Capstone course is designed to integrate psychological theory and concepts with an internship experience. The overall goals are to help students become more grounded scientist-practitioners, to help students demonstrate professionalism and social responsibility, and to increase one's readiness to enter the world of work. Each student will be at an internship site for 8 hours per week during the fall semester. Students must provide their own transportation to site(s). In addition to the time spent on site, the class will meet weekly to discuss each student's internship experiences, as well as to integrate psychological content. This seminar is open to Senior Psychology Majors only.

**PSY 491 - Departmental Thesis/project, Credit hours to be arranged**

**PSY 492 - Departmental Thesis/project, Credit hours to be arranged**

**PSY 494 - Industrial and Organizational Capstone Project, 4 credit hours****Prerequisite(s):** MGT 310 or PSY 380

The capstone course will require students to apply learning from coursework in the Major to a project with an outside profit or non-profit organization. Students will learn the consultative process and develop and utilize skills in marketing ideas, influencing decision-makers, and interacting with various organizational constituencies. Students will implement business and behavioral science research knowledge and skills in order to address and solve organizational needs and problems. The capstone requires extensive oral and written communication skills in order to complete an applied and/or research project.

**PSY 495 - Independent Study, 1-4 credit hours****PSY 498X - Internship, Credit hours to be arranged**

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## Public Health

**PHT 118W - Foundations of Clinical Nutrition for Nursing & Health Professionals, 3 credit hours**

The focus of this course is on the promotion of nutritional health for Nursing and other students training to enter the field of health professions. With a focus on clinical nutrition, the principles of human nutrition at all stages of the life cycle are emphasized. Growth and development needs are incorporated into the maintenance and restoration of nutritional health and in the prevention of nutritional deficit or development of chronic disease. Assessment of nutritional status along with the social, religious, and cultural factors that affect nutrition at a population level is emphasized.

**PHT 170 - Introduction to Public Health, 3 credit hours**

This course provides a comprehensive overview of public health as well as in-depth reviews of specific topics. Beginning with a historical overview students will explore major public health issues such as polio, cholera, and yellow fever epidemics. Students will be introduced to the concepts of measuring and evaluating the health of populations, principles of communicable disease, environmental and occupational health, economics of health, and the role of public health workers in society.

**PHT 173 - Global Health, 3 credit hours**

This course provides an introduction to epidemiological, political, behavioral, sociological, cultural, and medical dimensions in the field of international health. Coverage includes problems concerning both developed and developing countries, but the emphasis is on problems confronting developing countries. Population-based public health approaches to solving international health problems will be introduced. Topics include historical perspectives, health indicators, the role of culture and behavior, communicable and non-communicable diseases, malnutrition, obesity, environmental health and population issues, the health of women and children, mental health, world health systems, and future issues in international health.

**PHT 240D - Gender, Sex, and Health, 3 credit hours****Prerequisite(s):** PHT 170 or PSY 100 or SOC 100D

The course will examine the relationship sex and gender has upon people's experience with health and health care. The class focus will be on the historical aspects of sex and gender as it relates to health and health care, and provide students with an understanding the relationship between sex and gender and people's experience with health and the health care system. The course will take a wide focus of sex and gender to allow for variation between women, men, other gender identities and expressions, and intersex issues.

**PHT 260 - Methods in Public Health Research, 3 credit hours****Prerequisite(s):** PHT 170 and MTH 108 or other statistics course

This course has been offered as special topic course for three times and we propose to include the course as a



permanent course to the curriculum. This course provides an introduction to the fundamentals of research study design and sampling methods and data collection. It serves as an introduction to quantitative, qualitative (photovoice, online focus groups, etc.), mixed method and participatory approaches (Community based participatory research) to research, as well as ethical issues in conducting community based research and evaluations. Through the mix of texts, articles from the public health literature and course work, students will build skills for conducting health research and evaluation.

**PHT 265 - Data Analysis with R, 3 credit hours**

An introduction to data management, manipulation, and analysis, with an emphasis on problem solving. Class consists of short introductions to new concepts followed by hands on computing exercises using R, but the concepts apply to programming languages and databases more generally. No background in computing is required.

**PHT 274 - Environmental Health, 3 credit hours**

This course will provide an overview of how human habits impact the environment, which, in turn, influences health. Included is a historical background about measures that have been implemented to conserve and preserve the environment as a public health effort, and information regarding laws and policy designed to prevent environmental health issues.

**PHT 275 - Infectious Disease & Epidemics, 3 credit hours**

This course is devoted to the methods required to study infectious disease and outbreak investigations. It will provide the opportunity for the student to apply basic principles of epidemiology in real-life examples and case studies such as HIV/AIDS, SARS, Lyme disease, food-borne contagions, sexually transmitted diseases, and hemorrhagic fever outbreaks.

**PHT 285 - Fundamentals of GIS, 3 credit hours**

**Prerequisite(s):** PHT 170 or permission of instructor.

This introductory course will offer an introduction to GIS and its usage in public health, disease surveillance and healthcare planning. Students will learn to use ESRI's ArcGIS for basic data management, epidemiological analysis, analysis of health behaviors, and health disparities. The students will also learn how to articulate the role of GIS in public health, describe the basic structure of spatial data, identify and use available major sources of GIS health data in locally and nationally. Lastly, students will learn how to use GIS to understand and find solutions for public health problems.

**PHT 290 - Epidemiology: Measuring Health and Disease, 3 credit hours**

**Prerequisite(s):** MTH 101 or MTH 108 or MTH 121 or equivalent Math/Stat course or instructor's permission.

Epidemiology is the basic science of disease prevention and plays major roles in the development and evaluation of public policy as well as in social, political, and legal arenas. Used together with laboratory research, it identifies environmental and genetic risk factors for disease and pathogenesis. This course provides an introduction to the field; students will learn basic principles, methods, approaches, and uses of epidemiology. Students will apply principles learned to actual public health questions.

**PHT 295 - Independent Study, 1-4 credit hours**

**PHT 310 - Introduction to Emergency Preparedness and Management, 3 credit hours**

**Prerequisite(s):** PHT 170 or SOC 100D; and Junior or Senior status.

The course will discuss emergency preparedness and management. Class will examine disasters to evaluate the effectiveness of emergency systems and examine the role governmental and nongovernmental agencies play in disaster Preparedness, Mitigation, Response, Planning and Recovery.

**PHT 330 - Spatial Epidemiology, 3 credit hours**

**Prerequisite(s):** MTH 108 and PHT 285

Knowledge of the spatial distribution of disease events (exposures and outcomes), and factors that determine where disease occurs, is a foundation of epidemiology and public health. Although disease maps have a long history of use

in public health, it is only recently that methods for analysis of spatial disease data have become widely available. This course will provide students with a framework for analyzing spatial disease data, and will illustrate the importance of such techniques in public health, geography and epidemiology. With this knowledge, students should be able to design, analyze and report their own studies. The course will focus on human and animal health-related examples. The course will focus primarily on the spatial distribution of infectious diseases, but the principles discussed apply equally well to noninfectious diseases. This course also has a lab component (8-10 labs) to help students gain hands on experience of applying these models with GIS tools. So students should be prepared to be fully engaged.

**PHT 340 - Intermediate GIS, 3 credit hours**

**Prerequisite(s):** PHT 285

This is a methodology-oriented course that concentrates mostly on application of Spatial, 3D and Network analysis in solving real-world problems in ArcGIS environment. The major portion of the class time is dedicated to GIS laboratory and course project to help students gain hands-on experience of applying GIS skills in problem solving. By completing this course, students will learn and apply the concepts of geocoding, vector analysis, terrain analysis, spatial analysis, 3D analysis, interpolation and network analysis. Students will also be exposed to the basic concepts of remote sensing, as an important source of GIS data, in theory and practice such as extracting vegetation cover from satellite images and image classification. At the end of the semester, students should feel comfortable applying the skills to new GIS problem and have a solid understanding of the procedures to conduct a GIS-based project. This course will utilize real-world datasets for student learning.

**PHT 350 - Health, Food Science, and Technology, 3 credit hours**

**Prerequisite(s):** PHT 170 or approval of the instructor

This course will discuss food science and technology as it relates to overall health, nutritional health, and food security of individuals nationally and globally. Food ingredients, quality, technology, safety, and regulation will be explored. There will be a historical review of food delivery and production practices, diets and eating patterns, food systems, and food distribution globally. Industrialization and globalization of food systems will be examined through a lens of sustainability and protection of human health.

**PHT 370 - Health Policy & Public Health, 3 credit hours**

**Prerequisite(s):** ENG 131

This course will provide students of public health with a firm foundation of the basics of American health policy and law. Given the prominent role played by policy and law in the health of all Americans, the aim of this course is to help students develop an understanding of the broad context of health policy and law, the essential policy and legal issues impacting and flowing out of the health care and public health systems, and the way health policies and laws are formulated. This course will provide an introduction to the seminal issues in U.S. health policy and law, thus providing a starting point for discussion, reflection, research, and analysis.

**PHT 373 - Special Topics in Public Health, 3 credit hours**

Special topics of interest will be presented. Examples include Military Health; Impact of Culture on Health; Principles of Human Disease; Health, Human Rights, and Displaced Persons; Issues in Women's Health, and Men's Health Across the Lifespan.

**PHT 375X - Health and Social Justice, 3 credit hours**

**Prerequisite(s):** PHT 170 or PHT 290 or any 100 level Sociology/Psychology course or instructor's permission.

Health is an asset and a resource critical to human development that benefits society as a whole. But realizing health for all members of society is a matter of social justice, which depends on reducing social and economic inequality and increasing democracy. This course will allow the student to explore many aspects of health inequalities including how health inequalities are rooted in injustices associated with racism, social class, and sex discrimination. It will provide an analysis of the politics of health inequities and show how market values often dominate over collective needs for well being. Students will examine the politics of methodology and the implications for research and public policy, and critique the ideological implications of contemporary health promotion as a model for public health. Additionally, the course will review approaches that influence the social determinants of health and develop encourage students to

develop principles for action and research. An analysis of the role of the mass media in influencing the conceptualization of public health issues will be included.

### **PHT 380 - Chronic Disease Epidemiology, 3 credit hours**

**Prerequisite(s):** PHT 170 and PHT 290; or approval of the instructor

This course covers the chronic diseases of national and global importance and their risk factors. Specifically, this course will cover the chronic diseases with a great burden on the healthcare system in the US, mainly cancers, cardiovascular diseases, respiratory diseases and mental health disorders. This course will cover the epidemiology and main determinants of each of these chronic diseases, analyze the appropriate public health interventions to address these diseases and the main study designs to investigate these diseases. Students will develop a project focusing on the main determinants of a chronic disease, analyze any disparities that contribute to these chronic diseases and examine the existing interventions to address the burden of these diseases. Students will develop better understanding of the biological and epidemiological aspects of chronic diseases and learn about public health policies to respond to these chronic diseases.

### **PHT 390 - Outbreak Investigation, 3 credit hours**

**Prerequisite(s):** PHT 290 and MTH 108; or approval of instructor

This course is an introduction to the study of infectious diseases and the investigation of the outbreaks caused by different biological and environmental agents. Students will learn about historical and contemporary infectious diseases such as airborne diseases (Spanish flu, seasonal flu, COVID-19, as examples), foodborne diseases (Salmonellosis as an example) and waterborne diseases (e.g., Cryptosporidiosis). Students will have the chance to discuss and analyze real case studies and learn the epidemiological tools to identify an outbreak and subsequent steps into the investigation of different infectious disease outbreaks. Students will use Epi Info, a free software for analyzing disease outbreaks based on dataset from previous, real life outbreaks. Students will learn the public health actions to stop the spread of outbreaks in populations and to prevent future outbreaks.

### **PHT 395 - Independent Study, 1-4 credit hours**

### **PHT 410 - GIS Models in Public Health, 3 credit hours**

**Prerequisite(s):** PHT 285 and MTH 108

This is a methodology-oriented course that focuses on designing GIS-based models to address health and health care issues. The lecture component covers a serial of topics, including: a conceptual framework, landscape epidemiology models, disease diffusion models, health accessibility, individual health behavior, and location-allocation models of health services. This course also has a lab component (10 labs) to help students gain hands-on experience of applying these models with GIS tools.

### **PHT 450S - Community Health Assessment, 3 credit hours**

**Prerequisite(s):** PHT 170 and either Junior Status, Senior Status, or Instructor permission.

The course will provide students with the understanding and experience in conducting community health assessments for the purpose of helping organizations better serve their communities. The course will discuss the theories and methods used as part of the assessment process. Students will learn to use qualitative methods (face to face interviewing, focus groups, photovoice) as tools to learn about issues important to communities. This is a service learning course and students will be expected to work with community partners in conducting a community assessment. Students will be expected to be professional when working with our community partners. The course will be a mixture of classroom activity and community work. The instructor will supervise and facilitate the process and the work students do with organizations.

### **PHT 460 - Population Health Promotion Planning and Evaluation, 3 credit hours**

**Prerequisite(s):** PHT 450S and either Junior Status, Senior Status, or Instructor permission.

This course is designed to reinforce some of the major theories, models, and conceptual frameworks that are frequently used to plan health promotion and disease prevention interventions or programs that target diverse populations. Types of evaluation (e.g., process evaluation, outcome evaluation) will be discussed and practiced. This

course will provide with a theoretical foundation for designing, implementing, and evaluating health promotion and disease prevention intervention programs, as well as interpretation of results and ethical considerations.

**PHT 475 - Capstone Seminar, 1 credit hours**

**Prerequisite(s):** Senior status

Senior seminar will provide senior public health students with guidance as they work to complete their capstone thesis/project. They will be applying their knowledge and skills in the course and capstone project to demonstrate how it fits in their own professional development.

**PHT 490 - Applied Epidemiologic Methods, 3 credit hours**

**Prerequisite(s):** PHT 290 and MTH 108; or approval of the instructor

This course is designed to provide students in the Spatial Epidemiology and Disease Mapping (AEDM) concentration an advanced knowledge on the statistical methods and study designs used in epidemiologic studies that are applied in different subspecializations; e.g., cardiovascular epidemiology, cancer epidemiology, environmental and occupational epidemiology, and infectious disease epidemiology. Students will learn about the different epidemiologic sub-specializations and the study designs commonly used in each of these sub-specializations and apply relevant statistical methods to investigate associations between exposures and outcomes in each of these subspecializations. This course will introduce students to the basic tools for establishing causality in observational studies. SAS and/or R software will be used for all statistical analysis. Students will have the chance to select a dataset from an epidemiologic study and develop analytic plan to answer specific research questions and draft a final research class project in a manuscript format similar to journal article. This course combines hands-on data analysis skills and classic learning framework using lectures, guest speakers and readings to prepare students for working as entry-level epidemiologists equipped with the necessary knowledge and skills to investigate health-related issues in different academic, clinical and community settings. Students will be also able to develop a research proposal that outlines the appropriate study designs and statistical tools most suitable for answering a specific research question.

**PHT 491 - Capstone Thesis/Project, 1-4 credit hours**

**PHT 495 - Independent Study, 1-4 credit hours**

**PHT 497X - Public Health Internship, Credit hours to be arranged**

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**PHT 520 - Core Concepts in Population Health, 3 credit hours**

The course provides students with an introduction to fundamental concepts and principles underlying population health approaches to public health. The course is designed to address population and prevention-based perspectives on health; the biopsychosocial context of health and health disparities; role of community in public health; role of organized public health and medical efforts in population health; and future directions in population health. The course will also be designed to provide a broad overview of health disparities and disparity population in terms of race/ethnicity, geographic locations, and sexual orientation. Leading Health Indicators and Leading Causes of Death in the U.S. as described in Healthy People 2020 will be explored.

**PHT 521 - Health Policy & US Healthcare Systems, 2 credit hours**

This course explores the legal powers and duties of the state, in collaboration with its partners (e.g., health care providers, business, the community, the media, and academe), to assure the conditions for people to be healthy, and the limits on state powers to constrain the autonomy, privacy, liberty, proprietary, or other legally protected interests of individuals for protection or promotion of community health. After reviewing key concepts relating to the public health "system" and introducing the concepts of public health ethics, law and policy, we overview basic theories of ethical decision-making and their relevance to public health. Public health ethics seek to understand and clarify principles and values that guide public health actions, offering a framework for making decisions and a means of justifying them. We close the course by applying what we learn to specific forms of government intervention to address public health problems.

**PHT 525 - Statistical Methods in Population Health, 3 credit hours**

The objective of this course is to train students about the most commonly used statistical-methods in clinical, public health, epidemiological, and experimental research. This course is designed to provide a broad overview of biostatistics methods as well as applications commonly used for public health research. Topics covered include measurement and categorizing variables, use and misuse of descriptive statistics, testing hypotheses, and applying commonly used statistical tests including t-test, ANOVA, linear regression, etc. An emphasis will be placed on the practical application of data to address public health issues, rather than theoretical and mathematical development. Students will learn how to choose and apply statistical tools to data sources, when and how statistical tools can be used to analyze data, and how to interpret others' quantitative studies. Students will gain experience using online datasets and the SAS statistical software package. In addition, the student learns how to read, critique, and interpret statistical concepts in the literature.

**PHT 526 - Epidemiology for Public Health Practices, 3 credit hours**

**Prerequisite(s):** PHT 520 and PHT 525

The course is designed to introduce students to the concepts of epidemiological methods and their practical applications in the understanding of determinants and distributions of diseases and health related events. This course provides a foundation of topics in epidemiology through examining infectious disease, chronic diseases, and general health. The course will cover basic principles of epidemiology, including disease control and analysis of risk factors. Topics will include the history of epidemiology, types of epidemiologic studies and risk estimation and causal inferences. Students will learn from real world health problems and demonstrate how epidemiology is used to better understand, prevent, and treat diseases among the population. We will illustrate and practice using epidemiology to better understand, characterize, and promote health at a population level.

**PHT 530 - Environmental & Occupational Health, 3 credit hours**

Introduces students to physical, chemical and biological hazards found in the environment and biological hazards health risks associated with workplace and community exposure to them. Risks to special population and mechanism to reduce these risks are discussed. Students will discuss environmental justice, and will explain its history and principles. The course content will also examine general mechanisms of toxicity in eliciting a toxic response to various environmental exposure. In addition, the course will provide students with basic skill for emergency preparedness and disaster management.

**PHT 535 - Research & Evaluation Methods in Population Health, 3 credit hours**

**Prerequisite(s):** PHT 525

This is a course designed around modules whose objective is to provide students with greater familiarity in a range of methods essential to public health practice. The course will be framed around an in depth needs assessment and community public health planning in Northeast Ohio. Topics covered will include data collection and evaluation, both quantitative and qualitative, uses of informatics in public health, analysis of vital statistics, working with communities, methods for developing and facilitating solutions to public health problems. The course demonstrates how core public health competency areas in data analysis and communication provide foundations for applications for both practice and practice-based research. Students will learn to identify the kind of research problems for which qualitative and quantitative methods are appropriate, and to critique research in terms of design, technique, analysis and interpretation. Students will use SAS, NVivo and related software for quantitative and qualitative analysis.

**PHT 537 - Theories & Practices in Health Promotion, 3 credit hours**

This course will focus on social and behavioral sciences as applied to the understanding of the distribution, etiology, and solution of public health problems. The course will critically review examples of the application of various models to health promotion and disease prevention with individuals, groups and communities. Public health interventions and educational programs are most likely to have an impact on populations and communities when they are guided by a theory. Theories of health behavior help researchers, practitioners and participants identify targets and opportunities for change as well as methods for accomplishing change. This course is intended to provide students with a solid foundation in behavioral and social science theory in the context of both, public health research and practice. The content of this course will provide exposure to a broad range of theories and frameworks commonly employed in the public health arena including issues related to the intersection of public health and human rights. These theories will

be discussed using examples of their applications to numerous public health problems including, but not limited to, HIV/AIDS, violence, cancer, cardiovascular disease, obesity, diabetes, environmental hazards, and global health.

**PHT 541 - Population Health Risk Stratification & Management, 3 credit hours**

The purpose of this course is to introduce students to the fundamental organization, behavior, financing, and challenges of the health system of the United States. This course is an introduction to health policy and management. It examines both the historical and current state of health policy in America and integrates these concepts within the context of public health practice. The course examines key concepts in understanding US health care organization, financing and delivery, current political and economic debate on health care reform, examining the role and management issues of public health departments, and case studies in public health policy and management. This course provides students with a basic understanding of the US health care system and describes how various health care components work individually, and how they work (or fail to work) together to create the "health care system". Though the orientation of the course is toward the American health care system, the experience of foreign systems will frequently be noted.

**PHT 598 - Clinical Research Methods, 2 credit hours**

The course will provide students with the methods and issues associated with clinical trials. The course will consist of experimental methods and how they are used to design clinical trials. Students will learn how to design and interpret results from clinical trials. Students will also examine the ethical and regulatory issues related to the conduct of Clinical Research Trials.

**PHT 600 - Grand Rounds in Population Health, 0-1 credit hours**

**Prerequisite(s):** PHT 520

Grand rounds are topical seminars designed to provide students with breadth of knowledge on emerging issues in population health. Students are required to attend a minimum of 3 grand round lectures and develop a white paper on a specific topic of interest that deals with a contemporary population health issues.

**PHT 610 - Prevention of Chronic Diseases, 3 credit hours**

This course focuses on the current status of preventive and population-level interventions to reduce chronic disease risk in adults and children, with an emphasis on community-level, public health policy approaches to promoting healthier lifestyle and wellbeing. This course covers the major chronic diseases and their risk factors. The importance of this subject cannot be overstated since it is the major factor driving health care costs. The U.S. now spends more money per capita than any other nation yet is behind in longevity. Brief overviews of the epidemiology, physiology, chronic disease implications of obesity will be covered. Class sessions are a combination of lecture and class discussion.

**PHT 611 - Disease & Wellbeing Across Lifespan, 3 credit hours**

In this course the students will use concepts from population health, biology, and nutrition, pharmacology, and biopsychosocial sciences to critically examine the determinants of health, wellness, and illness across the lifespan. Environmental, sociocultural, and economic factors that influence health care practices are emphasized. Theories of health, wellness, and illness are related to health promotion, disease prevention, and illness prevention interventions will be explored.

**PHT 612 - Prevention of Sexually Transmitted Diseases, 3 credit hours**

This course will fulfill elective requirement that aligns with program goal and mission. The content in this course is designed to meet the knowledge outcomes for graduate program in Public Health as set forth by the Council on Education for Public Health (CEPH). Northeast Ohio experience significant disparities in terms of sexually transmitted infections (STIs). Thus, it is expected that future Public health professionals address this disparities by gaining critical knowledge and skills in prevention of STIs.

**PHT 613 - Diversity & Health, 3 credit hours**

The purpose is to expose students to the intersectionality of health, race /ethnicity, sexual orientation and gender expression. Variety of qualitative approaches/methodologies that may be used in assessing unique healthcare needs

of minority population will be explored. Students will examine and discuss the theoretical and practical elements of the community action research with diverse population.

**PHT 620 - Program Planning, Design, and Evaluation, 3 credit hours**

**Prerequisite(s):** PHT 520, PHT 525, PHT 535, PHT 537, & MGT 702

This course will provide students with the concepts and techniques of planning, implementing, and evaluating public health programs. The course will cover concepts that are relevant to evaluation of health, and social and behavioral interventions in the community settings. These will include program/intervention, implementation and impact evaluation concepts, models/designs, methods, indicators, and data collection, analysis and interpretation strategies. Design and application of evaluations will include both quantitative and qualitative analysis methods. The course will explore the role of planning and evaluation in improving program implementation, management and outcomes.

**PHT 621 - Advanced Methods in Population Health Assessment, 3 credit hours**

**Prerequisite(s):** PHT 525, PHT 535, PHT 537

This course will provide students with advanced skills in research design and methods for establishing causal statements about the efficacy, effectiveness and generalizability of public health interventions designed to alter population health outcomes and social risk or protective factors. Standards for stating/claiming that an intervention is evidence-based also are addressed in this course. This course employs basic aspects of ArcGIS, and SAS-based statistical modeling tools for multivariate regression analysis.

**PHT 622 - Evidence-Based Interventions in Population Health, 3 credit hours**

**Prerequisite(s):** PHT 535

This course will provide students with the basis of Implementation Science, the scientific study of strategies used to adopt and integrate evidence-based health interventions. The course will focus on creating strategies to integrate evidence-based interventions within community and healthcare settings.

**PHT 623 - Intermediate Epidemiology, 3 credit hours**

**Prerequisite(s):** PHT 526

This intermediate course in epidemiology provides the knowledge and skills for designing, implementing, analyzing, and interpreting observational (e.g. cohort, case-control) and experimental (e.g., clinical trials) epidemiologic studies. This course builds on introductory epidemiology and applied statistical methods courses and introduces advanced epidemiological theoretical concepts and analytical approaches needed for designing epidemiologic studies applicable to different fields in public health and medicine. Students will learn how to evaluate the findings from the published literature and identify threats to validity such as bias and confounding.

**PHT 625 - Community Based Participatory Research & Qualitative Methods, 3 credit hours**

**Prerequisite(s):** PHT 535

The course will provide students an understanding and practice of the use of Community Based Participatory Research (CBPR) within qualitative research projects. CBPR combines methods of inquiry with capacity-building strategies that strive to make research meaningful and relevant to specific communities. CBPR supports action-oriented and community-partnered approaches to public health and health disparities research that recognize and promote community assets and expertise. The course will focus on the use of qualitative methods to work with community members to highlight important needs and issues within the community.

**PHT 630 - Violence & Public Health, 3 credit hours**

With experiences ranging from interpersonal violence between family members to those experiencing war as either combatants or noncombatants, violence is a major issue in Public Health. The course will examine the impact violence in all forms has upon the lives of those involved and social, cultural, and political factors that relate to it. Students will also examine the social, psychological, and medical effect of violence. Students will also examine programmatic and other mechanisms to reduce disparities and experience of violence.

**PHT 633 - Methods in Field Epidemiology, 3 credit hours****Prerequisite(s):** PHT 526

The purpose of this graduate level course is to introduce students into the methods applied in field epidemiology. The course will present the definition and scope of field epidemiology and will cover different topics including outbreak investigation and surveillance in public health epidemiology. The course will provide hands-on data analysis of outbreak investigation using the CDC EpiInfo software. The course will discuss laboratory methods used in outbreak investigation. Guest speakers with relevant experience will be invited to the classroom to enrich the learning experience and expected outcomes of this course.

**PHT 635 - Latino Health & Culture, 3 credit hours**

The course will examine the social and medical factors that affect the health of Latino populations within the United States. Issues such as language and culture influences the lives of Latinos and affect their ability to access care and to adhere to treatment. The course will provide students with an understanding of the factors that can benefit or hinder Latino populations. Students will learn about Latino cultures and important phrases to increase their cultural competency regarding Latino populations.

**PHT 643 - Computer Packages for Epidemiological Analysis, 3 credit hours**

In this course, students will learn fundamental aspects of computer programming in the R and SAS languages necessary for problem-solving. Students will use R (a free, open-source software package) and SAS (commercial software) to clean, organize, visualize, summarize, and analyze data and export (document) the results to graphs, text files, and databases. By learning how to get the computer to do your work for you, students will do more science faster. Students will utilize the various main packages available in R for visualization, reporting, data manipulation, and spatial and statistical analysis. Students will learn the SAS programming language, data manipulation, preparing data for analysis and performing univariable and multivariable analysis. SAS will be also used for complex survey analysis using national datasets such as NHANES and BRFSS. No previous background in either programming language is needed.

**PHT 645 - Health Informatics & Big Data, 3 credit hours****Prerequisite(s):** PHT 525 or other graduate level statistics course

This course provides a conceptual foundation and practical training to students who will be working with larger dataset from clinical trials, census or other public health research studies. Topics include data issues in study design, collecting high quality data, using SAS and SQL to transform data into structures useful for analysis, producing typical reports, data closure and export, and working with big data. This course describes the organizational context of health information and how to use health data to manage population health. Sources and types of health information, organizational processes affecting information quality, consistency, completeness, and accuracy, methods for organizing information, and use of information will be discussed. Students will use SAS JMP software for data analysis and management.

**PHT 650 - Leadership Seminar in Population Health, 1 credit hour****Prerequisite(s):** PHT 520 and PHT 521

This graduate-level course aims at introducing students to the concepts of leadership in population health. The course will cover the required competencies and skills needed for a future leader in population health with a focus on theories in organizational behavior theory and leadership theories and their applications in population health. Guest speakers, lectures, and case studies will be combined to connect theories to critical thinking to learn from leaders in the field of population health. At the end of this course, students will be able to apply evidence-based leadership skills to solve population-based health problems.

**PHT 670 - Spatial Modeling & Simulation, 3 credit hours****Prerequisite(s):** PHT 530 and PHT 621

Knowledge of the spatial distribution of disease events (exposures and outcomes), and factors that determine where disease occurs, is a foundation of epidemiology and public health. Although disease maps have a long history of use



in public health, it is only recently that methods for analysis of spatial disease data have become widely available. This methodology-oriented course focuses on designing GIS-based models to address health and health care issues. The lecture component covers a series of topics, including: a conceptual framework, landscape epidemiology models, disease diffusion models, health accessibility, individual health behavior, and location-allocation models of health services. This course also has a lab component (8 labs) to help students gain hands-on experience of applying these models with GIS tools so students should be prepared to be fully engaged.

**PHT 673 - Special Topics in Public Health, 3 credit hours**

Special topics of interest will be presented.

**PHT 700 - Grant Writing & Administration, 1 credit hour**

The goal of this course is to provide students an opportunity to enhance their skills in the area of grant writing, reviewing and management. The student will learn the steps in planning and writing the grant for state, federal and private funding agencies, understanding the funding environment, learning how to choose different types of grants, and understand the submission and review process. Students will have the opportunity to experience the range of activities involved in grant writing and management including developing a compelling idea for a project or research; identify ethical issues; skills for identifying strategies, anticipating problems and understanding reviewers to write major components of the grant application including the Executive summary, Needs Statement, Objectives, conceptual model, Project Activities/Methods, Resources, Budget, and Budget Justification; conduct a review for a grant application; and identify post-award expectations in managing a funded project.

**PHT 770 - Practicum in Population Health, 4 credit hours**

**Prerequisite(s):** Enrollment in the MPH Program

This is a required 4-unit course. Students must complete a minimum of 240 hours of supervised field-work experience and/or a research based thesis. Prerequisites are completion of all general MPH core courses. Attendance at one or more Practicum Orientation meetings is mandatory. Practicum Orientation meetings are held at the beginning of each semester. The practicum is designed to provide MPH students with the opportunity to integrate the knowledge and skills developed during their academic program in a structured, supervised, real-world professional setting under the direction of a site supervisor and a faculty member in a public health setting. Requires a significant project proposal approved by faculty instructor and the Department and a final report and/or a thesis and reflection paper.

**PHT 775 - Capstone Project & Seminar, 1 credit hour**

**Corequisite(s):** PHT 770

The course draws on students' prior training in the five core areas of public health; cross cutting competencies (leadership, communication and systems thinking); their additional required course work in one of 2 tracks; and their "real world" experience gained in the field prior to their graduation. In particular, the capstone class is closely linked to the MPH practicum. The Capstone is designed to challenge students to reflect and integrate their training and experience with the goal of developing their own individual point of view regarding the role of public health in contributing to the improvement of the health and well-being of populations in the United States, as well as abroad. A Comprehensive exam, capstone presentation assessment, and reflection on students' E-Portfolio will be conducted.

## Public History

**PBH 100 - Introduction to Public History, 3 credit hours**

Introduction to the field of public history. Topics include careers in public history, historic preservation, conservation, museums, and archives.

**PBH 200X - Introduction to Archives and Museums, 3 credit hours**

This course is designed to familiarize students with common terminology, best practices, and current events in the archival and museum field. Through readings and experiential assignments, students will be introduced to careers outside of academia and challenged to think about various issues. Class work will present students with an

opportunity to curate an exhibit in a public setting, engage in collaboration, promote their work via social media, and manage a very real project budget.

**PBH 250 - America's National Parks, 3 credit hours**

This course will trace the origins, and development, of protected lands throughout the United States, beginning with the first national park in Yellowstone, in 1872. Students will explore the changing perspectives on the mission and purpose of the parks, which will entail examining how, and why, people visit, authorities' manipulation of wild/plant life for human benefit, and the various consequences of doing so, resulting in ecosystem imbalance, animal attacks, and forest fires. This class will further consider the challenges encountered by park rangers and visitors, including criminal activity, the pursuit of extreme sports, the misuse of firearms, and disregard of park policies regarding waste disposal and interaction with wildlife. Students will investigate the history of native peoples in many of these reserved areas, how they have been exploited, and displaced onto reservations.

**PBH 300X - Community Research & Oral History, 3 credit hours**

**Prerequisite(s):** ENG 131

This course will introduce students to local history, a genre of history that emphasizes the community and its contributions to our understanding of the bigger picture. In particular, this class will focus on "doing" local history through interaction and oral history, finding worthwhile stories, nurturing collaborative endeavors, exploring ways of making local history more engaging, and the impact the web has had on bringing local history to a global audience. Through readings, experiential assignments, and interviews with residents, students will be introduced to careers in local history careers. A portion of the course will include setting up, recording, editing, and making the oral histories accessible via the web.

**PBH 497X - Public History Internship, Credit hours to be arranged**

**Prerequisite(s):** PBH 100, PBH 200X, PBH 300X, or permission of instructor

The internship requires students to work for a professional museum, historical society, library, archive, or other organization engaged in public history. The internship will culminate in a presentation to faculty and a reflective essay that describes the choice of internship, learning objectives and challenges experienced in meeting them, and personal development achieved. The for-credit internship registration process is handled via the Career Center Handshake platform. To register your internship for credit, please contact Career Center at [career@bw.edu](mailto:career@bw.edu).

## Religion

**REL 100 - Introduction to Religion, 3 credit hours**

An introduction to religion, utilizing Ninian Smart's seven "dimensions of the sacred": the ritual or practical; the doctrinal or philosophical; the mythic or narrative; the experiential or emotional; the ethical or legal; the organizational or social; and the material or artistic. Required for Majors and Minors.

**REL 105S - Religion for the Citizen, 3 credit hours**

This course focuses on basic Religious Literacy, providing students with the knowledge about Religion they will need to act as educated citizens in our increasingly pluralistic society. This course includes units on religions in our community, religion and service, religion in politics, religion in the media, and spiritual reflection.

**REL 106I - Religions of Asia, 3 credit hours**

This course provides a survey of the religions of Asia and explores their philosophy, history, and effects on culture. Particular attention will be given to India, China, and Japan and thus to the following religions: Hinduism, Jainism, Buddhism, Islam, Sikhism, Confucianism, Daoism, and Shinto.

**REL 108I - Islam, 2 credit hours**

An examination of the basic beliefs, practices, and early history of Islam.

**REL 110 - Judaism, 3 credit hours**

An introduction to modern Judaic faith, with emphasis on understanding the main themes of Jewish faith and practice in the contemporary world. Offered with support from the Jewish Chautauqua Society.

**REL 115D - African-American Religious Experience, 3 credit hours**

This course examines African-American Religious Experience by providing a survey of African-American religious history. It pays particular attention to the interaction of African religions with Christianity and to the diversity within African-American religion in Christianity as well as beyond Christianity.

**REL 120 - Catholic Faith Today, 2 credit hours**

A study of the beliefs and practices of the Roman Catholic Church today, seen especially in the light of the changes introduced by the Second Vatican Council.

**REL 121 - Spiritual Disciplines, 3 credit hours**

Spiritual Disciplines are the path to spiritual growth. Classical disciplines such as prayer, fasting, meditation and others will be examined with respect to both process and content. A practical, experiential component is an essential feature of the class. However, the class does not fulfill the Experiential Learning Core Requirement.

**REL 125 - Modern Spiritual Paths, 3 credit hours**

Representative luminaries of various religious traditions provide different ways of experiencing God's Presence. Attention will also be given to the multiple ways spiritual experiences are articulated. Diversity within the Christian tradition will be in evidence, as well as the pluralism of non-Christian traditions such as Judaism, Buddhism, Hinduism and Islam.

**REL 127 - Contemplative Spirituality, 3 credit hours**

Contemplative Spirituality is a way of living a centered life with awareness of the Divine Presence. The class examines both the historical ways of contemplation and its contemporary expressions in diverse faith traditions. This way of living offers an alternative way of being in the world. An experiential component is an important feature of the class. However, the class does not fulfill the Experiential Learning Core Requirement.

**REL 128 - Meaning, Memoir & the Good Life, 3 credit hours**

Drawing on memoir, material on spirituality, and other disciplines, this course will explore the search for meaning and purpose by examining how others have understood the meaning of their lives, and what a good life might look like, that is, a life worth living. This course is discussion/lecture in format. Reflective and critical evaluative writing will be the primary means of assessment.

**REL 161 - Christian Faith & Thought, 3 credit hours**

An introduction to the field of Christian theology. The course will consider the major forms of Christian faith and thought, with an emphasis on contemporary expressions of Christianity in churches today. Some attention will be given to these topics: faith and reason, church and state, scripture and its interpretation, science and faith, personal faith and communal worship, ecumenical patterns, and the future of Christianity.

**REL 165 - Religion and Popular Culture, 3 credit hours**

This course explores the intersection of religion and contemporary popular culture in America. We will ask several important questions as we read, watch, listen to, and discuss the materials for this course. What is religion? What is popular culture? What role is religion playing in it and vice versa? Why? How do we assess combinations of the sacred and the secular? What does it all mean?

The intent is for you to develop the tools needed to assess the reciprocal ways religion and popular culture interact. Alongside these skills we will also explore the "meaning" inherent in this interaction. Assumed here is the idea that both religion and popular culture are ways of expressing meaning. Approaching both with this idea in mind inevitably invites our own individual reflection on the ways each of us seeks to create or discover meaning for ourselves, and what roles religion and/or pop culture plays in that process.

**REL 193(D) - Topics in Religion, 2-4 credit hours**

Various topics in Religion will be examined. May be repeated, provided that the topic is different.

**REL 2011 - Buddhist Culture in Asia, 3 credit hours**

An anthropological approach to the study of Buddhism, looking at Buddhist culture in South Asia, East Asia, and Tibet. Special attention will be given to ritual practice, religion and politics, social activism, and gender issues.

**REL 215I - Death and the Afterlife in the World's Religions, 3 credit hours**

A comparative examination of the world's religions in terms of their beliefs and rituals associated with death and the afterlife. The course also includes a segment on near-death experiences and a segment on applying knowledge of religious and cultural views and practices to issues affecting personal and professional life.

**REL 216I - Religion, Gender, and Sexuality, 3 credit hours**

A comparative examination of the world's religions in terms of their attitudes towards gender and sexuality. Special attention will be given to traditional religious conceptions and modern feminist and queer theological interpretations as well as to case studies of the impact of these views from around the world.

**REL 217I - Religion, Violence & Peace, 3 credit hours**

A comparative examination of the world's religions in terms of their beliefs about violence and non-violence. Special attention will be given to scriptural interpretation and modern case studies of conflict and peacemaking from around the world.

**REL 218D - World Religions in the U.S., 3 credit hours**

A comparative examination of the world's religions in the United States of America. Special attention will be given to legal and historical understandings of American religious diversity and to resulting issues of assimilation, discrimination, and enrichment experienced in America, especially since the Immigration and Naturalization Act of 1965.

**REL 219I - Religion and the Environment, 3 credit hours**

A comparative examination of the world's religions in terms of their attitudes toward nature and the environment. Special attention will be given to modern international case studies of religious approaches to sustainability.

**REL 242 - Intro to the Hebrew Bible/ Old Testament, 3 credit hours**

A basic study of the origin and development of the Hebrew-Judaic faith and its expression in history, personalities, theology and various types of literature. An interdisciplinary examination of the Hebrew Bible. Special attention will be given to its authorship, its historical and cultural context, its literary value, and its implications for theological interpretations.

**REL 246 - Introduction to the New Testament, 3 credit hours**

A basic study of the documents of the New Testament and other key material of earliest Christianity. Special attention will be given to its historical, cultural, and religious contexts and its implications for theological interpretation.

**REL 290 - The Good Life, 1 credit hour**

Meets weekly, to discuss various issues in Religion. Required for Majors and Minors. Graded S/U.

**REL 293 - Topics in Religion, 2-4 credit hours**

Various topics in Religion will be examined. May be repeated, provided that the topic is different.

**REL 295 - Independent Study, 1-4 credit hours**

**REL 363 - Seminar in Religion, 3 or 4 credit hours**

**Prerequisite(s):** ENG 131 and one Religion course or consent of the instructor.

Advanced examination of various topics in Religion. May be repeated, provided that the topic is different. Required for majors and minors

**REL 395 - Independent Study, 1-4 credit hours**

**REL 397X - Advanced Internship, 3-4 credit hours**

**Prerequisite(s):** One previous Religion course and ENG 131

Allows students who are interning to place their experience into a theoretical context. By combining theoretical approaches with reflection and applied activities, students will learn valuable skills that are desired in the contemporary job market. Students will be expected to complete assigned readings, write regular reflections and meet regularly with a faculty advisor. The for-credit internship registration process is handled via the Career Center Handshake platform. To register your internship for credit, please contact Career Center at [career@bw.edu](mailto:career@bw.edu).

**REL 459X - Faculty-Student Collaboration, Credit hours to be arranged**

**REL 463 - Seminar in Religion, 3 or 4 credit hours**

**Prerequisite(s):** ENG-131 and one Religion course or consent of the instructor.

Advanced examination of various topics in Religion. May be repeated, provided that the topic is different. Required for majors and minors

**REL 491 - Departmental Thesis/project, 3-4 credit hours**

**Prerequisite(s):** Two upper level seminars

**REL 495 - Independent Study, 1-4 credit hours**

## Sociology

**SOC 100D - Principles of Sociology, 3 credit hours**

Would you like to learn important life skills that will help you meet difficult challenges in life? This class introduces you to the controversial issues, competing theories, and scientific methods in sociology. You examine the impact of culture, socialization, and social institutions on human behavior. You also learn to apply the sociological perspective to a study of social class, race, gender, and deviance. Interactive computer exercises aid your understanding of key issues in society. This fun class is comparative in nature, drawing on examples from both the United States and around the world.

**SOC 201D - Social Problems, 4 credit hours**

We face many challenges in society today. This course addresses selected social problems and issues in our world today. Emphasis is on conceptions and misconceptions regarding the causes of social problems at the national and international level. Possible solutions and policy implications to these problems are also explored. Working collaboratively with the Community Outreach Office at Baldwin Wallace University, students enrolled in this course may choose to work in various social agencies to address social problems in the greater Cleveland area.

**SOC 206 - Crime in Organizations, 3 credit hours**

Crime isn't always complex or committed by those in positions of power, but sometimes it is. The primary focus of this course is to acquaint students with the nature and extent of criminal behavior within an organizational context. Accordingly, the course will focus upon analyzing organizational crime and deviance within corporate, governmental and criminal justice settings. Societal attitudes, social and economic consequences and control of these activities are also addressed.

**SOC 210 - Work Matters: The Sociology of Work and Work Settings, 3 credit hours**

**Prerequisite(s):** At least 6 months of full time work experience.

A rewarding career requires understanding of the role work plays in our lives and the nature of different work settings. Sociologists study the way work roles interrelate on the job and in our families. We will look at issues of diversity, career paths, and the impact of organizational growth and the human toll of downsizing. We will also try to understand the role work plays in the lives of executives, professionals, middle managers, skilled and unskilled workers, and what it means to have no work role because one is unemployed. Students will study their own work settings as part of the course and will draw on their own work experience and career goals in class discussion.

**SOC 212 - Families, Couples and Singles, 3 credit hours**

Have you ever wondered about the "health" of today's family? The meaning of the word itself is changing, as are the circumstances around it in society. This course presents an analysis of family life and the historical development of the family through the examination of comparative family organizations in various societies. A review of recent research in American family structure is undertaken to discover the strengths, weaknesses and the future of various types of domestic lifestyles, including living together couples, single-parent families and other alternative forms. Social policies are also explored in this class.

**SOC 250 - Topics in Sociology, 3 credit hours**

Content will vary. Students may take this course more than once provided that the topic is different each time. Examples: Sociology of Sport, Sociology of Religion, Policies on Aging.

**SOC 260 - Death and Dying, 3 credit hours**

The principal purpose of this course is to provide students with an opportunity to study death in modern society. Course objectives include: applying the sociological perspective to understanding death and dying in modern U.S. society; learning how grief is a life-long human dilemma and will study models of grief and bereavement adaptation; developing an interdisciplinary understanding of the complex nature of death in our modern healthcare system and global societies. Students will be challenged to understand the difficult ethical and moral end-of life medical decisions confronting the terminally ill, their families and health care professionals.

**SOC 263 - Seminars in Sociology, 1-4 credit hours**

**Semesters Offered:** Offered occasionally on a variety of topics.

**SOC 265 - Policing of Society, 3 credit hours**

This course will provide students with a knowledge of the role and functions of the police in our society. Critical issues facing the law enforcement community and our society will be addressed. The primary focus will be on the municipal level, with selective coverage of other levels (county, state, federal) as deemed necessary.

**Crosslisted:** CRJ 265

**SOC 270I - Terrorism: Roots and Responses, 3 credit hours**

Terrorism is often touched on in the news, but how much do you really know about its causes and consequences? Among the topics that are explored are: how terrorism is defined (and sometimes justified), the factors that promote its existence, features of terrorist organizations, the impact of media coverage of terrorist incidents, and the array of counter-terrorism measures undertaken by governments. While the course examines various terrorist campaigns around the world—past and present—the emphasis is on what is sometimes referred to as the "new terrorism." That is, religiously motivated violence involving radical Islamist factions whose terrorist tactics and extreme violence set it apart from other examples of terrorist campaigns.

This course will examine the nature and extent of terrorism and the many issues associated with its causes, patterns, detection, prosecution, and punishment. The delicate balance between individual civil liberties and the government's need for information to ensure public safety will be discussed in the context of current affairs.

**SOC 280 - Research Methods, 4 credit hours**

**Prerequisite(s):** SOC 100D. Required of all Sociology majors.

In today's market, no matter what University graduates pursue as a career goal, they can be expected to provide scientific and objective assessments at different levels. This course is designed to help the student understand the theoretical principles on which scientific research is based and to see how those principles are reflected in the established techniques for doing research. Upon completion of this course, a student can expect to be fairly knowledgeable of concepts in and the structuring of Scientific Inquiry; Modes of Observation, with special emphasis on computer applications in data interpretation; and the social context of research. In addition to the logistical and technical matters, research ethics and relations to public policy are also covered in this course.

**SOC 281 - Data Analysis Using PASW, 4 credit hours**

**Prerequisite(s):** PSY 278 or MTH 279 or MTH 105, Core Math, and a research course in a discipline related to student's specialization or consent of the instructor. Required of all Sociology majors. For Statistics minors, all other required courses in the minor need to be completed before taking this course as a capstone.

Valued by employers and graduate schools alike, this course develops marketable skills used in social science analyses as well as in other areas of research like communications, business, and health. Students use the Predictive Analytics Software (formerly Statistical Package for the Social Sciences) to create data files, recode variables, and analyze relationships in the data. Participants in the class learn how to formulate research hypotheses and empirically test them in a user-friendly computer lab. The course is based on conceptual understanding of statistical analysis and emphasizes a practical, working knowledge of various statistical tests with calculations performed by the software. Do analysis of your own choosing, starting with the data and ending with impressive tables and graphs with which to convey the findings to the world. In the end you might like data analysis like many students who took the class before you!

**SOC 282 - Qualitative Methods, 3 credit hours**

**Notes:** Any of the following: CAS 311, ECN 320/321, ASW 209, SOC 280, PSY 380, POL 240

**Corequisite(s):** CSD 440 for Communication Sciences & Disorders majors

This course provides an overview of the techniques and protocols associated with various qualitative data collection methodologies (e.g., field observations, in-depth interviews, focus groups, and qualitative document analysis), an analysis of commonalities and differences between qualitative and quantitative methodologies, and a consideration of data analysis techniques, including computer-assisted techniques. The course will also consider issues of writing and representation of qualitative analysis, as students are expected to conduct and present research projects using the techniques discussed in class.

**SOC 288 - Environmental Sociology, 3 credit hours**

What are the cultural and institutional mechanisms that have both contributed to and responded to environmental problems? This course investigates how groups conceptualize and impact natural systems by studying cultural norms and values, and studying how communities and organizations respond to environmental threats. An overview of environmental movements includes an emphasis on environmental justice, both domestically and internationally. Students will propose optimal mechanisms to transform cultural elements and social structures to achieve sustainable societies.

**SOC 290D - Gender Roles, 3 credit hours**

This course examines gender dynamics from an interdisciplinary perspective. Students use scholarly publications to explore the impact of the media, politics, and the workplace on individual experiences. Both macro (social structure) and micro (interpersonal relations) perspectives and social policies are investigated. The focus is primarily on the contemporary United States, but references to other countries, particularly developing countries, will be made where appropriate.

**SOC 295 - Independent Study, 1-4 credit hours**

**SOC 298X - Internship, Credit hours to be arranged**

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**SOC 301D - Social Inequalities, 3 credit hours**

**Prerequisite(s):** SOC 100D, SOC 201D or SOC 210

Have you ever wondered why some people have more than others, and why these inequalities persist in modern society? This course examines some dominant forms of inequalities, their causes, and some of the social consequences that are adjunct to the process. The course explores the ways in which these impact life in the United States and other nations, and prepares students with some the life skills that will help them cope with these and at the same time make positive changes in their society and the larger global scene. The course covers intermediate level concepts of social inequalities seen from a sociological perspective; forms, causes, and consequences of inequalities; sociological data interpretation; and cross-cultural perspectives on these issues. Social and public policies are also addressed as a necessary corollary to the topics covered in class.

**SOC 303I - Urban Community Life, 4 credit hours**

**Prerequisite(s):** SOC 100D or SOC 201D. Required for all Sociology majors

This course presents an overview of the historical development of the urban community. The dynamics of urbanism are studied, including population changes, different life styles, and urban ecology. An integral component of this course may involve work in the community coordinated through the Community Outreach Office. Students will actively participate in the community applying and integrating knowledge acquired in the classroom with actual programs, social policies, and concerns of the urban community.

**SOC 310 - Work in America, 4 credit hours**

An examination of the meaning of work through the findings of empirical research. Executives, professionals, middle managers, skilled and unskilled workers and the unemployed are studied to learn how the tasks, personal associations and social status connected with work influence values, life style and family relationships. Students' own work experience and career goals are incorporated into the course.

**SOC 313 - Criminology, 3 credit hours**

**Prerequisite(s):** SOC 100D or SOC 201D. Required of all Sociology majors

This course focuses on the sociological study of crime. The course includes an examination of the nature of criminal laws, the variety of theoretical explanations for criminal behavior, the measurement of crime, patterns of crime, and the mechanisms for control of criminal behavior.

**SOC 315 - Sociological Theory, 3 credit hours**

**Notes:** Required of all Sociology majors.

**Prerequisite(s):** SOC 100D or SOC 201D, plus 2 additional courses in sociology.

This course provides an in-depth coverage of major theoretical contributions in sociology. Students will acquire a sense of how social theory has developed historically, understand the strengths and limitations of each theory studied, and develop an ability to evaluate and discuss theories critically. The interdisciplinary nature and relevance of social theory on contemporary society are also investigated.

**SOC 317 - Sociology of Deviance, 3 credit hours**

**Prerequisite(s):** SOC 100D or SOC 201D

This course studies the nature of social deviance, including an overview of differing theoretical perspectives on deviance. Emphasis is on an assessment of causality, typical life styles of various classes of deviants, current societal reaction and possible alternative responses by society to deviancy in its various forms.

**SOC 320X - Victimology, 4 credit hours**

**Prerequisite(s):** SOC 100D or CRJ 165

This course will cover topics such as the patterns of criminal and victim relationship, theories of victimization, victims'



rights and activism, the role of victim in the criminal justice process, and problems of adjustment to victimization and compensating the victim. The various types of victims and victimizations will also be explored. Students will actively participate in the community service, applying and integrating knowledge acquired in the classroom with actual programs, social policies, and concerns of the urban community. Sections of Victimology offering experiential learning credit will include tenets of *Philanthropic Learning* and related content regarding the non-profit sector, grant writing and grant evaluation.

### **SOC 323 - Sociology of Law, 3 credit hours**

**Prerequisite(s):** SOC 100D (POL 207 highly recommended)

This course examines major issues and debates in the sociology of law by examining the ways in which law affects social life and the social repercussions of legal decisions. Students will be exposed to a wide range of perspectives and will draw on examples from many legal settings. The goal of this course is to survey the different ways in which sociologists think about and study law and legal institutions, legal actors, and their relationship to social change.

### **SOC 345 - Medical Sociology, 3 credit hours**

This course uses sociological concepts, perspectives and research methods to examine the socio-cultural aspects of health and illness, disease prevention and disease treatment. The course explores the epidemiology and social demography of health, examines the behaviors associated with health and illness, and reviews the experience of illness in various societies. Attention is given to the doctor/patient interaction, the medical professions in changing societies, and the health care delivery systems and social policies regarding medical care in the United States and other nations.

### **SOC 350 - Topics In Sociology, 3 credit hours**

**Prerequisite(s):** SOC 100D or SOC 201D

Content will vary. Students may take this course more than once, provided that the topic is different each time. This course designation will include a significantly greater component of academic rigor and/or computer labs/service learning/additional research obligations for students enrolled in this course designation. Examples would be: Social Policies on Aging, Race and Racism from a Socio-Anthropological Perspective, or a sociological study about a particular country.

### **SOC 361 - Corrections, 3 credit hours**

This course acquaints students with an analysis of sentencing, probation, parole and a diverse number of critical issues in penology. Such issues may include the prison environment, deterrence, rehabilitation, retribution, prison violence, capital punishment, prisoners rights, and reform of the system.

**Crosslisted:** CRJ 361

### **SOC 365 - Perspectives on Violence, 3 credit hours**

**Prerequisite(s):** SOC 100D or CRJ 165

Americans today seem to be much more concerned about crime, especially violent crime, than in years past. While this fear is understandable, careful consideration of the "violence problem" leads to different ideas than those generally held in the minds of most citizens and those broadcast on national television. This course is an interdisciplinary inquiry into the patterns and correlates of violence, its various forms, such as interpersonal and collective violence, and attempts to control its occurrence.

**Crosslisted:** CRJ 365

### **SOC 386 - Global Perspectives, 4 credit hours**

**Notes:** Recommended Preq: SOC 100D or Sophomore standing.

We live in a world where global and local events are increasingly interconnected. The primary purpose of the course is to provide a sociological interpretation of global human dynamics. Issues of concern include areas of changing political economy, ecological sustainability, and international conflict. Major theories of development, i.e., modernization, dependency, and world-system will be examined. Alternative models of development and the role of different cultures in the national quest to advancement will also be discussed. In addition, this course seeks to

understand how solutions to common problems such as globalization, environmental degradation, and the war against terror will affect American society as well as the global community.

**SOC 395 - Independent Study, 1-4 credit hours**

**SOC 398X - Internship, Credit hours to be arranged**

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**SOC 400 - Applied Sociological Research, 4 credit hours**

**Prerequisite(s):** SOC 280 and SOC 281, Senior standing and Sociology Major. Required of all Sociology majors. The whole class will undertake an applied research project for an on-campus or off-campus client. The class will design the study, develop the instruments, gather the data, analyze the data, and report the findings to the client.

**SOC 450 - Sociology Proseminar, 3 credit hours**

**Prerequisite(s):** Junior status and Sociology Major or Minor. Required of all Sociology majors.

Integrating knowledge of sociology and its applications are the key element of this course. Students will apply knowledge gained to a special topic throughout the semester. Discussions and assignments will integrate concepts and theories from other courses in the major. Students also prepare a portfolio containing a resume, information about careers, graduate programs, and a network file. Class sessions may include meetings with Career Services and speakers on graduate schools and various career fields.

**SOC 459X - Faculty-Student Collaboration, Credit hours to be arranged**

**SOC 463 - Seminars in Sociology, 1-4 credit hours**

Offered occasionally on a variety of topics.

**SOC 495 - Independent Study, 1-4 credit hours**

**SOC 498X - Internship, Credit hours to be arranged**

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## Spanish

**SPN 101 - Elementary Spanish I, 4 credit hours**

**Prerequisite(s):** None. Appropriate course for beginners. Students with more than two years of high school Spanish must have special permission of the instructor to register for SPN 101.

This course is designed for students with no previous knowledge of Spanish. Students will learn basic grammar in an oral/aural context in each class. Students of Spanish 101 are expected to develop the four language skills of speaking, listening, basic reading and writing as well as an appreciation of Latino culture. Students will be exposed to native speakers of Spanish in an interactive CD ROM, tele-based program Destinos, and videos on Spain and Spanish-America.

**SPN 102 - Elementary Spanish II, 4 credit hours**

**Prerequisite(s):** SPN 101 or equivalent.

Students of Spanish 102 are expected to enhance the four language skills of speaking listening, reading, and writing. This class will introduce the subjunctive mood, compound tenses, prepositions, and basic conversational skills. Speaking the language is greatly stressed at this level. Students will be exposed to native speakers of Spanish in an interactive CD ROM, telebased program Destinos, and videos on Spain and Spanish-America.

**SPN 201 - Intermediate Spanish I, 4 credit hours**

**Notes:** Required of all Spanish majors.

**Prerequisite(s):** SPN 102 or equivalent. SPN 201 is an appropriate entry point for most students with more than two years of high school Spanish.

One purpose of this class is to review what the student already learned and to expand on her/his first year of Spanish at BW. This is a grammar class with an introduction to cultural and literary readings. All skills (reading, writing, listening, and speaking), as well as the three basic fields (grammar, literature, and culture) will be emphasized during the course.

**SPN 202 - Intermediate Spanish II, 4 credit hours**

**Notes:** Required of all Spanish majors.

**Prerequisite(s):** SPN 201 or equivalent.

An expansion of Spanish language skills developed with exercises in conversation, oral comprehension, composition based on cultural and literary readings.

**SPN 240I - Contemporary Spain and Latin America, 3 credit hours**

**Prerequisite(s):** None. Given in English. May be taken for major credit if out-of-class research and report is done in Spanish.

A study and discussion of ongoing and developing events in any field, which present themselves in Spain and Latin America. The course also includes readings and discussions of the Hispanic character and pertinent topics in intercultural communication.

**SPN 250I - Techniques of Spanish Translation, 3 credit hours**

**Prerequisite(s):** SPN 202 and SPN 301I or equivalent.

A brief introduction to theories of translation followed by practical experience translating various texts.

**SPN 260I - Commercial Spanish, 3 credit hours**

**Prerequisite(s):** SPN 202 or equivalent advanced standing with permission of instructor.

An introduction to commercial and technical terms in Spanish with practice in business correspondence.

**SPN 262(I) - Seminar Taught in English, 1-4 credit hours**

A close study of a selected topic in Spanish. May be repeated if a different topic is offered.

**SPN 263I - Seminar, 3 credit hours**

**Prerequisite(s):** SPN 202 or permission of instructor.

A close study of a selected topic in Spanish. May be repeated if a different topic is offered. Depending on the topic this course may substitute for courses required of the Spanish minor or major.

**SPN 265D - Latino Culture in the United States, 3 credit hours**

**Notes:** This course will be offered in English.

This course explores the diversity of the Latino experience across different regions in the United States. Course readings will not only include literary texts, but also work by scholars in Latino Studies, Linguistics, Anthropology, and Urban Studies. Students will examine important moments in Latino cultural history including the United Farmworkers Movement, the Los Angeles Mural project, a variety of musical traditions, the consolidation of Spanglish, and the emergence of what has been called "Latino" literature. In addition to studying these expressions of Latino culture in the United States, students will also consider how new technologies (globalized media, social media, etc.) have impacted the development of more globalized Latino identities.

**SPN 270S - Spanish for Healthcare Providers, 3 credit hours**

**Prerequisite(s):** SPN 102 or higher level language course

Spanish for Healthcare Providers is designed to give students a fundamental background in the Spanish that is spoken in healthcare settings and a greater understanding of Latino culture in the United States. More broadly, this

course asks students to consider the legal, ethical, and cultural challenges of delivering health care to a culturally and linguistically diverse population. Through conversation practice, simulated oral situations, readings, vocabulary exercises, exams, and short papers in both English and Spanish students will learn to communicate in Spanish in a wide range of situations pertinent to health-related scenarios.

**SPN 294 - Workshop in Spanish, .5 credit hours**

**Notes:** May be repeated for credit.

**Prerequisite(s):** SPN 102 or equivalent recommended.

Practicum in Spanish oral expression. Designed to work on spontaneous interpersonal communication in a supportive and convivial setting. Focus on informal conversation, discussions, debates, and interviews. Spanish music, popular culture, and current events might serve as a springboard for conversation. The workshop might also involve staging a theatrical performance, and/or experiential Spanish activities in the Cleveland area during some minimesters. Students will participate in ongoing assessment of their skills and work towards making individual progress.

**Graded:** S/U

**SPN 295 - Independent Study, 1-4 credit hours**

**SPN 298X - Internship, Credit hours to be arranged**

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**SPN 301I - Advanced Spanish I, 3 credit hours**

**Notes:** Required of all Spanish majors. Equivalent to the former SPN-2211 course.

**Prerequisite(s):** SPN 202 or consent of the instructor.

This course emphasizes the development of students' oral proficiency in Spanish through the enrichment of vocabulary, improvement of pronunciation, and review of select grammar topics. Selected cultural and literary readings centering on contemporary Spain and Latin America will form the basis for classroom discussions and presentations. Speaking the language is greatly stressed at this level.

**SPN 302I - Advanced Spanish II, 4 credit hours**

**Notes:** Required of all Spanish majors. Equivalent to the former SPN-335I course.

**Prerequisite(s):** ENG 131, SPN 202 or equivalent.

This course will focus on further refining and strengthening students' command of advanced grammar topics studied in Intermediate II (SPN 202) while developing the ability to produce formal academic arguments in Spanish. Selected cultural and literary readings centered on contemporary issues in the Spanish-speaking world will form the basis for classroom discussions, writing workshops, essay assignments, and a formal research project.

**SPN 310I - Spanish Culture and Civilization, 3 credit hours**

**Prerequisite(s):** SPN 202 or equivalent.

A study of the historical and social development of Spanish culture and civilization.

**SPN 311I - Spanish-American Civilization, 3 credit hours**

**Prerequisite(s):** SPN 202 or equivalent.

A study of the historical, political, economic and cultural development of Latin America.

**SPN 375I - Survey of Spanish Literature, 3 credit hours**

**Prerequisite(s):** SPN 302I or equivalent.

A study of the major literary movements, representative authors and selections from their works from the 12th century to the 20th century. Short stories, poetry, essays and the theater are included.

**SPN 376I - Survey of Spanish-American Literature, 3 credit hours**

**Prerequisite(s):** SPN 302I or equivalent.

A study and interpretation of a select number of major literary works from Latin America.

**SPN 395 - Independent Study, 1-4 credit hours****SPN 398X - Internship, Credit hours to be arranged**

The for-credit internship registration process is handled via the Career Center Handshake platform. To register your internship for credit, please contact Career Center at [career@bw.edu](mailto:career@bw.edu).

**SPN 463 - Seminar, 3 credit hours**

**Prerequisite(s):** Advanced standing and permission of instructor.

SPN 463 is intended to be a capstone seminar which builds on a significant understanding of Hispanic Studies. Topics may vary. Students may take the course twice if different topics are offered.

**SPN 495 - Independent Study, 1-4 credit hours****SPN 498X - Internship, Credit hours to be arranged**

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## Sport Management

**SPM 223 - The History of Sport, 3 credit hours**

This course offers a study of history of American and International Professional, Recreational and Collegiate Sport. Primary areas of study include the historical significance of past events and how they have shaped the present development of professional, collegiate and recreational sports.

**SPM 233 - Sport in Society, 3 credit hours**

This course is designed to encourage students to critically analyze how sport relates to general features of social relations and to provide insight into the institutional arrangements and cultural values of US society. The course is framed by a critical evaluative perspective, which provides opportunities for students to examine how social class, ethnicity, race and gender relations contour sport practices. The underlying assumption of the course is that sport practices can both reproduce and transform dominant ideologies and stereotypes existing in US society.

**SPM 243 - Introduction to Sport Management, 3 credit hours**

This course is designed to be the foundation or introductory course for sport management majors. The historical development of sport management as a profession and as an academic discipline is traced. The diverse variety of opportunities in sport management is presented. Selected functional areas of contemporary sport management are surveyed relative to supervisory responsibilities of the sport management professional.

**SPM 244 - Sport Research & Analytics, 3 credit hours**

**Prerequisite(s):** SPM 243 and MTH 120/121 or higher

Research and analytics both play an increasingly large role in the operations of sport organizations. By looking at the theory, development, application of research and statistical concepts, and data analytics, this course will explore how sport organizations utilize research and data in the creation of predictive and decision making models. Additionally the course considers the application of research and analytics in sport for purposes of in-game strategy, player performance, team management, sport operations, marketing research, and fantasy competitions, among many other topics.

**SPM 245 - Sport Technology, 3 credit hours****Prerequisite(s):** SPM 243

This course helps students develop the technological savvy to work in a variety of sport contexts from a team video department to marketing, public relations, or social media. This course will guide students through the basics of video editing, image creation and modification, and layout development which will allow them to contribute to a variety of departments across sport organizations.

**SPM 340 - Program Organization & Administration, 3 credit hours****Prerequisite(s):** Junior/Senior standing or consent of instructor

This course examines management and administrative issues as they relate to sport and recreation programs, departments, and organizations. Topics include the nature of management and leadership, organizational structure, labor and staffing issues, governance & operations, program budgeting and resource planning, strategic management, scheduling, and program development.

**SPM 343 - Legal Issues in Sport Management, 3 credit hours****Prerequisite(s):** SPM 243 or consent of instructor. Legal Studies minors may substitute POL 207 for the prerequisite.

This course is designed to focus on legal issues and interpretation of the law as it applies to sports and recreation. In particular, students will be exposed to the legal responsibilities that impact the decision making and risk management processes in sports and recreation organizations. Topics include contracts, torts, regulation of sports, and legal principles as applied to the administration and management of sports programs.

**SPM 344 - Sport Management & Media Relations, 3 credit hours****Prerequisite(s):** ENG 131, SPM 243 or consent of instructor

The content of the course focuses primarily on print and broadcast media, and sports journalism, and includes study of the public relations responsibilities of coaches, athletic directors, and the sports information director.

**SPM 346 - Sport Marketing, 3 credit hours****Prerequisite(s):** SPM 243 and MKT 230 (MKT 230 may be taken concurrently)

Principles of marketing sport at the amateur, collegiate, and professional levels are examined, with special emphasis placed on consumer behavior, promotional licensing, sponsorship, fundraising, and the understanding of sport as a product.

**SPM 348 - Ethics in Sport Management, 3 credit hours****Prerequisite(s):** SPM 223, SPM 233 & SPM 243

This course is designed to link principles of moral reasoning, social responsibility, and personal values to choices made by participants, spectators and sport administrators. Specific areas for consideration include violence in sport, racial equality, gender equality, honesty and fair play, and ethical considerations in sport technology.

**SPM 349 - The Industry of Sport, 3 credit hours****Prerequisite(s):** Core Math, SPM 243 or HTM 240, ECN 120 or ECN 121, and ACC 211 or ACC 213, or consent of instructor

Issues of financial management in sport and sport-related industries are examined. The economic models of professional sport, Olympic sport, and collegiate athletics are presented, including issues related to financing, sources of revenue, athlete compensation, and the economic impact of each model of sport. This course fulfills the core quantitative extension requirement.

**SPM 350 - Professional Sport Industry, 3 credit hours****Prerequisite(s):** SPM 243, BUS 108, or MGT 205

This course is designed to examine aspects related to the professional sport industry. Primary areas of study include the organizational structure of teams (major and minor league), the responsibilities of each department, the role of league offices or governing bodies, and the impact of athlete agents. The course examines both team and individual sports. The course will benefit students who are pursuing a career in professional sports at the team level, league level, or as an agent.

**SPM 351 - Collegiate Athletics, 3 credit hours**

**Prerequisite(s):** SPM 243, BUS 108, or MGT 205

This course is designed to examine aspects related to collegiate athletics. Primary areas of study include the organizational structure of collegiate athletic departments, the responsibilities of each department, and the role of the NCAA or governing bodies. The course examines NCAA Division I, II, III and NAIA collegiate athletics. The course will benefit students who are pursuing a career in collegiate athletics at the administrative level or coaching level.

**SPM 353 - Sport Sales and Sponsorship, 3 credit hours**

**Prerequisite(s):** SPM 243 and junior or senior standing

This course is designed to offer students the opportunity to gain real-world experience in the sales process of major professional sports organizations. This course will put into practice the fundamentals and background in ticket sales and sponsorship sales, the sales process, and the importance of customer service and retention learned in previous coursework. The course presents the opportunity for students to sell products that are unique to the sport industry. The course will benefit students who are pursuing a career in sports or would like to work for a team, where the primary source of revenue is ticket sales and sponsorships.

**SPM 360I - Global Sport Industry, 3 credit hours**

This course is designed to expose students to the expanding Global Sport Industry. The course focuses on the social, political, and economic impact and publications of sport internationally. A trip abroad is preceded by intensive lecture and discussion on the unique complexities of global sport.

**SPM 450 - Facility/Event Management, 3 credit hours**

**Prerequisite(s):** SPM 243 or HTM 240; and junior/senior standing or consent of instructor

This course is an examination of the management of sport and/or leisure events, including such components as planning, financial management, risk management, facility management, personnel management, and the administration, implementation and evaluation of the event.

**SPM 452 - Sport Management Capstone, 3 credit hours**

**Prerequisite(s):** Senior standing

This course is designed to be the final or among final courses taken in the required curriculum in sport management. Course activities and assignments will focus on synthesizing and integrating the knowledge and skills that the student has accumulated throughout the sport management curriculum.

**SPM 497X - Internship, Credit hours to be arranged**

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**SPM 510 - The Business of Sport, 3 credit hours**

This course provides a detailed overview of the various facets of sport industry from an operational and strategic perspective. The course will also explore the internal and external factors that impact the long-term and short-term business operations in the sport industry.

**SPM 511 - Sport Marketing, 3 credit hours**

Students gain an understanding of the various aspects of sport marketing: market research, promotions, advertising, public relations, and sport marketing strategy. The course will also explore the development of e-marketing strategies and e-business models as they apply to the marketing and branding of the sport product.

**SPM 512 - Sport Venue and Events Operations, 3 credit hours**

Course provides students with a comprehensive look into the managements of sport, entertainment, and convention facilities. The entire spectrum of this industry segment will be covered from feasibility studies and design to the contradicting, running, and selling of an event. Students will receive overviews of specific department and job tasks.

**SPM 550 - Economics of Sport, 3 credit hours**

This course will explore the general economic principles as they apply to the sport industry. Economic analysis is utilized to study sports markets: demand, supply and pricing, league organization, monopoly power and market failure, labor relations, labor market problems and remedies, public finance of sports.

**SPM 551 - Sport Analytics and Strategy, 3 credit hours**

This course will give students exposure to a variety of ways that data analysis can be applied in functional and strategic decision making within the sports industry. Time will be spent examining functional areas within a sport enterprise, including HR, IT, marketing, ticket sales, finance, legal, manufacturing, facility management, and event management.

## Sustainability

**SUS 150 - Humans & The Earth: Can We Coexist?, 3 credit hours**

**Prerequisite(s):** Core Math

This team taught course examines global environmental issues, such as climate, energy, development, biodiversity, and population from interdisciplinary perspectives. These perspectives will vary depending upon the academic disciplines of the three faculty members who instruct the course. The course satisfies the Interdisciplinary and Quantitative Extension requirements, and is counted towards the International requirement of the core. Humans and the Earth is also a required course for the Sustainability Program major, minor, and certificate.

**SUS 205 - Environmental Policy, 3 credit hours**

**Prerequisite(s):** ENG 131

An examination of the problems, options and issues generated by governmental efforts to address challenges to a safe environment. The course includes case studies drawn from both American and international experiences.

**SUS 250 - Sustainability for the Professional: Tools, Methods, and Credentials, 3 credit hours**

**Prerequisite(s):** Core Math

This course introduces students to the key tools, methods, and certifications expected of today's sustainability professionals. Sustainability as a field of practice has been developing standard expectations on the job market for more than a decade. This focuses on building sufficient competency in LEED (GA – Green Associate) standards and Six Sigma (Green Belt) for students to challenge the certification exams for those credentials after the course concludes. You will also gain working familiarity with the AASHE (Association for the Advancement of Sustainability in Higher Education) STARS (Sustainability Tracking and Assessment Rating System). As such, you will be able to conduct real world assessments of systems and structures that are sought after skills on the job market.

**SUS 273 - Environmental Ethics, 3 credit hours**

An exploration of the ethical issues associated with the impact of human activity on the environment, eco-systems, and biodiversity. Course addresses broad questions such as: how should we conceive our relationship to the natural environment? Does sustainability demand a new biocentric ethic? Do non-humans (e.g. other animals, natural objects) have rights? What responsibilities do we have to future generations? Students will also explore some specific issues (e.g. energy, food production), their personal obligation to sustainable living, and the local context.

**SUS 295 - Independent Study, 1-4 credit hours****SUS 298X - Sustainability Internship, Credit hours to be arranged**

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**SUS 340 - Biomimicry- Nature Inspired Product Design, 3 credit hours**

Biomimicry is an emerging field that is encouraging scientists, engineers, social scientists, and inventors to look more closely at nature's way of doing things as more sustainable than our human way. Nature has a rich and largely



unexplored library of technologies that process and manage information, materials and energy. Students will both engage in the process of investigation as well as learn about opportunities for applications in various professional and vocational fields, thus broadening their career choices and desires. Students will have unique opportunity to learn and experience how biomimicry inspires and makes changes to various human activities and disciplines: business or organizational managers, architects, engineers, automotive and airplane industry, sustainable energy designers, biologists, entrepreneurs, builders and policy makers. Biomimicry is inspiring these various fields and societies to be more responsible and resilient, and to find and apply solutions to old and new problems in a more sustainable way.

### **SUS 363 - Integrated Sustainability Topics, 3 credit hours**

**Prerequisite(s):** *At least nine (9) credit hours of completed courses listed in the Sustainability major with three different prefixes; and Humans and the Earth (SUS 150) or at least 45 completed credit hours.*

Contemporary sustainability issues are inherently complex and demand the integration of knowledge and skills from different disciplines to fully address them. Courses will take an integrative, in-depth approach to investigate one topic or theme in sustainability. In order to facilitate an interdisciplinary learning experience, the courses will be taught by two faculty members from different disciplines. Specific topics will vary.

### **SUS 395 - Independent Study, 1-4 credit hours**

### **SUS 398X - Sustainability Internship, Credit hours to be arranged**

The for-credit internship registration process is handled via the Career Center Handshake platform. To register your internship for credit, please contact Career Center at [career@bw.edu](mailto:career@bw.edu).

### **SUS 400 - Sustainability Capstone, 3 credit hours**

This team-taught course explores a prominent sustainability theme to be determined by the instructors. Examination of the theme will be broadly and intentionally interdisciplinary, drawing as widely as possible upon knowledge, skills, and learnings obtained in those courses in the major. It will have an inherent problem-solving focus based upon a "real world" sustainability issue. The course will include a significant team-based project that engages students in an issue currently faced by significant social actors. Thus, it aims not only to integrate disciplinary knowledge and skills but also to apply those disciplines to real-life sustainability practice. One of its aims is to provide graduates with a significant team based, problem-solving experience that demonstrates important competencies in the emergent field of sustainability.

### **SUS 495 - Independent Study, 1-4 credit hours**

### **SUS 498X - Sustainability Internship, Credit hours to be arranged**

The for-credit internship registration process is handled via the Career Center Handshake platform. To register your internship for credit, please contact Career Center at [career@bw.edu](mailto:career@bw.edu).

## **Theatre**

### **MUC 368 - Artists and the Individual, 3 credit hours**

**Prerequisite(s):** MUC/THE 367

This course introduces skills required for success as a Teaching Artist including intermediate level training in: theatre as a therapeutic tool; pedagogy & educational theory; social/emotional learning; self-care & collective care; creating a safe & creative classroom; and de-escalation & co-regulation.

### **THE 100 - Introduction To Theatre, 3 credit hours**

**Notes:** Required of all theatre minors

An introduction to the major ideas, influences and practices which shape theatre today. The emphasis of the course is to develop the student's critical ability to evaluate and appreciate theatre performance.

### **THE 101 - Fundamentals of Acting, 3 credit hours**

The course aims to provide the acting student with a basic working knowledge of the craft of acting. This will be realized through a combination of work on theatre games, discussion, exercises to develop the actor's imagination, and basic text and scene work. The objectives of this course are to develop the ability to behave truthfully in an imagined set of given circumstances; to develop immediate response to stimuli in a truthful manner; to affect others in a purposeful manner, and to build a common vocabulary of acting terminology and stage geography.

**THE 102 - Intro to Scene Study, 3 credit hours**

**Prerequisite(s):** THE 101; BFA in Acting majors only or permission of instructor.

Using American classic realist plays, students break down each assigned scene intoactable choices, which are founded in imaginative use of action and objective. Students research historical context, and develop awareness of period and genre.

**THE 103 - Voice for the Actor 1, 3 credit hours**

The course aims to develop a fundamental understanding and application of how the voice works, and implements practices to maintain vocal health. The course explores and implement the direct connection that relaxation, alignment and breath have with placement, tone and resonance. Simple text will be utilized to apply techniques learned. The class also begins the study of the sounds of spoken English in depth using the International Phonetic Alphabet (IPA).

**THE 104 - Voice for the Actor 2, 3 credit hours**

**Prerequisite(s):** THE 103; BFA in Acting majors only or permission of instructor.

This course continues the study and implementation of physical practices learned in Voice for the Actor 1, as well as further exploration and usage of the International Phonetic Alphabet (IPA). Shakespearean sonnets will be used in both transcription and presentation practice. Focus on developing ear training, through oral practice and dictation, will further solidify the student's use of IPA as a valuable tool.

**THE 105 - Movement for the Actor 1, 3 credit hours**

This course invites students to examine the physical life of the actor. Students will experience physical conditioning to expand lung capacity for speaking classical text as well as core strength training for injury prevention and expansion of physical choice making. Students will explore alignment, balance and imbalance, locomotor and isolated movement, coordination and spatial awareness. The work will include the concept of neutrality and the language of gesture.

**THE 106 - Movement for the Actor 2, 3 credit hours**

**Prerequisite(s):** THE 105; BFA in Acting majors only or permission of instructor.

This course invites students to further examine the physical life of the actor. Students will experience strength training and yoga for preparing and restoring the body for the demands of physical acting. This class includes a research/performance project into the elements (earth, fire, air, water) as a means to develop character and to pursue transformational acting.

**THE 110 - Fundamentals of Theatrical Design & Production, 3 credit hours**

This class will introduce students to the fundamental concepts and practices involved in theatrical design and production. Students will explore each technical discipline (Scenic, Costumes, Lighting, and Sound) as both artist and craftsperson; engaging in all aspects of the process by which a design is conceived, articulated, and delivered to the stage.

**THE 135 - Singing for Actors, 2 credit hours**

**Notes:** Required of all theatre majors in the acting track.

An introduction to the basic elements of singing, including physiological aspects of the singing process and expressive singing with an emphasis on development of individual performance skills. The purpose of the course is to aid students in becoming more marketable as professional actors.

**THE 150 - Makeup for the Stage, 1 credit hour**

**Notes:** Required of all theatre majors in the acting and directing track.

A basic course in the fundamental principles and practices of designing and applying stage makeup. Emphasis will be placed on the development of application techniques and familiarization with materials. Additional lab hours required.

**THE 151 - Introduction to Acting, 2 credit hours**

**Notes:** Required of all theatre minors

A basic course designed to introduce non-majors to the principles of acting. Emphasis is placed on body control, interpretation, improvisation and scene work.

**THE 154 - Creative Dramatics, 2 credit hours**

A course designed to familiarize the elementary/secondary school teacher with the use of creative dramatics in the classroom. Theory as well as practical application of the arts and crafts of theatre will be considered.

**THE 161 - On-stage Experience, 1-2 credit hours**

After being cast in a play, a student may register for credit for on-stage experience. Registration with instructor's permission only.

**Graded:** S/U

**THE 162 - Backstage Experience, 1-2 credit hours**

**Notes:** Two hours required of theatre majors and minors and dance minors.

A student may register for backstage work on plays being offered during the semester. Hours toward credit can include working in the scene or costume shop or crewing a show. Registration with instructor's permission only.

**THE 180 - Stagecraft, 3 credit hours**

**Notes:** Required of all theatre majors

A study of the principles and practices of stage scenery construction. Emphasis is placed on utilization of materials and appropriate technology. Both lecture and laboratory experience is included.

**THE 190 - Script Analysis, 3 credit hours**

**Notes:** Required of all theatre majors and minors.

An introduction to various techniques of script analysis, applying them to specific play scripts in a quest to extract playable ideas for the theatre artist. Through both writing and discussion, building a vocabulary for articulating one's personal response to a play and understanding a script as a blueprint for performance.

**THE 201 - Audition Techniques, 3 credit hours**

**Prerequisite(s):** THE 101 and THE 102 or permission of instructor.

Audition Techniques prepares students for careers in the entertainment industry by building audition skills. Students prepare for a variety of genre-specific professional auditions and callbacks, build a repertoire of monologues and songs to use in general auditions, and begin to set measurable career goals. Audition settings will vary from season generals to prepared readings, from live callbacks with a reader to video submissions for theatrical work, as well as film, commercial, and voice over audition formats. In-class discussions will include union affiliation, agencies, management, graduate schools, internships, and major city market comparisons. A studio fee covers headshot session with professional photographer.

**THE 202 - Intermediate Scene Study, 3 credit hours**

**Notes:**

BA in Acting/Directing majors only in Spring.

BFA in Acting majors only in Fall.

**Prerequisite(s):** THE 201 or permission of instructor.

This is a scene study class based in dramatic literature from the genre identified as "classical realism." Scene work is from the playwrights Henrik Ibsen and Anton Chekhov. Also included in the course will be a study of the life and

culture of 19th C Norway and Russia and the various cultural and historical forces that led to the creation of these great works of dramatic literature.

**THE 203 - Voice for the Actor 3, 3 credit hours**

**Prerequisite(s):** THE 103 and THE 104; BFA in Acting majors only or permission of instructor.

Continuing the usage of tools learned in Voice for the Actor 1 & 2, students will transcribe and present verse speeches on a regular basis. Additionally, this course will embark upon the usage of the International Phonetic Alphabet (IPA) in developing dialect/accents for the stage. Received Pronunciation (RP) and American Southern dialects will be focused upon, and students will transcribe and present assigned texts.

**THE 204 - Voice for the Actor 4, 3 credit hours**

**Prerequisite(s):** THE 203; BFA in Acting majors only or permission of instructor.

This course will see the culmination of physical practices and phonetic usage learned, as students will explore text in varied dialects/accents. Independent research and presentation on geographically specific sounds will give students practical application of techniques learned. Additionally, monologue and scene work will provide opportunities to demonstrate physical and vocal flexibility learned within the sequence.

**THE 205 - Movement for the Actor 3, 3 credit hours**

**Prerequisite(s):** THE 105 and THE 106; BFA in Acting majors only or permission of instructor.

This course invites students to deepen their exploration of physical acting. Students will experience working with masks (neutral, larval) as a means to develop character and create story. This class includes a research/performance project into animal movement and behavior to develop character and pursue transformational acting.

**THE 206 - Movement for the Actor 4, 3 credit hours**

**Prerequisite(s):** THE 205; BFA in Acting majors only or permission of instructor.

This course invites students to further deepen their exploration of physical acting. Students will experience working with masks (expressive, half-masks) as a means to develop character and create story. This class includes a research/performance project learning and linking Lecoq's 20 moves to pursue efficiency, gain strength and balance, imagine traffic patterns for blocking and adherence to a physical text.

**THE 220 - Rendering Techniques, 3 credit hours**

**Notes:** Required of all theatre majors in the design and technical studies track.

An introduction to rendering techniques required to communicate in technical theatre and design. Students will be encouraged to explore a variety of mediums and discover a personal style best suited to their artistic aesthetics.

**THE 240 - Vectorworks, 3 credit hours**

**Notes:** Required of all theatre majors in the scenic/lighting design and technical studies track.

This course covers the basics of learning how to draw in Vectorworks, a software program used in theatrical drafting, technical drawing and 3D modeling.

**THE 251 - Portfolio Presentation, 2 credit hours**

**Notes:** Required of all theatre majors in the design and technical studies track.

**Prerequisite(s):** Junior Status

Students will learn the fundamentals of creating a theatre design and technical portfolio. Emphasis will be placed on the presentation and critical evaluation of the artistic aesthetics. Students will also be required to create a professional website devoted to their creative and professional work.

**THE 263(H) - Seminar, 2-4 credit hours**

The study of topics relevant to the theatre. May be repeated more than once, provided the subject or topic is different.

**THE 264 - BW Theatre at Grafton, 3 credit hours****Prerequisite(s):** Sophomore Standing

BW Theatre at Grafton aims to demonstrate the restorative power of theatre and the role theatre has in contributing to a greater sense of social justice. It is an opportunity for students to learn skills that will empower them to lead play-building and devising exercises in a group setting. Through personal storytelling via conversation and interviews with "resident students" (inmates), the leading of theatre games and exercises, the listening of poetry, creative writing, playwriting and play analysis, students will work through every aspect of the generating process of play building. By participating in the development of a piece of theatre along-side men who are living a unique experience, students will gain a broader understanding of the social landscape and what it means to be incarcerated in this country. Through listening and participating in storytelling, "outside students" and "resident students" will develop a mutual respect and understanding for each other's humanity. The class will culminate into the performance of a devised piece of theatre with the resident students at the Grafton Correctional Institution.

**THE 267 - Artists and the Classroom, 3 credit hours****Prerequisite(s):** Must be pursuing a performing arts major or minor (music, theatre, and/or dance).

This course introduces skills required for success as a Teaching Artist including introductory training in trauma-informed care, adverse childhood experiences, the power of play, de-escalation & co-regulation, creating a safe & creative classroom, and self-care.

**THE 270 - Collaborative Studies in Theatre, 3 credit hours****Notes:** Required of all theatre majors and minors.**Prerequisite(s):** THE 100 or THE 110; and THE 190

This course is designed to improve the student's ability to collaborate on theatrical material by exploring the intellectual process required to communicate with colleagues. Emphasis will be placed on developing each student's artistic sensibility and their ability to articulate conceptual ideas.

**THE 277 - Stage Combat I, 3 credit hours**

An introductory course in the design, practice, and performance of theatrical violence. This course will focus on unarmed (or hand to hand combat) and single sword (or single rapier). Students will explore the techniques used to create the illusion of danger and the means by which we use violence to tell stories on the stage and screen. Focus will be places on safety, partnering and physical specificity. The course will culminate in a final performance of choreography set to a scene from classic dramatic literature.

**THE 283 - Stage Lighting Technology, 3 credit hours**

An introduction to the concepts, technology, and practices involved with the implementation of modern stage lighting. Topics include conventional and intelligent lighting fixtures; applied photometrics; data protocol and management; network structures; console programming; workflow strategies; relevant software; lighting graphics, and documentation standards. Emphasis will be placed on the functionality and practical application of stage lighting equipment in the professional world. Offered in alternate years.

**THE 285 - Stage Management, 2 credit hours****Notes:** Required of all theatre majors in the stage management/directing tracks.**Prerequisite(s):** THE 110 required for Theatre majors. THE 100 fulfills the prerequisite for Theatre minors.

A study of the principles and practice of stage management in commercial and non-commercial settings. The course will explore such areas as scheduling, cue-calling, and rehearsal procedures.

**THE 286 - Theatre Management, 2 credit hours****Notes:** Required of all theatre majors in the stage management track.

A study of the principles and practice of theatre arts management in commercial and noncommercial applications. The course will explore such areas as philosophy, objective financing and theatre promotion.

**THE 288I - Theatre History I, 3 credit hours**

**Notes:** Required of all theatre majors.

**Prerequisite(s):** THE 110 or MUC 146. THE 100 fulfills the prerequisite for Theatre minors.

A survey of the origin and development of Western theatre.

**THE 289I - Theatre History II, 3 credit hours**

**Notes:** Required of all theatre majors.

**Prerequisite(s):** THE 110 or MUC 146

A study of the foundations of modern theatre including American theatre history.

**THE 290 - Fundamentals of Directing, 3 credit hours**

**Notes:** Required of all theatre majors in the acting and directing and stage management concentrations.

**Prerequisite(s):** THE 110 and THE 190

A study of the basic principles and techniques of directing for the stage: exploring the role of the director, script analysis for a director, and basic principles of approaching staging including practical lab experience in rehearsing and presenting a scene.

**THE 295 - Independent Study, 1-4 credit hours****THE 298X - Internship, Credit hours to be arranged**

Practical experience in any area of theatre. The for-credit internship registration process is handled via the Career Center Handshake platform. To register your internship for credit, please contact Career Center at [career@bw.edu](mailto:career@bw.edu).

**THE 301 - Acting on Camera, 3 credit hours**

**Prerequisite(s):** THE 202. BFA in Acting students or permission of instructor.

Students acquire proficiency in auditioning and acting on camera using commercial sides from network television and film. The course emphasizes professional preparation, camera awareness, intentional use of camera axis, constructive self-observation, and film study.

**THE 302 - Acting Shakespeare, 3 credit hours**

**Prerequisite(s):** THE 301 and BFA in Acting students or permission of instructor

Acting Shakespeare allows the student to work on famous scenes and monologues of some of the most compelling characters in the theatre. The student will be immersed in performing classical, language-based texts that provide an acting approach to tackle complex, dense language and enhance the understanding of how that language is performed onstage. Classes would stress how to unlock the sense and meaning of the language and make it understandable to a modern audience. In this class, students develop towards mastery of acting these texts through energetic, participatory exercises, enhancing their understanding of rhetorical patterns, sense stress, and scansion. Imagery, rhetoric, and rhythm in the language stimulate the actor to play clear, decisive actions.

**THE 303 - Business of Acting, 2 credit hours**

**Prerequisite(s):** THE 101

Students will develop a five year business plan for post graduation, and create an individual brand and marketing approach for their business. They will create marketing tools such as a website, head shot, and resume, all that meet current industry standards.

**THE 345 - Intermediate Acting for Music Theatre Students, 3 credit hours**

**Prerequisite(s):** MUC 246X

A scene study class based in the genre identified as contemporary realism. Scenes will be drawn from the contemporary works of playwrights such as, but not limited to, Branden Jacobs-Jenkins, Robert Askins, Annie Baker, Dominique Morisseau and others. Through the practice of moment-to-moment truth and various acting technician pedagogies the student will learn to create a grounded, truthful, and connected character within the context of the contemporary realism genre.

**THE 361 - Music Theatre, 2 credit hours**

**Prerequisite(s):** THE 101 and THE 135 or permission of instructor.  
Study and practice of fundamentals of musical theatre.

**THE 363 - Seminar, 1-4 credit hours**

The study of topics relevant to the theatre. May be repeated more than once, provided the subject or topic is different.

**THE 365IE - Seminar in London, 3 credit hours**

Exploration course.

**THE 367 - Artists and the Community, 3 credit hours**

**Prerequisite(s):** MUC/THE 267

This course introduces skills required for success as a Teaching Artist including intermediate level training in: diversity, equity & inclusion; school & community resilience; restorative justice, culturally responsive teaching, creating a safe & creative classroom; and de-escalation & co-regulation.

**THE 368 - Artists and the Individual, 3 credit hours**

**Prerequisite(s):** MUC/THE 367

This course introduces skills required for success as a Teaching Artist including intermediate level training in: theatre as a therapeutic tool; pedagogy & educational theory; social/emotional learning; self-care & collective care; creating a safe & creative classroom; and de-escalation & co-regulation.

**THE 375 - Costume Construction I, 2 credit hours**

**Notes:** Required of all theatre majors in the costume design track.

Students will be introduced to the methods and materials used to create theatrical costumes. Emphasis will be placed on developing skills in millinery, dyeing, draping, and costume construction.

*Additional lab hours required.*

**THE 376 - Costume Crafts, 3 credit hours**

An exploration of the craft skills and techniques necessary to create costume effects not possible to be obtained by basic costume construction techniques. Students will gain skills and knowledge connected to the following critical and industry standard techniques: Millinery (Fos Shape and Buckram), Mask Making, Dye Work, Distressing, Leather Work, and unconventional materials, as well as their safe use in the theatrical setting. Additional lab hours required.

**THE 377 - Stage Combat II, 3 credit hours**

**Prerequisite(s):** THE 277

This class builds off the philosophies of Stage Combat I and introduces students to an advanced technique of Rapier and Dagger style theatrical combat. Focus is on safety, communication, precise technique and ways to build choreography into a performance ready and polished piece of work. The course will culminate in a final performance of choreography set to a scene from classic dramatic literature.

**THE 382 - Scenic Design, 3 credit hours**

**Notes:** Required of all theatre majors in the design and technical studies and stage management tracks.

**Prerequisite(s):** THE 270

A study of the application of the elements of basic design to the art of scenic design for the theatre. The course explores the design process from the evolution of the design concept to the execution of renderings and model making.

**THE 383 - Lighting Design, 3 credit hours**

**Notes:** Required of all theatre majors in the design and technical studies and stage management tracks.

**Prerequisite(s):** THE 270

A study of the theories and practice of lighting design with emphasis on the functions and the controllable properties

of light. The course is designed to acquaint the student with practical application and effective utilization of lighting design.

**THE 384 - Sound Design, 3 credit hours**

An exploration of the aesthetic and purposeful use of sound in the performing arts. Students will learn how a designer develops, communicates, and executes a creative sound design for the stage. Students will have the opportunity to record, engineer, and execute their own creative content. Emphasis will be placed on sound as an artistic medium and how it can be used to support a story and enhance the audience experience.

**THE 385 - Costume Design, 3 credit hours**

**Notes:** Required of all theatre majors in the design and technical studies track.

**Prerequisite(s):** THE 270

This course is designed to introduce the student to the fundamentals of costume design. Emphasis will be placed on historical research, applying conceptual thought, and developing character. Students will be exposed to costuming materials and design techniques, as well as historical costume period.

**THE 390 - Intermediate Directing, 3 credit hours**

**Notes:** Required of all theatre majors in the acting and directing and stage management concentrations.

**Prerequisite(s):** THE 270 and THE 290

A continuation of the study of principles and techniques of directing for the stage with a focus on scene work in the context of a lab experience; to work on developing and articulating a personal aesthetic; to explore useful directing tools via practical hands-on experience.

**THE 395 - Independent Study, 1-4 credit hours**

**THE 398X - Internship, Credit hours to be arranged**

The for-credit internship registration process is handled via the Career Center Handshake platform. To register your internship for credit, please contact Career Center at [career@bw.edu](mailto:career@bw.edu).

**THE 401 - Advanced Scene Study, 3 credit hours**

**Prerequisite(s):** THE 302 and Senior Standing

Students receive scene partner assignments from the instructor, then select and prepare their own scenes from plays written after 2004. The course emphasizes independent, thorough professional preparation and work method. The course examines what the student's professional and interpretive process is, highlights strengths, and addresses any weaknesses.

**THE 402 - BFA Showcase, 3 credit hours**

**Prerequisite(s):** THE 401 and Senior Standing

Students rehearse and prepare a Senior Showcase for industry professionals.

**THE 445 - Advanced Acting for Music Theatre Students, 3 credit hours**

**Prerequisite(s):** MUC 346

A Comedy Styles course that examines the fundamentals of comedic acting through the lenses of time period and style. Students will investigate different types of comedy, including both situational and farcical styles on their feet in a classroom setting, with an emphasis on improvisation.

**THE 459X - Faculty-Student Collaboration, Credit hours to be arranged**

**THE 460 - Acting IV, 3 credit hours**

**Notes:** Required of all theatre majors in the acting and directing track.

**Prerequisite(s):** THE 202 or MUC 246X

An advanced acting course focusing on performance and analysis of period scenes and monologues.



**THE 463 - Seminar, 2-4 credit hours**

The study of advanced topics relevant to the theatre. May be repeated more than once, provided the subject or topic is different.

**THE 467 - Teaching Artist Capstone, 3 credit hours**

**Prerequisite(s):** MUC/THE 368

This capstone course allows students to integrate their learning through a mentored internship with a teaching artist in a community or school setting. In addition, all students will meet weekly in class to reflect on their engagement in the field and prepare for future teaching.

**THE 475 - Costume Construction II, 3 credit hours**

**Notes:** Required of all theatre majors in the costume design track.

**Prerequisite(s):** THE 375

Students will explore advance techniques in costume construction. Emphasis will be place on costume draping with accuracy in historical periods.

*Additional lab hours required.*

**THE 480 - Advanced Stagecraft, 3 credit hours**

**Notes:** Required of all theatre majors in the scenic/lighting design and technical studies track.

**Prerequisite(s):** THE 180

An advanced course in the art of stagecraft. Topics of study may include but are not limited to advanced scene construction, welding, rigging, props construction, lighting and scene painting.

*Additional lab hours required.*

**THE 485 - Advanced Stage Management, 3 credit hours**

**Notes:** Required of all theatre majors in the stage management track.

**Prerequisite(s):** THE 285

An advanced course focused on the professional stage manager covering topics on advanced management aspects such as rehearsal to performance, collaboration between directors and designers, how to lead a run crew, and practical skills from paperwork to calling a show.

**THE 490 - Advanced Directing, 3 credit hours**

**Prerequisite(s):** THE 390

This class culminates in a 10-Minute Play Festival at the end of the semester, with each student directing a 10-minute play and collaborating with the other directors to create the festival. This hands-on experience in staging and producing one's work as a director includes planning the goals, selecting the content and managing all details of the festival.

**THE 491 - Honors Courses, Credit hours to be arranged****THE 492 - Honors Courses, Credit hours to be arranged****THE 495 - Independent Study, 1-4 credit hours****THE 498X - Internship, Credit hours to be arranged**

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## Urban Studies

**UST 295 - Independent Study, 1-4 credit hours**

**UST 298X - Internship, Credit hours to be arranged**

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**UST 395 - Independent Study, 1-4 credit hours**

**UST 398X - Internship, Credit hours to be arranged**

The for-credit internship registration process is handled via the Career Center Handshake platform. To register your internship for credit, please contact Career Center at [career@bw.edu](mailto:career@bw.edu).

**UST 495 - Independent Study, 1-4 credit hours**

**UST 498X - Internship, Credit hours to be arranged**

The for-credit internship registration process is handled via the Career Center Handshake platform. To register your internship for credit, please contact Career Center at [career@bw.edu](mailto:career@bw.edu).