

# 2019 - 2020 UNDERGRADUATE CATALOG



FAIRMONT STATE  
UNIVERSITY™

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## **Fairmont State University**

### **2019-2020 Academic Calendar**

#### **2019 Fall Semester**

Wednesday-Friday, August 14-16 Opening Session and Professional Development Thursday,  
August 15 Move-In Day  
Friday, August 16 Student Convocation  
Monday, August 19 Classes Begin  
Friday, August 30 PR or NP Grades Due  
Monday, September 2 Labor Day, No Classes  
Friday, September 13 Early Alert Grades Due  
Friday, October 11 Midterm  
Friday, October 11 Fall Break, No Classes  
Tuesday, October 15 2nd 8-week Classes Begin Monday-Friday, November 25-29  
Thanksgiving Recess, No Classes Friday, December 6 Last Day of Classes Monday-  
Friday, December 9-13 Final Exams  
Saturday, December 14 Commencement  
Tuesday, December 17 Last Day for Faculty

#### **2020 Spring Semester**

Wednesday-Friday, January 8-10 Opening Session and Professional Development Monday, January  
13 Classes Begin  
Monday, January 20 Martin Luther King Day, No Classes  
Friday, January 24 PR or NP Grades Due  
Friday, February 7 Early Alert Grades Due  
Friday, March 6 Midterm  
Monday-Friday, March 9-13 Spring Break, No Classes Monday, March 16  
2nd 8-Week Classes  
Friday, April 10 Spring Holiday, No Classes  
Friday, May 1 Last Day of Classes  
Monday-Friday, May 4-8 Final Exams  
Saturday, May 9 Commencement  
Tuesday, May 12 Last Day for Faculty

#### **2020 First Summer Term (6 weeks)**

Monday, May 18 Classes Begin  
Monday, May 25 Memorial Day, No Classes  
Thursday, June 26 First Summer Term Ends

#### **2020 Second Summer Term (6 weeks)**

Monday, June 29 Classes Begin  
Thursday, August 6 Second Summer Term Ends

#### **2020 Full Summer Term (12 weeks)**

Monday, May 18 Classes Begin  
Thursday, August 6 Term Ends

# Introduction

Fairmont State (Fairmont State), a comprehensive, multi-site, selective institution offers a quality education in a diverse and supportive learning environment that fosters individual growth, professional and career development, lifelong learning, global understanding, and a commitment to excellence in academic and community pursuits. Serving the citizens of North Central West Virginia and beyond, Fairmont State is a student-centered institution of first choice among students who desire a flexible and relevant learning experience. The University provides a well-rounded education, enabling students to gain the knowledge and skills needed for self-fulfilling, responsible citizenship and employability in a rapidly changing global environment.

The University concentrates its energies and resources on its students, many of whom are the first generation of their families to attend college, adults returning to college or enrolling in higher education for the first time, and transfer students from community and technical colleges. The University, therefore, offers its diverse student body a wide range of programs, flexible scheduling, and support services, all designed to foster success in the modern world. To strengthen intellectual development, all students pursuing a degree at Fairmont State are engaged in a General Studies program, a body of coursework designed to expand their knowledge of civilization, society, scientific inquiry, and artistic expression while preparing them to think critically and communicate clearly. Through these studies, students also explore the interrelationships among disciplines and prepare for a lifetime of learning.

The University is committed to student learning and focuses its resources on programs that prepare students for careers and advanced education in West Virginia and beyond. Along with its significant history of teacher education, Fairmont State provides a broad spectrum of degree options in business, fine and liberal arts, and social and natural sciences and offers programs with specialized accreditation in engineering technology

and nursing. Fairmont State provides seamless transitions from public schools or certificate programs or associate degrees to baccalaureate degrees. In keeping with its tradition of academic excellence, the University promotes graduate education by offering select graduate programs.

Fairmont State is closely identified with its community. Partnerships with business and industry, public schools, government agencies, and other organizations contribute to the economic, cultural, and social development of the region. Through these community relationships and educational programs, the University fosters enlightened and productive citizenship in its immediate locale, the region, and the world.

## MISSION STATEMENT

The Fairmont State family educates, enriches, and engages students to achieve personal and professional success.

## VISION STATEMENT

Fairmont State aspires to be nationally recognized as a model for accessible learner-centered institutions that promote student success by providing comprehensive education and excellent teaching, flexible learning environments, and superior services. Graduates will have the knowledge, skills, and habits of mind necessary for intellectual growth, full and participatory citizenship, employability, and entrepreneurship in a changing environment.

## PHILOSOPHY AND OBJECTIVES

Fairmont State considers its broad objective to be the education of its students as intelligent and productive persons, capable of participating in and understanding the world of the twenty-first century. Accordingly, the University seeks to provide a suitable environment for free and responsible inquiry into the nature, sources, and implications of human knowledge and culture, and it challenges students to promote their own intellectual, social, and personal development.

The University faculty serve this objective by guiding students in acquiring knowledge and by

maintaining a dialogue with them. The University fully supports the ideal of a well-educated society and upholds the academic freedom of its faculty and students, confident that the best interests of the community are served when the search for truth is imaginative and vigorous.

The University follows a liberal policy of student admissions and believes that it can help highly-motivated students to overcome many challenges in their academic preparation. Because its academic standards are high, the Fairmont State degree represents a level of achievement respected throughout the nation.

The University has a traditional interest in preparing teachers for public schools in West Virginia, as well as in other states. Recognizing the importance of able teachers to a progressive society, it requires outstanding academic performance of its teacher candidates and offers them sound professional training for elementary and secondary teaching supported by a strong partnership with a network of public schools.

Drawing many students from its immediate vicinity, the University welcomes the enthusiastic support it receives from Fairmont and surrounding areas. In return, it participates actively in community projects, shares its programs and facilities with the public, and serves the community as a center of information and culture.

Specifically, the mission of Fairmont State is to provide programs needed by those in its geographic service area, to the extent permitted by its financial and human resources, and its assigned role in the state system of public higher education. This mission is accomplished by meeting these objectives:

- Offering a broad range of traditional baccalaureate degree programs in the arts and sciences, teacher education, and business administration;
- Providing opportunities for occupationally-oriented baccalaureate study through expansion of existing engineering technology programs and the development of additional career-related curricula;
- Bringing selected study opportunities into communities in the University's service region through the use of the mass media, regional

educational centers, external degree programs, and other forms of nontraditional study;

- Encouraging a broad segment of the populace, including various age groups and the economically deprived, to avail themselves of educational opportunities;
- Serving the greatest number of students by holding University costs at the lowest possible level and providing financial support to those who need it to gain equal access to higher education;
- Relating the breadth of the curriculum to the availability of appropriate employment opportunities and the needs of business, industrial and public service agencies in the University's service area;
- Offering continuing education programs to provide career enhancement, cultural enrichment, and personal skill development;
- Providing advisory, counseling, and placement services to enable students to make satisfactory decisions about academic and personal problems and to make successful career and employment choices;
- Offering a variety of cultural, recreational, and social activities to complement academic pursuits.

## DESIRED PROFILE OF A FAIRMONT STATE UNDERGRADUATE

Students enrolled at Fairmont State should work to develop the following profile, consistent with the length and focus of their programs.

Students should:

- 1) Develop competence in the following skills to aid them in making decisions about personal values and career strategies: critical analysis, quantitative literacy, oral and written communication, reading, teamwork, information literacy, problem solving, and technological literacy.
- 2) Demonstrate proficiency in their major fields of study that will enable them to compete in the global job market and pursue additional levels of formal education.

- 3) Understand the responsibilities of citizens, participate in the democratic process, and contribute to their society.
- 4) Embrace and act upon an ethical view that respects the life, property, opinions, and feelings of others.
- 5) Acquire the knowledge and habits that lead to physical and mental health and well-being.
- 6) Understand the complementary nature of their liberal and professional studies and develop the capacity for independent, lifelong learning.
- 7) Acquire an informed appreciation of the arts, the humanities, and the social and natural sciences.
- 8) Develop sensitivity in matters of local and global social justice, respecting and appreciating differences among individuals and societies.

Our Core Values: SOAR

- Scholarship: To celebrate the joy and wonder of discovery.
- Opportunity: To grow, learn, engage, and contribute.
- Achievement: To reach personal and community goals.
- Responsibility: To fulfill obligations to ourselves, the learning community, our society, and the future.

## ACCREDITATION

Of great importance to the reputation of a university is how it ranks scholastically with other institutions. Successful accreditation status means that a university has been carefully evaluated and approved in its governance; in each curriculum and program of study; in the quality of its faculty; in the adequacy of facilities, library, equipment, and laboratories.

To assure its stature and academic excellence, a university obtains accreditation from both regional and national agencies and joins accrediting organizations relevant to its academic and professional programs.

Fairmont State is accredited by The Higher Learning Commission and is a member of the North Central Association, 230 S. LaSalle Street, Suite 7-500, Chicago, IL 60604-1411, (800) 621-7440 x105, <http://www.ncahlc.org>.

The Teacher Education program is approved by the West Virginia Board of Education and accredited by the National Council for the Accreditation of Teacher Education/Council for the Accreditation of Educator Preparation, 2100 Massachusetts Ave., Suite 500, Washington, DC 20036 (202) 223-0077. In addition, selected teaching specializations are nationally approved by their respective learned society and/or professional organization.

Selected programs in the College of Science and Technology are accredited by the Technology Accreditation Commission of the Accreditation Board for Engineering and Technology, 111 Market Place, Suite 1050, Baltimore, MD 21202-4012, (410) 347-7700. The following programs are currently accredited by TAC of ABET: A.S. and B.S. Civil, A.S. and B.S. Electronics, and A.S. and B.S. Mechanical Engineering Technology. In addition, the B.S. Occupational Safety program is accredited by ASAC of ABET.

The A.S. Nursing program is accredited by the West Virginia Board of Examiners for Registered Professional Nurses, 90 MacCorkle Avenue, SW, Suite 203, South Charleston, WV 25303, (304) 744-0900, Fax: (304) 744-0600, <http://www.rnboard@wv.gov> and the Accreditation Commission for Education in Nursing (ACEN), 3343 Peachtree Road NE, Suite 850, Atlanta, GA, 30326, (404)975-5000, <http://acenursing.org>; the B.S. Nursing program is accredited by the Commission on Collegiate Nursing Education (CCNE), One Dupont Circle, NW Suite 530, Washington, DC, 20036, (202) 887-8476, <http://www.aacn.nche.edu>.

The School of Business is accredited by the Accreditation Council for Business Schools and Programs (ACBSP) 11520 West 119th Street, Overland Park, KS 66213, (913) 339-9356, [www.acbsp.org](http://www.acbsp.org).

The University is also a member of the American Association of Colleges for Teacher Education, National League for Nursing, American Library Association, and Public Relations Society of America (PRSA) West Virginia Chapter.

## ABOUT FAIRMONT STATE

Located on a 120-acre main campus in the City of Fairmont, Fairmont State's roots reach back to the formation of public education in the state of West Virginia. The first private normal school in West Virginia was established to train teachers in Fairmont in 1865 by John N. Boyd, the school's first principal.

For more than 150 years, the University has experienced many changes in name Ð from the West Virginia Normal School at Fairmont, to the Fairmont State Normal School in the 1870s, to Fairmont State Teachers College in 1931, to Fairmont State College in 1944, to Fairmont State in 2004. These changes indicate an ongoing expansion of programs and purpose.

In 1923, the Fairmont State Normal School first offered a four-year bachelor's degree program in education, making the school a college. Today Fairmont State offers more than 80 baccalaureate degrees in business, education, science, engineering technology, fine arts, liberal arts, and nursing. Graduate programs have been developed in architecture, education, business, and criminal justice. The campus is also home to the Frank and Jane Gabor West Virginia Folklife Center.

The University's changes in location in Fairmont also reflect its continued growth. On February 27, 1867, the normal school became a state institution. Construction began on a brick building on the northwest corner of Adams and Quincy streets later that year. In 1893, the school moved into a new building on Second Street and Fairmont Avenue. In early 1917, the Fairmont State Normal School moved to the building now called Hardway Hall, which sits on a hill overlooking Locust Avenue.

From that single columned building on a hill that was once part of a dairy farm, the University's campus has expanded to include more than 23 buildings. Over the recent decades, new construction, including a new student center, parking garage, five housing facilities, and an academic building, as well as major improvements in infrastructure, have greatly impacted the accessibility and beauty of campus. Fairmont State features two locations in Harrison County, the Gaston Caperton Center in Clarksburg and the Robert C. Byrd National Aerospace Education

Center in Bridgeport. Fairmont State continues to look for ways to reach beyond the borders of West Virginia and the nation to build relationships.

From its first officially recorded enrollment of 30 students in 1868, Fairmont State has grown to be one of the state's largest universities with an enrollment of about 4,100 students. The first student, Hyre D. Clark of Buckhannon, graduated from the normal school in 1872. Today, Fairmont State has an alumni network of more than 29,000 proud Falcons.

## GASTON CAPERTON CENTER

The Gaston Caperton Center is located at 501 W. Main Street in downtown Clarksburg. Clarksburg, the seat of Harrison County, is approximately 23 miles from Fairmont. The Gaston Caperton Center serves as a site for delivery of a wide variety of courses for students enrolled in Fairmont State.

Support services are available to all students at the main campus, including, but not limited to counseling, financial aid, disability services, and advising.

## ALUMNI ASSOCIATION

The Fairmont State Alumni Association, founded in 1873, is the official organization representing graduates of Fairmont State (including Fairmont State Normal School, Fairmont State Teachers College, Fairmont State College, and Fairmont State University). The Association is led by an elected, unpaid, volunteer Board consisting of graduates of Fairmont State.

The purpose of the Fairmont State Alumni Association is to unite its members in an effective organization dedicated to the advancement of Fairmont State:

- a. strengthening the relationship between the alumni and Fairmont State through effective communication and collaboration about current programs, activities, and needs;
- b. perpetuating and strengthening the bonds of loyalty and friendship among alumni;
- c. supporting Fairmont State-sponsored activities, on and off-campus, that enrich the life of the institution, its students and

- community, as well as provide incentive for participation;
- d. representing the interests of alumni to the institution, by providing information and making recommendations for action;
  - e. assisting the institution, its student body and alumni members with vocational guidance and job placement;
  - f. taking such other action as may be deemed appropriate for the advancement of the institution and the Association.

Contact the Fairmont State Alumni Association through the Director of Alumni Relations at:

Director of Alumni Relations  
 Erickson Alumni Center  
 1300 Locust Avenue  
 Fairmont, WV 26554

Direct Dial: (304) 367-4015  
 Fax: (304) 367-4742  
 Toll Free (866) 372-ALUM  
 Web: [www.fairmontstate.edu/alumni](http://www.fairmontstate.edu/alumni)

Visit the Erickson Alumni Center at 1300 Locust Avenue, Fairmont, West Virginia.

## CATALOG POLICY

It is the responsibility of students to be knowledgeable of official Fairmont State policies and to meet all requirements in the Catalog. It provides the best possible current information on practices and academic policies of the institution. Fairmont State does however, reserve the right to change provisions or requirements at any time to reflect curricular changes and/or administrative regulations and procedures. The Catalog is not considered a binding contract between the student and the institution; it is for informational purposes only.

Students should keep informed of current degree, curriculum and course requirements. Academic advisors and appropriate administrative offices of Fairmont State may be consulted for further information or guidance.

A student who enrolls at Fairmont State shall follow the degree provisions of the catalog in use at

the time of admission or any subsequent catalog, providing the entire subsequent catalog is adopted.

A student who changes degree programs or majors while enrolled at Fairmont State may follow the degree provisions of the catalog in use at the time of admission or any subsequent catalog, providing the entire catalog is adopted. Because curricular changes frequently occur in subsequent catalogs, the student should consult with an advisor in the new degree program or major for assistance in determining which catalog to adopt.

Students who have interrupted their schooling for two or more regular academic semesters (not including summer) will be readmitted under the most current catalog and degree requirements.

Please note that academic policies can change each year and apply to all students regardless of when they began their studies. Please refer to the current catalog for the most recent academic policies and procedures.

## EMAIL ACCOUNT POLICY

The Fairmont State e-mail address assigned to a student will serve as the official email address used by the institution for all correspondence including invoices, financial aid notifications, and information from the Student Services Center. Students are responsible for all information sent from these and other official offices of the institution. Failure to read e-mail messages will not constitute an exception. The Admissions Office will send an official admission letter informing students of their email account and Unified College Account (UCA) and how to activate the UCA. The Admissions Office will also notify students of our institution's policies regarding the use of Fairmont State email for all major institutional correspondence. No other email addresses will be included when emails are sent. Other email addresses may be provided by completing the Email Billing Form in the Office of Student Services. Invoices will be sent to those addresses in addition to the student.

## POLICY ON EQUAL OPPORTUNITY AFFIRMATIVE ACTION

Fairmont State is an Equal Opportunity-Affirmative Action Institution. The University is subject to the Titles VI and VII of the Civil Rights Act of 1964; Title IX of the Education Amendments of 1972; Sections 503 and 504 of the Rehabilitation Act of 1973; the Americans with Disabilities Act of 1990; the Age Discrimination in Employment Act; the Equal Pay Act; the Vietnam Era Veterans' Readjustment Assistance Act of 1974; Federal Executive Order 11246; and the Genetic Information Nondiscrimination Act of 2008 (GINA), all as amended; and other applicable laws and regulations. The institution provides equal opportunity to all prospective and current members of the student body, faculty, and staff on the basis of individual qualifications and merit without regard to race, color, gender, sex, sexual orientation, gender identity, gender expression/association, national origin, age, height, weight, religion, creed, genetic information, disability or veteran's status, as identified and defined by law in employment, admissions, and educational programs and activities. Fairmont State neither affiliates knowingly with nor grants recognition to any individual, group, or organization having policies that discriminate on the basis of race, color, gender, sex, sexual orientation, gender identity, gender expression/association, national origin, age, height, weight, religion, creed, genetic information, disability or veteran's status, as identified and defined by law in employment, admissions, and educational programs and activities. Fairmont State will not discharge or in any other manner discriminate against any employee or applicant for employment because such employee or applicant has inquired about, discussed, or disclosed the compensation of the employee or applicant or another employee or applicant.

Further inquiries may be directed to the Director of Affirmative Action, who is the Section 504, Deputy Title IX Coordinator, located in Room 324 Hardway Hall, (304) 367-4386, or the Americans with Disabilities Act Coordinator, located in the Turley Student Services Center, (304) 367-4686.

## SERVICES FOR STUDENTS WITH DISABILITIES

Under the Americans with Disabilities Act of 1990 and Section 504 of the Rehabilitation Act, students with disabilities are due reasonable accommodations in their academic pursuits. A student's disability should not unfairly interfere with his or her learning process or evaluation and grading.

The primary mission of the Fairmont State Disability Services Office (DSO) is to provide leadership and facilitate equal access to all institutional opportunities for students who have disabilities, so they may achieve their academic, personal, and professional goals in preparation for responsible citizenship. DSO provides institution-wide advisement, consultation, and training on disability-related topics, including legal and regulatory compliance, universal design, and disability scholarship. We identify and work to remove barriers to foster an all-inclusive campus, and provide individual services and facilitate academic accommodations to students with disabilities. Our staff collaborates with students, instructors, staff, and community members to create diverse learning environments that are usable, equitable, inclusive and sustainable by:

- Advocating for students with disabilities to have access to the same level of service from campus offices as is available to non-disabled students and to receive from DSO only those services not provided elsewhere by the institution.
- Fostering the development of a campus culture that values the diversity of disability and that values disability as a core component of diversity.
- Encouraging the design of campus environments that welcome students with disabilities and advocating for inclusion of a commitment across institutional departments.

Through guidance and technical assistance to the institution on disability-related laws and regulations, DSO fosters academic experiences that are as similar as possible to the experiences of non-disabled students by:

- Providing guidance, advice, and technical assistance that informs and enables the institution to meet applicable laws and regulations.
- Apprising key administrators of emerging issues relative to disability and access that may impact the institution.
- Ensuring that students with disabilities receive reasonable and appropriate accommodations, aids, and services to have equal access to all institutional programs, services, and activities.
- Collaborating with others across the institution in ways that benefit students.
- Providing guidance to faculty members in providing reasonable and effective accommodations, and by consultation and training for faculty members on disability related topics.

The Disability Services Office is located in 316 Turley Student Services Center and can be reached at (304) 333-3661. For more information please visit our website [www.fairmontstate.edu/access](http://www.fairmontstate.edu/access).

## THE FAMILY EDUCATIONAL RIGHTS AND PRIVACY ACT

The Family Educational Rights and Privacy Act of 1974 (FERPA) provides students with the right to inspect and review information contained in their educational records, to challenge the contents of their educational records, to have a hearing if the outcome of the challenge is unsatisfactory, and to submit explanatory statements for inclusion in their files if they feel the decisions of the hearing panels are unacceptable. Students wishing to review their educational records must contact the campus official in charge of the office in which the records are located. Students may not inspect records to which they have waived their rights of inspection and review.

Within the Fairmont State community, only those members, individually or collectively, acting in the student's educational interest are allowed access to student education records. These members include personnel in the offices of Admissions and Records, Student Services, Financial Aid, Business, academic colleges and schools, departments, academic

advisors, and athletic departments. These school officials have a legitimate educational interest in the student's education record if the school official requires such information to: fulfill his or her responsibility or duty to the University; perform tasks within the scope of his or her employment or within the scope of a contract with the University; perform a task related to a student's education; perform a task related to the discipline of a student; provide a service or benefit relating to the student or student's family, such as health care, counseling, job placement, pastoral counseling, or financial aid; or maintain the safety and security of the campus.

At its discretion, the institution may provide Directory Information in accordance with the provisions of the Act to include: student name, address, telephone number, date and place of birth, major field of study, dates of attendance, degrees and awards received, the most recent previous educational agency or institution attended by the student, participation in officially recognized activities and sports, and weight and height of members of athletic teams. Students may withhold directory information by notifying the Student Services Center in writing.

Fairmont State may disclose academic information to parents of students by having parents establish the student's dependency as defined by the Internal Revenue Code of 1954, Section 152. Dependency status may be established by the presentation of a certified copy of the parents' most recent federal income tax form listing the student as a dependent.

## DRUG-FREE AWARENESS PROGRAM

In compliance with the Drug-Free Workplace Act of 1988 and the Drug-Free Schools and Communities Act Amendments of 1989, Fairmont State has a Drug-Free Awareness Program designed to prevent the unlawful possession, use, or distribution of illicit drugs and alcohol by students and employees. Further inquiries arising from employment issues or concerns may be directed to the Vice President of Human Resources; student issues or concerns may be directed to the Vice President for Student Services.

## COMPLIANCE WITH MILITARY SELECTIVE SERVICE ACT

State law provides that a male person who has attained the age of eighteen (18) years may not enroll in a state-supported institution of postsecondary education unless he is in compliance with the Military Selective Service Act (50 U.S. Code, Appendix 451, et seq. and the amendments thereto). Also, a male person may not receive a loan, grant, scholarship, or other financial assistance for postsecondary higher education funded by state revenue, including federal funds or gifts and grants accepted by this state, or receive a student loan guaranteed by the State unless he is in compliance with the Military Selective Service Act. Selective Service Act registration information should be available at all United States Postal Service facilities and may be available at some high schools. The Selective Service System also provides information through a web site at <http://www.sss.gov>.

# Admissions

## GENERAL ADMISSION PROCEDURE

Students seeking admission to Fairmont State must be of the age of compulsory attendance in the state of West Virginia and file an application for admission. Application and supporting credentials must be on file at least two weeks prior to the opening of a semester or term. All credentials submitted in support of an application for admission become the property of the University and will not be returned to the student. Any student admitted upon the basis of false credentials will be subject to immediate dismissal from the University.

The application for admission must specify the student's desired degree or program objective. Admission to Fairmont State does not guarantee admission to specific programs, which may be restricted due to limitations of staff, physical facilities, and space available for experiential training. The standards and procedures for admission to limited-enrollment programs are presented later in this section.

Students who fail to register during the semester or term for which they have been admitted, must file another application in order to gain admission at a later date.

## REQUIRED FORMS AND CREDENTIALS

All students applying for admission to Fairmont State degree programs are required to complete and submit the following forms and credentials:

- 1) Application for Admission
- 2) Official high school transcript sent by high school or high school equivalency diploma (not required for transfer students having a 2.0 grade point average and at least 24 hours of completed coursework)
- 3) Official ACT or SAT scores (not required for students who graduated high school more than 5 years prior to enrollment term or for transfer

students having a 2.0 average and at least 24 hours of completed coursework)

- 4) Transcript of home schooled students to include classes taken, credit hours and grades earned, graduation date and signature of the home school provider (may be submitted in lieu of a high school equivalency transcript, however the high school equivalency transcript may be required for financial aid and scholarships)
- 5) Official college transcripts, if applicable
- 6) Immunization Records including measles, mumps, & rubella (MMR) (if born after January 1, 1957)
- 7) Permanent Resident Card, if applicable

## THE AMERICAN COLLEGE TEST/SCHOLASTIC APTITUDE TEST

Fairmont State requires the American College Test (ACT) or Scholastic Aptitude Test (SAT) of all applicants unless you have graduated high school or received a high school equivalency transcript more than five years prior to seeking admission. ACT or SAT scores are also used to determine student placement in English and mathematics courses, for scholarships and loans, and for academic advising purposes. High school students are encouraged to take the test beginning in their junior year. For information concerning registration and test dates for the ACT National Exam, please visit the official ACT website, [www.act.org](http://www.act.org). Students seeking admission to the University, who have missed the national testing date(s) may take the residual ACT (Contact Enrollment Services for additional information).

## IMMUNIZATION REQUIREMENT

All freshman and transfer students who were born after January 1, 1957, are required to provide proof of immunity to measles, mumps and rubella. Students are requested to provide proof of immunity on or before the date of enrollment. Meningococcal vaccine is strongly recommended. Other immunizations recommended include: Polio Series, Tetanus-Diphtheria-Pertussis (Td and aP, or Tdap within the past 5 years), Hepatitis A Vaccine, Hepatitis B Series, Varicella Vaccine (or history of chicken pox), and an annual Influenza Vaccine.

## BACHELOR'S DEGREE PROGRAMS ADMISSION REQUIREMENTS

Admission to bachelor's degree programs is open to graduates of approved high schools who have a 2.0 high school GPA (or received a high school equivalency transcript) and a minimum composite score of 18 on the ACT or 870 on the SAT (combination of Critical Reading and Math scores if test was taken prior to March 2016) or a 950 SAT (total score on tests taken March 2016 and after). Students with at least a 3.0 high school GPA and SAT or ACT composite test scores will be admitted regardless of the test scores. Applicants must also satisfy the following minimum high school unit requirements.

### REQUIRED UNITS (Years)

- 4 English (including English 12CR and courses in grammar, composition, and literature)
- 3 Social Studies (including U.S. studies/history)
- 4 Mathematics (three units must be Algebra I and higher or Math I or higher; Transitional Math for Seniors will also be accepted). Courses designed as "support courses", such as Math I Lab or Math I Support, that provide extra instructional time but no additional content shall not be acceptable as meeting the required 4 mathematics core requirements.
- 3 Science (all courses to be college preparatory laboratory science, preferably including units from biology, chemistry, and physics)
- 1 Arts
- 2 World Language (two units of the same world language; sign language is also acceptable)

Fairmont State may admit by exception students who do not meet the basic admissions standards.

## STUDENTS SEEKING A SECOND BACHELOR'S DEGREE

Students who have completed a baccalaureate degree from an accredited institution may pursue another degree as a postgraduate student. In order to be admitted, the student must submit an

application and all college transcripts. General studies, major, and minor requirements will be reviewed by the appropriate departments to determine what additional courses must be completed. While credit for the previously earned baccalaureate degree will be posted on the Fairmont State transcript, no individual courses will be translated.

## ADMISSION TO TEACHER EDUCATION

Admission to Teacher Education is selective. Please refer to the School of Education "Program of Study" in the catalog for requirements.

## ADMISSION TO ASSOCIATE DEGREE IN NURSING

Admission is granted on a first come, first served basis once a file is complete and space is available. Based on academic credentials, students may be eligible for concurrent admission to the BSN program. Students must first apply and be accepted into Fairmont State and complete a separate Nursing Program application. Additional documents needed to be considered for admission to the nursing program include TEAS scores and, as applicable, an LPN transcript and LPN license verification. See the website for detailed information.

## ADMISSION TO FLIGHT PROGRAM IN AVIATION TECHNOLOGY

Admission to the Flight Program is competitive. Applicants will be required to submit an additional Flight Program application form. Based on academic credentials and other aviation-related experiences, selected individuals will be asked to provide proof of an Unrestricted 1st or 2nd Class Medical Certification, will be scheduled for an interview. International students will also need special clearance from the TSA.

## NON DEGREE SEEKING ADMISSION REQUIREMENTS

### NON DEGREE-SEEKING (Nonmatriculant)

Admission to Fairmont State as a non-degree seeking or non-matriculant student is open to anyone who has completed fewer than 15 semester hours cumulative at any college or university or high school graduates who have not completed any semester hours. The student must be a high school graduate or a recipient of a high school equivalency diploma. Admission is intended for students registering for occasional college courses with no degree objective. Students may complete up to a cumulative total of 15 hours of college credit.

Students must submit the following as applicable:

- 1) Application for admission
- 2) Official college transcript(s)
- 3) Official home school transcript, high school transcript sent by high school or high school equivalency diploma, if you have not attended college.

(Exceptions may be made on a case-by-case basis)

A student who has completed 15 hours of regular college credit is required to apply for admission to Fairmont State for further study and meet all the requirements for admission for a specific degree.

### HIGH SCHOOL STUDENTS

Outstanding high school students may be admitted as early admission non-degree seeking students, during their junior or senior year in high school. Students are limited to enrolling in six (6) hours per semester and no more than 15 hours may be earned before they must apply for admission as a regular student. In addition a student must meet the following criteria:

- 1) Application for admission
- 2) Recommendation letter from school official.
- 3) Official high school transcript/home school transcript through last semester completed with 3.0 GPA
- 4) Permission letter from parent

### TRANSIENT STUDENTS

- 1) Application for admission
- 2) Course approval form from home institution granting permission to take transferable class(es) or an official college transcript with at least a 2.0 GPA

### INTERNATIONAL STUDENTS

Admission file must be completed by the deadlines: Fall Semester-June 15th and Spring Semester-October 15th. Admission for the summer terms is prohibited. Upon acceptance, information will be entered into SEVIS and an I-20 will be issued for LNapplication of F1 Visa. Required application forms and credentials include:

- 1) Application for admission
- 2) Must have a 2.0 overall grade point average for any high school or college work.
- 3) Official English proficiency scores (TOEFL Internet Based of 61, TOEIC of 785 or IELTS of 6.0) if your native language is not English. Online English courses cannot be accepted in place of these scores.
- 4) Proof of financial support for first academic year (must be in U.S. dollar format and translated to English)
- 5) Sponsor Affidavit Form
- 6) Color copy of Passport
- 7) Original or certified copies of all official academic records/transcripts. Certified documents must be notarized or attested by the education institution, the Ministry of Education of the country, or World Education Services (WES) evaluation agency. High school transcripts are not required for transfer students having a 2.0 grade point average and at least 24 hours of completed coursework.
- 8) All undergraduate students who have attended high school, colleges or universities outside the United States will need to use (WES) to complete the credential evaluation of all academic work completed. Transfer applicants should request a "course-by-course" International Credential Advantage Package (ICAP). High school transcripts are not required for transfer students having a 2.0 grade point average and at least 24 hours of completed coursework. Freshman applicants should

request a “document-by-document” ICAP evaluation. ICAP evaluations include WES certified copies of official documents.

- 9) Transfer eligibility form, if applicable
- 10) Proof of immunization (measles, mumps, rubella) MMR
- 11) Proof of health insurance
- 12) Housing Application (if applicable)

## RETURNING STUDENTS

Students who have interrupted their schooling for one semester (not including summer term) must reapply for admission. Any previous holds must be removed before readmission can occur. Students who have attended another institution during this absence are considered to be transfer students and must comply with the requirements listed below.

## TRANSFER STUDENTS

Any applicant for admission to Fairmont State who has attended another collegiate institution will be classified as a transfer student. Every effort will be made to allow credit earned at other accredited colleges and universities to count towards a degree at Fairmont State. Transfer students must meet the previously stated admission requirements of Fairmont State. They must provide evidence of good standing at the institution last attended and must have maintained a minimum 2.0 GPA.

Students transferring fewer than 24 semester hours must provide an official copy of their high school transcript/home school or high school equivalency transcript, official ACT or SAT scores (if the student has graduated from high school less than 5 years prior to the enrollment term) and official college transcript(s).

## TRANSFERRING CORE COURSEWORK

According to Series 17, Policy Regarding the Transferability of Credits and Grades at the Undergraduate Level, students who transfer from one state college or university to another may transfer core coursework that will count toward fulfillment of general studies requirements at the receiving institutions.

Under the terms of the agreement, a student may transfer up to thirty-five credit hours of undergraduate coursework in the areas of English composition, communications and literature, fine arts appreciation, mathematics, natural science, and social science as general studies credits. Copies of the agreement are available in the Enrollment Services Center.

The following is a list of General Studies Requirements that may be fulfilled by comparable coursework at another institution. All other General Studies Requirements must be completed at Fairmont State.

### English Composition - 6 hours

ENGL 1101 WRITTEN ENGLISH I.....	3
ENGL 1102 WRITTEN ENGLISH II.....	3

### Communication and Literature - 6 hours

COMM 2200 INTRO. TO HUMAN COMMUNICATION.....	3
ENGL 2220 LITERATURE OF THE WESTERN WORLD I.....	3
ENGL 2221 LITERATURE OF THE WESTERN WORLD II.....	3
ENGL 2230 INTRODUCTION TO LITERATURE I.....	3
ENGL 2231 INTRODUCTION TO LITERATURE II.....	3
ENGL 3391 THE SHORT STORY.....	3

### Fine Arts Appreciation 3 hours

ART 1120 ART APPRECIATION.....	3
INTR 1120 EXPERIENCING THE ARTS.....	3
MUSI 1120 MUSIC APPRECIATION.....	3
THEA 1120 THEATRE APPRECIATION.....	3

### Mathematics - 3-4 hours

MATH1507 or 1407 FUNDAMENTAL CONCEPTS OF MATHEMATICS.....	3-4
MATH1530 or 1430 COLLEGE ALGEBRA.....	3-4
MATH1540 TRIGONOMETRY AND ELEMENTARY FUNCTIONS.....	4
MATH2501 CALCULUS I.....	4

### Natural Science - 8-10 hours

BIOL 1105 BIOLOGICAL PRINCIPLES I.....	4
BIOL 1106 BIOLOGICAL PRINCIPLES II.....	4
CHEM 1101 GENERAL CHEMISTRY.....	4
CHEM 1102 GENERAL CHEMISTRY II.....	4
CHEM 1105 CHEMICAL PRINCIPLES I.....	5
PHYS 1101 INTRODUCTION TO PHYSICS I.....	4
PHYS 1102 INTRODUCTION TO PHYSICS II.....	4
PHYS 1105 PRINCIPLES OF PHYSICS I.....	4
PHYS 1106 PRINCIPLES OF PHYSICS II.....	4
GEOL 1101 GENERAL GEOLOGY.....	4

GEOL 1102	HISTORICAL GEOLOGY .....	4
Social Science - 9 hours		
BSBA 2200	ECONOMICS .....	3
BSBA 2211	PRINCIPLES OF MACROECONOMICS .....	3
HIST 1107	U.S. HISTORY I .....	3
HIST 1108	U.S. HISTORY II .....	3
HIST 2211	HISTORY OF CIVILIZATION I.....	3
HIST 2212	HISTORY OF CIVILIZATION II .....	3
HIST 2213	HISTORY OF CIVILIZATION III .....	3
POLI 1100	AMERICAN GOVERNMENT .....	3
POLI 2200	INTRODUCTION TO POLITICAL SCIENCE .....	3
PSYC 1101	INTRODUCTION TO PSYCHOLOGY .....	3
SOCY 1110	INTRODUCTION TO SOCIOLOGY.....	3

**CREDIT FROM A JUNIOR OR COMMUNITY COLLEGE**

The maximum credit accepted from a Junior or Community College accredited by the North Central Association of Colleges and Schools or other regional accrediting association will not exceed 72 semester hours.

**ADMISSION TO COLLEGE LEVEL ENGLISH AND MATH COURSES**

Fairmont State has adopted the following requirements for students before they are permitted to enroll in college-level mathematics and English courses:

**ENGLISH**

All students may enroll in English 1101. However, students must enroll in a four credit hour Accelerated version of the course if they fail to earn at least one of the minimum scores prescribed below for the following tests:

- a) A score of 18 or above on the English section of the ACT.
- b) A score of 500 or above on the evidence-based reading and writing portion of the redesigned SAT.
- c) A score of 5 or higher on the WritePlacer.
- d) An achievement level score of Level 3 on the English/language arts portion of the statewide eleventh grade student assessment, the West Virginia General Summative Assessment.

**MATHEMATICS**

Students may not enroll in a mathematics course unless the minimum score prescribed below is earned on at least one of the following tests:

- a) A score of 19 or above on the mathematics section of the ACT.
  - b) A score of 460 or above on the quantitative portion of the SAT-1.
  - c) A score of 500 or above on the math section of the new SAT effective March 2016.
  - d) An achievement level score of Level 3 on the mathematics portion of the statewide eleventh grade student assessment, the West Virginia General Summative Assessment.
  - e) f) A scaled score of 85 on the arithmetic test for majors requiring quantitative reasoning courses or a scaled score of 76 on the elementary algebra test for majors requiring college algebra or a scaled score of 40 on the college-level math test of the College Board’s ACCUPLACER Testing System.
- Any student who does not meet the minimum test score pre-requisites will be required to enroll in a course with integrated academic support.

Math Support Courses include:

**MATH 1407** Fundamental Concepts of Mathematics with Support 4 credit hours. This course fulfills the same requirements as MATH 1507: Fundamental Concepts of Mathematics and is intended for students who do not meet the pre-requisites for MATH 1507. This introductory survey course is specifically designed to fulfill General Studies requirements for quantitative literacy. PR: Admission into Fairmont State. There are no minimum test score requirements for this course.

**MATH 1430** College Algebra with Support 4 credit hours. This course fulfills the same requirements as MATH 1530: College Algebra and is intended for students who do not meet the pre-requisites for MATH 1530. This course meets for five hours each week. PR: MATH ACT 19-20 (or equivalent) or MATH 1011 with a “C” or better.

The college offers the ACCUPLACER tests, designed by CollegeBoard, free of charge to students who enter with low ACT/SAT scores. These tests are taken on the computer and are multiple-choice and untimed. The ACCUPLACER test may be taken up to two times per semester. ACCUPLACER score is valid for up to two years after the test date. For more information on ACCUPLACER tests, contact the Fairmont State Advising Center.

## ADVANCED STANDING

Based on the high school record and performance on the ACT or SAT, Fairmont State will determine eligibility for advanced standing and credit in English and foreign language as follows:

**English:** Students may receive three hours of college credit in ENGL 1101 and may enroll in ENGL 1102 if they present four units of high school English with no semester grade of less than a “B” and a standard score of 25 or higher on the English section of the ACT or 640 on the evidence-based reading and writing section of the redesigned SAT.

**Foreign Language:** Students who present one or more units of high school French or Spanish may enroll in FREN 1102 or SPAN 1102. Students who present two or more units of high school French or Spanish may enroll in FREN 2201 or SPAN 2201.

**French or Spanish minor:** Students electing a minor in French or Spanish may satisfy the elementary level requirement, FREN 1101 and 1102, or SPAN 1101 and 1102, by presenting two or more units of high school French or Spanish. These hours will not be recorded as college credit but will fulfill the requirement for the first six hours of the minor.

Students will not be awarded multiple credit, standing or GPA based on duplicated advanced placement scores, tests or transfer work.

## ADVANCED PLACEMENT EXAMINATION (AP)

Fairmont State recognizes certain examinations of the College Board Advanced Placement Program. Students who participate in the AP program and wish to have their scores evaluated for credit should have their scores sent to Fairmont State. The AP examinations are prepared by the College

Board, and the papers are graded by readers of the Educational Testing Service, Princeton, NJ 08540. Students cannot receive credit for a score below 3 on any exam. Students who do receive credit will be assigned the grade of CR, which is not calculated into the GPA.

Students will not be awarded multiple credit, standing or GPA based on duplicated advanced placement scores, tests or transfer work.

Examination	Minimum Score	Credit Hours	Course Equivalent
<b>Art (Studio)</b>			
Studio Art - Drawing	3	3	Elective
Studio Art - 2 Design	3	3	Elective
Studio Art - 3 Design	3	3	Elective
Art History	3	3	Elective
Biology	3	4	SCIE 1100
Biology	4	8	BIOL 1105 & 1106
Chemistry	3	8	CHEM 1101-1102
<b>Classics</b>			
Latin: Virgil	3	3	
*Not Offered at Fairmont State			
<b>Computer Science</b>			
Computer Science A	3	3	Elective
<b>Economics</b>			
Macroeconomics	3	3	BSBA 2211
Microeconomics	3	3	BSBA 2212
<b>English</b>			
English Lang. & Comp.	3	3	ENGL 1101
English Composition & Lit	3	3	ENGL 2220, 2230 or 2231
Examination	Minimum Score	Credit Hours	Course Equivalent
Environmental Science	3	4	Elective
<b>Foreign Language</b>			
Chinese Lang. & Culture	3	6	Not Offered at Fairmont State
French Language	3	6	FREN 1101, 1102
German Language	3	6	Elective
Japanese Lang. & Culture	3	6	Not Offered at Fairmont State
Spanish Language	3	6	SPAN 1101, 1102
Spanish Literature	3	6	SPAN Elective
<b>Geography</b>			
Human Geography	3	3	GEOG 2210
<b>Government and Politics</b>			
United States	3	3	POLI 1100
Comparative	3	3	POLI 2200

History			
United States	3	6	HIST 1107, 1108
European	3	6	HIST Elective
World	3	6	HIST 2211, 2212
Mathematics			
Calculus AB	3	4	MATH 2501
Calculus BC	3	4	MATH 2501
Calculus BC	4	4	MATH 2501 & MATH 2502
Statistics	3	3	PSYC 2240 or BSBA 3310 or SOCY 2240 or POLI 2240 or MATH 1550 or PSYC 2240
Music			
Theory	3	3	MUSI 1108 (2 hr)
Physics			
Physics 1	3	4	PHYS 1101
Physics 2	3	4	PHYS 1102
Physics C Mechanics	3	5	PHYS 1105
Physics C Electricity & Magnetism	3	5	PHYS 1106
Psychology			
Psychology	3	3	PSYC 1101

## COLLEGE LEVEL EXAMINATION PROGRAM (CLEP)

The College Level Examination Program (CLEP) provides students with the opportunity to demonstrate college-level achievement through a program of exams in undergraduate college courses. Students can reduce their costs in time and money by successfully completing CLEP tests for credit. The CLEP exams are prepared by the College Board and administered by Pierpont Community & Technical College. Students must achieve a minimum score of 50 to receive college credit. For additional information, contact the Center for Workforce Education at (304) 368-7254 or (304) 367-4920.

Students will not be awarded multiple credit, standing or GPA based on duplicated advanced placement scores, tests or transfer work.

CLEP Examinations Accepted By Fairmont State			
CLEP Examination		Fairmont State Course	Credit
Business			
Prin. of Macroeconomics	BSBA 2211		3
Prin. of Microeconomics	BSBA 2212		3
Prin. of Marketing	BSBA 2204		3
Prin. of Accounting	BSBA 2201/2202		6
Introductory Business Law	BSBA 3306		3
Prin. of Management	BSBA 2209		3
Chemistry			
Chemistry	CHEM 1101/1102		8
Composition/Humanities			
College Composition	ENGL 1101		3
Humanities	ART 1120		3
Sociology			
Introduction to Sociology	SOCY 1110		3
History			
History of U.S. I	HIST 1107		3
History of U.S. II	HIST 1108		3
Western Civilization I	HIST 2211		3
Western Civilization II	HIST 2212		3
Language			
French	FREN 1101/1102		6
Spanish	SPAN 1101/1102		6
Math			
College Algebra	MATH 1530		3
College Math	MATH 1507		3
Political Science			
American Government	POLI 1100		3
Psychology			
Introduction to Psychology	PSYC 1101		3

## SPECIAL EXAMINATIONS FOR COURSE CREDIT

Students may earn course credit by special examination. To apply for permission for such an examination, applicants must be enrolled in the University or must have completed one semester or summer session in Fairmont State. Applicants must first schedule an interview with the College or School Dean or department representative, who will evaluate the student's background, experience, and qualifications to establish eligibility and give permission to take the examination. In order to gain college credit by special examination, students must demonstrate better than average proficiency on the examination, as determined by the examiner. Examinations will not be given for college courses

in which students have previously received a grade other than “W.”

Applicants must pay a fee of \$22.00 per semester credit hour for each special examination. Applications for credit may be obtained from the Academic School or Department. Please refer to the online Campus Directory for specific locations. Payment must be made in the Turley Student Services Center after the College/School Dean or department representative approves eligibility and before taking the examination. No money will be refunded if any examination is failed. No examination may be repeated.

Students will not be awarded multiple credit, standing or GPA based on duplicated advanced placement scores, tests or transfer work.

## ORIENTATION

Orientation programs occur in the months prior to each academic semester and are designed to prepare new students for Fairmont State. Each newly admitted student will automatically receive an invitation offering instruction on how to RSVP for the appropriate program. Students attending Orientation can expect to meet with an advisor and schedule classes. There will be an opportunity to meet with areas such as Financial Aid and Housing. Students can obtain their photo ID card if they bring state issued government ID.

For more information, please visit the Orientation website [www.fairmontstate.edu/admit/orientation](http://www.fairmontstate.edu/admit/orientation) or, via email to [Orientation@fairmontstate.edu](mailto:Orientation@fairmontstate.edu).

## GRADUATE STUDIES

Graduate studies at Fairmont State are designed to give students advanced knowledge in a special field of study, higher levels of professional competence, an understanding of and respect for scholarly research and a sophisticated knowledge of the techniques of continued, lifelong intellectual growth. These goals are achieved through coherent, orderly programs of study, investigation and professionally mentored practical experiences that are carefully planned by each individual student in

consultation with his or her graduate faculty adviser.

Fairmont State currently offers the following graduate degrees:

- Master of Education (M.Ed.), with concentrations in Digital Media, New Literacies and Learning; Exercise Science, Fitness and Wellness; Professional Studies; Reading; Special Education;
- Master of Arts in Teaching (M.A.T.);
- Master of Business Administration (M.B.A.);
- Master of Science in Criminal Justice (M.S.C.J.);
- Master of Architecture (M.Arch)

Choosing to pursue a Master’s degree program at Fairmont State represents a commitment to excellence, personal growth, and lifelong learning. Our graduate programs are committed to a student-centered learning environment that emphasizes concrete experiences, intellectual discourse, and critical reflection. Fairmont State is small enough to allow each graduate student opportunities for interaction with fellow students and distinguished faculty members, yet large enough to provide challenging and diverse areas of study. To better serve graduate students, the university schedules classes at times designed to meet the scheduling needs of part-time as well as full-time students.

If you are interested in learning more about our program or obtaining a specific graduate degree, please consult our web site at <http://www.fairmontstate.edu/graduatestudies> or contact the Office of Graduate Studies at (304) 367-4098 or by email at [gradstudies@fairmontstate.edu](mailto:gradstudies@fairmontstate.edu)

## GRADUATE TEST SCORES

GMAT, GRE, or another approved graduate aptitude test, is required for students to apply to most graduate programs at Fairmont State. The test results must be submitted as part of a completed graduate studies application. For more information regarding GMAT testing, please visit <http://www.mba.com/us>. For more information regarding GRE testing, please visit <http://www.ets.org/gre/>.

# Expenses and Financial Aid

## PAYMENT OF TUITION AND FEES

Registration is not completed until payment of tuition, residence hall, board and fees has been made. A late payment charge of \$50 will be assessed on the second day of the term; a \$15 charge will be assessed on each check returned by bank for “insufficient funds”. Enrollment Services shall declare the fees unpaid and registration canceled until the check has been redeemed and the additional charge paid. Student records will not be released by the Enrollment Services for any student who had a delinquent financial obligation to Fairmont State University.

Students attending Fairmont State are offered an alternative to payment in full at the time of registration. This payment plan is known as the Financial Installment Plan Service, or FIPS. This allows students to pay their balance in six monthly payments. The first payment is due on the 10th of the month prior to the start of the semester. There may be a \$15.00 enrollment fee assessed when signing up for FIPS. If payment is not received before the due date each month, a \$25 late fee may be added to the account. Fees can be paid with Visa, MasterCard, American Express and Discover Card. Students receiving financial aid must apply 100 percent of their aid prior to FIPS payments.

All outstanding amounts resulting from nonpayment of tuition and fees are the responsibility of the student. Withdrawal from school, officially or unofficially, will not cancel any financial obligation already incurred. Additionally, failure to pay all financial obligations may result in debts being turned over to a collection agency.

NOTE: The term “resident” refers to classification for fee purposes only. See end of this section for resident classifications.

All tuition and fees are subject to change. Please see our homepage for the most current tuition and fee information. From the main home page under Quick Links, select Student Services/ Enrollment Center, next select Student Accounts, then Tuition and Fees to locate this information.

Billing information, reminders and important notices are sent to each student’s institutional e-mail address. Paper bills are not sent to the student’s address.

## Tuition and Fees (2019 - 2020)

### FAIRMONT STATE TUITION & FEES PER SEMESTER

	On Campus WV Resident	On Campus Non-Resident	Virtual
12 hours .....	3869.....	8407.....	3530
11 hours .....	3443.....	7612.....	3245
10 hours .....	3130.....	6920.....	2950
9 hours.....	2817.....	6228.....	2655
8 hours.....	2504.....	5536 .....	2360
7 hours.....	2191.....	4844.....	2065
6 hours.....	1878.....	4152.....	1770
5 hours.....	1565.....	3460.....	1475
4 hours.....	1252.....	2768.....	1180
3 hours.....	939.....	2076.....	885
2 hours.....	626.....	1384.....	590
1 hour.....	313.....	692.....	295

NOTE: Registration in one credit hour on-campus will result in students being billed using On Campus tuition rates.

## GRADUATE COLLEGE TUITION & FEES PER SEMESTER

	On Campus WV Resident	On Campus Non-Resident	Virtual
9 hours .....	4461.....	9550.....	3755
8 hours .....	3864.....	8384.....	3344
7 hours .....	3381.....	7336.....	2926
6 hours .....	2898.....	6288.....	2508
5 hours .....	2415.....	5240.....	2090
4 hours .....	1932.....	4192.....	1672
3 hours .....	1449.....	3144.....	1254
2 hours .....	966.....	2096.....	836
1 hour.....	483.....	1048.....	418

NOTE: Registration in one credit hour on-campus will result in students being billed using On Campus tuition rates.

## SPECIAL FEES (NON-REFUNDABLE) - APPLICABLE TO ALL STUDENTS

New Student Orientation Fee.....	\$120.00
Graduation Processing Fee .....	\$50.00
Graduation Processing Fee for Graduate Students .....	\$70.00
School of Nursing Program Fee (per credit hour).....	\$30.00
School of Nursing Test Fee.....	\$166.00
School of Nursing Uniform Fee.....	\$175.00
School of Business Program Fee (per credit hour).....	\$17.00
College of Science and Technology fee (per credit hour).....	\$25.00
College of Liberal Arts Program fee (per credit hour).....	\$17.00
School of Education Program Fee (per credit hour).....	\$17.00
School of Fine Arts Program Fee (per credit hour).....	\$9.00
Exploratory Program Fee (per credit hour).....	\$9.00
Graduate School of Business Program fee (per credit hour).....	\$45.00
Graduate College of Science and Technology Program fee (per credit hour).....	\$45.00
Graduate College of Liberal Arts Program fee (per credit hour).....	\$45.00
Graduate School of Education Program fee (per credit hour).....	\$34.00
Wilderness Explorer Trip Fee.....	\$200.00
Special Equity Fee (assessed to all full-time/on-campus students).....	\$150.00
E-Learning Fee (online course fee attached to all virtual classes (per credit hour).....	\$50.00

\* Special course fees may apply

## OTHER FEES

Late Application for Graduation.....	\$50.00
Priority Transcript Fee.....	\$9.00
Special Examinations for course credit (per credit hour).....	\$50.00
Late Payment Fee.....	\$50.00
Late Registration Fee .....	\$50.00
Reinstatement Fee.....	\$25.00
Pre-collect Letter Fee.....	\$5.00

## AVIATION FEES

Summary	Flat Fee (only partially refundable)	Additional Costs for FAA Exams	Est. Total	Non-Refundable Portion of Flat Fee
Private				
(AVMA 1103) ...	\$12,763.....	\$825.....	\$13,588 .....	\$5,188
Instrument				
(AVMA 2204) ...	\$12,920.....	\$825.....	\$13,745 .....	\$5,665
Commercial				
(AVMA 3306) ...	\$27,683.....	\$825.....	\$28,508 .....	\$8,378
Totals .....	\$53,366....	\$2,475.....	\$55,841 .....	\$19,231

Beginning August 2017, all students enrolling in AVMA 1103, 2204, and 3306 flight labs will be assessed a Flat Fee as indicated in the chart above. A portion of each Flat Fee is non-refundable. Any unused portion of the remaining refundable Flat Fee funds will be returned upon request, providing the request is submitted before the 1-yr anniversary of the start of the course.

Additional costs (approximately \$825 per course) are estimated for the FAA written exam, flight test rental and examiner fees. These fees are separate and must be paid by the student at the time of the FAA exams. Students are responsible for purchasing their own headset, the cost for which is not included in any of the totals above. Each of the courses is also assessed the standard tuition and fees by Fairmont State. All fees are to be paid in full at the beginning of the semester or paid through an approved payment plan. A list of possible lenders is available in the Financial Aid Office. Students must have Flat Fee funds on account before any flight lessons will take place.

Remedial training is provided for students who don't complete a lesson on the first attempt. A maximum of 2 remedial trainings will be offered for a single lesson. A maximum of 8 remedial trainings will be offered for each course. After the 8<sup>th</sup> remedial training a student must go before a review board for evaluation and to determine if the student will be permitted to continue in the program. Please consult with the Program Manager and see the "Remedial Training" handout for more details.

If all of the flight lessons for a course are not completed within one semester and a grade of "Incomplete" is awarded, then the lessons may continue

into the next semester. All flight training must be completed within one year from the start of the course. After one year without successful completion, the student will receive a failing grade. If the student still wishes to continue in the flight program, then the course must be retaken and a new fee will be assessed. Please note that the FAA and our program places restrictions on how much time may lapse between flight lessons without needing to repeat some of those lessons. Check with the flight instructor or Chief for more information. Students must complete one flight lab course before enrolling in the next one. As of August 1, 2017, and until further notice, VA funding may be available for the flight training costs associated with the Private Pilot License. Please consult with the VA Certifying Agent at Fairmont State for the most current information available.

## REFUND POLICY FOR TUITION AND FEES

A student who completely withdraws from the institution may arrange for a refund of fees, excluding special fees, in accordance with the following schedule. Refunds are determined from the first day of the school term. The student's official withdrawal date is certified by the Office of the University Registrar.

Students who have paid in advance and withdraw prior to the first day of the semester will receive full refunds.

## SEMESTER TERMS

Withdrawal during first and second weeks.... 90% refund  
 During third and fourth weeks ..... 75%  
 During fifth, sixth, seventh, and eighth weeks ..... 50%  
 Beginning with ninth week..... No refund

## SUMMER TERMS

The first three days of classes ..... 90% refund  
 Fourth and fifth day of classes..... 75%  
 Sixth through tenth day of classes..... 50%  
 Beginning with eleventh day of classes ..... No refund

# Room and Board Rates (2019-2020)

Room and board must be paid before the first day of classes for all terms. Applicants for on campus housing must pay a deposit at the time the application is filed. The deposit is currently \$200.00 (this amount is subject to change at any time). The deposit will be refunded, less any outstanding student account balances which includes damages, after the student moves out of campus housing. Deposits will not be refunded under any of the following circumstances:

- Contract release
- Student does not notify the Office of Residence Life of his/her cancellation to attend the Fall semester by the May 31st deadline
- Student does not notify the Office of Residence Life of his/her cancellation to attend Spring semester by the November 30th deadline

All freshmen and sophomore students are required to live on campus (4 executive semesters), excluding the summer term. Students may request an exemption if they meet certain requirements. Further information is available on the Exemption Request Form located on the Residence Life webpage under "Housing Forms."

For applicants deciding not to enroll, written notice of withdrawal must be received by the Residence Life Office by May 31st for the Fall semester, and by November 30th for the Spring semester. Failure to notify the Housing and Residence Life Office in writing by the deadline will result in the forfeiture of the deposit. (Exception: Should the applicant be denied admission to either institution, a full refund will be made without regard to dates.)

The housing contract is valid for the academic year. Students cannot cancel their housing contract to avoid living on campus after the contract is considered active. The housing contract is a binding lease agreement for the academic year.

## MOVE-IN COSTS

Deposit .....\$200

## RESIDENCE HALL SEMESTER RATES 2019-2020:

These rates are subject to change for 2019-2020 based on Board approval.

Double Occupancy\*

Morrow Hall.....	\$2,367.00
Pence Hall.....	\$2,367.00
Prichard Hall .....	\$2,367.00

Double Occupancy with Bathroom\*

Morrow Hall.....	\$2,519.00
Pence Hall.....	\$2,519.00

Morrow Hall Quad with Bathroom.....\$2,519.00

Pence Single\*

Traditional Academic Term.....	\$3,230.00
Extended Academic Year Term.....	\$4,199.00

Bryant Single* .....	\$3,230.00
Bryant Double* .....	\$2,730.00

## UNIVERSITY TERRACE SEMESTER RATES 2019-2020:

Single Apartment .....	\$4,590.00
Double Apartment .....	\$3,865.00
Quad Apartment.....	\$3,652.00
Semi Suites* .....	\$3,018.00
Semi Suites* (Extended Academic Year Term)...	\$3,925.00

\* Students who reside in these rooms are required to purchase a meal plan.

## FOOD SERVICE SEMESTER RATES 2019-2020

All residents of Morrow Hall, Prichard Hall, Pence Hall, Bryant Place, and University Terrace semi-suites are required to purchase a meal plan for use in the cafeteria in the Falcon Center. Campus Dining Services offers several meal plans.

Traditional Plans Offers one swipe per meal

Traditional 15 Meal Plan (7 DAY)	\$2,135.00 with \$250.00 Flex
Traditional 19 Meal Plan (7 DAY)	\$2,220.00 with \$175.00 Flex

Block Plans: Offers multiple swipes per meal  
The Ultimate – 210 swipes \$2,340.00 with \$350.00 Flex  
Eating Made Easy – 160 swipes \$1,920.00 with \$300.00 Flex  
Commuter Meal Plans  
On the Go – \$460.00 Flex MP 30 - \$195 Flex

*“On the Go” plan is only for students who are commuting, living in our apartments OR need to reload a block plan.*

## Financial Aid

Financial aid in the form of scholarships, grants, loans, and employment is available to students who need assistance in meeting their higher education expenses and who meet program criteria. All funds are administered by the Financial Aid Services in compliance with federal, state, and institutional guidelines.

### NEED-BASED AID

Fairmont State’s primary purpose in awarding financial aid is to assist those students who wish to attend college and need financial assistance to do so. Financial need is defined as the difference between the “cost of attendance” and “estimated family contribution”. Cost of attendance (COA) is a comprehensive figure including estimated tuition/fees, room/board, books/supplies and other educationally related expenses. Estimated family contribution (EFC) is a measurement of the family’s financial strength and is based upon information provided in the Free Application for Federal Student Aid (FAFSA). By using the available resources, Fairmont State attempts to meet the financial need of all students.

### SCHOLARSHIP AID

It is the intent of Fairmont State to foster the highest degree of scholarship among its students. The institution actively recruits students who have excellent academic records and recognize and reward those who continue to excel.

The objective of the scholarship program is to promote the recruitment and retention of a diverse student body with special talents and abilities. A variety of merit and need-based scholarships have been developed to accomplish this objective. Fairmont State is ultimately responsible for final approval of scholarship

programs and related policies and procedures and elicits recommendations from academic departments in that process. The Fairmont State Foundation, Inc., through the auspices of the Fairmont State Foundation’s Scholarship Committee, collaborates with the Financial Aid Services to explore new areas of scholarship development and expansion, and assist those interested in establishing new merit-based scholarships or enhancing currently established scholarship programs for Fairmont State.

Fairmont State’s Office of Financial Aid Services also manages the disbursement of scholarships for a wide range of externally funded programs received by Fairmont State students.

### SOURCES OF FINANCIAL AID

All sources and types of financial aid offered by Fairmont State as well as other non-Fairmont State aid resources are available on the homepage at <http://fairmontstate.edu/finaid/>.

### DEFINITION OF AN ACADEMIC YEAR

The academic year is considered to begin with fall semester, continues with spring semester and concludes with summer.

### PROCEDURES FOR OBTAINING FINANCIAL AID

1. Students must be admitted to Fairmont State as a regular degree seeking student.
2. For full consideration of need-based aid, students must submit the Free Application for Federal Student Aid (FAFSA) to the federal processing center by March 1. Students who miss that recommended filing date can submit after that time but funds may be limited. The FAFSA must be submitted annually.
3. For scholarships awarded through Fairmont State’s Financial Aid Services Office, students must apply for admission to Fairmont State by February 2. For scholarships awarded through Fairmont State’s Schools and Departments, refer to the website for application requirements, deadline dates, and additional information.

## SATISFACTORY ACADEMIC PROGRESS FOR FEDERAL FINANCIAL AID

To receive funds administered by the Financial Aid Services Office, students must be making satisfactory academic progress (SAP) toward completion of an eligible degree or certificate. Federal regulations require evaluation of both quantitative and qualitative academic progress.

For purposes of financial aid and eligibility, academic progress is reviewed at the end of each academic year. This review will occur at the conclusion of the spring semester.

All students enrolling for the first time (including transfers) will be considered to be making satisfactory academic progress.

The standards of Financial Aid Satisfactory Academic Progress are:

### QUALITATIVE PROGRESS

#### Undergraduate

Required Cumulative Grade Point Average:

01-29 total attempted credit hours ..... 1.5

30-59 total attempted credit hours ..... 1.8

60-above total attempted credit hours ..... 2.0

#### Graduate

Must meet the following Cumulative GPA: 3.00

### QUANTITATIVE PROGRESS

#### Pace of Progress and Maximum Time Frame

a) Pace: Pace is defined as the rate at which attempted academic credits are successfully completed. This is calculated by taking the cumulative number of hours successfully completed and dividing by the cumulative number of hours attempted. (Note: Grades of "W", "F" and "I" count as attempted hours. All transfer hours accepted by the institution are included.)

Students must successfully complete 67% of all hours attempted. The calculation will be rounded to the closest whole number and applies to the graduate programs as well.

b) Maximum Time Frame: A student must complete his/her program of study within 150% of the number of hours required for the degree objective. Repeated course work and transfer hours accepted by the institution are included.

The maximum time for each level is listed below.

- Associate program of 60 hours--90 attempted hours.
- Baccalaureate program of 120 hours--180 attempted hours.
- Post-graduate work (credits taken after first obtaining degree including pursuit of second associate degree, second bachelor degree and/or teacher certification) must be completed within 60 credit hours.

Since all classes attempted will count toward the 60-hour limit, students should meet with their academic advisor to determine what classes are required for completion of the second degree.

A student who completes the academic requirements for a program but does not yet have the degree or certificate conferred is no longer eligible for federal financial aid for that program.

Financial aid eligibility is limited to no more than two associate degrees, two baccalaureate degrees, and two master's degrees (based upon status in student information system, BANNER). Students who wish to pursue additional degrees beyond these may do so, but without federal financial assistance.

### FAILURE TO MEET STANDARDS OF FINANCIAL AID SATISFACTORY ACADEMIC PROGRESS

Students who fail to meet the qualitative or quantitative standards defined above at the end of the spring semester will be "suspended" from further financial aid eligibility, effective with the next enrollment period. If the student can meet the qualitative and quantitative standards as defined anytime during the next academic year, aid can be reinstated by making a request to Financial Aid Services for a review of their academic standing.

Students will be notified by postal mail and email of SAP status after grades are posted. SAP status can be viewed on the student's FELiX account.

#### APPEALS PROCESS

A student may appeal the loss of financial aid through the Financial Aid Services Office. To appeal, the student must have experienced extenuating circumstances beyond their control which impacted academic progress. Examples of extenuating circumstances are death of an

immediate family member, injury, illness, or other unusual circumstances presented to the Financial Aid Services Office. The appeal must include the following:

- a. Why the student failed to make Satisfactory Academic Progress.
- b. What has now changed that will allow the student to make satisfactory academic progress at the end of the next semester (statements of good intention are not sufficient).
- c. Documentation to verify the extenuating circumstances.

If the appeal is granted, the student will be placed on financial aid probation or contract for one semester and may receive aid during this semester. At the end of the semester, student must

- a. meet the defined SAP standards or
- b. meet the terms of the contract.

Appeals must be submitted by the deadline date established for each semester, generally 2 weeks prior to the start of the semester. Deadline dates will be published on the SAP website. Late appeals will not be accepted. Students who wish to enroll after the deadline should make plans to pay all charges through personal means.

Appeals will be reviewed by the following and in the following order:

- Financial Aid Appeals Committee
- Executive Director of Student Support Services
- Faculty Senate Financial Aid Appeals Committee. This committee will meet one time during the week prior to the start of the Fall and Spring Semesters. Denial of an appeal by the Financial Aid Director for the Summer Semester is final.

Students are limited to one appeal per level of review and one appeal per semester.

Financial Aid eligibility can be re-established once the student meets SAP standards.

Students who have lost eligibility for financial aid but have not been academically suspended from Fairmont State may continue to enroll in courses. Students are responsible for all institutional charges, such as: tuition, fees, room/board, and books. Once the student meets the standards of financial aid satisfactory

academic progress, the student may again receive consideration for financial aid.

## ACADEMIC FORGIVENESS & FINANCIAL AID

Candidates for academic forgiveness may receive financial assistance during the readmission semester if under financial aid probation or an academic plan. If the student does not meet the defined financial aid standards of SAP or the academic plan that was developed for the appeal at the time of review, the student's financial aid will be suspended as dictated by the SAP policy.

### REPEATING COURSES

Students who repeat a previously passed class may have limitations on financial aid eligibility for that class.

### NONSTANDARD COURSES

Federal student aid cannot be awarded for courses that are not applicable to degree objective. Examples include non-credit courses, audited courses, and English-as-Second Language (ESL) courses that are not part of an ESL program.

### TITLE IV FINANCIAL AID RETURN OF AID POLICY

If a student withdraws from school whether officially (he/she completes the withdrawal form or drops all classes on the web) or unofficially (student stops attending classes) and has been awarded and/or paid Title IV Federal Aid, the student is subject to a Return of Title IV Aid calculation. This calculation determines how much aid must be returned to the federal programs in the event of a complete official or unofficial withdrawal prior to completing 60% of the term (see example below).

The calculation determines the amount of federal aid that is considered to be earned and the amount that is considered to be unearned, and therefore must be returned to the Federal programs. State and/or institutional aid may also be subject to return based on the withdrawal date. The earned/unearned amounts are calculated based on the percent of the term completed. The length of the term is defined as the first day of all classes through the last day of all classes (not including a break of 5 days or more).

Students who withdraw and who have been awarded aid that has not disbursed will also be reviewed to

determine if they are eligible for a post-withdrawal disbursement. Withdrawn students who have been selected for verification but have not provided the documents necessary for disbursement may be eligible for a post-withdrawal disbursement. Their account will be reviewed and they will be offered a post-withdrawal disbursement, if eligible, and given 30 days to return the requested documentation. Students will only be eligible for the percentage of “earned” aid at the time of withdrawal.

A student may also be subject to a Return of Title IV Aid calculation if they are enrolled for the entire term and only complete one or more classes that end in the first eight (8) weeks part of term.

#### WITHDRAWAL EXAMPLE

This example shows what happened when a student withdrew completely on the 21st day of a 108 day semester (70% Tuition refund period). The first table shows how the Return of Title IV calculation applies to this specific student’s situation. Please note that this is only an example; your specific situation may differ. If you are considering withdrawing, we strongly encourage you to consult with your academic advisor and a financial aid counselor prior to taking any official action.

#### EXAMPLE OF RETURN OF TITLE IV CALCULATION

Federal Direct Subsidized Loan.....	\$1750
Federal Pell Grant.....	\$2675
Federal SEOG Grant.....	\$2000

1) Divide number of days attended by number of days in term

Calculation: **21 days / 108 days =**  
 Result: Percentage of term completed **19%**  
 Greater than 60% - All aid is earned; no further steps  
 Less than 60% - Use percent of term completed

2) Subtract percentage completed from **100**

Calculation: **100 - 19 =**  
 Result: Percent of term not completed **81%**

3) Multiply total federal aid by percent of term not completed

Calculation: **6425 x .81 =**  
 Result: Amount of aid that is unearned **\$5204.25**

4) Multiply total allowable institutional charges by 81% to get amount of unearned aid to be returned by Fairmont State

Calculation: Total fees = **2900 x .81 =**

Result: Amount of unearned aid to be returned by University **\$2349**

University returns: **\$1750 Direct Subsidized Loan; \$599 Pell Grant**

5) Subtract unearned aid to be returned by Fairmont State from total unearned aid

Calculation: **5204 - 2349 =**

Result: Amount of unearned aid to be returned by student **\$2855**

Student returns: **\$2076 Pell Grant and \$779 SEOG**

(All that is left to repay is the amount the University had to repay.

The following rules apply to the order in which federal aid is returned to the programs:

- Order of repayment to programs is as follows:

1. Federal Direct Unsubsidized Loans
2. Federal Direct Subsidized Loans
3. Federal Direct PLUS (Graduate Loans)
4. Federal Direct Plus (Parent Loan)
5. Federal Pell
6. Federal Supplemental Educational Opportunity Grant (FSEOG)

- The University returns its portion first; then the student’s portion is returned

- Any loan amounts unearned from the student’s share are not required to be repaid immediately (will be repaid in the normal repayment process)

- For grants, only the portion of unearned grants due from the student that exceeds 50% of the total federal grants received for that payment period is required to be returned

Please keep in mind this repayment policy is applied before the institution’s refund policy. The school’s refund policy may reduce the amount owed to the school by the student for aid returned. It is important to note that a student who withdraws from school could owe federal financial aid as well as repayment to West Virginia Higher Education Grant Program, PROMISE Scholarship Program and other scholarships and awards.

## VETERANS' POLICIES

The following policies and procedures will be observed by Fairmont State for the purpose of determining satisfactory progress for all students receiving veterans' benefits. The Veterans Administration will be notified of any veteran who is not maintaining satisfactory progress. This does not replace the Financial Aid Satisfactory Academic Progress Policy and if applicable, a student may be subject to both policies if receiving federal financial aid and veterans educational benefits.

Any veteran students using U.S. Department of Veterans Affairs (VA) Post 9/11 G.I. Bill (Ch. 33) or Vocational Rehabilitation and Employment (Ch. 31) benefits, while payment to the institution is pending from the VA, we will not: Prevent their enrollment; assess a late penalty fee to; require they secure alternative or additional funding; deny their access to any resources (access to classes, libraries, or other institutional facilities) available to other students who have satisfied their tuition and fee bills to the institution.

### REGISTRATION

Veterans and dependents receive priority registration privileges. Please see the Registrar's calendar for priority registration dates each semester.

### CLASS ATTENDANCE

If a student receiving veterans' benefits withdraws from the University or an individual class and the Veterans Certifying Official has no prior notice of irregular class attendance, the official withdrawal date on the withdrawal form completed in the Registrar's Office will be assumed as the last date of class attendance.

The Veterans' Certifying Official runs a report to identify these students and notifies the Veterans Administration.

### FINAL GRADE FOR ALL COURSES ATTEMPTED

The final grade policy for all attempted courses applies to all students at Fairmont State, including those receiving veterans' benefits.

## SUSPENSION

The Veterans Administration will be notified immediately at the end of the semester if a student receiving veterans' benefits is suspended. The Office of the Registrar of Fairmont State supplies the Veterans Certifying Official with a list of students suspended. This list will serve as the basis for notification to the Veterans Administration.

### SUMMARY

As indicated above, students receiving veterans' benefits are subject to all institutional policies of grading, attendance, and withdrawal. It is the responsibility of the Veterans Certifying Official to administer the procedures listed above and to notify the Veterans Administration, in every instance, indicating lack of satisfactory progress by the student receiving veterans' benefits. There are no separate policies of attendance, withdrawal, or grade average calculation for students receiving veterans' benefits. Evidence of unsatisfactory progress during a semester may result in loss of benefits back to the point at which satisfactory progress ceased (i.e., irregular withdrawal from class). It is the veteran's responsibility to immediately notify the Veterans Certifying Official of any changes in their enrollment status. If a change in enrollment status reduces the amount of veteran's benefits, the VA may request restitution from the student or the school. If requested, the school will return that portion of Veterans Assistance received. Student will then be billed for the balance. Collection of that balance will follow normal procedures.

### PROCEDURE FOR MILITARY DEPLOYMENT

If you are called to active duty in the military while enrolled at Fairmont State, you will be designated as being on a "Military Leave of Absence." The following policies and procedures are designed to make your transition from active duty and your return as convenient as possible. Please read the information below and review your choice of options. If you receive any form of financial assistance, it is imperative that you meet with the Financial Aid and Scholarships Office, Veterans Services, and Enrollment Services. You must provide Enrollment Services with a copy of your deployment papers no matter what option you select.

#### Option 1

When called to active duty during an academic semester, you may withdraw completely from the

semester and receive a full tuition refund. You will also receive a prorated refund for campus housing, meal plan, and parking. After consultation with the Financial Aid and Scholarships Office, Veterans Services, and Enrollment Services, your transcript for the semester may show enrolled with "W"s or you may be completely deleted from that semester. If you choose to have all of your classes deleted, all financial aid received for the semester must be returned to the federal, state, and/or institutional Programs from which it was awarded.

This in turn may leave a balance due the school if you have already received a refund check. This balance will be pursued through normal collection procedures.

#### Option 2

You may contact your individual instructors to determine if you have completed enough work for the semester to receive an incomplete or a final grade for the course. The decision rests solely with each faculty member. You should have completed at least three-fourths of the semester before a faculty can award a final grade for a course. If you wish to pursue this option, you will need to contact Veterans Services. Veterans Services will discuss the procedure with you and provide a form for faculty members to sign. Each faculty member must sign the form to indicate that they will give you an incomplete or final grade for the course.

Upon return from active duty, you will have one year to make up your incomplete/s. At the end of the one-year period, the instructor must submit a final grade. If no change is made by the instructor, the grade "I" will be changed to an "F."

You may also officially withdraw from specific courses that you do not wish to complete. You will receive a prorated refund based upon the number of credit hours you retain. Upon consultation with the Office of Financial Aid and Scholarships, Veterans Services, and Enrollment Services, your transcript for the semester may show "W"s for courses in which you officially withdraw or you may be completely deleted from those courses. If you choose to have some of your classes deleted, all financial aid received for the semester for those classes must be returned to the Federal, State, and/or Institutional Programs it was awarded from.

This in turn may leave a balance due the school if you have already received a refund check. This balance will be pursued through normal collection procedures.

## Resident Classification

### GENERAL

Residency Classification is guided by Title 133 procedural rule Series 25 as established by WV Higher Education Policy Commission and authorized by WV Code 18 B-10 and 18 B - 2B - 6.

Students enrolling in a West Virginia public institution of higher education shall be classified as resident or nonresident at the time of admission for tuition and fee purposes.

If there is a question regarding residency classification, the matter must be brought to the attention of the office of the University Registrar and acted upon at least two weeks prior to registration and subsequent to payment of tuition and fees. Students found to have made false or misleading statements concerning their residence shall be subject to disciplinary action and will be charged the nonresident fees for each session therefore attended.

### RESIDENCE DETERMINED BY DOMICILE

Domicile within the State means adoption of the State as a fixed permanent home and involves personal presence within the State with no intent on the part of the person to return to another state or country. West Virginia domicile may be established upon the completion of at least 12 months of continued residence within the State prior to the date of registration, provided that such residence is not primarily for the purpose of attendance at any institution of learning in West Virginia.

Establishment of West Virginia domicile with less than 12 months" residence prior to the date of registration must be supported by proof of positive and unequivocal action, including but not limited to the purchase of a West Virginia home, full-time employment within the state, paying West Virginia property tax, filing West Virginia income tax returns, registering to vote in West Virginia and the actual exercise of such right, registering of motor vehicles in West Virginia, and/or possessing a valid West Virginia driver's license. Additional items of lesser importance include transferring or establishing local church membership, involvement in local community activities, affiliation with local social, civic, fraternal or service organizations, and various other acts which may give evidence of intent to remain indefinitely

within the State. Proof of a number of these actions shall be considered only as evidence which may be used in determining whether or not a domicile has been established.

## MINORS

Minors are defined by the West Virginia Code 2-2-10 as persons under 18 years of age. The residence of minors shall follow that of the parents at all times, except in extremely rare cases where emancipation can be proved beyond question. The residence of the father, or the residence of the mother if the father is deceased, is the residence of unmarried and un-emancipated minors. If the father and the mother have separate places of residence, minors take the residence of the parent with whom they live or to whom they have been assigned by court order. The parents of minors will be considered residents of West Virginia if their domicile is within the State.

Minor students who are properly admitted to an institution as resident students shall retain that classification as long as they enroll each successive semester.

## EMANCIPATED MINORS

Emancipated minors may be considered as adults in determining residence, provided satisfactory evidence is presented that neither of their parents, if living, contributes to their support nor claims them as dependents for federal or State income tax purposes. Emancipated minors assume all of the responsibilities of adults to establish residence for tuition and fee purposes. Proof must be provided that emancipation was not achieved principally for the purpose of establishing residence for attendance at an institution of higher education.

## STUDENTS EIGHTEEN YEARS OF AGE OR OVER

Students 18 years of age or over may be classified as residents if (1) the parents were domiciled in the State at the time the students reached majority and such students have not acquired a domicile in another state, or (2) while adults, students have established a bona fide domicile in the State of West Virginia. Bona fide domicile in West Virginia, means that students must not

be in the State primarily to attend an educational institution and they must be in the State for purposes other than to attempt to qualify for resident status.

Nonresident students who reach the age of 18 years while students at any educational institution in West Virginia do not by virtue of such fact alone attain residence in this state for admission or tuition and fee payment purposes.

Students who are properly classified as residents at the time they reach the age of 18 shall continue to be classified as residents as long as they enroll each successive semester and do not establish a domicile, or legal residence, in another state.

## STATE RESIDENTS 65 YEARS OF AGE OR OLDER

Residents of West Virginia who are at least 65 years of age may attend class for credit or no credit if space is available. Eligibility will be determined based on appropriate documents reflecting age and residency. Participants will be admitted according to the process for "Non-Degree Seeking" outlined in the admissions policies. Students may register anytime during or after the preregistration period designated for "All Other Students" and through the Regular and Late Registration periods. Appropriate dates and times will be published in the Schedule of Classes for each term. Participants may register for either on or off-campus courses.

Eligible participants may elect one of two options for enrollment. Participants must identify themselves and choose an option at the time of registration.

**No Credit Option:** Eligible participants will be assessed fifty dollars (\$50) per course plus applicable fees (i.e. technology, laboratory, parking permits) when appropriate.

**Credit Option:** Participants electing to earn college credit will be granted a waiver of fifty percent (50%) of the normal tuition and fees for courses. Technology, laboratory, parking and other special fees will be charged at the regular student rate.

## MILITARY

An individual who is on full-time active military service in another state or a foreign country or an employee of the federal government shall, be classified as an in-state student for the purpose of payment of

tuition and fees: PROVIDED, that the person established a domicile in West Virginia prior to entrance into federal service, entered the federal service from West Virginia, and has at no time while in federal service claimed or established domicile in another state. Sworn statements attesting to these conditions may be required. The spouse and dependent children of such individuals shall also be classified as in-state students for tuition and fee purposes.

Persons assigned to full-time active military service in West Virginia and residing in the state shall be classified as in-state students for tuition and fee purposes. The spouse and dependent children of such individuals shall also be classified as in-state students for tuition and fee purposes.

In accordance with Section 702 of the Veterans Access, Choice and Accountability Act, Fairmont State offers in-state tuition and fees to all Veterans and Family members covered under this Act.

## ALIENS

Aliens in the United States on a resident visa, or those who have filed a petition for naturalization in the naturalization court and who have established a bona fide domicile in West Virginia, may be eligible for resident classification provided they are in the State for purposes other than to attempt to qualify for residency status as students.

## FORMER DOMICILE

A person who was formerly domiciled in the State of West Virginia and who would have been eligible for an in-state residency classification at the time of his/her departure from the state may be immediately eligible for classification as a West Virginia resident, provided such person returns to West Virginia within a one year period of time and satisfies the conditions of Section Two regarding proof of domicile and intent to remain permanently in West Virginia.

## APPEAL OF RESIDENCY CLASSIFICATION

Adult students who have been classified as out-of-state residents and who seek resident status in West Virginia must prove conclusively that they have established domicile in West Virginia with the intention of making

their permanent home in this state. The intent to remain indefinitely in West Virginia is evidenced not only by persons' statements but also by their actions. The designated institutional officer shall consider actions including but not limited to those described above in Section Two, "Residence Determined by Domicile." Proof of a number of these actions shall be considered only as evidence which may be used in determining whether or not a domicile has been established. Factors militating against a change in residence classification may include such considerations as the fact that students are not self-supporting, that they are carried as dependents on their parents' federal or state income tax returns or their parents' health insurance policy, or that they customarily do not remain in the State when school is not in session.

The decisions of the Registrar may be appealed to the President of the institution. The President may establish such committees and procedures as determined necessary for the processing of appeals.

# Campus Life

Social and cultural opportunities are a significant part of a student's educational experience; therefore, Fairmont State provides many services, activities, and organizations that students may select as they adjust to the college environment. The following section of the catalog describes these opportunities in detail.

Matters concerning student rights, responsibilities, and social conduct can be found in the published Student Handbook and online at <http://www.fairmontstate.edu/publications/campushandbooks/studenthandbook/default.asp>

## WELCOME WEEKEND

Welcome Weekend, which includes new student move-in, occurs just ahead of the new academic year each August and is specifically designed to aid new students in the transition to campus and to college life in general. Programs are offered to make students feel welcome in their new environment and to introduce them to the support services which are essential to their persistence and success. Each student attending the event will be fully oriented to his/her academic school or college, as well as the broader institution, and will walk away from the event with a clear set of expectations in both academic and social/behavioral realms. Welcome Weekend highlights include the annual Convocation Ceremony, a picnic and fair featuring local banks and businesses, a movie on the lawn, and a bus tour of the city.

Incoming students will receive an invitation by mail which will include RSVP instructions. For more information, please visit [www.fairmontstate.edu/WelcomeWeekend](http://www.fairmontstate.edu/WelcomeWeekend) or, contact the Office of Retention at: [Retention@fairmontstate.edu](mailto:Retention@fairmontstate.edu)

## HOUSING AND RESIDENCE LIFE

Fairmont State maintains five residence halls which accommodate around 1,200 students. Each residence hall provides a learning environment which is designed to enhance academic and social life. Housing contracts are for the entire academic year

and prices vary by residence hall. For additional information, contact Residence Life at (304) 367-4216.

University Terrace, Fairmont State's newest residential facility has apartments and semi-suites that accommodate 345 students. All apartments and some semi-suites operate on a year-round lease. Pence Hall offers year round housing in the single and double occupancy rooms. Tenants are required to abide by all rules and regulations. Prices vary based on room type and length of lease.

1. All freshman and sophomore students are required to live in campus housing unless approved for an exemption to the residency policy. Students interested in applying for an exemption must submit the form, which is available on our website, and any required documentation. All students must receive written confirmation of their release from the campus residency requirement before making housing arrangements off-campus. Students requesting exempt status from the residency policy must submit the request at least 30 days prior to the start of the semester indicated in the request. Students may not request an exemption after he/she has completed the lease agreement for the academic year.

2. Students must pay a deposit in order to complete their applications and reserve a room. Housing assignments are completed based upon the student's date of completed application. All residence hall applications and assignments are made for the entire academic year

3. The deposit refund deadline for the fall semester is May 31st. The deposit refund deadline for the spring semester is November 30th. The deposit is forfeited if the cancellation or release request is not submitted by the semester deadlines. The deposit, less any damages or other outstanding charges, will be returned at the end of the occupancy period.

4. Cancellation for current students ONLY: You may cancel your housing application with us for the upcoming academic year ONLY if you do so by April 15th in writing to [reslife@fairmontstate.edu](mailto:reslife@fairmontstate.edu). You will forfeit your deposit. Your cancellation will be considered if you meet any of the following requirements:

- You have met the four (4) consecutive semester requirements
- You plan to live at home with a parent/guardian within 50 miles of campus
- You are over the age of 21

- You are married
- You have graduated
- You became a parent
- You have withdrawn from the University

For any returning student who requests a cancellation after the April 15th deadline the cancellation will not be considered under any circumstances and you will be assessed full room/board charges if applicable.

5. The institution reserves the right to limit the number of students in the residence halls under its control.

6. Students who live in the traditional residence halls or semi-suites in University Terrace must purchase a Meal Plan for the Dining Hall.

7. Room and board fees must be paid in full for a semester prior to the first day of classes.

8. All residence hall students and their parents or guardians are responsible for being familiar with the University Student Code of Conduct and all other regulations that are listed and explained in the Residence Hall Guide to Success.

9. In cases where a preponderance of evidence exists of policy violation or criminal action, the student's room will be searched in accordance with the University Student Code of Conduct. The student will then have a student conduct hearing to determine the outcome of the incident.

10. Any residence hall student who is suspended or expelled from the institution and/or a residence hall for disciplinary reasons will be responsible for paying for the remainder of the housing contract.

11. All residence halls are tobacco, smoke, and vapor free.

12. Alcoholic beverages or illegal substances are not permitted on campus, including all residence halls.

## **STUDENT AUTOMOBILE PARKING REGULATIONS**

The campus provides a 940-space parking garage for students as well as parking spaces in defined areas throughout the campus. Parking permits are required and are included in tuition; they can be obtained from Enrollment Services in Turley Student Services Center. Students receive parking maps at the time of admission and they are available from the Dept. of Public Safety. Visitor and/or day passes can be

purchased from the Dept. of Public Safety. Additional information may be found in the Student Handbook.

## **FALCON CENTER**

The student Falcon Center, centrally located on campus, provides an environment where students and employees can comfortably interact with one another while enjoying a variety of fitness and recreation programs, eating areas and study lounges. The campus bookstore, copy center, computer labs, dining services, food court, and much more are available for both students and employees.

Included in the recreation/fitness areas are: 7,000 square feet of fitness equipment, five multi-purpose courts marked for basketball, volleyball, badminton and indoor soccer; multi-purpose rooms offering a variety of fitness classes; 25-yard fitness/lap pool, Jacuzzi, sauna, and outdoor eating area; four-lane cushioned jogging/walking track and spacious locker rooms with lockers that may be rented. Throughout the year, the Falcon Center offers special events such as health fairs, wellness and health eating programs, up-all-night parties, and much more. Also, the Falcon Center has a wide range of student social events as well as intramural sports available for students and staff. Located in the Falcon Center is "The Nest" which provides students in need with essential resources such as food, hygiene, and baby products. For further information, call the reception desk at 304-368-7222.

## **CAMPUS CARD SERVICES**

Campus Card Services offers many services to help you with your ID needs.

Your Student ID Card is your official Fairmont State identification. Students can get their ID card issued in the Falcon Center, on the first floor, or at the Turley Center. For further information, please contact Campus Card Services at (304) 368-7227.

## **BOOKSTORE**

The campus bookstore, located on the second floor of the Falcon Center, carries all textbooks and school supplies needed for classes and a large selection of Fairmont State and Pierpont apparel and gifts. Other items available include diploma frames, graduation supplies, general reading books, reference and test

prep books, flash drives, school spirit items, residence hall room supplies, work out items, and much more. Computers and computer software, at educational discounts, are available through the bookstore website. Students may charge textbooks and supplies to their student account, both in-store and online. Clothing, giftware, and many more items are available for purchase through the online site as well. We now accept Falcon Dollars as a form of payment. The bookstore can be contacted at 304-333-3636.

## PRINTING SERVICES

Conveniently located on the third floor of the Falcon Center, Printing Services is open from 8 am to 4 pm Monday through Friday. No need to leave campus – we’re right here!

We welcome faculty, staff, students and personal work. You create it – we print it – from hard copy, thumb drive, internet or e-mail. Save your work as a pdf or jpeg file for best results.

Our basic services include copying and printing up to 11” x 17” in black & white and color. Additionally, we offer large format printing with various paper sizes up to 42” wide. (See our website for a calculator to figure the cost of your large print) Pricing is the same for departments and students – 8 ½” x 11” black & white copies are \$.05 and color copies are \$.12. There is no charge for 8 ½” x 11” copy paper. An array of other papers to complement your job are available at an additional charge. Pricing for personal jobs is \$.10 for black & white copies and \$.25 for color copies, plus cost of paper.

Finishing services include stapling and 3-hole punch at no charge. Laminating, coil binding, cutting, folding, booklet-making, padding, creasing and perforating are also available at an additional cost. Please contact us at 304-367-4185 for pricing.

Before you leave campus, call us (304-367-4185) or stop by to see what we can do for you.

## CAFETERIA

Marketplace-style breakfasts, lunches and dinners are served Monday through Friday in the Cafeteria, located on the third floor of the Falcon Center (the student activity center). Brunch and dinner meals are available on weekends and on some holidays. Students with meal plans are to attend meals at this location or may use their Flex Dollars to buy food or

groceries at one of the retail venues on campus. Commuter students may also dine in the Cafeteria by purchasing the all-you-care-to-eat option. Commuters have another option - purchasing a commuter meal plan. Commuters can purchase a 30-meal plan, which has \$195 Flex Dollars, or the “On-the-Go” meal plan, which has \$460 Flex Dollars. Every meal plan participant must present his/her student ID card to the cashier to show payment for a meal. To learn more about the dining options and to make suggestions, call the Dining Services office.

## FOOD COURT

Chick-Fil-A, Starbucks, and Chilaca is located on the second level of the Falcon Center that provide additional dining options, especially for those in a hurry. Meal Plan participants may elect to use some of their Flex Dollars at any retail food outlet.

## STARBUCKS AT THE LIBRARY

There is a treat in store for all who choose a rich and creamy Starbucks latte or rich brewed coffee. We have expanded the menu and you will now find a good selection of pre-packaged salads, sandwiches and desserts. Look for us off to the right as you enter the Musick Library.

## THE LIBRARIES OF FAIRMONT STATE

MAZURE, SHARON L. (1997)

Interim Library Director, Acquisitions, Reference, and Interlibrary Loan

CHIBA, TORU (2002)

Reference and Electronic Services Librarian

HIVELY, CHARLEY (2007)

Reference and Instructional Services Librarian

SHERMAN, JACQUELYNN (2016)

Assistant Library Director, Reference, and Emerging Technologies

BARRA, MOLLY (2017)

Reference and First-Year-Experience Librarian

Fairmont State has two libraries that may be used by all students, faculty, and staff. The Ruth Ann Musick Library is full service and is located on the main campus. The second facility is located at the

National Aerospace Education Center (NAEC) at Bridgeport and provides aerospace resources.

These libraries function at the heart of the institution's academic programs. Library staff members work closely with students and faculty to develop research skills and to provide a wide range of support services that enhance the learning experience. The libraries' print and electronic holdings are designed to support the curricular needs of the academic program of study offered and to encourage intellectual and personal growth in all areas of the sciences, social sciences, humanities, and technology

The libraries provide easy access to over one million items, including books, magazines and journals, specialized reference works, newspapers, government documents, style manuals, , , DVDs, CDs, and other streaming multimedia. There are over 180 academic electronic databases accessible from the library's homepage, and nearly 750,000 electronic books are available through the online catalog. More than 50,000 journals, magazines, and newspapers are accessible through online databases. A limited number of print journals and newspapers are also available. The Fairmont State Library is a member of WVDELL, a consortium of public and academic libraries providing downloadable materials: books, audio, and video, for all library users.

The librarians offer instructional programs and training sessions that explain the use of the library's resources, methods of dealing critically with available information, and ways in which the library can provide information, both through traditional methods and through the use of electronic formats. Training in the use of information gathering on the Internet and the libraries' electronic information resources is available to all users.

The library on the main campus is open over 115 hours a week during fall and spring semesters and over 70 hours a week during the summer sessions. At least one professional librarian is available or on call most hours that the library is open. The librarians provide individualized assistance with projects, research, questions, and papers.

Interlibrary loan is available if students and faculty need research materials that are not available in one of the libraries. Users may place requests online, using ILLIAD software, and the library absorbs any fee involved. Books come in by mail and articles are electronically transmitted to the requestor.

Specialized assistance in locating resources is available. Students and faculty may visit the reference desk in person, phone or e-mail questions to the librarians, or ask for help via a live chat. All online resources are available remotely from any location with Internet access, through the use of the UCA (Unified College Account) username and password.

# Student Services

## RETENTION

The Office of Retention coordinates strategic programs, initiatives, and outreach efforts, all designed to support student transition, belonging, and persistence. From helping first-year students transition during annual events such as Welcome Weekend to monitoring grades and reaching out to at-risk students, the office is continually undergoing efforts to help keep students on-track.

The work of the Retention Team can be categorized into four areas it oversees:

The First-Year Experience (First Year Seminars and FYE Passport Program)

Parent and Family Programs (Home to Falcon Family Association and the annual Family Weekend event)

Student Progress and Success Initiatives (Including the Freshmen Check-In Campaign, Mid-Semester Crunch Workshop, Majors Marketplace, and Mid-Year Institute e-course)

And the Commuter Assistant Program (student mentors focused on developing a commuter community).

The office is focused on keeping students continuously enrolled through completion and is here to help students with developing academic skills, finding campus resources and creating a connection to campus. Besides outreach efforts, the Retention office is open for individual appointments to talk through solutions to students' troubles.

The Office of Retention is located in 207 Turley Student Services Center. For Appointments and more information, please call (304) 333-3360, email [retention@fairmontstate.edu](mailto:retention@fairmontstate.edu) or visit [www.fairmontstate.edu/retention](http://www.fairmontstate.edu/retention).

## CAREER DEVELOPMENT CENTER

The Career Development Center offers services promoting the professional growth of students through 3 related offices.

## CAREER SERVICES

The Office of Career Services provides students and alumni with a variety of benefits, including career exploration, life planning, and job searching assistance. Students can utilize career counseling and online software to clarify their options. An extensive career resource library is also available. The Office of Career Services provides the following to both students and alumni:

- Assistance in declaring a major through a variety of assessment tools
- Personalized career counseling
- Information on employment trends, outlooks, etc.
- Internship/practical experience opportunities
- Workshops, career/job fairs
- Graduate school information
- An online resume and job database
- Full and part-time job opportunities
- Assistance with resumes, cover letters, and interviewing
- Practice interviews (videotaping is available)
- On-campus interviewing
- Career resources library

## CIVIC ENGAGEMENT

The Office of Civic Engagement encourages service to the community through volunteer opportunities and service learning courses. Students can connect their field of study to the needs of our community organizations, gaining real-world experience while making a difference in the community.

The Career Development Center is located in 222 Turley Student Services Center. Appointments may be made by calling (304) 367-4214.

## COUNSELING SERVICE

The Counseling Center offers high quality counseling services to Fairmont State's undergraduate and graduate community. Psychological, emotional, and mental well-being are important contributors to academic success, personal growth and success. Students can obtain assistance with a variety of issues that affect their emotional and interpersonal development through individual counseling, group counseling, training, consultation, and referral

services that are provided to the members of the Fairmont State community.

The primary mission of Counseling is to assist Fairmont State students in defining and accomplishing personal, academic, and career goals. To accomplish the mission, Counseling Services strive for high quality provision of:

- Individual and group counseling services to students who may be experiencing psychological, behavioral, or learning difficulties.
- Programming focused on the developmental needs of students to maximize their potential to benefit from the academic environment and experience.
- Consultative services to the institution to help foster an environment supportive of the intellectual, emotional, spiritual, and physical development of students.
- Advocacy for a healthy and diverse learning community.
- Assessment services to identify and address student needs through appropriate services and referrals.
- Crisis response, including threat assessment.

Contacts with the Counseling Services are held in strict confidence. Appointments may be made by calling 304-333-3661 or in person.

The office is located in 316 Turley Student Services Center. For more information please visit our website <http://www.fairmontstate.edu/counseling>.

## DISABILITY SERVICES

Under the Americans with Disabilities Act of 1990 and Section 504 of the Rehabilitation Act, students with disabilities are due reasonable accommodations in their academic pursuits. A student's disability should not unfairly interfere with his or her learning process or evaluation and grading.

The primary mission of the Fairmont State Disability Services Office (DSO) is to provide leadership and facilitate equal access to all institutional opportunities for students who have disabilities, so they may achieve their academic, personal and professional goals in preparation for responsible citizenship. DSO provides institution-wide advisement, consultation, and training on disability-related topics, including legal and

regulatory compliance, universal design, and disability scholarship. We identify and work to remove barriers to foster an all-inclusive campus, and provide individual services and facilitate academic accommodations to students with disabilities. Our staff collaborates with students, instructors, staff, and community members to create diverse learning environments that are usable, equitable, inclusive and sustainable by:

- Advocating for students with disabilities to have access to the same level of service from campus offices as is available to non-disabled students and to receive from DSO only those services not provided elsewhere by the institution.
- Fostering the development of a campus culture that values the diversity of disability and that values disability as a core component of diversity. Encouraging the design of campus environments that welcome students with disabilities, and advocate for inclusion of a commitment across institutional departments.
- Through guidance and technical assistance to the institution on disability-related laws and regulations, DSO fosters academic experiences that are as similar as possible to the experiences of non-disabled students by:
- Providing guidance, advice, and technical assistance that informs and enables the institution to meet applicable laws and regulations.
- Apprising key administrators of emerging issues relative to disability and access that may impact the institution.
- Ensuring that students with disabilities receive reasonable and appropriate accommodations, aids, and services to have equal access to all institutional programs, services, and activities.
- Collaborating with others across the institution in ways that benefit students.
- Providing guidance to faculty members in providing reasonable and effective accommodations, and by consultation and training for faculty members on disability related topics.

The Disability Services Office is located in 316 Turley Center and can be reached at (304)333-3661. For more information please visit our website [www.fairmontstate.edu/access](http://www.fairmontstate.edu/access).

## **INTERNATIONAL STUDENT SERVICES**

The Educational Pathways for International Centers and Students (EPICS) Office offers onboarding of new students, immigration advisement, support services, counsel, and programming for all international students from applicant through alumni status. A trained staff supports international students as they settle into the community and assists in locating the resources they require to succeed academically. All student applicants who hold a United States visa or who have been educated at the high school or collegiate level outside the United States should contact the Office of International Student Services when seeking admission. All international students must meet with a Designated School Official (DSO) upon arriving on campus and at the beginning of each semester thereafter to complete immigration procedures with SEVIS prior to the start of classes. International students must bring their passports, visas, I-20s (Certificate of Eligibility for Non-Immigrant Student Status), and I-94 (Arrival/Departure Record) to each semester meeting. For additional information about the program, email the Director of EPICS in International Office [Amanda.Stinemetz@fairmontstate.edu](mailto:Amanda.Stinemetz@fairmontstate.edu).

## **STUDENT HEALTH SERVICES**

The Student Health Service is located on the 3rd floor of the Falcon Center. Office hours are Monday through Friday from 8:00 a.m. until 4:00 p.m. A Nurse Practitioner is available to care for students' needs during those hours.

The service is available only to currently enrolled students with a valid student ID. Summer hours are the same as those of the general institution. Students may visit the office for any reason that may cause them to seek treatment from their general health care provider at home. If care is needed beyond the scope of service, the student will be referred to the appropriate facility. Students are encouraged to walk in or call the office at (304) 367-4155.

## **TUTORING**

### **WRITING CENTER**

The Fairmont State Writing Center offers one-on-one peer tutoring to help students with writing assignments. This service is free for all full-time and part-time students. Tutors are trained to help with any kind of writing, including essays, research papers, technical documents, and writing in any discipline. Additional assistance is available for students with documented disabilities and those for whom English is not their first language. The Fairmont State Writing Center is located in Jaynes Hall 308. For hours of availability, check the Tutoring Services college website or call the Center at 304-333-3699. The Center accepts walk-ins or appointments.

### **TUTORING CENTER**

Tutoring is available on a "drop-in" basis to all Fairmont State students through the Tutoring & Testing Center on the middle floor of the library. Students have access to both professional and student tutors in subject areas such as math, chemistry, biology, physics, engineering technology, anatomy & physiology, and much more! Praxis and TEAs test prep assistance is also available. All services are free, and tutors are trained to provide targeted assistance with academic skills, such as test preparation, effective studying techniques, and time management. Students are encouraged to visit the center early and often! For hours of availability, contact the Director of Tutoring and Testing Center in the Library, 2nd Level at 304-367-4722 or email [ltompson2@fairmontstate.edu](mailto:ltompson2@fairmontstate.edu).

## **Student Activities & Organizations**

### **STUDENT ACTIVITIES AND EVENTS**

The Office of Student Activities (OSA) provides students with opportunities to attend and participate in a wide variety of engaging social activities. These activities include but are not limited to comedy shows, musical performances, dances, educational and motivational lectures, and many other enjoyable events. A calendar of student events and activities can

be found on Fairmont State's homepage under Campus Life dropdown menu and clicking on the "Calendars" link.

The OSA is located on the 3rd Floor of Colebank Hall where the Coordinator of Student Activities also resides. The best way to contact the OSA is by emailing: [StudentActivitites@Fairmontstate.edu](mailto:StudentActivitites@Fairmontstate.edu)

The Office of Student Activities also oversees the registration and operations of over 50 Student Organizations, Clubs, Honor Societies and Greek Life Communities.

## STUDENT ORGANIZATIONS

Fairmont State has over 50 student organizations that include clubs, Honor societies and Greek Life communities for the promotion of interests in various academic fields, the recognition of outstanding achievement in various campus activities, and for general social purposes. A list of currently active organizations can be found online at Fairmont State's home webpage under the Campus Life dropdown menu, and clicking on the "Student Organizations" link.

Please contact the Office of Student Activities for more information by emailing: [StudentActivitites@Fairmontstate.edu](mailto:StudentActivitites@Fairmontstate.edu)

## FORENSICS (PUBLIC SPEAKING, ORAL INTERPRETATION, AND DEBATE)

Fairmont State offers a variety of programs for all students interested in public speaking, oral interpretation, and debate. Participation in all of these activities is open to any full-time student in good academic standing at Fairmont State. All activities operate under the direction of the Communication and Theatre Arts faculty. The Intercollegiate Debate Squad participates annually in several intercollegiate debate tournaments and community-based events.

Students may participate in intercollegiate competitions in oratory, extemporaneous speaking, persuasive speaking, impromptu speaking, after-dinner speaking, and prose, poetry, and dramatic interpretation. All full-time students have the opportunity to participate in the Annual M.M. Neely Persuasive Speaking Contest. The contest is a public speaking event which is endowed by the heirs of the

late U.S. Senator and Governor of West Virginia, Matthew Mansfield Neely.

## INTERCOLLEGIATE ATHLETICS POLICIES

The program of intercollegiate athletics at Fairmont State is supervised by a Director of Athletics, who reports to the University President, the Fairmont State Athletic Association (FSAA), an athletic committee made up of faculty, and the Athletic Affairs committee made up of BOG members.

The general objectives of the intercollegiate athletic program at Fairmont State are to teach students the values of sportsmanship, good physical conditioning, and the disciplinary and social values of organized team play. Specific goals include training through participation for prospective coaches and physical education instructors and the acquisition of experiences and skills which may enhance recreational outlets following graduation.

In pursuance of the policies recommended by the North Central Association, the following minimum standards governing intercollegiate athletics are maintained:

- The ultimate responsibility for the conduct of the athletic program rests with the President of the University.
- Students participating in athletics are admitted by the Director of Admissions on the same basis as other students. Athletes are required to maintain the same academic standards as non-athletes.
- The award of scholarships, student loans, and student employment to athletes are made through the same agency of the Institution and on the same basis as grants of aid to all other students. All employed students are required to give full and honest work for pay received.
- All athletic funds are handled by the Business Office. An audit of the receipts and disbursements of these funds is made annually by the Legislative auditors.
- An effort is made to compete only with institutions having similar educational and athletic policies.
- Fairmont State is a member of the Mountain East Conference and the National Collegiate

Athletic Association (NCAA). Athletic participation is regulated and controlled by the eligibility rules of the Conference and the NCAA. Copies of these rules are on file in the Office of the Director of Athletics.

## **Progress-Toward-Degree Requirements**

To be eligible to represent an institution in intercollegiate athletic competition, a student-athlete shall maintain progress toward a baccalaureate or equivalent degree at that institution as determined by the regulations of that institution. As a general requirement, "progress toward degree" is to be interpreted at each institution by the academic authorities who determine the meaning of such phrases for all students, subject to controlling legislation of the conference or similar association of which the institution is a member.

## **Fulfillment of Minimum Hours and Grade-Point-Average for Student-Athletes**

A student-athlete shall meet the "satisfactory completion" provision of this requirement by maintaining a grade-point average that places the individual student-athlete in good academic standing, as established by the institution for all students-athletes who are at an equivalent stage of progress toward degree. To fulfill the "satisfactory completion" provision of this requirement, a student-athlete who first enters a Division II institution after 1988-89 academic year must achieve the following cumulative grade-point average (based on a maximum of 4.0) at the beginning of the fall term or at the beginning of any regular term of that academic year, based on the student-athletes earning:

- a. 24-semester or 36-quarter hours: 1.8;
- b. 48-semester or 72 quarter hours: 1.9;
- c. 72-semester or 108 quarters hours: 2.0; and
- d. 96-semester or 144 quarters hours: 2.0.

A student-athlete must meet the minimum cumulative grade-point average at the certifying institution based on the method of calculation used by the institution for calculation cumulative grade-point averages for all students, and the calculations shall include only course work normally counted by

the institution in calculating the cumulative grade-point for graduation.

## **INTERCOLLEGIATE SPORTS**

Fairmont State is a member of NCAA Division II, the Mountain East Conference and sponsors an intercollegiate athletic program of 16 sports: 7 sports for men: football, basketball, baseball, cross-country, golf, tennis and swimming, and 9 sports for women: tennis, golf, basketball, volleyball, swimming, softball, cross-country, soccer and acrobatics and tumbling. A cheerleading spirit squad which cheers for all home football and men's and women's basketball games is also offered for women and men. Fairmont State provides fine indoor and outdoor facilities and equipment for physical education and recreation. All students are free to participate in intercollegiate sports, intramural sports and in all recreational activities.

## **INTRAMURAL & CLUB SPORTS**

Intramural Sports offers students, faculty & staff at Fairmont State the opportunity to participate in many organized sports and activities on a competitive and recreation level. Its mission is to encourage, promote and develop active living and healthy lifestyles, as well as personal growth through competition and recreation. All skill levels are welcome and there is no fee to participate. Students must be currently enrolled in on-campus classes and/or have admission to the Falcon Center, and employees must be currently working on campus.

Our goal is to provide a structured sporting environment that maintains competition, camaraderie, physical fitness and fun while promoting sportsmanship and respect for competition among participants and spectators.

Events are organized for competitive play among groups, individuals and campus organizations in both semester long league sports as well as over 15 different single-night events. Our single night events include both tournament format and open play in such things as volleyball, dodgeball, ping pong, cornhole, Texas Hold'em, Knockerball, indoor soccer and many more.

Several club sports are organized on the campus and students currently enrolled in at least 6 credit hours

with a 2.0 or better GPA are eligible to participate. Current clubs include Men's and Women's Rugby, Cheerleading, Dance, Powerlifting, and Fishing. Club Sports are 100% Student supported with guidance from the Intramural Department. Contact information for each club team can be found on the web page or for additional information, please contact the Director of Intramurals & Recreation at (304) 367-4291 or email [tmascaro@fairmontstate.edu](mailto:tmascaro@fairmontstate.edu).

## MUSIC ORGANIZATIONS

Performing organizations in the Department of Music are open to all interested and qualified students.

Instrumental organizations include the Fairmont State Marching Band, Wind Ensemble, and Jazz Ensemble. Other ensembles include Woodwind Ensemble, Guitar Ensemble, Percussion Ensemble, African Drum and Dance Ensemble, and Piano Ensemble and are organized on demand under faculty supervision.

Vocal ensembles include: Collegiate Singers, the Chamber Choir and Community Chorus. Additional ensembles are organized on occasion under faculty supervision.

All musical ensembles present concerts on and off campus during the school year. Students may receive credit in the General Studies curriculum by performing in Marching Band, Wind Ensemble, Collegiate Singers, Jazz Ensemble, Chamber Choir, and Percussion Ensemble. Participating students are encouraged to apply for a School of Fine Arts Participation Scholarship. Interested students should contact the Department of Music, in the School of Fine Arts, for additional information at (304) 367-4169 or email [D.Eichenbaum@fairmontstate.edu](mailto:D.Eichenbaum@fairmontstate.edu).

## PUBLICATIONS

Student publications available on campus include The Columns, the student newspaper; The Mound, the yearbook; Whetstone, the student art and literary journal; and Tracts, the student scholarly journal.

Staff positions are open to all interested students, with approval of the respective editor and advisor. Application forms are available in 311 or 301 Jaynes Hall. Students participating as staff members may also receive variable course credit for their work.

Editors are responsible for staff assignments, and enrollment is by advisor permission.

Editor positions for the respective publications are competitive and chosen annually by the Student Publications Board, which governs all student publications.

Student publications allow students to hone their writing, editing, photographic, and graphic-design skills in professional settings, using advanced computer technology. The Columns is published six times per semester. The Mound, Whetstone, and Tracts are published annually. Whetstone showcases student writing and art and accepts submissions on a rolling basis. Kestrel: A Journal of Literature and Art is published biannually by the Department of Language and Literature. This journal features poetry, fiction, nonfiction, drama, translations, and visual art from art and literary professionals around the world. With a mission of promoting living literature and art, Kestrel acts as a cultural bridge to the community. Each year, Kestrel provides a three-credit internship to a junior or senior. Interested students should inquire through Dr. Donna J. Long, the editor, in 315 Jaynes Hall or at [Donna.Long@fairmontstate.edu](mailto:Donna.Long@fairmontstate.edu).

Additional publication opportunities are available through the Frank and Jane Gabor West Virginia Folklife Center: [www.fairmontstate/wvfolklife](http://www.fairmontstate/wvfolklife).

## RELIGIOUS ORGANIZATIONS

Organized religious groups on campus include the Wesley Foundation, sponsored by the United Methodists and Presbyterians; Chi Alpha, related to the Assemblies of God; and the Baptist Campus Ministry, related to the American Baptist Church. Other recognized religious organizations are: Campus Light Ministries, Increasing Our Faith, InterVarsity Christian Fellowship and Young Life. A complete list of active organizations is available in the office of Student Affairs.

The campus Roman Catholic Community gathers at the Newman Center which is located directly across the street from the entrance to Bryant Street Dormitory. The Newman Center is a full service campus ministry organization available to all administrators, faculty, staff and students. Weekend services are at 7 p.m. Saturday evening and 10 a.m. and 12 noon on Sunday. Contact the Newman Center at (304) 363-2300.

Contact the Wesley Foundation at (304) 363-8210 or [fairmontstatewesleyfoundation@yahoo.com](mailto:fairmontstatewesleyfoundation@yahoo.com) Web address for the Wesley Foundation is [www.fairmontstate.edu/SO/wesleyfoundation](http://www.fairmontstate.edu/SO/wesleyfoundation).

## STUDENT GOVERNMENT ASSOCIATION

Student Government actively seeks to supplement the academic atmosphere with intellectual, cultural, and social activities. Student Government members are involved in all aspects of life on campus and work cooperatively with the college administration, alumni, and community.

Every segment of the student body is represented in the Government. Members are elected each spring by the student body and receive special training for their positions. The association comprises a President, Vice President, Secretary, Treasurer, Parliamentarian, representatives of each class (Freshmen, Sophomore, Junior, and Senior), Board of Governor's Representative, House of Representatives, Statewide Advisory Council Representative, Faculty Senate, Director of Publications, Multicultural Representative, and Residence Hall Representatives. Student Government elects an advisor who must be a fulltime faculty or staff member.

Student Government meets weekly. All meetings are open to the public. Meeting location and times are subject to change; further information can be found on the Student Government website [www.fairmontstate.edu/stulife/student-government/student-government](http://www.fairmontstate.edu/stulife/student-government/student-government).

## THEATRE

Fairmont State offers an active theatre program for the benefit of performers, technicians, and theatergoers.

The Masquers, the official student theatrical organization since 1923, presents annually a season of plays, varied in style and period, usually in Wallman Hall during the fall and spring semesters. The plays are directed by the Communication and Theatre Arts faculty, or guest artists, and are designed by faculty, guest artists, or students under faculty supervision. Acting roles and positions on the production crews are open to the student body on a voluntary or course-credit basis. Participating students are

encouraged to apply for a School of Fine Arts Participation Scholarship. Performances are open to the public. Membership in The Masquers is open to the student body and is earned through participation with the theatrical productions.

Since 1960, The Masquers' Town & Gown Players has also presented a season during the summer months. Students enrolled in summer theatre courses work along with the members of the Resident Company (selected students receiving a grant for full-time acting and technical work) and members of the community. The Players bring a season of light theatre fare (comedies, musicals, children's plays) to Northern West Virginia theatergoers and provide a cultural, recreational, and educational outlet for all participants. The plays are directed, designed, and supervised by members of the Communication and Theatre Arts faculty or guest artists. Acting roles and positions on production crews are open to the public as well as to the students, faculty, and staff on a volunteer or course-credit basis.

Students who have demonstrated scholastic and production excellence are offered membership in the Alpha cast of Alpha Psi Omega, the National Theatre Honorary.

# Special Programs

## ACADEMIC COMMON MARKET

The Academic Common Market, a program coordinated by the Southern Regional Education Board (SREB), provides students in 16 southern states the opportunity to enroll in selected programs at public institutions in other states and pay in-state tuition. To qualify a student must:

- be a resident of one of the 16 SREB states;
- select a program eligible for residents of his/her home state;
- complete the admission process at the institution offering the eligible Academic Common Market program;
- be certified as a resident of the home state by contacting the ACM coordinator for the student's state of residence;
- register for a full schedule of courses that count toward the chosen major within the Academic Common Market;
- sign a contract acknowledging that adequate progress must be made each semester by the successful completion of courses required by the major.

Students may be removed from the Academic Common Market for failure to comply with these conditions.

For more information, contact the Office of the Provost at (304) 367-4101 or visit [www.sreb.org](http://www.sreb.org).

## ACADEMY FOR THE ARTS

Art, music, drama and dance classes and private lessons taught by student and professional instructors are available to community, college, secondary and elementary students for an additional fee.

Information may be obtained by contacting the School of Fine Arts office. College credit is not awarded for these courses.

## COMMUNITY SERVICE LEARNING

Service Learning is a national movement utilized in a number of colleges and universities in the United

States. It is the process of integrating volunteer community service with active guided reflection which enhances student understanding of course material. The distinguishing characteristic of service learning is its twofold emphasis on both enriching student learning and revitalizing the community. To accomplish this, effective service learning initiatives involve students in:

- Understanding the connections between textbook and experiential knowledge;
- Enhancing students' self-esteem through meaningful contributions to the community;
- Engaging students in decision making, critical thinking, and application of learned skills;
- Providing human resources to meet the educational, human, safety and environmental needs of the community;
- Creating a spirit of civic responsibility and leadership.

The pedagogy of service learning represents a substantial change from the traditional curriculum and promotes education as a "process of living" which encourages the processing of information, as well as its accumulation. This constant restructuring of information exemplifies the continuity and reality that exists between life experience and knowledge. Community Service Learning courses are coordinated by Julie Gomez in the Office of Civic Engagement as part of the Career Development Center located in the Turley Student Services Center.

## THE ENGLISH AS A SECOND LANGUAGE (ESL) PROGRAM

The English as a Second Language (ESL) intensive English program is open only to non-native speakers of English who have a serious desire to improve their language skills. This ESL program is useful to working professionals and to students preparing for university study or professional programs. The program has been offered since 1989 and follows the standards set by the National Association of Foreign Student Advisors (NAFSA) and Teaching English to Speakers of Other Languages (TESOL).

The ESL Program offers three sessions yearly and follows the traditional academic schedule. Classes meet four hours daily, four days per week. In order to accommodate varying academic and travel schedules,

new students may enroll on three admission dates occurring every five weeks during the semester.

The course of study is based on an integrated skills approach with listening, speaking, reading, grammar, and writing components. Fluency and accuracy in both spoken and written English are emphasized. Classes average five to ten students. The small class size allows each participant a maximum amount of individual attention and an opportunity to develop conversational skills. ESL classes are pass/fail and do not count toward graduation.

English as a Second Language classes are offered at two levels given sufficient enrollment. For more information on the ESL Program, please contact Dr. Angela Schwer, Chair of the Department of Language and Literature, at 304-367-4723.

## THE FRANK & JANE GABOR WEST VIRGINIA FOLKLIFE CENTER

**Francene Kirk**

**(304) 367-4403**

**[www.fairmontstate.edu/wvfolklife/default.asp](http://www.fairmontstate.edu/wvfolklife/default.asp)**

This interdisciplinary center for West Virginia's cultural heritage comprises academic programs, research library and archives (folklore, music, literary, and artifact collections), publications, exhibitions, public programs, and other activities. The Frank & Jane Gabor West Virginia Folklife Center is dedicated to the identification, preservation, and perpetuation of our region's rich cultural heritage, through academic studies; educational programs, festivals, and performances; and publications.

The Folklife Center is located in an adaptive reuse of historic properties on the west side of campus, formerly known as The Colonial Apartments (c.1941) and The Kennedy Barn site (c.1903) on the original location of the Michael Kennedy Dairy Farm. The property was named to the National Register of Historic Places in 2006. Mailing Address: 1201 Locust Avenue, Fairmont, WV 26554

## ACADEMIC STUDIES

Two academic minors in the College of Liberal Arts are physically housed at the Gabor WV Folklife Center: Folklore Studies (19 hours, Department of Language and Literature) and Museum Studies (18

hours, Department of Social Sciences/History). These interdisciplinary academic minors can be attached to most liberal arts majors.

A folklore studies specialization prepares the student for graduate studies and professional involvement in such areas as teaching, archiving, preservation, historical parks and museums, entertainment and storytelling. The study of folklore and folklife involves examination and analysis of traditional expressive culture in all its forms, including oral, customary, and material. In every society, agricultural and industrial, rural and urban, folklore is a vital part of life. Since folklife is a study of the humanist expression that is handed down by tradition rather than by writing, it is related to all departments that deal with literature, art, and music. Since folklore also deals with the entire traditional culture of mankind as manifested in customs and beliefs, it has close affiliations with anthropology, psychology, sociology, history, philosophy, linguistics, design and pedagogy.

The Museum Studies minor program provides students with a solid foundation in the various components of museum organization, practices, and pedagogy, including collections management, exhibit development and production, museum interpretation and education, and a broad understanding of museum concepts. The program develops students' ability to work in various types of museums, including history, art, and natural history museums. Students are prepared for positions in small to medium size facilities as well as further graduate studies.

## ARCHIVES

The Gabor WV Folklife Center houses the unpublished folklore estate of Ruth Ann Musick, folk tale scholar, who was the archivist for the WV Folklore Society and editor of West Virginia Folklore Journal that was published at Fairmont State. Dr. Musick bequeathed to Fairmont State her folklore estate for academic study, programming, and publications.

Other collections archived in the Folklife Center include the West Virginia Literary Archives, compiled by Phyllis Wilson Moore; the Patty Looman traditional music archives (papers, tabulated music, and collection of recordings; other collections; and

various artifacts representing all aspects of West Virginia's cultural and historical lore. The Folklife Center welcomes donations of suitable artifacts that help interpret West Virginia folklife, such as photographs, letters, family memorabilia, journals, oral histories and folklore, heirloom items, or others.

## **PUBLICATIONS**

The Frank and Jane Gabor West Virginia Folklife Center publishes two journals through the Fairmont State Press established in 2004:

*Traditions* is a journal of West Virginia folk culture and educational awareness. First published in 1993, this annual periodical emerged from the West Virginia Humanities Summer Seminar for Teachers, *Appalachian Culture: Texture, Text, and Context*, a Folkloric Approach to Learning. *Traditions* is the continuation of *West Virginia Folklore*, published at Fairmont State from 1951 to 1983. *Traditions* is supported by Fairmont State, the Gabor WV Folklife Center, and the West Virginia Humanities Council.

*Hillchild* is a folklore chapbook about, for, and by children of West Virginia. First published in 2002, it is supported by Fairmont State, the Gabor WV Folklife Center, and the West Virginia Humanities Council.

The press has also published *Mountain Mother Goose: Child Lore of West Virginia*, children's folklore collected by Ruth Ann Musick and Walter Barnes; a memoir, *The Dulcimer Man: The Russell Fluharty Story*, with companion CD; and *From A Place Called Solid: West Virginia and its Writers*, a literary map of West Virginia.

## **SPECIAL PROGRAMMING**

The B.B. Maurer WV Folklife Scholar Award annually honors a person who has made an outstanding contribution to the preservation and perpetuation of our Appalachian cultural heritage. This award is named for Dr. B.B. Maurer (1920 - 2003), considered the "Father of Cultural Studies in West Virginia."

The Traditions Salute Award recognizes passion and commitment towards the enhancement of West Virginia folk culture through education and public resources.

The Gabor WV Folklife Center Achievement Award is a special recognition award in an area of folklore studies.

Public lectures, presentations, performances, concerts, demonstrations, workshops

Tours and programs at the Folklife Center for community and school groups, by arrangement

Summer Teacher Institutes in partnership with the West Virginia Humanities Council

## **Folk Festivals, Summer Celebrations, and Events**

Study Abroad Travel Programs, such as Roads to Appalachia through Scotland and Ireland; Italy; England and Wales; Eastern Europe; Germanic Roots.

## **FRASURE-SINGLETON STUDENT LEGISLATIVE PROGRAM**

The Frasure-Singleton Student Legislative Program provides students the opportunity to observe the West Virginia Legislature for one week during its regular legislative session. Participants are assigned to a legislator who assists in explaining the legislative process. They attend committee meetings and public hearings where legislation and issues are discussed. They sit on the Floor during daily sessions, surrounded by legislators with issue research, constituent requests and other legislative tasks. In addition, participants meet with representatives from all branches of state government, lobbyists, reporters, and legislative staffers.

The program is open to full-time college sophomores, juniors, and seniors from all fields of study. Applicants must be in good academic standing and have successfully completed at least one Political Science course. Participants will earn one semester hour of credit.

### **For more information, contact:**

**Dr. Bill Harrison**

**HB 128A / (304) 367-4163**

**wharrison@fairmontstate.edu**

## **HERNDON LEGISLATIVE FELLOWS PROGRAM**

The primary goal of this program is to instruct selected full-time undergraduates in the theory and operation of legislative bodies in multi-dimensional roles. Participants will be designated as legislative interns and will perform assignments in the West

Virginia Legislature for the duration of its session. They will spend a full semester in the study of the operation, role, and functions of legislative bodies.

To be eligible for this program, students must have completed a minimum of 60 undergraduate semester hours or equivalent, with a grade point average sufficient to admit them to the degree program of their choice. At the time of application, students must be enrolled at their home institutions on a full-time basis and cannot be on academic or social probation. Students may not serve as interns if they are subsequently placed on academic or social probation for the period which would include the internship. Each applicant must have taken at least one college course in political science unless, in the judgment of the selection committee, the student's record displays an active and sustained interest in public affairs or the political process, at which time the course requirement may be waived.

**For additional information, contact:**

**Dr. Bill Harrison**  
**HB 128A / (304) 367-4163**  
**wharrison@fairmonstate.edu**

**THE HONORS PROGRAM**

**J. Robert Baker, Director**  
**231 Turley Center / (304) 367-4197 or (304) 367-4260**  
**JRobert.Baker@fairmontstate.edu**

Fairmont State's Honors Program identifies and encourages highly motivated, academically superior students. Working within a curriculum that promotes engagement and participation, these students enroll in Honors sections of general studies classes. The faculty teaching these Honors sections are among the best the University has to offer. Honors sections are designated in the published schedule of courses each semester and noted on students' transcripts. Honors courses vary according to the program of study each student designs. Generally, however, students take two Honors courses each semester during their first two years at Fairmont State. During their senior year, students complete six hours for a senior project linked to their majors. This project allows students to apply their developing intellectual skills in independent research, internships, and creative projects; it is

designed also to help prepare students for graduate study or employment.

The Honors Program encourages students to work closely with other Honors students and the Honors faculty to explore ideas from various perspectives. Beyond the curriculum, Honors students participate in field trips, lectures, and cultural events.

Honors students may apply to live in the Honors Residence in Prichard Hall, which offers a supportive community in which students can study and enjoy co-curricular activities with like-minded students.

**HONORS CURRICULUM**

Honors Seminar .....	1 credit hour
Honors Composition .....	3 credit hours
Honors Literature .....	3 credit hours
Honors Science.....	3-4 credits
Honors U.S. History .....	3 credit hours
Honors Philosophy or World Civilizations .....	3 credit hours
Honors Fine Arts or Communications.....	3 credit hours
Honors Social or Behavioral Science .....	3 credit hours
Honors Interdisciplinary Studies .....	3 credit hours

SENIOR PROJECT IN HONORS .....6 credit hours

**LEADERSHIP CERTIFICATION**

Fairmont State provides students with the opportunity to develop their leadership abilities, regardless of their academic major or minor. Leadership Certification is an interdisciplinary humanities program based in the liberal arts and grounded in theory and practical experience. It is designed to enhance a student's college career by linking leadership to self-awareness, personal growth, organizational theory and practical experience in community service.

**Required Courses:**

- Leadership Certification 12 SEM. HRS.

INTR 3330 EMPOWERING LEADERSHIP .....	3
-OR-	
BSBA 3330 EMPOWERING LEADERSHIP .....	3
-OR-	
HONR 3330 EMPOWERING LEADERSHIP .....	3
INTR 3331 GREAT IDEAS OF LEADERS.....	3
MGMT 3390 ORGANIZATIONAL BEHAVIOR .....	3
-OR-	
PSYC 4410 THEORIES OF PERSONALITY .....	3
HUSV 1103 COMMUNITY SERVICE LEARNING .....	3

-OR -  
HONR 1103 COMMUNITY SERVICE LEARNING ..... 3

**For more information on Leadership Certification contact:**

**J. Robert Baker**  
320 Jaynes Hall/(304)367-4260  
JRobert.Baker@fairmontstate.edu

## PRE-PROFESSIONAL AND PRE-PROGRAM STUDIES

Pre-professional and pre-program studies are not academic majors; rather, they are designed to prepare students to apply to a program or school that awards a specific degree. Two distinct types of preparatory studies exist at Fairmont State.

1) Pre-program studies prepare students to apply to a competitive undergraduate degree program, either at Fairmont State or at a different institution. Before a student is accepted into the nursing program, for example, he or she will be assigned a pre-nursing advisor and will have no official major. Pre-program status exists for both two-year and four-year programs.

Pre-program studies for which a degree program exists at Fairmont State include pre-education and pre-nursing.

2) Pre-professional studies prepare students to apply to professional schools at another institution after they have completed specific undergraduate coursework at Fairmont State. Professional schools include medical, dental, engineering, pharmacy, physical therapy, veterinary or law school. Admission to professional schools is highly competitive and often requires successful completion of standardized tests and other special requirements. All students who plan to apply to professional schools are asked to declare an academic major and pursue a 4-year degree at Fairmont State while completing the coursework specified by the professional school they desire to attend. Students who indicate an interest in pre-professional study will be given an advisor in the major area and an advisor specific to the pre-professional study they plan to pursue. Students should also carefully consult the catalog admission

requirements of the professional school that they plan to attend.

Pre-professional studies for which a degree program exists at other institutions, but for which a student can prepare while at Fairmont State, include pre-dental, pre-engineering, pre-medical, pre-pharmacy, pre-physical therapy, pre-journalism, and pre-law.

Please refer to the College of Science and Technology for:

PRE-DENTAL CURRICULUM  
PRE-ENGINEERING CURRICULUM  
PRE-MEDICAL CURRICULUM  
PRE-PHARMACY CURRICULUM  
PRE-PHYSICAL THERAPY CURRICULUM

Please refer to the College of Liberal Arts for:

PRE-JOURNALISM CURRICULUM  
PRE-LAW STUDIES

Please refer to the Department of Health and Human Performance Exercise Science Program for professional school preparation for:

- PHYSICAL THERAPY
- OCCUPATIONAL THERAPY
- PHYSICIAN'S ASSISTANT
- CHIROPRACTIC MEDICINE

## PUBLIC AFFAIRS INTERNSHIPS

The Political Science Department regularly becomes aware of internship opportunities at the local, state, and federal levels of government. These internships can be with members of the state House of Delegates and Senate, the United States Congress, city managers, public interest groups, or state and federal agencies. Internships can take place during the semester or during the summer months. While most of the internships do not include a salary, academic credit can be earned.

**For more information, contact:**

**Dr. Bill Harrison**  
HB 128A / (304) 367-4163  
wharrison@fairmontstate.edu

## REGENTS BACHELOR OF ARTS (RBA) DEGREE PROGRAM

The Regents Bachelor of Arts (RBA) Degree Program is a flexible, nontraditional program designed for adults in the belief that they are distinctly different from traditional undergraduates in their educational needs. The program can be tailored to fit those who need a degree for career advancement, those who have an associate degree in a field in which there is no corresponding bachelor's degree available, or those who seek intellectual development and personal fulfillment. The RBA degree has particular appeal for persons who have completed some college work in past years but did not obtain a degree.

### ADMISSION

Students who have graduated from high school at least four years ago and who have not completed a bachelor's degree are eligible for admission to the RBA program. Persons with high school equivalency certificates may be admitted four years after their high school class graduated. If an applicant has previous college credit, failing grades of F received four years or more before admission to the RBA program are disregarded from the student's GPA calculation once graduation requirements have been met.

Admission to the RBA Degree Program requires that the RBA Admissions Form be completed instead of the standard application to Fairmont State. However, all other admissions criteria such as submission of official high school and/or college transcripts and immunization records required for admission to Fairmont State are also required for RBA program admission. Admission to the RBA program does not provide for automatic admission to other programs at Fairmont State. Any RBA student must reapply and meet all admission requirements when changing from the Regents Bachelor of Arts (RBA) Degree Program to any other degree program at Fairmont State.

### DEGREE REQUIREMENTS

To qualify for graduation, candidates must accumulate a total of 120 semester hours of credit with a minimum quality point average of 2.00. At least 39 hours must be at the upper (3300 or 4400)

level. Students must complete 36 semester hours of General Studies courses, including the required semester hours in each of the following areas: Communications (6), Social Sciences (6), Natural Sciences (6), Mathematics or Computer Applications (3), Humanities (6), and 9 additional General Studies hours. At least 24 semester hours must be taken in the West Virginia State System of Higher Education and at least 12 of those credit hours must be completed at Fairmont State. The RBA is an interdisciplinary degree with no major area of emphasis. A minor field of study may be declared but is not required.

### COLLEGE-EQUIVALENT CREDIT

A unique feature of the RBA Degree Program is the possibility of obtaining college-equivalent credit for demonstrated college-level knowledge that has been learned in environments and agencies outside the classroom. To earn credit, students must demonstrate knowledge of learning objectives and outcomes equivalent to specific courses taught at Fairmont State or within the West Virginia State System of Higher Education. Students who have obtained any professional, state, or national licenses or certifications can request a review of the credentials to determine if they are eligible to receive college credit.

Portfolio evaluations are completed for enrolled students by faculty members who teach the course for which credit is sought. Portfolios should be submitted prior to semester midterm to ensure that sufficient time is available for evaluation. The fee for portfolio evaluation is \$300 regardless of whether or not credit is awarded. If credit is recommended, then the faculty members will also recommend the number of credit hours to be awarded along with the appropriate level (upper or lower). An additional \$10 per credit hour processing fee is required to transcript the credit.

Credit earned via portfolio or prior learning assessment does not count toward meeting the state or institutional residency requirements for the RBA program. Awarded credit hours will not be posted to a student's academic transcript until after residency requirements have been met.

Academic credit will only be awarded to students who are admitted to and currently enrolled in the RBA Degree Program. Students, however, cannot be awarded college-equivalent credit during their first or final semesters in the RBA program.

## WVROCKS/RBAS COURSES

Students admitted to the RBA Degree Program are eligible to enroll in courses available through the West Virginia Remote Online Collaborative Knowledge System (WVROCKS), which provides access to courses taught at colleges and universities across West Virginia via a statewide portal. The courses, given the prefix RBAS at Fairmont State, are all online, compressed (8-weeks), mostly upper level, and available only to RBA students.

For more information on the RBA program or the WVROCKS/RBAS courses, contact Pamela Stephens, Coordinator of the RBA Degree Program, 225 Turley Student Services Center, (304) 367-4709, rba@fairmontstate.edu.

## ROTC COURSES

Air Force and Army ROTC courses are available to full-time Fairmont State students at no additional charge by Fairmont State.

The Air Force courses are offered on the West Virginia University (WVU) campus in Morgantown and are registered for through Fairmont State's Records Officer in Enrollment Services.

Army ROTC courses are offered on the Fairmont State campus for the first two academic years. Students who wish to continue in Army ROTC for their last two academic years must sign a contract that will lead to commissioning as an officer in the US Army and attend classes on WVU's campus in Morgantown (at no additional charge).

### **Air Force ROTC Contact Information:**

**Phone: (304) 293-5421**

**E-Mail: det915@us.af.mil**

### **Army ROTC Contact Information:**

**Phone: (304) 293-7546**

**Email: armyrotc@mail.wvu.edu**

## STUDY ABROAD PROGRAMS

In keeping with a desire to provide more direct student enrichment programs in international education, Fairmont State provides Study Abroad opportunities to students enrolled in a formal degree or certificate program. Students may receive

collegiate academic credit for study and experience occurring outside the United States by enrollment in:

- 1) KEI programs ([www.keiabroad.org](http://www.keiabroad.org))
- 2) University of Calabria at Rende, Province of Cosenza, Italy;
- 3) Travel-study programs sponsored by Fairmont State;
- 4) a resident study abroad or travel-study program sponsored by FACDIS (The West Virginia Consortium for Faculty and Course Development in International Studies);
- 5) a program directed by faculty members from other West Virginia institutions;
- 6) a program sponsored by a US college or university or Consortium with institutional approval;
- 7) a foreign university as a special student;
- 8) an accredited US college or university abroad or
- 9) a program sponsored by an organization other than a college or university, with Fairmont State's approval.

Students will be required to obtain prior consent from their academic unit before registering for study abroad programs. Student also complete required institutional authorization paperwork.

Although such international experience is not required in all programs, study abroad is strongly recommended for students not only in the field of foreign languages, but in other fields as well (such as the humanities, social sciences, business, art, etc.). Resident study abroad programs or travel-study programs will be integrated with traditional academic courses offered at Fairmont State and will become part of the regular institutional curriculum. Study abroad is an important component of a comprehensive studies program which can contribute to the development and growth of the individual student and prepare the student to function more effectively in a global society. Participants in such programs will enhance their preparation for further graduate or professional studies and employment while deriving countless other benefits.

For additional information and authorization forms, visit the Study Abroad LibGuide at <http://guides.library.fairmontstate.edu/studyabroad> or contact the Study Abroad Advisor, Dr. Erin Hippolyte ([Erin.Hippolyte@fairmontstate.edu](mailto:Erin.Hippolyte@fairmontstate.edu)).

## THE UNIVERSITY OF CALABRIA EXCHANGE PROGRAM

Fairmont State offers an exchange partnership in which students may spend a semester or academic year studying abroad at the University of Calabria (UNICAL). Located in southern Italy, the University of Calabria was founded in 1972 as a state-run university and is one of just a few campus universities in Italy. Modeled from British and North-American campuses, the buildings are situated along a suspension bridge, approximately one mile long. Students live in specific residential blocks near the campus. The whole structure is swathed in green hills near Arcavacata di Rende, a small village six miles from Cosenza in the Region of Calabria. Today, UNICAL has a student population of 35,000, many from around the world, preparing for bachelor, master, and doctoral degrees in six faculties (colleges of academic programming):

humanities/letters/philosophy, economics, political sciences, engineering, sciences, and pharmacy. Strategically located in the heart of the Mediterranean world, students at UNICAL have many opportunities to travel to other parts of Italy and surrounding countries during the exchange period. Students wanting to participate in the University of Calabria Exchange Program are required to have completed two semesters of Italian or demonstrate the equivalent language proficiency. Classes in elementary and intermediate Italian are offered through the Department of Language and Literature in the College of Liberal Arts at Fairmont State

In turn, as part of the exchange partnership, Fairmont State is listed as one of the 26 destinations that UNICAL students may consider for their international study abroad experience. Under the direction of the university's International Relations Unit, called Erasmus, UNICAL students are selected for a study abroad experience of one semester or an academic year through a competitive scholarship process of academic application and review. For additional information about the University of Calabria, visit its website [www.unical.it](http://www.unical.it). For more information about the UNICAL Exchange Program contact The Office of the Provost and Vice President of Academic Affairs, Dr. Richard Harvey ([Richard.Harvey@fairmontstate.edu](mailto:Richard.Harvey@fairmontstate.edu)).

## THE WASHINGTON CENTER INTERNSHIP PROGRAM

The Washington Center for Internships and Academic Seminars gives students the opportunity to live and work in one of the most important cities in the world, and to experience the professional arena, cultural diversity and educational opportunities of the nation's capital. If accepted into the program, students are placed with a program manager who helps them obtain an internship in the field of their choice, whether it be for-profit, nonprofit or government work. The Washington Center Internship allows students to:

- Develop professional skills
- Clarify personal goals
- Improve research and communication skills
- Meet people from across the country and the world
- Prepare for life after college
- Give perspective on their studies
- Investigate a profession of interest
- Apply academic learning to the work world

**For additional information, contact the Office of Career Development Center at (304) 367-4214 or email [careers@fairmontstate.edu](mailto:careers@fairmontstate.edu).**

## Honorary Degrees

The President of the University shall make nominations for Honorary Degrees to the institutional Board of Governors. After consideration of the nomination and consultation with the President, the Board of Governors shall approve or decline the President's nominations.

# Academic Information

- Workshops sponsored by the Office relevant to maximizing academic success and to improving advising processes.
- Referral assistance to campus and community services.

## ACADEMIC ADVISING SYSTEM

Students are assigned academic advisors when they first enroll at Fairmont State. Those students who are not ready to select a major upon entrance will be assigned to the Office of Exploratory Advising. Students wanting to change their major fields of study may obtain a Major/Minor/Concentration Update Form from Enrollment Services. That form needs a signature from an advisor in the new major. Students should discuss problems relating to degree requirements, registration, and withdrawals from class or college with their advisors. (See below)

## OFFICE OF EXPLORATORY ADVISING

(304) 367-4709  
advise@fairmontstate.edu

The purpose of the Office of Exploratory Advising is to provide Undecided students, Pre-Nursing students, and undergraduate Non-Degree Seeking students with interpersonal professional support. A concerted effort is made to address any academic concerns that may impede the student's successful completion of degree requirements and to assist the student in the selection of an academic program.

The Office is located in 317 Turley Student Services Center.

### Services:

- Formalized advisor-advisee conferences scheduled by appointment throughout the semester for undecided students.
- Academic assistance and guidance during posted walk-in hours for students with general advising concerns or questions.
- Academic advising for all new, transfer, and readmitted undecided students at Orientation.

## ASSESSMENT OF STUDENT ACADEMIC ACHIEVEMENT

Fairmont State employs a variety of assessment processes to inform students of progress in courses and clinical experience and toward degrees, to analyze programs in order to make appropriate curricular changes, and to determine institutional effectiveness. The university follows policies of the Higher Learning Commission of the North Central Association of Colleges and Schools, the WV Higher Education Policy Commission, policies of specific academic and professional accrediting bodies, and its own governing board.

In addition to regular course examinations and presentations, assessments used include field tests of proficiency in the major; electronic portfolios; capstone projects; internships; clinical practice reviews; and juried performances. Some programs, such as nursing and teacher education, also require nationally normed entrance and exit examinations. All degree programs analyze and review their effectiveness every five years, reporting this information to the WVHEPC and the Fairmont State Board of Governors. Programs also engage in an annual review process to assess the effectiveness of academic programs and learning experiences. The institution reports its overall progress to the HLC every ten years.

### College Level Examination Program (CLEP)

Students who wish to obtain credit by examination should check with the Center for Workforce Education for test availability by calling (304) 367-4920 or (304) 367-7254.

### Placement Testing

In order for you and your advisors to create a schedule that best meets your academic abilities and prepares you for the academic requirements of your program, you may be required to take certain assessments in math and/or English. Your test results

may require that you enroll in one or more co-requisite courses. Completing these required courses in your first semester(s) will help to ensure your greatest chance of success in college. All assessments are free of charge.

For information regarding placement testing, please contact the Tutoring Center.

### Core Academic Skills for Educators Test (CORE)

Students must earn passing scores on all three sections (reading, mathematics, and writing) in order to be admitted to Teacher Education. Other requirements exist for admission to Teacher Education. Applicants must register for a test administration date online at: [www.ets.org/praxis](http://www.ets.org/praxis). Information is available in 345 Education Building.

### PRAXIS II Specialty Area Exams and Principles of Learning and Teaching (PLT) Tests

Students graduating with a Bachelor of Arts Degree in Education are required to take these tests and to achieve the minimum acceptable score for each teaching specialization and developmental level in order to be recommended for licensure. Students normally should take the Specialty Area Exams during the semester prior to their student teaching semester. The PLT exam should be taken during the final semester of their senior year. Applicants must register for a test administration date online at: [www.ets.org/praxis](http://www.ets.org/praxis). Information is available in 340 Education Building.

## GRADING SYSTEM

The following system of grading is used at Fairmont State:

- A - Superior. Given only to students for exceptional performance
- B - Good. Given for performance distinctly above average in quality
- C - Average. Given for performance of average quality
- D - Lowest passing grade, for performance of poor quality
- F - Failure. Course must be repeated if credit is to be received
- I - Incomplete, a temporary grade given only when students have completed

more than 70% of the course, but are unable to conclude it because of unavoidable circumstance. Beginning with courses taken during the first semester, 1975-76, the letter grade "I" will be omitted from the calculation of the grade point average for a period of one year following the issuance of the "I." At the end of the one-year period, the instructor must submit a final grade. If no change is made by the instructor, the grade "I" will be changed to "F." Students must never register for a course in which they have an incomplete grade.

- W - W - Withdrew
- CR - Credit/grade of "C" or higher. Does not affect quality points (see below)
- NC - No Credit. Does not affect quality points
- NCX - No Credit, indicating a significant lack of effort. Does not affect quality points.
- NR - Not Reported. Given when instructor has not submitted grade
- S - Satisfactory. Given for Continuing Education courses only
- U - Unsatisfactory. Given for Continuing Education courses only

## QUALITY POINTS

The value of a student's work is indicated by quality points. Candidates for graduation must have at least twice as many quality points as GPA hours; that is, a point-average of 2.0 on all college work. Quality points for grades A, B, C, D, are computed as follows:

- A - Four (4) quality points for each semester hour of credit
- B - Three (3) quality points for each semester hour of credit
- C - Two (2) quality points for each semester hour of credit
- D - One (1) quality point for each semester hour of credit

Students' grade averages are determined by dividing the number of quality points by the number of GPA hours. No quality points are attached to grades of F, but the GPA hours for the courses in

which these grades are received will be used in computing grade averages.

In order to graduate, candidates for degrees must maintain a grade point average of 2.0 or better in all college courses and in all credit earned at Fairmont State. An average of 2.0 must also be maintained in the major and minor fields of study. Students in the teacher education program must attain a grade point average of 2.75 overall, in each teaching field and in professional education.

It is the student's responsibility to remain informed of quality point standing. This information can be obtained at any time from the Registrar's Office.

#### EXAMPLE FOR COMPUTING GRADE-POINT AVERAGE

Courses.....	Final ....	Quality .....	Sem. ....	Quality Taken .....	Grade ....	Points .....	X... Hours =	Points(Total)
ENGL 1101 .....	A.....	4.....	3 .....	12				
BIOL 1101 .....	D.....	1.....	4 .....	4				
HIST 2211.....	B.....	3.....	3 .....	9				
SOCY 1110 .....	C.....	2.....	3 .....	6				
POLI 1100.....	B.....	3.....	3 .....	9				
MATH 1510 .....	W.....	.....	.....	.....				
		13.....	16 .....	40				
40 Quality Points								
16 Semester Hours = 2.5 Grade-Point Average								

#### CREDIT/NO CREDIT OPTION

Any student who has completed 58 or more semester hours of credit may select one course per semester on a credit/no credit basis; such courses are to be considered part of the regularly scheduled load. A maximum of 18 semester hours may be completed with this option.

Students may not choose this option for the following courses:

- a) Major and minor
- b) Education certification program

Courses taken under this option will be recorded but will not be reflected in the quality point index. Credit courses will count toward graduation.

Selection of a course for credit/no credit must be made at registration with the approval of the student's academic advisor, and may not be changed after the end of the add-drop period.

The grade of CR means C or better.

#### PRESIDENT'S LIST

Students who register and receive letter grades for 12 or more hours taken at Fairmont State (excluding credit or audit marks), in any given term, and attain a grade point average of 4.0 join a select group of individuals and are named to the President's List.

#### DEAN'S LIST

Students who register and receive letter grades for 12 or more hours taken at Fairmont State (excluding credit or audit marks), in any given term, and receive a grade point average of 3.4 or better are considered honor students and are named to the Dean's List.

#### GRADE REPORTS

Students can access mid-term and final grades by logging on to [my.fairmontstate.edu](http://my.fairmontstate.edu) and entering Felix and then selecting Student and Financial Aid, and then student records.

#### ACADEMIC PROCEDURES

##### Auditing Courses:

Students may be permitted to attend classes as auditors if they obtain written permission from their advisor and instructors in the classes they want to audit. A student who enrolls in any class as an auditor may not, in the same semester, be considered as enrolled in the class for the purpose of obtaining credit.

Auditors are required to complete the regular registration process and pay regular fees. The decision to audit a course must be made during the add-drop period.

##### Classification of Students:

Students are classified according to the number of credit hours earned as follows:

- Freshman 0-29
- Sophomore 30-59
- Junior 60-89
- Senior 90+

**Declaring a Major:**

All undecided Fairmont State students must select a major field of study by the end of their sophomore year (60 hours).

**Dropping a Class(es):**

Students may drop a course(s) with a "W" being recorded up to the Friday during the:

- a) 10th Week of a Full Semester
- b) 5th Week of the 1st 8 Week Session
- c) 5th Week of the 2nd 8 Week Session
- d) 5th Week of the Weekend College
- e) 3rd Week of the 1st 5 Week Summer Session
- f) 3rd Week of the 2nd 5 Week Summer Session
- g) 8th Week of the 10 Week Summer Session

Students may drop a course by logging on to my.fairmontstate.edu and then Felix.

**Excessive Course Withdrawal Fee:**

(Effective August, 2006) Students who drop individual classes will be charged a \$50.00 fee for each course from which they withdraw or for each course they drop after the allowable maximum. Students may withdraw from a total of eight courses before the fee is charged.

**Late Registration:**

Late registration fees are assessed in accordance with the fee schedule cited under "Expenses and Financial Aid." Late registrants often fail to obtain satisfactory schedules; the policy of the institution is to give priority to students who register on time.

**Numbering of Courses:**

Courses for freshmen (1100 series) and sophomores (2200 series) constitute the lower level of curriculum. Courses numbered (3300-4499) are primarily for juniors and seniors. Courses numbered 5000 and above are graduate courses. All General Studies requirements consist of lower-level course options which should be completed by the end of the sophomore year.

Students are strongly advised to take at least eight hours of General Studies courses each semester until the requirements have been met.

**Repeating a Course (Revised: Effective Fall 2018) for coursework earned fall 2018 or later:**

Fairmont State enforces Series 22 of the West Virginia Higher Education Policy Commission as follows:

*If a student earns a grade of "D" or "F" (including failures due to regular and/or irregular withdrawal) on a course taken prior to the receipt of a baccalaureate degree, and if that student repeats this course prior to the receipt of the baccalaureate degree, the original grade shall be disregarded and the grade or grades earned when the course is repeated shall be used in determining the grade point average. The original grade shall not be deleted from the student's record.*

*In upper division courses, a student may formally repeat up to eight credit hours of a grade of "C". The privilege of the "D" and "F" repeat is capped at 21 credit hours including any request for a "C" repeat in an upper division course. The 21-hour cap is firm and shall not be exceeded. Repeat course forgiveness assigned on work earned prior to Fall 2018 (including repeats posted to pre-admission transfer work) is disregarded for this limit. In order to qualify for repeat-course forgiveness, written permission must be obtained from the appropriate dean/departments chair of the academic unit where the student's major is housed.*

**Once a grade is removed from the GPA calculation via repeat-course forgiveness, it may not be altered further.** Students who repeat a previously passed class may have limitations on financial aid eligibility for that class.

Courses completed at FSU with a grade of "D" or "F" may be repeated at any West Virginia public institution, provided the course at the other institution is deemed an equivalent course by FSU and the above stipulations are met. Regularly enrolled students who complete work at another regionally accredited institution must secure written permission from the registrar before attempting such coursework. The transfer grade policy will apply to these grades.

Courses transferred from other regionally accredited institutions that are legally repeated at FSU will be a part of the repeat process, provided the course at the other institution is deemed an equivalent course by FSU and the above stipulations are met.

**For coursework earned prior to Fall 2018:**

All students currently enrolled, beginning Fall 2018, shall start with a clean slate of 21 repeat credits. Each student shall be eligible for 21 credits of repeated courses regardless of any earlier recorded repeats appearing on the transcript. The student's grade point average shall be based on the subsequent grade or grades, not the original grade of D or F. The original grade shall not be deleted from the student's record, and will be removed only from the calculation of the GPA.

Once a grade has been removed from the GPA calculation via repeat-course forgiveness, it may not be altered further.

**Schedule Changes:**

From the time of initial registration and until the end of the add/drop period, as defined by part of term rules, students can drop and/or add classes. Individual classes that are dropped during this period do not appear on students' transcripts.

**Semester Load:**

In order to be considered for permission to carry more than 18 hours in a given regular fall or spring semester, a student must have an overall GPA of 3.0. In addition, the student must have a 3.0 GPA from the previous term OR be enrolled in the last semester prior to graduation. Student Credit Load Exception forms must be signed by the Dean of the College and Provost if the student is taking over 21 hours.

During the summer sessions, the maximum semester load is 12 hours. In order to be considered for permission to carry more than 12 hours in the summer sessions, a student must have an overall GPA of 3.0. In addition, the student must have a 3.0 GPA from the previous term OR be enrolled in the last semester prior to graduation. Student Credit Load Exception forms must be signed by the Dean of the College and Provost if the student is taking over 15 hours.

**Summer School:**

Fairmont State offers a 10-week summer session each year. Courses are offered at a wide variety of times and locations to accommodate both traditional

and nontraditional schedules including both day and evening offerings at the Main Campus, the Caperton Center and other off-campus locations. Class terms include two 5-week sessions, a 10-week session, and an 8-week Weekend College session. Virtual courses and intensive courses are also available.

The requirements for admission and the character of the work required are the same for the summer session as the regular academic year. All campus activities and facilities are available to students during the summer session.

**Withdrawal from Fairmont State:**

Students can withdraw from the institution and all classes prior to the last week of classes. Students who fail to follow this procedure will receive grades of "F." To drop all classes in a semester, follow these links after logging into FELiX: Student and Financial Aid > Class Scheduling > Withdraw from a selected term. Students are urged to print a copy of the transaction for their records.

## ACADEMIC REGULATIONS

The Student Handbook contains information concerning student rights and responsibilities, attendance, absences, and matters of academic dishonesty. Students are responsible for familiarizing themselves with these policies.

## ACADEMIC DISHONESTY

All students and faculty members are urged to share in the responsibility for removing every situation which might permit or encourage academic dishonesty. Cheating in any form, including plagiarism, must be considered a matter of the gravest concern. Cheating is defined here as the obtaining of information during an examination; the unauthorized use of books, notes, or other sources of information prior to or during an examination; the removal of faculty examination materials; the alteration of documents or records; or actions identifiable as occurring with the intent to defraud or use under false pretense.

Plagiarism is defined here as the submission of the ideas, words (written or oral), or artistic productions of another, falsely represented as one's original effort or without giving due credit.

For the application of the Academic Dishonesty Policy go to:

<http://www.fairmontstate.edu/publications/CampusHandbooks/studenthandbook/default.asp>

## ACADEMIC FORGIVENESS POLICY

For purposes of grade-point average required for graduation, public colleges and universities shall have discretionary authority to establish academic forgiveness in addition to the "D/F" repeat provisions. However, institutionally established provisions must be consistent with this rule. If institutions elect to disregard prior "D" and/or failing grades, such action must accommodate the following minimal conditions:

4.1.a. Students must not have been enrolled in college on a full-time basis during any semester or term in the last four consecutive years.

4.1.b. Only grades for courses taken at least four years prior to the request for academic forgiveness may be disregarded for grade-point average computation.

4.1.c. In cases where grades may be disregarded for grade-point average computation, these grades shall not be deleted from the student's permanent record.

4.1.d. In instances where students request and gain academic forgiveness from one college or university and then transfer to another institution, the receiving institution is not bound by the prior institution's decision to disregard grades for grade-point average computation.

4.2. The provisions included herein shall be considered as minimum standards for extending academic forgiveness provisions. Consistent with institutional policies and mission, individual colleges and universities may impose more stringent provisions in the area of disregarding prior grades for grade point average computation for graduation.

4.3. Institutional policies regarding academic forgiveness for grade-point average computation shall be stated in the institutional catalog. In addition to providing information on the manner in which such provisions may be applied at that institution, the

catalog and/or such other publications as are appropriate shall inform students that academic forgiveness extended by one institution may or may not be recognized by other institutions in which the student may transfer.

**Academic forgiveness will be granted only once for any student. The academic forgiveness policy may be applied after a student has earned 12 credit hours that apply toward graduation, with a minimum GPA of 2.0. The Registrar will give consideration to a request for forgiveness when s/he receives a signed, written request from the student which certifies that the student has not been enrolled as a full-time student (12 or more credit hours) in any institution of higher learning during the four consecutive academic years immediately preceding the readmission semester.**

**The academic forgiveness policy does not alter, change, or amend any other existing policies at FSU and is formulated to be consistent with Series 20 of the West Virginia Higher Education Policy Commission. This policy pertains only to the calculation of the of the GPA required for graduation and does not pertain to GPA calculated for special academic recognition (such as graduating with honors) or to requirements for professional certification which may be within the province of licensure boards, external agencies, or the West Virginia Board of Education. The Regents Bachelor of Arts Degree Program is governed by a different forgiveness policy.**

## PROBATION/SUSPENSION POLICY

(Revised February 23, 2016)

### Satisfactory Academic Standing

A student is deemed to be in Satisfactory Academic Standing when his/her cumulative grade point average, based upon coursework taken at Fairmont State, is 2.0 or higher.

### Unsatisfactory Academic Standing

A student is deemed to be in Unsatisfactory Academic Standing when his/her cumulative grade

point average, based upon coursework taken at Fairmont State, is below 2.0.

30-59	1.75
60+	2.00

### Academic Warning

At the end of each term, an active student whose term GPA falls below a 2.0 will be placed on Academic Warning and a notation of Academic Warning will be placed on the academic transcript. Academic Warning is not punitive and does not alter or affect a student's current or subsequent term registration. Instead, the student will be referred to various and appropriate academic offices for guidance, tutoring or other services as required. A student on Academic Warning is required to meet with his/her assigned academic advisor. This policy does not supersede the Academic Suspension policy.

### Academic Probation

- 1) The status of Academic Probation is automatically applied to a student when the cumulative grade point average, based upon coursework taken at Fairmont State, falls below 2.0.
- 2) The status of Academic Probation will be removed only after the cumulative grade point average, based upon coursework taken at Fairmont State, is 2.0 or higher.
- 3) A student who is placed on Academic Probation may continue to enroll on a full-time basis, but will be limited to 15 semester hours.

### Academic Suspension

The academic record of each student on probation will be reviewed at the end of each regular (fall and spring) semester with regard to Academic Suspension. The following guidelines will be used in the review:

- 1) Academic Suspension occurs when a student's cumulative grade point average, based upon coursework taken at Fairmont State, falls below the minimum required GPA, determined as follows in relation to overall institutional and transfer hours attempted:

#### **\*Attempted hours at Fairmont State plus transfer credits**

Credit Hours\* FAIRMONT STATE Courses Only - GPA (Excluding Transfers)

16-29	1.45
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2) The suspension list will be compiled at the end of the fall and spring semesters.

3) A student will be placed on probation for one (1) semester before he/she is subject to Academic Suspension (see Academic Probation above).

4) A student can be placed on suspension if he/she has been on probation in any previous semester.

5) No student with a current semester GPA of 2.0 or higher will be subject to Academic Suspension.

6) A student who is academically suspended will not be permitted to enroll in coursework at Fairmont State for the period of suspension as defined below:

For a first suspension, a student will not be permitted to enroll in coursework at Fairmont State for one (1) full semester plus the summer terms. This means that a student suspended at the end of the fall semester cannot enroll again until the next fall semester. A student suspended at the end of the spring semester cannot enroll again until the next spring semester.

For a second suspension, a student will not be permitted to enroll in coursework at Fairmont State for one (1) full year. A full fall and full spring semester plus the summer terms constitute the required suspension period.

For a third and any subsequent suspension, a student will not be permitted to enroll in coursework at Fairmont State for four (4) full years. Upon readmission, after the full four (4) year suspension, the student may be eligible for academic forgiveness. Whether academic forgiveness will apply will be determined by the Academic Forgiveness Policy in effect at the time of readmission.

7) A student who has been academically suspended for the first or second time is automatically eligible for readmission after the period of suspension is over, but must reapply through the Office of Admissions to have his/her Academic Suspension hold removed.

8) A student who has been academically suspended for the third time may apply for readmission after the period of suspension is over, but readmission is not automatic. The student's record will be reviewed to determine if it is academically possible for the student to attain Satisfactory Academic Standing and complete his/her degree program within a reasonable amount of time. A determination of eligibility for academic forgiveness will also be made before

readmission is granted. If a student is determined to be eligible for academic forgiveness, the student must apply for academic forgiveness at the appropriate time (Please see "Academic Forgiveness Policy", page 43).

9) Fairmont State will not accept credit for courses taken at any institution while a student is suspended.

10) Fairmont State reserves the right to deny admission if a student has been academically suspended from any institution(s) three (3) or more times.

### **Appeals, Academic Suspension**

A student who is suspended may appeal the suspension decision to the Admissions and Credits Committee of Fairmont State. A written appeal must be forwarded to the Chairperson of the Admissions and Credits Committee. Notices of the appeal deadline will be provided in the student's suspension letter. Late appeals will not be accepted.

The decision of the Admissions and Credits Committee may be appealed to the President of Fairmont State or his/her designee. For additional information concerning this procedure, contact the Associate Provost or the Chairperson of the Admissions and Credits Committee.

## **GRADUATION INFORMATION**

### **Graduation GPA requirements:**

In order to graduate, candidates for degrees must maintain a grade point average of 2.0 or better in all college courses and in all credit earned at Fairmont State. An average of 2.0 must also be maintained in the major and minor fields of study. Students in the teacher education program must attain a grade point average of 2.75 overall, in each teaching field and in professional education.

### **Application for Graduation:**

Candidates for graduation must officially apply for a degree online through their FELiX account. Applications are due one academic year in advance. Specific due dates can be found on the Registrar's Calendar by going to <http://www.fairmontstate.edu/student-services/registrar/graduation-information> (located under "Departments" tab). A graduation fee of \$50.00 for undergraduate students and \$70.00 for graduate

students is assessed at the time the graduation application is submitted. You may apply for Graduation online by logging into your FELiX account. Once you login with your UCA and password then select Student and Financial Aid, Student Records, then Apply to Graduate and follow the screen prompts. After the posted deadline for applications, a late fee of \$50.00 will also be assessed.

### **English Performance:**

All students who are candidates for degrees must attain a grade of "C" or above in English 1101, 1102, and/or 1103 in order to prove their competence in the use of the English language. This is a requirement for graduation.

### **Graduation with Honors:**

Candidates for bachelor's degrees and Associate's degrees who have achieved special distinction in academic work will graduate with honors. Honors are determined by the cumulative quality point average of a student's work at graduation. Three grades of honors are recognized for bachelor's degree candidates: cum laude for a point average of 3.4-3.69; magna cum laude for a point average of 3.70-3.84; and summa cum laude for a point average of 3.85 or better. There are also three grades of honors for associate degree candidates: Honors for a point average of 3.4-3.69; High Honors for a point average of 3.70-3.84; and Highest Honors for a point average of 3.85 or better. Honor designations on diplomas are based upon the entire academic record. Honor designations on the Commencement program are based upon the academic record at the conclusion of the semester prior to Commencement.

### **Military Service Credit:**

Students who have completed basic training in military service may be granted a maximum of four semester hours of credit, which may be used to satisfy General Studies physical education and/or elective requirements. It is the student's responsibility to request this credit and to verify this military experience to the Registrar. Students with military service are encouraged to contact the Office of Veteran Services, 311 Turley Center, to receive assistance regarding the Joint Services Transcript (JST) and VA Certification.

**Minimum Residence Requirements:**

For an associate degree at least one semester's work (at least 16 credit hours) and at least 8 of the last 16 hours in residence are required.

For a BA/BS degree, at least one year's work in residence is required, and one semester of it must be in the senior year. A "year of residence" must represent not less than 30 hours credit, and a semester is defined as a minimum of 15 hours credit. Exception is made in the case of students who have completed three years of required work at Fairmont State and who decide to complete the senior year by substituting approved credit earned subsequently in a college of medicine or dentistry.

**Transient Credit:**

Regularly enrolled students who complete work at another accredited institution on a transient basis must secure written permission of the Registrar before attempting such course work. Transient credit completed without permission will not be accepted.

**Transcripts:**

Students at Fairmont State are entitled to official transcripts of their record. Students who fail to meet their financial obligations to the institutions or to any of their departments will not be provided official transcripts until the financial obligation is met.

A request for a transcript of credit should be made in writing and should include name, both maiden and married, the date of last attendance at Fairmont State, and student identification number. All requests for transcripts should be sent directly to Student Services. Students may access the transcript request form online at [www.fairmontstate.edu](http://www.fairmontstate.edu). It may take 3-5 days to process requests and while there is no charge for transcripts, rush service is available (limit 3 per day) at a charge of \$9.00 per transcript and transcripts are mailed or available for pick up either the same day or next business day.

# Degree Requirements

The five baccalaureate degrees granted by Fairmont State are Bachelor of Science, Bachelor of Science in Engineering Technology, Bachelor of Science in Nursing, Bachelor of Arts, and Bachelor of Arts in Education. For each of these five degrees a minimum of 120 semester hours of credit is required.

## DEGREE LIST

	Min. Sem. Hours	
Degree	Required	Minor

## COLLEGE OF LIBERAL ARTS

### DEPARTMENT OF LANGUAGE AND LITERATURE

English	B.A.	120	21
Folklore Studies			19-22
French			18
Multimedia Journalism and Professional Writing			18
Spanish	B.A.	120	18
Teaching English to Speakers of Other Languages (TESOL)			24

### DEPARTMENT OF SOCIAL SCIENCE

Criminal Justice	B.S.	120	18
History	B.A./B.S.	120	21
International Studies			21
Museum Studies			18
National Security and Intelligence	B.A.	120	21
Philosophy			15
Political Science	B.A.	120	18
Social Studies Education	B.A.E.	129	

### DEPARTMENT OF BEHAVIORAL SCIENCE

Psychology	B.S.	120	18
Sociology	B.S.	120	18

## COLLEGE OF SCIENCE AND TECHNOLOGY

### DEPARTMENT OF NATURAL SCIENCES

Biology	B.S.	120	24
Biology Education	B.A.E.	120	
Chemistry	B.S.	120	21
Chemistry Education	B.A.E.	120	
Forensics	B.S.	120	
Biotechnology		120	
General Science Education	B.A.E.	120	
Physics			30
Physics Education	B.A.E.	120	

### DEPARTMENT OF COMPUTER SCIENCE and MATHEMATICS

Computer Science	B.S.	120	19
Cybersecurity		120	
Game Design			25
Mathematics	B.S.	120	24
Mathematics Education	B.A.E.	120	

### DEPARTMENT OF ENGINEERING TECHNOLOGY

Aviation Technology	B.S.	120	
Aviation Maintenance Management		120	
Aviation Administration (No Flight)		120	21
..... Aviation Administration (Flight)		120	18
Civil Engineering Technology	B.S.E.T.	120	
Electronics Engineering Technology	B.S.E.T.	120	19
Mechanical Engineering Technology	B.S.E.T.		120
Occupational Safety	B.S.	120	23-24
Technology			23
Automation and Robotics			24-29

### DEPARTMENT OF ARCHITECTURE + GRAPHICS

Architecture	B.S.	126	
Graphic Design Technology	B.S.	120	21
Game Design			25

## SCHOOL OF BUSINESS

Accounting	B.S.	120	
Business Administration	B.S.	120	
Finance		120	
Business		120	
Management		120	
Marketing		120	
Information Systems Management	B.S.	120	
Healthcare Management	B.S.	120	

Economics .....	120
Business (minor for non-business students) .....	21

## SCHOOL OF EDUCATION, HEALTH & HUMAN PERFORMANCE

### DEPARTMENT OF TEACHER EDUCATION

BACHELOR OF ARTS IN EDUCATION .....	120-132
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Education students are required to fulfill general studies requirements of the university, professional education requirements and content hours as listed below.

Early/Middle Education Elementary K-6 .....	53
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### SPECIALIZATIONS

Art .....	Pre K-Adult .....	61
Biology.....	9-Adult .....	49
Chemistry.....	9-Adult .....	45-47
Earth & Space Science .....	5-Adult .....	49
English.....	5-Adult .....	48
General Science .....	5-Adult .....	48
Mathematics .....	5-Adult .....	48
Mathematics (through Algebra I.) .....	5-9 .....	29
Music .....	Pre K-Adult .....	77
Physical Education .....	Pre K-Adult .....	43
Physics.....	9-Adult .....	45-48
School Health Education .....	5-Adult .....	40
Social Studies.....	5-Adult .....	60
Spanish .....	Pre K-Adult .....	31
Theatre Arts.....	Pre K-Adult .....	48

EDUCATION MINOR.....	24
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### DEPARTMENT OF HEALTH AND HUMAN PERFORMANCE

Community Health Education ... B.S.....	120 .....	21
Exercise Science.....	B.S..... 120 .....	20
School Health Education .....	B.S..... 120	
Physical Education.....	B.A..... 120	
Outdoor Recreation Leadership Minor .....	.....	20

## SCHOOL OF FINE ARTS

Art Education .....	B.A.E.....	142
Art History Minor .....	.....	18
Art Minor .....	.....	18
Communication Arts.....	B.A..... 120 .....	24
Music.....	B.A..... 120 .....	24

Music Education .....	B.A.E.....	146	
Studio Art .....	B.A.....	120	
Theatre Arts .....	B.A.....	120 .....	31
Theatre Education .....	B.A.E.....	121	

## SCHOOL OF NURSING

Nursing .....	B.S.N.....	120
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## SPECIAL PROGRAMS

Regents B.A. Degree .....	.....	120
Women's Studies .....	.....	18

## ASSOCIATE DEGREE PROGRAMS

Architectural Engineering Technology .....	A.S.....	60
Civil Engineering Technology .....	A.S.....	60
Electronics Engineering Technology .....	A.S.....	59-60
Mechanical Engineering Technology .....	A.S.....	60
Nursing .....	A.S.N.....	60
Nursing .....	LPN-A.S.N.....	60
Safety Engineering Technology.....	A.S.....	60

## UNIVERSITY DEGREE REQUIREMENTS

Candidates for the Bachelor of Arts and Bachelor of Science degrees must complete all major and general studies course requirements as prescribed in their chosen degree program. A minor may be required for some baccalaureate degrees. However, students cannot major and minor in the same program. Each degree program has specific major and general studies requirements. While a complete listing of all general studies courses is listed in a separate section, refer to the respective schools in this catalog for details regarding major and general studies requirements. If a degree program provides some general studies options (provides a choice of courses rather than a specific required course), reference the section with the complete general studies courses listed to see what options are available.

The minimum credit required for graduation from most degree programs is 120 semester hours, with a grade point average of 2.0 in the major and the minor with the exception of a Bachelor of Arts in Education degree, which requires at least a 2.75 in the teaching specialization(s) and overall averages.

Fairmont State defines a credit hour consistent with the Carnegie Unit: "One hour of classroom or direct faculty instruction and a minimum of two hours of

out of class student work each week for approximately 15 weeks for one semester hour of credit.”

General studies requirements may also be used to meet major or minor requirements. No course, however, may be counted more than once in meeting the number of semester hours required for graduation. For example, general studies requirements in English will also satisfy requirements for a major or minor in English.

Students are required to complete at least one designated writing intensive course as part of their general studies program or their major field of study. This course will not be in addition to other courses, but rather a course from those approved as general studies or majors courses. Students cannot use ENGL 1101, 1102, 1103, 2220, 2221, 2230, or 2231 to satisfy the writing intensive course requirement

All students who are candidates for degrees must attain a grade of “C” or above in English 1101, 1102, and/or 1103 in order to prove their competence in the use of the English language. This is a requirement for graduation.

Twelve hours of one foreign language is a general requirement for a number of Bachelor of Arts degrees. Consult specific programs for details. Upon the presentation of two or more units of high school work in a foreign language currently taught at Fairmont State, students may have six hours of this requirement at the elementary level waived, provided that they are competent to continue the study of the language in classes numbered 2200 or above. However, students still must complete the required total number of hours for graduation. It is recommended that students begin their requirement in foreign language no later than their sophomore year.

Many major and general studies courses have prerequisites (courses that must first be successfully completed). The catalog section which lists all of the general studies courses also identifies the prerequisites. You can find prerequisite information for ALL courses in the section entitled “Courses of Instruction.”

Students are encouraged to ALWAYS check with their assigned advisor and DegreeWorks before registering for courses.

All variations from prescribed programs must be approved by the appropriate Dean in the major/minor field before students can qualify for graduation.

Students seeking a second Bachelor’s Degree: See Admissions Requirements in Section 1 of the catalog, “Introduction.”

## HOW TO DECLARE A DOUBLE MAJOR

Students considering a double major should first speak with advisors in both majors before making a decision. Once the curriculum requirements for both majors have been discussed and clarified, students need to fill out a “Major Change” form at the Student Services Desk (Turley Student Services Center) to declare a second major. Students with a double major will have an advisor assigned by both departments.

Students with double majors are encouraged to consult both advisors and DegreeWorks regularly during pre-registration and at other times during the academic year when they need help.

# Programs of Study

## College of Liberal Arts

### Department of Language and Literature

**Dr. Mary Angela Schwer, Chair**  
309 Jaynes Hall / (304) 367-4717  
FAX: (304) 367-4896  
Angela.Schwer@fairmontstate.edu

#### FACULTY

BAKER, J. ROBERT (1994)  
Director, Honors Program  
Professor/Senior Level: English  
Graduate Faculty

BIRCANN-BARKEY, INGRID (2014)  
Assistant Professor of Spanish

GEORGE, LELAND M. (1984)  
Professor of English

HIPPOLYTE, ERIN (2006)  
Professor of French

HOKOM, MATTHEW L. (2001)  
Professor of English

LONG, DONNA J. (1999)  
Professor of English  
Graduate Faculty

MATTHEWS, JAMES (2002)  
Professor of English  
Graduate Faculty

MYERS, NATHAN (2015)

Assistant Professor of English

NESTOR, DEBORAH (1997)  
Professor of English

RUDE, SARA (2017)  
Assistant Professor of English

SANFORD, RHONDA LEMKE (1999)  
Professor of English  
Graduate Faculty

SAVAGE, ELIZABETH A. (2001)  
Professor of English

SCHWER, MARY ANGELA (1997)  
Professor of English

#### INTRODUCTION

As an academic division of Fairmont State, the Department of Language and Literature embraces a process of continuous improvement in teaching and learning. To that end, students majoring in programs administered by the Department are required to participate in ongoing assessment activities that may include, but are not limited to, standardized testing at different levels, electronic portfolio evaluation, and both oral and written performance reviews.

#### ENGLISH

A baccalaureate degree in English answers to contemporary demands for flexible reading, writing, and analytical skills in private, social, and public realms, including career opportunities and graduate and professional studies. Three tracks, in Literature, Writing (both Creative Writing and Writing in the Workplace) and Education, give students a wide variety of options. Students who intend to pursue a career as a licensed teacher in West Virginia major in English Education (B.A. Education). Students with English degrees in the Writing Track are sought across a range of employment fields, from journalism, education, publishing, and public affairs to marketing, sales, entertainment, and human resources, to name but a few. Currently and historically, a B.A. in English in the Literature Track has been recommended for students considering

pursuit of a law degree, and as a necessary prerequisite for graduate study in English at the master 's level. Literary study, critical writing, and creative writing develop deep cultural and historical knowledge necessary to complex thinking and lucid communication, as well as versatile interpretive skills essential to navigating the multimodal and intercultural communications of today's world.

The sophisticated literacy required for living and working successfully in an information-saturated world develops throughout the levels of the English Program in our composition, literature, and specialized writing courses. In addition to the Bachelor of Arts in English and a teaching specialization in English Education, several minors are also available in business and technical writing, literature, and teaching English as a second language. As part of the University's General Studies requirements, the English Program provides instruction in English language and literature. Advanced standing may be available for English 1101 and for world language (Spanish or French). Students in any major may select from a variety of courses to enhance their writing skills and knowledge of English.

BACHELOR OF ARTS IN ENGLISH .....	120 SEM. HRS.
English Curriculum (see below) .....	42 SEM. HRS.
Minor 15-24 SEM. HRS.	
World Languages 2201 and 2202 .....	6 SEM. HRS.
General Studies Requirements .....	39 SEM. HRS.
Free Electives 9-18 SEM. HRS.	

English Curriculum.....42 SEM. HRS.

Literature Track

Required English Core Courses (Required for all tracks) (15 hrs.)

ENGL 2251 INTRODUCTION TO LITERARY STUDIES .....	3
ENGL 3301 THEORIES OF LANGUAGE & THEIR APPL TO ENGLISH I ..	3
ENGL 3303 SURVEY OF AMERICAN LITERATURE I .....	3
- OR -	
ENGL 3304 SURVEY OF AMERICAN LITERATURE II .....	3
ENGL 3313 SURVEY OF BRITISH LITERATURE I .....	3
- OR -	
ENGL 3314 SURVEY OF BRITISH LITERATURE II .....	3
ENGL 3374 SHAKESPEARE .....	3

Literature Track Required Courses (15 hrs.)

ENGL 3303 or ENGL 3304 SURVEY OF AMERICAN LITERATURE I or II .....	3
(whichever course was not taken in the Core)	
ENGL 3313 or ENGL 3314 SURVEY OF BRITISH LITERATURE I ..... or II .....	3
(whichever course was not taken in the Core)	
ENGL 3320 LITERARY CRITICISM .....	3
ENGL 4400 SENIOR SEMINAR .....	3

And one of the following:

ENGL 3332 NARRATIVE AND DESCRIPTIVE WRITING .....	3
ENGL 3333 WRITING NON-FICTION .....	3
ENGL 3344 WRITING FICTION .....	3
ENGL 3345 WRITING POETRY .....	3
ENGL 3349 ADVANCED TECHNICAL COMMUNICATION .....	3

Literature Track Electives (12 hrs.)

(Select one course from each of the following categories for a total of 12 hours.)

BRITISH LITERATURE

ENGL 3370 LITERATURE OF THE MIDDLE AGES .....	3
ENGL 3373 CHAUCER .....	3
ENGL 3375 LATER RENNAISSANCE BRITISH LITERATURE .....	3
ENGL 3377 LITERATURE OF THE ENLIGHTENMENT .....	3
ENGL 3378 BRITISH ROMANTICISM .....	3
ENGL 3379 VICTORIAN LITERATURE .....	3
ENGL 3380 TWENTIETH CENTURY BRITISH LITERATURE .....	3
ENGL 3381 BRITISH NOVEL .....	3

AMERICAN LITERATURE

ENGL 3361 AMERICAN ROMANTICISM .....	3
ENGL 3362 AMERICAN REALISM AND NATURALISM .....	3
ENGL 3363 AMERICAN NOVEL .....	3
ENGL 3365 AMERICAN MODERNISM .....	3
ENGL 3366 CONTEMPORARY LITERATURE .....	3
ENGL 3393 SOUTHERN LITERATURE .....	3

STUDY OF GENRE

ENGL 3356 FANTASY, SCIENCE FICTION, AND MAGIC REALISM .....	3
ENGL 3382 WORLD NOVEL .....	3
ENGL 3383 EPIC TRADITION .....	3
ENGL 3390 MODERN DRAMA .....	3
ENGL 3391 SHORT STORY .....	3
ENGL 3392 CONTEMPORARY POETRY .....	3
ENGL 3394 ART OF THE MOTION PICTURE .....	3

STUDIES IN LITERATURE AND CULTURE

ENGL 3302 THEORIES OF LANGUAGE & THEIR APPLICATION TO ENGLISH II ..... 3

ENGL 3355 YOUNG ADULT LITERATURE ..... 3

ENGL 3364 APPALACHIAN LITERATURE ..... 3

ENGL 3385 THE ARTHURIAN TRADITION ..... 3

ENGL 3386 BIBLE AS LITERATURE ..... 3

ENGL 3387 FOLK LITERATURE ..... 3

ENGL 3388 WOMEN'S LITERATURE ..... 3

ENGL 3389 MINORITY LITERATURE ..... 3

ENGL 3395 JOURNEYS IN COMPARATIVE MYTHOLOGY ..... 3

ENGL 3396 LITERATURE AND FILM ..... 3

WRITING TRACK

CREATIVE WRITING OPTION

Required English Core Courses (for all tracks)(15 hrs.)

ENGL 2251 INTRODUCTION TO LITERARY STUDIES ..... 3

ENGL 3301 THEORIES OF LANGUAGE & THEIR APPL. TO ENGLISH I . 3

ENGL 3303 SURVEY OF AMERICAN LITERATURE I ..... 3

- OR -

ENGL 3304 SURVEY OF AMERICAN LITERATURE II ..... 3

ENGL 3313 SURVEY OF BRITISH LITERATURE I ..... 3

- OR -

ENGL 3314 SURVEY OF BRITISH LITERATURE II ..... 3

ENGL 3374 SHAKESPEARE ..... 3

Required for Creative Writing Option Choose 15 hrs.

ENGL 3332 NARRATIVE AND DESCRIPTIVE WRITING ..... 3

ENGL 3333 WRITING NON-FICTION ..... 3

ENGL 3344 WRITING FICTION ..... 3

ENGL 3345 WRITING POETRY ..... 3

JOUR 3330 WRITING FOR MULTIMEDIA ..... 3

JOUR 3350 PARTICIPATORY JOURNALISM AND SOCIAL MEDIA ..... 3

(Select one course from each of the following categories for a total of 12 hours.)

BRITISH LITERATURE

ENGL 3370 LITERATURE OF THE MIDDLE AGES ..... 3

ENGL 3373 CHAUCER ..... 3

ENGL 3375 LATER RENNAISSANCE BRITISH LITERATURE ..... 3

ENGL 3377 LITERATURE OF THE ENLIGHTENMENT ..... 3

ENGL 3378 BRITISH ROMANTICISM ..... 3

ENGL 3379 VICTORIAN LITERATURE ..... 3

ENGL 3380 TWENTIETH CENTURY BRITISH LITERATURE ..... 3

ENGL 3381 BRITISH NOVEL ..... 3

AMERICAN LITERATURE

ENGL 3361 AMERICAN ROMANTICISM ..... 3

ENGL 3362 AMERICAN REALISM AND NATURALISM ..... 3

ENGL 3363 AMERICAN NOVEL ..... 3

ENGL 3365 AMERICAN MODERNISM ..... 3

ENGL 3366 CONTEMPORARY LITERATURE ..... 3

ENGL 3393 SOUTHERN LITERATURE ..... 3

STUDY OF GENRE

ENGL 3356 FANTASY, SCIENCE FICTION, AND MAGIC REALISM ..... 3

ENGL 3382 WORLD NOVEL ..... 3

ENGL 3383 EPIC TRADITION ..... 3

ENGL 3390 MODERN DRAMA ..... 3

ENGL 3391 SHORT STORY ..... 3

ENGL 3392 CONTEMPORARY POETRY ..... 3

ENGL 3394 ART OF THE MOTION PICTURE ..... 3

STUDIES IN LITERATURE AND CULTURE

ENGL 3302 THEORIES OF LANGUAGE & THEIR APPLICATION TO ENGLISH II ..... 3

ENGL 3355 YOUNG ADULT LITERATURE ..... 3

ENGL 3364 APPALACHIAN LITERATURE ..... 3

ENGL 3385 THE ARTHURIAN TRADITION ..... 3

ENGL 3386 BIBLE AS LITERATURE ..... 3

ENGL 3387 FOLK LITERATURE ..... 3

ENGL 3388 WOMEN OF LITERATURE ..... 3

ENGL 3389 MINORITY LITERATURE ..... 3

ENGL 3395 JOURNEYS IN COMPARATIVE MYTHOLOGY ..... 3

ENGL 3396 LITERATURE AND FILM ..... 3

WRITING FOR THE WORKPLACE OPTION

Required English Core Courses (for all tracks)(15 hrs.)

ENGL 2251 INTRODUCTION TO LITERARY STUDIES ..... 3

ENGL 3301 THEORIES OF LANGUAGE & THEIR APPL. TO ENGLISH I . 3

ENGL 3303 SURVEY OF AMERICAN LITERATURE ..... 3

- OR -

ENGL 3304 SURVEY OF AMERICAN LITERATURE II ..... 3

ENGL 3313 SURVEY OF BRITISH LITERATURE I ..... 3

- OR -

ENGL 3314 SURVEY OF BRITISH LITERATURE II ..... 3

ENGL 3374 SHAKESPEARE ..... 3

Required for Writing for the Workplace Option: (15 hours)

ENGL 1103 WRITING FOR THE WORKPLACE (might be counted in General Studies) ..... 3

JOUR 2245 REPORTING AND MULTIMEDIA NEWSWRITING ..... 3

JOUR 3330 WRITING FOR MULTIMEDIA ..... 3

ENGL 3333 WRITING NON-FICTION ..... 3

ENGL 4491 WRITING INTERNSHIP OR JOUR 3343

JOURNALISM INTERNSHIP .....	3
Choose 2 of these classes (6 hours)	
JOUR 2275 MEDIA LITERACY .....	3
JOUR 3335 PHOTOJOURNALISM AND DIGITAL EDITING .....	3
JOUR 3343 JOURNALISM INTERNSHIP .....	3
JOUR 3350 PARTICIPATORY JOURNALISM AND SOCIAL MEDIA .....	3
JOUR 3390 MULTIMEDIA ETHICS AND LAW .....	3
ENGL 3349 ADVANCED TECHNICAL COMMUNICATION .....	3

Choose one class from 2 different elective groups (6 hours)

BRITISH LITERATURE

ENGL 3370 LITERATURE OF THE MIDDLE AGES .....	3
ENGL 3373 CHAUCER .....	3
ENGL 3375 LATER RENNAISSANCE BRITISH LITERATURE .....	3
ENGL 3377 LITERATURE OF THE ENLIGHTENMENT .....	3
ENGL 3378 BRITISH ROMANTICISM .....	3
ENGL 3379 VICTORIAN LITERATURE .....	3
ENGL 3380 TWENTIETH CENTURY BRITISH LITERATURE .....	3
ENGL 3381 BRITISH NOVEL .....	3

AMERICAN LITERATURE

ENGL 3361 AMERICAN ROMANTICISM .....	3
ENGL 3362 AMERICAN REALISM AND NATURALISM .....	3
ENGL 3363 AMERICAN NOVEL .....	3
ENGL 3365 AMERICAN MODERNISM .....	3
ENGL 3366 CONTEMPORARY LITERATURE .....	3
ENGL 3393 SOUTHERN LITERATURE .....	3

STUDY OF GENRE

ENGL 3356 FANTASY, SCIENCE FICTION, AND MAGIC REALISM .....	3
ENGL 3382 WORLD NOVEL .....	3
ENGL 3383 EPIC TRADITION .....	3
ENGL 3390 MODERN DRAMA .....	3
ENGL 3391 SHORT STORY .....	3
ENGL 3392 CONTEMPORARY POETRY .....	3
ENGL 3394 ART OF THE MOTION PICTURE .....	3

STUDIES IN LITERATURE AND CULTURE

ENGL 3302 THEORIES OF LANGUAGE & THEIR APPLICATION TO ENGLISH II .....	3
ENGL 3355 YOUNG ADULT LITERATURE .....	3
ENGL 3364 APPALACHIAN LITERATURE .....	3
ENGL 3385 THE ARTHURIAN TRADITION .....	3
ENGL 3386 BIBLE AS LITERATURE .....	3
ENGL 3387 FOLK LITERATURE .....	3
ENGL 3388 WOMEN OF LITERATURE .....	3
ENGL 3389 MINORITY LITERATURE .....	3

ENGL 3395 JOURNEYS IN COMPARATIVE MYTHOLOGY .....	3
ENGL 3396 LITERATURE AND FILM .....	3

• General Studies Requirements for Literature and Writing Tracks ... 39 SEM. HRS.

\*Please check the section "General Studies Requirements for the Bachelor 's Degree" for appropriate prerequisite listings.

Outcome 1 - Critical Analysis: ENGL 2220 (PR for upper-division literature courses) .....	3
Outcome 2- Quantitative Literacy: MATH 1507 or 1407 or higher in Outcome 2 (Required by Major)....	3
Outcome 3- Written Communication: ENGL 1101 (Institutional Requirement) .....	3
Outcome 4- Teamwork: COMM 2200 or 2201* .....	3
Outcome 5 - Information Literacy: ENGL 1102 (Institutional Requirement) .....	3
Outcome 6 - Technology Literacy: Any course in Outcome 6 .....	3
Outcome 7 - Oral Communication: COMM 2200 or 2201 or 2202 * .....	X
Outcome 8 - Citizenship: HIST 1107 or 1108 or POLI 1100* .....	3
Outcome 9 - Ethics: ENGL 2220 (Satisfied in Outcome 1) .....	X
Outcome 10 - Health: PHED 1100* .....	2
Outcome 11- Interdisciplinary: Any course in Outcome 11 .....	3
Outcome 12 - Arts: Any course in Outcome 12 .....	3
Outcome 13 - Humanities: ENGL 2221 (PR for upper-division literature courses) .....	3
Outcome 14 - Social Sciences: Any course in Outcome 14 .....	3
Outcome 15 - Natural Science: Any course in Outcome 15 .....	4
Outcome 16 - Cultural Awareness: ENGL 2221 (Satisfied in Outcome 13) .....	X
Additional General Studies hours: .....	X

\* Any course(s) marked with an asterisk (\*) above are recommended to complement the program curriculum; however, students may select any other courses from the approved General Studies list.

MINOR IN ENGLISH ..... 21 SEM. HRS.

Students minoring in English should take ENGL 2220 and 2221 as part of their General Studies Requirements

Required courses (9 hrs.)

ENGL 3303	SURVEY OF AMERICAN LITERATURE I .....	3
- OR -		
ENGL 3304	SURVEY OF AMERICAN LITERATURE II .....	3
ENGL 3313	SURVEY OF BRITISH LITERATURE I .....	3
- OR -		
ENGL 3314	SURVEY OF BRITISH LITERATURE II .....	3
ENGL 3374	SHAKESPEARE.....	3

Electives (12) hours

(Select one course from each of the following groups.)

BRITISH LITERATURE

ENGL 3370	LITERATURE OF THE MIDDLE AGES .....	3
ENGL 3373	CHAUCER.....	3
ENGL 3375	LATER RENNAISSANCE BRITISH LITERATURE .....	3
ENGL 3377	LITERATURE OF THE ENLIGHTENMENT.....	3
ENGL 3378	BRITISH ROMANTICISM .....	3
ENGL 3379	VICTORIAN LITERATURE.....	3
ENGL 3380	TWENTIETH CENTURY BRITISH LITERATURE .....	3
ENGL 3381	BRITISH NOVEL .....	3

AMERICAN LITERATURE

ENGL 3361	AMERICAN ROMANTICISM.....	3
ENGL 3362	AMERICAN REALISM AND NATURALISM.....	3
ENGL 3363	AMERICAN NOVEL.....	3
ENGL 3365	AMERICAN MODERNISM .....	3
ENGL 3366	CONTEMPORARY LITERATURE .....	3
ENGL 3393	SOUTHERN LITERATURE .....	3

STUDY OF GENRE

ENGL 3356	FANTASY, SCIENCE FICTION, AND MAGIC REALISM.....	3
ENGL 3382	WORLD NOVEL.....	3
ENGL 3383	EPIC TRADITION .....	3
ENGL 3390	MODERN DRAMA.....	3
ENGL 3391	SHORT STORY.....	3
ENGL 3392	CONTEMPORARY POETRY.....	3
ENGL 3394	ART OF THE MOTION PICTURE .....	3

STUDIES IN LITERATURE AND CULTURE

ENGL 3302	THEORIES OF LANGUAGE & THEIR APPLICATION TO ENGLISH II.....	3
ENGL 3355	YOUNG ADULT LITERATURE .....	3
ENGL 3364	APPALACHIAN LITERATURE .....	3
ENGL 3385	THE ARTHURIAN TRADITION.....	3
ENGL 3386	BIBLE AS LITERATURE .....	3
ENGL 3387	FOLK LITERATURE .....	3
ENGL 3388	WOMEN'S LITERATURE .....	3

ENGL 3389	MINORITY LITERATURE.....	3
ENGL 3395	JOURNEYS IN COMPARATIVE MYTHOLOGY .....	3
ENGL 3396	LITERATURE AND FILM .....	3

BACHELOR OF ARTS IN EDUCATION:

TEACHING SPECIALIZATION IN ENGLISH

GRADES 5-ADULT.....	126 SEM. HRS.
English Curriculum (see below).....	48 SEM. HRS.
General Studies Requirements .....	39 SEM. HRS.
Professional Education Courses .....	39 SEM. HRS.

NOTE regarding General Studies Requirements for this degree: If a student has taken either ENGL 2230 or 2231 (but not both), s/he must take both ENGL 2220 and 2221. If a student has taken both ENGL 2230 and 2231, s/he must also take ENGL 2220.

• English Curriculum .....

Required Courses (36 hrs.)

ENGL 2251	INTRODUCTION TO LITERARY STUDIES.....	3
ENGL 3301	THEORIES OF LANGUAGE I .....	3
ENGL 3302	THEORIES OF LANGUAGE II .....	3
ENGL 3303	SURVEY OF AMERICAN LITERATURE I .....	3
ENGL 3304	SURVEY OF AMERICAN LITERATURE II .....	3
ENGL 3313	SURVEY OF BRITISH LITERATURE I.....	3
ENGL 3314	SURVEY OF BRITISH LITERATURE II.....	3
ENGL 3332	NARRATIVE AND DESCRIPTIVE WRITING .....	3
ENGL 3355	YOUNG ADULT LITERATURE .....	3
ENGL 3374	SHAKESPEARE.....	3
ENGL 4431	METHODS OF TEACHING ENGLISH .....	3
JOUR 3315	MULTIMEDIA PUBLISHING.....	3

English Electives (12 hrs.)

(Select one from each of the following groups.)

BRITISH LITERATURE

ENGL 3370	LITERATURE OF THE MIDDLE AGES.....	3
ENGL 3373	CHAUCER.....	3
ENGL 3375	LATER RENAISSANCE BRITISH LITERATURE.....	3
ENGL 3377	LITERATURE OF THE ENLIGHTENMENT .....	3
ENGL 3378	BRITISH ROMANTICISM .....	3
ENGL 3379	VICTORIAN LITERATURE .....	3
ENGL 3380	TWENTIETH CENTURY BRITISH LITERATURE.....	3
ENGL 3381	BRITISH NOVEL .....	3

AMERICAN LITERATURE

ENGL 3361	AMERICAN ROMANTICISM .....	3
ENGL 3362	AMERICAN REALISM AND NATURALISM .....	3
ENGL 3363	AMERICAN NOVEL .....	3
ENGL 3365	AMERICAN MODERNISM .....	3

ENGL 3366	CONTEMPORARY LITERATURE .....	3
ENGL 3393	SOUTHERN LITERATURE .....	3
STUDY OF GENRE		
ENGL 3356	FANTASY, SCIENCE FICTION, AND MAGIC REALISM.....	3
ENGL 3382	WORLD NOVEL .....	3
ENGL 3383	EPIC TRADITION .....	3
ENGL 3390	MODERN DRAMA.....	3
ENGL 3391	SHORT STORY.....	3
ENGL 3392	CONTEMPORARY POETRY.....	3
ENGL 3394	ART OF THE MOTION PICTURE.....	3

STUDIES IN LITERATURE AND CULTURE

ENGL 3364	APPALACHIAN LITERATURE .....	3
ENGL 3385	THE ARTHURIAN TRADITION.....	3
ENGL 3386	BIBLE AS LITERATURE .....	3
ENGL 3387	FOLK LITERATURE.....	3
ENGL 3388	WOMEN OF LITERATURE .....	3
ENGL 3389	MINORITY LITERATURE .....	3
ENGL 3395	JOURNEYS IN COMPARATIVE MYTHOLOGY.....	3
ENGL 3396	LITERATURE AND FILM .....	3

• Professional Education .....39 SEM. HRS.  
Required for the B.A. in Education

EDUC 2200	INTRODUCTION TO EDUCATION .....	3
EDUC 2201	INSTRUCTIONAL TECHNOLOGY .....	3
EDUC 2203	HUMAN DEVELOPMENT, LEARNING & TEACHING .....	3
EDUC 2240	HIGH INCIDENCE DISABILITIES FOR EDUCATORS.....	3
EDUC 2260	INSTRUCTIONAL DESIGN I.....	3
EDUC 2265	FIELD EXPERIENCE 2 .....	1
EDUC 3331	READING IN THE CONTENT AREAS.....	3
EDUC 3340	INSTRUCTIONAL DESIGN II.....	3
EDUC 3351	INCLUSIVE CLASSROOM PRACTICES .....	3
EDUC 3365	FIELD EXPERIENCE 3 .....	2
EDUC 4485	ACTION RESEARCH.....	1
EDUC 4486	PORTFOLIO.....	1
EDUC 4496	SECONDARY STUDENT TEACHING .....	10

• General Studies Requirements .....33 SEM. HRS.

Outcome 1 - Critical Analysis:

ENGL 2220 (PR for upper-division literature courses).....	3
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Outcome 2- Quantitative Literacy:

MATH 1507 or 1407 or higher in Outcome 2(Required by Major).....	3
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Outcome 3- Written Communication:

ENGL 1101 (Institutional Requirement).....	3
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Outcome 4 - Teamwork:

COMM 2200 or 2201 .....	* 3
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Outcome 5 - Information Literacy:

ENGL 1102 (Institutional Requirement).....	3
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Outcome 6 - Technology Literacy:

EDUC 2201 (Satisfied in Major) .....	X
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Outcome 7 - Oral Communication:

COMM 2200 or 2201 or 2202 .....	X
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Outcome 8 - Citizenship:

HIST 1107 or 1108 or POLI 1100* .....	3
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Outcome 9 - Ethics:

ENGL 2220 (Satisfied in Outcome 1).....	X
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Outcome 10 - Health:

EDUC 2203 (Satisfied in Major) .....	X
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Outcome 11- Interdisciplinary:

Any course in Outcome 11 .....	3
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Outcome 12 - Arts:

Any course in Outcome 12 .....	3
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Outcome 13 - Humanities:

ENGL 2221 (PR for upper-division literature courses).....	3
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Outcome 14 - Social Sciences:

Any course in Outcome 14 .....	3
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Outcome 15 - Natural Science:

Any course in Outcome 15 .....	4
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Outcome 16 - Cultural Awareness:

ENGL 2221 (Satisfied in Outcome 13).....	X
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Additional General Studies hours: ..... X

\* Any course(s) marked with an asterisk (\*) above are recommended to complement the program curriculum; however, students may select any other courses from the approved General Studies list.

PROFESSIONAL WRITING MINOR

All students take these required classes:

Required Minor Courses

JOUR 2245 Reporting and Multimedia News Writing.....	3
JOUR 3315 Multimedia Publishing .....	3
TOTAL HOURS REQUIRED .....	6

In addition to the required classes, students complete one of the following tracks:

Track in Business and Technical Writing

ENGL 1103 Technical Report Writing .....	3
ENGL 3301 Theories of Language I .....	3
ENGL 3333 Writing Non-Fiction .....	3
ENGL 3349 Advanced Technical Communication.....	3
TOTAL HOURS FOR MINOR.....	18

Track in Journalism: Technical Writing Option

ENGL 1103	Technical Report Writing.....	3
ENGL 3301	Theories of Language I.....	3
JOUR 3343	Journalism Internship .....	3
Minor Electives (Select One Of The Two Courses Below)		
ENGL 3333	Writing Non-Fiction .....	3
ENGL 3349	Advanced Technical Communication .....	3

(In addition, the following electives are suggested but not required)

ENGL 3302	Theories of Language II.....	3
ENGL 3333	Writing Non-Fiction .....	3
ENGL 3349	Advanced Technical Communication .....	3
ENGL 3335	Journalism Internship .....	3
TOTAL HOURS FOR MINOR .....		18

#### Track in Multimedia or Journalism

JOUR 2275	Media Literacy .....	3
JOUR 2280	History of American Journalism.....	3
JOUR 3335	Photojournalism and Digital Editing .....	3
JOUR 3343	Journalism Internship .....	3
TOTAL HOURS FOR MINOR .....		18

## FOLKLORE STUDIES

Students interested in the study of folklore and folklife learn to examine and analyze traditional expressive culture in all its forms. In every society, agricultural and industrial, rural and urban, folklore is a vital part of life. Since folklore study deals with so many forms of human expression which are typically transmitted by tradition, it is connected to all disciplines that deal with literature, art, and music, as well as anthropology, psychology, sociology, history, philosophy, linguistics, design and pedagogy.

A folklore studies specialization prepares the student for graduate studies and professional involvement in such areas as preservation, archiving, teaching, curating, historical parks management, museum interests, entertainment, and storytelling.

This interdisciplinary academic minor can be attached to most liberal arts majors.

MINOR IN FOLKLORE STUDIES.....	19-22 SEM. HRS.	
FOLK 2200	INTRODUCTION TO FOLKLORE.....	3
FOLK 2201	FIELD RESEARCH/ORAL HISTORY TECHNIQUES .....	1
FOLK 3300	FOLK LITERATURE .....	3
FOLK 3301	MATERIAL CULTURE OR FOLK 2150 FOLK ARTS.....	3
FOLK 3302	REGIONAL CULTURAL GEOGRAPHY & HISTORY .....	3
FOLK 4400*	DIRECTED FOLKLORE STUDY .....	3-6

FOLK 4401	FOLKLORE APPLICATION .....	3
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\*Only 3 hours are required in FOLK 4400 that offer the following topics in directed study.

- Appalachian African-American Lore
- Appalachian (Regional/Written) Literature and Film
- Archives/Collections Management
- Arthurian Legend: Comparative Folk Literature Study
- Children’s Folklore
- Culture as Education
- Ethnography and Process and Storytelling
- Folk Arts
- Folk Dance
- Museum Studies
- Rural Education
- Traditional Folk Music, Vocal and Instrumental
- Urban and Popular Culture
- Vintage Clothing Preservation
- West Virginia Literature
- World Tale

\* Note: If an existing course is available on campus reflecting any of these topics, a student may opt to take it, with the approval of the Folklore Studies director. The following electives may also qualify:

#### Folklore Electives

FOLK 3320	THE ART OF STORYTELLING IN THEORY & PRACTICE .....	3
FOLK 3350	“ROADS TO APPALACHIA” STUDY ABROAD .....	3
FOLK 3361	INTRODUCTION TO FOLK MUSIC.....	3
FOLK 4998	UNDERGRADUATE RESEARCH.....	1-6

## FRENCH

French is a language of growing importance in our globally-connected world. The French program at Fairmont State focuses on the development of a comparative critical perspective through the study of language, culture, communication, and context. As students learn about cultures of the Francophone world, from Africa and the Americas to Europe and the Indian Ocean, they also understand their own story more clearly. Learning to communicate in another language and developing intercultural

knowledge involves understanding similarity and difference at the same time. This type of complex thinking is a desirable skill in many areas of the professional world. Employers seek out students who are multilingual, with concrete international experience, because of the maturity and skillset these students demonstrate. Training in French and cultural studies lays a strong groundwork for students = future lives as global citizens and innovators in many fields. Innovation coincides with an expanding network of knowledge and contacts. French is also an important language of diplomacy and international organizations.

French students are encouraged to study abroad through a variety of programs. French minors gain competence in global studies with a French-language focus, and have successfully combined the program with majors in other programs across campus.

MINOR IN FRENCH .....18 SEM. HRS.  
AT OR ABOVE FREN 1102

Required Courses (9 hrs.)

FREN 1102	ELEMENTARY FRENCH II .....	3
FREN 2201	INTERMEDIATE FRENCH I .....	3
FREN 2202	INTERMEDIATE FRENCH II .....	3

Electives (9 hrs.)

Choose from the list below.

FREN 1199	SPECIAL TOPICS IN FRENCH .....	3
FREN 2220	INTERMEDIATE TOPICS IN FRENCH .....	3
FREN 3310	ADVANCED TOPICS IN FRENCH .....	3
FREN 3311	FRENCH COMPOSITION AND CONVERSATION I .....	3
FREN 3312	FRENCH COMPOSITION AND CONVERSATION II .....	3
FREN 3315	FRENCH FILM.....	3
FREN 3321	CONTEMPORARY LITERATURE .....	3
FREN 3326	MEDIA STUDIES IN FRENCH .....	3
FREN 4420	FRANCOPHONE CULTURES OF THE AMERICAS.....	3
FREN 4430	BUSINESS FRENCH.....	3
FREN 4431	METHODS AND MATERIALS IN TEACHING FRENCH .....	3
FREN 4998	UNDERGRADUATE RESEARCH .....	3

## JOURNALISM

The journalism curriculum offers a comprehensive academic program as well as opportunities for practical media experience. Students may select from the following options:

- Journalism as an 18-hour minor, compatible with any four-year major in either the B.A.

or B.S. degree or as preparation for students planning to transfer to a four-year program.

- The 18-hour Technical Writing Program is applicable to any bachelor’s degree, for those who want more preparation for commercial and industrial writing and editing.
- Journalism as part of the Regents Bachelor of Arts Degree with a combination of coursework and practical experience. Requires administrative approval.
- The journalism program has continued to move in the direction of new media so students can be better prepared for the demands of the digital newsroom.
- The curriculum incorporates multimedia, digital imaging, participatory journalism, social media, as well as online design for Web pages, blogs, and other new media.
- The program provides additional expertise through staff work on award-winning student publications including The Columns campus newspaper; The Mound yearbook and Whetstone, student art and literary journal. Students also develop professional skills through the off-campus internships with media professionals. Journalism minors or pre-journalism students must participate actively in the publication of student media.
- Journalism courses are open as electives to students in any field. Students in teacher education programs are encouraged to take introductory courses such as Reporting and Multimedia News Writing, Media Literacy and History of American Journalism.
- Journalism minors and journalism education majors will be required to produce a final portfolio of produced coursework and clippings of campus media work. They must complete a comprehensive journalism exam and an internship.

### BACHELOR OF ARTS IN EDUCATION:

#### TEACHING SPECIALIZATION IN JOURNALISM

GRADES 5-ADULT .....	120 SEM. HRS.
Journalism Curriculum (see below).....	24 SEM. HRS.
General Studies Requirements .....	36 SEM. HRS.
Professional Education Courses .....	39 SEM. HRS.
Free Electives	21 SEM. HRS.

• Journalism Curriculum.....24 SEM. HRS.

Required courses (24 hrs.)

JOUR 2245 REPORTING AND MULTIMEDIA NEWS WRITING (AND L2240).....	3
JOUR 2275 MEDIA LITERACY .....	3
JOUR 2280 HISTORY OF AMERICAN JOURNALISM .....	3
JOUR 3315 MULTIMEDIA PUBLISHING.....	3
JOUR 3335 PHOTOJOURNALISM AND DIGITAL EDITING.....	3
JOUR 3343 JOURNALISM INTERNSHIP.....	3
MKTG3320 ADVERTISING AND SALES PROMOTION.....	3
ENGL 4431 METHODS AND MATERIALS.....	3
(MKTG 3320 AND ENGL 4431 ARE REQUIRED FOR THE B.A. IN JOURNALISM EDUCATION.)	

• General Studies Requirements.....36 SEM. HRS.

Outcome 1 - Critical Analysis:

ENGL 2220\* 3

Outcome 2 - Quantitative Literacy:

MATH 1507 or 1407 or higher in Outcome 2(Required by Major).... 3

Outcome 3- Written Communication:

ENGL 1101 (Institutional Requirement)..... 3

Outcome 4- Teamwork:

COMM 2200, 2221 or 2222\*..... 3

Outcome 5 - Information Literacy:

ENGL 1102 (Institutional Requirement..... 3

Outcome 6 - Technology Literacy:

EDUC 2201 (Required by Major).....X

Outcome 7 - Oral Communication:

COMM 2200 or 2201 \*..... X

Outcome 8 - Citizenship:

HIST 1107 or 1108 or POLI 1100\*..... 3

Outcome 9 - Ethics:

ENGL 2220\* (Satisfied in Outcome 1)..... X

Outcome 10 - Health:

PHED 1100\* ..... 2

Outcome 11- Interdisciplinary:

Any course in Outcome 11 ..... 3

Outcome 12 - Arts:

Any course in Outcome 12 ..... 3

Outcome 13 - Humanities:

ENGL 2221\* ..... 3

Outcome 14 - Social Sciences:

Any course in Outcome 14 ..... 3

Outcome 15 - Natural Science:

Any course in Outcome 15 ..... 4

Outcome 16 - Cultural Awareness:

ENGL 2221 (Satisfied in Outcome 13)..... X

Additional General Studies hours: ..... X

\* Any course(s) marked with an asterisk (\*) above are recommended to complement the program curriculum; however, students may select any other courses from the approved General Studies list.

• Professional Education.....39 SEM. HRS.

Required for the B.A. in Education

EDUC 2200 INTRODUCTION TO EDUCATION .....	3
EDUC 2201 INSTRUCTIONAL TECHNOLOGY .....	3
EDUC 2203 HUMAN DEVELOPMENT, LEARNING & TEACHING .....	3
EDUC 2240 HIGH INCIDENCE DISABILITIES FOR EDUCATORS.....	3
EDUC 2260 INSTRUCTIONAL DESIGN I.....	3
EDUC 2265 FIELD EXPERIENCE 2 .....	1
EDUC 3331 READING IN THE CONTENT AREAS.....	3
EDUC 3340 INSTRUCTIONAL DESIGN II.....	3
EDUC 3351 INCLUSIVE CLASSROOM PRACTICES .....	3
EDUC 3365 FIELD EXPERIENCE 3 .....	2
EDUC 4485 ACTION RESEARCH.....	1
EDUC 4486 PORTFOLIO .....	1
EDUC 4496 SECONDARY STUDENT TEACHING .....	10

## SPANISH

The United States is now home to over 41 million native speakers of Spanish plus 11 million English-Spanish bilingual speakers, making this country the second largest Spanish-speaking country in the world only second to Mexico with 121 speakers ([www.cervantes.es](http://www.cervantes.es)). There is now a widespread need for professionals who can show Spanish proficiency in professions such as criminal justice, national security, social work, business and banking and nursing, as well as in education-- where the need for Spanish teachers for K-12 grades is also increasing.

The Spanish program at Fairmont State is designed to address the linguistic and cultural proficiency needs of our students by gradually developing speaking, comprehension, reading and writing skills while gaining an understanding of Spanish-speaking cultures both outside and inside of the United States. The Spanish program adheres to the Standards of Foreign Language Learning established by the American Council on the Teaching of Foreign Languages (ACTFL).

Students are strongly encouraged to integrate Spanish into their chosen careers as double majors, or as minors. In addition, both Elementary and Secondary Education students can choose to obtain a Bachelor of Arts in Education with a teaching specialization in Spanish for grades pre k-adult, or

may add this specialization to another teaching field. The program offers a variety of courses aimed at helping students reach their career goals, including Spanish for the Medical Professions, Spanish for Criminal Justice and Spanish for the World Economy (Business).

Spanish majors are strongly encouraged to spend at least one semester abroad in a Spanish-speaking country, preferably but not necessarily in their junior year. Students have the option of traveling to a Spanish-speaking country and doing research on an approved topic, for which they will receive 3-6 credit hours (SPAN 4402). Students in approved internships (SPAN 3300) will receive 3-6 upper-division credit hours, depending upon the type and duration of the internship.

All students who have taken Spanish in high school should take a placement test to determine at what level they should begin. Students who test out of beginning courses may receive credit for these courses by asking their instructor to complete Credit by Exam paperwork, and paying a fee.

BACHELOR OF ARTS IN SPANISH .....	120 SEM. HRS.
Spanish Curriculum (see below) .....	31 SEM. HRS.
General Studies Requirements .....	36 SEM. HRS.
Free Electives 18-29 SEM. HRS.	
Minor (optional).....	24-30 SEM. HRS.

• Spanish Curriculum.....31 SEM. HRS.

**Required Major Courses**

SPAN 2201 Intermediate Spanish I .....	3
SPAN 2202 Intermediate Spanish II .....	3
SPAN 3301 Spanish Composition and Conversation I .....	3
SPAN 3302 Spanish Composition and Conversation II .....	3
SPAN 3310 Spanish Civilization & Culture .....	3
-OR-	
SPAN 3320 Latin American Civilization & Culture .....	3
SPAN 4400 Survey of Latin American Literature .....	3
SPAN 4401 Survey of Peninsular Literature.....	3
SPAN 4410 Advanced Skills: Speaking, Writing, Listening and Reading .....	3
SPAN 4411 Spanish Capstone: Proficiency Portfolio .....	1

**Major Electives**

Choose Two Courses (6 hrs.)

SPAN 1199 Special Topics.....	3
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SPAN 2200 Spanish Language Film and Video .....	3
SPAN 2250 Spanish for the Medical Professions.....	3
SPAN 2251 Spanish for Criminal Justice .....	3
SPAN 2252 Spanish for the World Economy .....	3
SPAN 3300 Undergraduate Internship.....	3-6
SPAN 3310 or Spanish Civilization & Culture .....	3
SPAN 3320 Latin American Civilization & Culture .....	3
SPAN 3350 History of the Spanish Language.....	3
SPAN 4402 Independent Study.....	3
SPAN 4418 US Latino Cultures and Literature .....	3
SPAN 4431 Methods: Second Language Acquisition .....	3

**Minor Requirements/Electives (if minor is required)**

Minor Optional.....	15-24 hrs.
<b>TOTAL HOURS FOR MAJOR (and minor if required) .....</b>	<b>31</b>

Note: Students cannot double-count required courses as electives or vice versa.

• General Studies courses

Outcome 1 - Critical Analysis	
ENGL 2220* 3	
Outcome 2 - Quantitative Literacy	
Any course in Outcome 2 .....	3
Outcome 3 - Written Communication	
ENGL 1102 (Institutional Requirement) .....	3
Outcome 4 - Teamwork	
SPAN 4400 (Satisfied in Major).....	X
Outcome 5 - Information Literacy	
ENGL 1102 (Satisfied in Outcome 3).....	X
Outcome 6 - Technology Literacy	
Any course in Outcome 6 .....	3
Outcome 7 - Oral Communication	
Any course in Outcome 7 .....	3
Outcome 8 - Citizenship	
Any course in Outcome 8 .....	3
Outcome 9 - Ethics	
ENGL 2220* Recommended .....	X
Outcome 10 - Health	
Any course in Outcome 10.....	2-4
Outcome 11 - Interdisciplinary	
FOLK 2200/01	
or	
LANG 1110	
Or	
FREN 3310	
Outcome 12 - Arts	
Any course in Outcome 12 .....	3
Outcome 13 - Humanities	
ENGL 2221* .....	3

Outcome 14 - Social Sciences	
Any course in Outcome 14 .....	3
Outcome 15 - Natural Science	
Any course in Outcome 15 .....	4
Outcome 16 - Cultural Awareness	
ENGL 2221 or FREN 4420* .....	X
Additional General Studies hours	
TOTAL GENERAL STUDIES HOURS .....	36 - 38
TOTAL FREE ELECTIVES .....	49 - 51
TOTAL HOURS 120	

\* Any course(s) marked with an asterisk (\*) above are recommended to complement the program curriculum; however, students may select any other courses from the approved General Studies list.

Note: All Spanish majors must take the ACTFL Oral Proficiency Interview (OPI) and the Writing Proficiency Test (WPT) in their senior year. The proficiency level required for graduation is Advanced Low following ACTFL proficiency guidelines. In addition, Spanish Education students must take the PRAXIS II Content Knowledge: Spanish before the teacher candidate' student teaching semester. Students are responsible for all test costs.

#### BACHELOR OF ARTS IN EDUCATION:

##### TEACHING SPECIALIZATION IN SPANISH

GRADES PRE K-ADULT .....	120 SEM. HRS.
Secondary Track	
Spanish Curriculum (see below) .....	31 SEM. HRS.
General Studies Requirements .....	36-38 SEM. HRS.
Professional Education Courses .....	39 SEM. HRS.
Free Electives 10-12 SEM. HRS.	

##### Required Major courses (28hrs.)

SPAN 2201 Intermediate Spanish I .....	3
SPAN 2202 Intermediate Spanish II .....	3
SPAN 3301 Spanish Composition and Conversation I .....	3
SPAN 3302 Spanish Composition and Conversation II .....	3
SPAN 3310 Spanish Civilization & Culture .....	3
OR	
SPAN 3320 Latin American Civilization & Culture .....	3
SPAN 4400 Survey of Latin American Literature .....	3
SPAN 4401 Survey of Peninsular Literature .....	3
SPAN 4410 Advanced Skills: Speaking, Writing, Listening and Reading .....	3
SPAN 4411 Spanish Capstone: Proficiency Portfolio .....	1
SPAN 4431 Methods: Second Language Acquisition .....	3

##### Major Electives Select One Course (3 CR)

SPAN 1199 Special Topics .....	3
SPAN 2200 Spanish Language Film and Video .....	3

SPAN 3300 Undergraduate Internship .....	3-6
SPAN 3310 Spanish Civilization and Culture OR	
SPAN 3320 Latin American Civilization and Culture .....	3
SPAN 3350 History of the Spanish Language .....	3
SPAN 4402 Independent Study .....	3
SPAN 4418 US Latino Cultures and Literature .....	3
Total Major Hours Required .....	31

##### Minor Requirements/Electives (if minor is required)

Secondary Professional Education .....	39
EDUC 2200 Introduction to Education .....	3
EDUC 2201 Instructional Technology .....	3
EDUC 2203 Human Development, Learn and Teach .....	3
EDUC 2240 High Incidence Disabilities for Educators .....	3
EDUC 2260 Instructional Design I .....	3
EDUC 2265 Field Experience 2 .....	1
EDUC 3331 Reading in the Content Areas .....	3
EDUC 3340 Instructional Design II .....	3
EDUC 3351 Inclusive Classroom Practices .....	3
EDUC 3365 Field Experience 3 .....	2
EDUC 4485 Action Research .....	1
EDUC 4486 Portfolio .....	1
EDUC 4496 Secondary Student Teaching .....	10

##### TOTAL HOURS FOR MAJOR (and minor if required)..... 70

Note: Students cannot double-count required courses as electives or vice versa.

##### Recommended General Studies Courses

Outcome 1- Critical Analysis .....	3
ENGL 2220 (Recommended)	
Outcome 2 - Quantitative Literacy .....	3
Any course in 2	
Outcome 3 - Written Communication .....	3
ENGL 1102 (Recommended)	
Outcome 4 - Teamwork .....	X
SPAN 4400: Survey of Latin American Literature (in the major)	
Outcome 5 - Information Literacy .....	X
ENGL 1102 (Recommended)	
Outcome 6 - Technology Literacy .....	x
EDUC 2201 (in minor)	
Outcome 7- Oral Communication .....	3
Any course in 7	
Outcome 8 - Citizenship .....	3
Any course in 8	
Outcome 9 - Ethics .....	X
ENGL 2220 (Recommended)	
Outcome 10- Health .....	2-4

Any course in 10	
Outcome 11 - Interdisciplinary.....	3
FOLK 2200/01 Introduction to Folklore	
Or	
LANG 1110 Introduction to Global Studies	
Or	
FREN 3310 Advanced Topics in French (Recommended)	
Outcome 12 - Arts.....	3
Any course in 12	
Outcome 13 - Humanities.....	3
ENGL 2221 (Recommended)	
Outcome 14- Social Sciences.....	3
Any course in 14	
Outcome 15 - Natural Science.....	4
Any course in 15	
Outcome 16 - Cultural Awareness.....	X
ENGL 2221 or	
FREN 4420 Francophone Cultures in the Americas (Recommended)	
TOTAL GENERAL STUDIES HOURS.....	36-38
TOTAL FREE ELECTIVES.....	10-12
TOTAL HOURS	120

Note: Students cannot double-count required courses as electives or vice versa.

\* Any course(s) marked with an asterisk (\*) above are recommended to complement the program curriculum; however, students may select any other courses from the approved General Studies list.

Bachelor of Arts in Education: Spanish Pre-K - Adult

Elementary Education Track	
SPAN 2201 Intermediate Spanish I.....	3
SPAN 2202 Intermediate Spanish II.....	3
SPAN 3301 Spanish Composition and Conversation I.....	3
SPAN 3302 Spanish Composition and Conversation I.....	1
SPAN 3310 Spanish Civilization & Culture.....	3
OR	
SPAN 3320 Latin American Civilization & Culture.....	3
SPAN 4400 Survey of Latin American Literature.....	3
SPAN 4401 Survey of Peninsular Literature.....	3
SPAN 4410 Advanced Skills: Speaking, Writing, Listening and Reading.....	3
SPAN 4411 Spanish Capstone - Proficiency Portfolio.....	1
SPAN 4431 Methods: Second Language Acquisition.....	3

Major Electives

Select one Course (3 cr.)

SPAN 1199 Special Topics.....	3
SPAN 2200 Spanish Language Film and Video.....	3

SPAN 3300 Undergraduate Internship.....	3 - 6
SPAN 3310 Spanish Civilization and Culture.....	3
OR	
SPAN 3320 Latin American Civilization.....	3
SPAN 3350 History of the Spanish Language.....	3
SPAN 4402 Independent Study.....	3
SPAN 4418 US Latino Cultures and Literature.....	3
Total Major Hours Required.....	31

Minor Requirements/Electives (if minor is required)

Professional Education

ART 3350 Elementary Art Education.....	3
EDUC 3331 Reading in the Content Areas.....	3
EDUC 3332 Pedagogy of Literacy.....	3
EDUC 3350 Elementary Social Studies Methods.....	3
ENGL 3354 Children's Literature.....	3
HIST 1108 US History II.....	3
HIST 2211 World Civilizations I.....	3
OR	
HIST 2212 World Civilizations II.....	3
OR	
HIST 2213 World Civilizations III.....	3
HIST 3302 West Virginia.....	3
HLTA 4400 Health Education for the Elementary School.....	3
MATH2251 Structure of Real Numbers.....	3
MATH2252 Data Analysis and Geometry.....	3
MATH3353 Math Methods for Elementary Teachers.....	3
MUSI 3330 Music in the Elementary Classroom.....	3
PHED 3326 Early Psychomotor Development.....	3
PHSC 2201 Exosphere.....	4
PHSC 2202 Geosphere.....	4
PHSC 4412 Science in the Elementary School.....	3
TOTAL HOURS FOR MAJOR (and minor if required).....	84

Note: Students cannot double-count required courses as electives or vice versa.

Recommended General Studies courses

Outcome 1 - Critical Analysis	
ENGL 1102 (Institutional Requirement).....	3
Outcome 2 - Quantitative Literacy	
MATH 1112*.....	3
Outcome 3 - Written Communication	
ENGL 1101 (Institutional Requirement).....	3
Outcome 4 - Teamwork	
COMM 2200 or 2201*.....	3
Outcome 5 - Information Literacy	

EDUC 2201 (Satisfied in Major).....	X
Outcome 6 - Technology Literacy	
EDUC 2201 (Satisfied in Major).....	X
Outcome 7 - Oral Communication	
COMM 2200 or 2201* .....	3
Outcome 8 - Citizenship	
POLI 1100* .....	3
Outcome 9 - Ethics	
ENGL 2220/21 or 2230/31* .....	3
Outcome 10 - Health	
EDUC 2203 (Satisfied in Major).....	3
Outcome 11 - Interdisciplinary	
GEOG 2210* 3	
Outcome 12 - Arts	
ART/MUSI/THEA/INTR 1120* .....	3
Outcome 13 - Humanities	
HIST 1107* .....	3
Outcome 14 - Social Sciences	
GEOG 2210* .....	X
Outcome 15 - Natural Science	
BIOL 1104* .....	4
Outcome 16 - Cultural Awareness	
HIST 2211/2212/2213 (Satisfied in Major) .....	X
Additional General Studies hours	
EDUC 3351 (Satisfied in Major).....	X
TOTAL GENERAL STUDIES HOURS .....	31
TOTAL FREE ELECTIVES .....	5
TOTAL HOURS .....	120

\* Any course(s) marked with an asterisk (\*) above are recommended to complement the program curriculum; however, students may select any other courses from the approved General Studies list.

\*Note: All General Studies courses listed are required for elementary Education majors.

Note: All General Studies courses listed are required for Elementary Education majors

MINOR IN SPANISH .....18 SEM. HRS.

Required Minor Courses

SPAN 2201 Intermediate Spanish I .....	3
SPAN 2202 Intermediate Spanish II .....	3
SPAN 3301 Spanish Composition and Conversation I .....	3
SPAN 3302 Spanish Composition and Conversation II.....	3

Required Minor Electives (6 hrs)

Group 1	
(Choose 1 course)	
SPAN 3310 or Spanish Civilization & Culture.....	3

SPAN 3320 Latin American Civilization & Culture .....	3
SPAN 4400 Survey of Latin American Literature .....	3
SPAN 4401 Survey of Peninsular Literature .....	3

Group 2

(Choose 1 course)

SPAN 1199 Special Topics .....	3
SPAN 2200 Spanish Language Film and Video .....	3
SPAN 2250 Spanish for the Medical Professions.....	3
SPAN 2251 Spanish for Criminal Justice .....	3
SPAN 2252 Spanish for the World Economy .....	3
SPAN 3300 Undergraduate Internship.....	3-6
SPAN 3350 History of the Spanish Language.....	3
Total Hours for Minor .....	18 hrs.

## TEACHING ENGLISH TO SPEAKERS OF OTHER LANGUAGES (TESOL)

English is the language of business, diplomacy and science in many parts of the world, and there is a need for those prepared to teach it to speakers of other languages. Completion of this minor will empower future ESL teachers to understand the communication challenges of second-language learners and equip them with best practices and experience in teaching this population. Students completing this minor are encouraged to choose General Studies classes such as HIST 2211, 2212 and 2213 and ENGL 2220 and 2221 to bring them a wider knowledge of world culture along with their linguistic studies and minor electives. While this minor does not yet carry certification for teaching English as a Second Language in the public schools, this credential will make elementary and secondary teaching candidates more attractive to school districts with large non-English speaking populations.

MINOR IN TEACHING ENGLISH TO SPEAKERS OF OTHER LANGUAGES (TESOL) .....24 SEM. HRS.

Required courses (21 hrs.)

- Language Requirement ..... 6 sem. hrs. Students must take 6 credits of a world language other than English at the 2200 level or above.
- Language Courses..... 15 sem. hrs.

LANG 3300 INTERCULTURAL COMMUNICATION

(CROSS-LISTED WITH COMM 3300).....	3
LANG 3301 THEORIES OF LANGUAGE I (CROSS-LISTED WITH ENGL 3301) .....	3
LANG 3302 THEORIES OF LANGUAGE II (CROSS-LISTED WITH ENGL 3302) .....	3
LANG 4431 TEACHING ENGLISH TO SPEAKERS OF OTHER LANGUAGES (CROSS-LISTED SPAN 4431).....	3
LANG 4432 TEACHING ENGLISH TO SPEAKER OF OTHER LANGUAGES PRACTICUM.....	3

Electives (3 hrs.)

Select one of the following courses:

BSBA 3320 INTERNATIONAL BUSINESS .....	3
BSBA 3322 MANAGING BUSINESS IN EUROPE.....	3
PHIL 3350 COMPARATIVE RELIGION .....	3
POLI 3311 GLOBAL AFFAIRS .....	3
POLI 3321 U.S. FOREIGN POLICY.....	3
POLI 3370 WORLD RELIGIONS AND POLITICS .....	3
SOCY 3301 CULTURAL ANTHROPOLOGY.....	3

Non-native speakers of English may, with the permission of the Chair of Language & Literature, choose one of the following courses to fulfill this elective:

INTR 2200 RACE, CLASS AND GENDER .....	3
FOLK 2200 INTRODUCTION TO FOLKLORE.....	3

# Department of Social Science

**Dr. Joshua Smallridge, Chair**  
 110a Hardway Hall / (304) 367-4740  
 jsmallridge@fairmontstate.edu

## FACULTY

ABRUZZINO, DAVID (2010)  
 Assistant Professor of National Security and Intelligence

CLARK, TODD (2016)  
 Assistant Professor of National Security and Intelligence  
 Director of Open Source Intelligence Exchange (OSIX) Lab

HALL-SANCHEZ, AMANDA (2017)  
 Criminal Justice Graduate Program Director  
 Assistant Professor of Criminal Justice

HARRISON, WILLIAM H. (2013)  
 Assistant Professor of Political Science

KIRBY, JERI (2015)  
 Assistant Professor of Criminal Justice

MCLAUGHLIN, JOHN E. (2013)  
 Assistant Professor of Criminal Justice  
 Graduate Faculty

MILLEN-PENN, KENNETH (1995)  
 Professor of History

NOONE, DIANA C. (2004)  
 Professor of Criminal Justice

NOONE, GREGORY P. (2007)  
 Director, National Security and Intelligence Program  
 Associate Professor of Political Science & Law

PAYNE, ROBIN (2012)  
 Associate Professor of History

PODLASKOWSKI, ADAM (2009)

Associate Professor of Philosophy

RADULOVICH, NENAD (2006)  
 Assistant Professor of History  
 & Social Studies Education

SHIELDS, CHARLES (1996)  
 Professor of Criminal Justice

SHIELDS, DEANNA (1982)  
 Professor of Criminal Justice

SMALLRIDGE, JOSHUA L. (2011)  
 Associate Professor of Criminal Justice  
 Graduate Faculty

TYCE, SPENCER (2016)  
 Assistant Professor of History

## CRIMINAL JUSTICE

Criminal Justice examines the structure, functions, and decision-making processes of agencies that deal with crime and criminal offenders. As an independent academic discipline, criminal justice is comparatively new. Interest in criminal justice education was spurred by the “war on crime” during the 1960s and the resulting massive federal funding to upgrade criminal justice agencies, technology, programming and education of criminal justice personnel.

Faculty in this program provide expertise in law enforcement, investigations, corrections, criminal law and theory. Majors are assigned a faculty advisor who will assist in selection of courses relevant to individual interests and career aspirations.

Students with a B.S. degree in criminal justice qualify for employment in city, county, state and federal criminal justice agencies, and in the rapidly-growing private industrial security field. A number of graduates continue their education in graduate programs in criminal justice, criminology or law. The program also offers a Master of Science in Criminal Justice degree.

### BACHELOR OF SCIENCE IN

CRIMINAL JUSTICE .....120 SEM. HRS.  
 Criminal Justice Courses (see below)..... 45 SEM. HRS.  
 Social and Behavioral Science .....21 SEM. HRS.  
 General Studies Requirements ..... 30 SEM. HRS.

Free Electives 24 SEM. HRS.  
No Minor Required

- Criminal Justice Required Courses.....30 SEM. HRS.
  - CRIM 1100 INTRODUCTION TO CRIMINAL JUSTICE ..... 3
  - CRIM 1101 POLICE OPERATIONS..... 3
  - CRIM 2206 INTRODUCTION TO CORRECTIONS ..... 3
  - CRIM 2240 ADJUDICATION PROCESS..... 3
  - CRIM 2250 CYBERCRIME..... 3
  - CRIM 2295 ETHICS IN CRIMINAL JUSTICE ..... 3
  - CRIM 3320 CRIMINOLOGY ..... 3
  - CRIM 3340 CRIMINAL PROCEDURE ..... 3
  - CRIM 4400 RESEARCH IN THE SOCIAL SCIENCES..... 3
  - CRIM 4425 EVALUATION OF CRIMINAL JUSTICE SYSTEM ..... 3

A Criminal Justice elective is any Criminal Justice course not listed as required for the major. Must include a minimum of 12 hours of 3300-4400 level courses.

Criminal Justice Electives (36 hrs.)

- CRIM 2202 PRINCIPLES OF CRIMINAL LAW ..... 3
- CRIM 2203 COMPUTER CRIME ..... 3
- CRIM 2209 FIREARMS ..... 3
- CRIM 2212 DEVIANT BEHAVIOR ..... 3
- CRIM 2226 CRIME SCENE INVESTIGATION ..... 3
- CRIM 2236 CRIMINAL INVESTIGATION ..... 3
- CRIM 2246 CRIMINAL EVIDENCE..... 3
- CRIM 3302 CRIMINAL JUSTICE SPANISH ..... 3
- CRIM 3304 THE FEMALE OFFENDER ..... 3
- CRIM 3305 CHANGING ROLES OF WOMEN IN CRIMINAL JUSTICE .. 3
- CRIM 3306 SCIENTIFIC BASICS OF FINGERPRINTS..... 3
- CRIM 3310 COMPARATIVE CRIMINAL JUSTICE..... 3
- CRIM 3311 JUVENILE JUSTICE ..... 3
- CRIM 3325 ANALYSIS OF SECURITY OPERATIONS..... 3
- CRIM 3330 GROUP DISTURBANCE ..... 3
- CRIM 3335 ANALYSIS OF POLICE OPERATIONS ..... 3
- CRIM 3355 ANALYSIS OF CORRECTIONAL OPERATIONS ..... 3
- CRIM 3360 COMMUNITY BASED CORRECTIONS..... 3
- CRIM 3365 LICIT AND ILLICIT DRUGS..... 3
- CRIM 3370 ECONOMIC CRIME ..... 3
- CRIM 3375 VICTIMOLOGY ..... 3
- CRIM 3380 MOCK TRIAL ..... 3
- CRIM 3385 RACIAL PROFILING ..... 3
- CRIM 3390 FORENSIC PSYCHOLOGY ..... 3
- CRIM 3395 CONSTITUTIONAL LAW ..... 3
- CRIM 3399 SPECIAL TOPICS IN CRIMINAL JUSTICE ..... 3-9
- CRIM 4401 INDEPENDENT STUDY..... 1-12
- CRIM 4404 Civil Liberties in the United States ..... 3
- CRIM 4405 TERRORISM..... 3
- CRIM 4411 INTERNSHIP ..... 3-12

- CRIM 4413 INSIDE-OUT:PRISON EXCHANGE PROGRAM ..... 3
- CRIM 4415 COMMUNITY POLICING ..... 3
- CRIM 4420 LEGAL RESEARCH ..... 3
- CRIM 4435 INTELLIGENCE LAW ..... 3
- CRIM 4440 NATIONAL SECURITY LAW ..... 3
- CRIM 4998 UNDERGRADUATE RESEARCH..... 1-6

- Social and Behavioral Sciences .....21 SEM. HRS.

Student must choose 21 hours from of 2200-4400 courses in Geography, History, National Security and Intelligence, Political Science, Philosophy, Psychology, or Sociology. Courses must be chosen from at least three disciplines. It is highly recommended that students interested in pursuing a criminal justice master's degree include PSYC 2240/SOCY 2240

- General Studies Requirements .....30 SEM. HRS.

(When choices are available, see the full General Studies Curriculum in Appendix A.)

- Outcome 1 - Critical Analysis
  - ENGL 1102 (Institutional Requirement) ..... 3
- Outcome 2- Quantitative Literacy
  - MATH 1507 or 1407 or higher in Outcome 2(Required by Major) .... 3
- Outcome 3 - Written Communication
  - ENGL 1101 (Institutional Requirement) ..... 3
- Outcome 4 - Teamwork
  - CRIM 2295 (Satisfied in Major)..... X
- Outcome 5 - Information Literacy
  - ENGL 1102 (Satisfied in Outcome 1)
- Outcome 6 - Technology Literacy
  - BISM 1200\* or any course in Outcome 6 ..... 3
- Outcome 7 - Oral Communications
  - COMM 2200, 2201, 2202\* ..... 3
- Outcome 8 - Citizenship
  - POLI 11001100\* or any course in Outcome 8 ..... 3
- Outcome 9 - Ethics
  - CRIM 2295 (Satisfied in Major)..... X
- Outcome 10 - Health and Well-being
  - PHED 1100\* or any course in Outcome 10 ..... 2
- Outcome 11- Interdisciplinary and Lifelong Learning
  - POLI 1100\* (Satisfied in Outcome 8 or any course in Outcome 11) .. X
- Outcome 12 - Arts
  - ART 1120 or MUSI 1120 or THEA 1120 or INTR 1120\* ..... 3
- Outcome 13 - Humanities
  - HIST 2211\*, 2212\* or 2213\* or any course in Outcome 13 ..... 3
- Outcome 14 - Social Science
  - CRIM 2202 2212 3310 (Satisfied in Major) ..... X
- Outcome 15 - Natural Science

Any course listed in Outcome 15..... 4  
 Outcome 16 - Cultural Awareness  
 HIST 2211,\* 2212\* or 2213\*  
 (Satisfied in Outcome 13 or any course in Outcome 16)..... X

\* Any course(s) marked with an asterisk (\*) above are recommended to complement the program curriculum; however, students may select any other courses from the approved General Studies list.

MINOR IN CRIMINAL JUSTICE ..... 18 SEM. HRS.

Required Courses (9 hrs.)

CRIM 1100 INTRODUCTION TO CRIMINAL JUSTICE ..... 3  
 CRIM 1101 POLICE OPERATIONS..... 3  
 CRIM 2206 INTRODUCTION TO CORRECTIONS ..... 3

Electives (9 hrs.)

Students must choose CRIM courses from the 3300-4400 level.

HISTORY

Every person, every place, everything on earth has a history, a story of its past that can help us understand human existence and human behavior. The History Program’s major and minor draw upon a broad curriculum that encompasses regional, national, and international history, as well as such special topics as the revolutions in history and diplomatic history. The History Program offers two types of majors. The Bachelor of Arts degree has the traditional emphasis on language skills, especially through study of a foreign language. It is a good choice for students thinking about postgraduate study. The Bachelor of Science degree develops basic capabilities in statistics and computer science. It is a good choice for students interested in the modern social science approach to historical understanding.

The great advantages of historical study are:

- 1) Emphasis on developmental and evolutionary aspects of human experience.
- 2) Examination of many different fields of human activity.
- 3) Use of insights and methods of many other fields.

Students completing a bachelor’s degree in history may enter professional practice in academic history (teaching and writing), public history (archives and special research, consultancy) or publishing (print,

electronic, film and television documentary). The history major also provides excellent preparation for careers in law, government, politics, foreign service, historical preservation and journalism.

BACHELOR OF ARTS IN HISTORY.....120 SEM. HRS.  
 History Courses ..... 48 SEM. HRS.  
 General Studies Requirements .....42-43 SEM. HRS.  
 Foreign Language Requirements ..... 12 SEM. HRS.  
 Free Electives 17-18 HRS.  
 No Minor Required

• Required History Courses.....21HRS.  
 HIST 1107 UNITED STATES HISTORY I..... 3  
 HIST 1108 UNITED STATES HISTORY II..... 3  
 HIST 2211 WORLD CIVILIZATIONS I..... 3  
 HIST 2212 WORLD CIVILIZATIONS II..... 3  
 HIST 2213 WORLD CIVILIZATIONS III ..... 3  
 HIST 2250 THE HISTORIAN’S CRAFT ..... 3  
 HIST 4498 SENIOR SEMINAR ..... 3

• Advanced History Electives.....27 HRS.  
 Selected with advisor’s approval. Advanced electives may be taken only when prerequisites are met or with the instructor’s permission.

HIST 3302 WEST VIRGINIA HISTORY..... 3  
 HIST 3305 HISTORY OF NATIONAL SECURITY AND INTELLIGENCE .. 3  
 HIST 3310 DIPLOMATIC HISTORY OF THE UNITED STATES..... 3  
 HIST 3315 COLONIAL AMERICA ..... 3  
 HIST 3316 THE EARLY REPUBLIC ..... 3  
 HIST 3317 CIVIL WAR AND RECONSTRUCTION..... 3  
 HIST 3318 GILDED AGE TO THE GREAT CRASH ..... 3  
 HIST 3319 RECENT AMERICA..... 3  
 HIST 3333 WOMEN IN AMERICAN HISTORY..... 3  
 HIST 3335 WOMEN IN WORLD HISTORY..... 3  
 HIST 3340 POPULAR CULTURE IN MODERN AMERICAN HISTORY . 3  
 HIST 3344 AFRICAN-AMERICAN HISTORY AND CULTURE ..... 3  
 HIST 3351 HISTORY OF ENGLAND..... 3  
 HIST 3352 HISTORY OF RUSSIA..... 3  
 HIST 4405 HISTORY OF AFRICA ..... 3  
 HIST 4410 HISTORY OF EAST ASIA..... 3  
 HIST 4415 HISTORY OF THE MIDDLE EAST: MUHAMMAD  
 TO THE PRESENT ..... 3  
 HIST 4420 HISTORY OF LATIN AMERICA..... 3  
 HIST 4425 MEDIEVAL EUROPE ..... 3  
 HIST 4429 EARLY MODERN EUROPE ..... 3  
 HIST 4430 19TH CENTURY EUROPE..... 3  
 HIST 4431 RECENT EUROPE ..... 3  
 HIST 4450 HISTORY OF AMERICAN SEXUALITIES ..... 3  
 HIST 4455 REVOLUTIONS IN HISTORY..... 3

HIST 4475 PHILOSOPHY OF HISTORY.....	3
HIST 4499 SPECIAL TOPICS .....	3

- Foreign Language Requirements..... 12 SEM. HRS.  
 FREN 1101, 1102, 2201, 2202 OR  
 SPAN 1101, 1102, 2201, 2202 OR

Department permission to substitute 12 hours of other language study

- General Studies Requirements ..... 42-43 SEM.HRS.  
 (When choices are available, see the full General Studies Curriculum in Appendix A.)

Outcome 1 - Critical Analysis	
ENGL 2220* or 2221* .....	3
Outcome 2- Quantitative Literacy	
MATH 1507 or 1407 or higher in Outcome 2(Required by Major).....	3
Outcome 3 - Written Communication	
ENGL 1101 (Institutional Requirement).....	3
Outcome 4 - Teamwork: Choose 3 hours from:	
COMM 2201* or CRIM 2295* .....	3
Outcome 5 - Information Literacy: 3 hours	
ENGL 1102 (Institutional Requirement).....	3
Outcome 6 - Technology Literacy	
BISM 1200*or BISM 2200* or TECH 1100* .....	3
Outcome 7 - Oral Communication	
COMM 2200* .....	3
Outcome 8 - Citizenship	
HIST 1107 or HIST 1108 (Satisfied in Major).....	X
Outcome 9 - Ethics	
PHIL 3325* or SOCY 1110* .....	3
Outcome 10 - Health and Well-being:	
PHED 1100* .....	2
OR	
CRIM 2212* .....	3
Outcome 11 - Interdisciplinary:	
POLI 11001100* .....	3
Outcome 12 - Arts	
ART 1120* or MUSI 1120* or THEA 1120* .....	3
Outcome 13 - Humanities:	
ENGL 2230* or ENGL 2231*.....	3
Outcome 14 - Social Sciences:	
PSYC 1101* OR GEOG 2210* .....	3
Outcome 15 - Natural Sciences:	
Any course listed in Outcome 15.....	4
Outcome 16 - Cultural Awareness and Human Dignity:	
HIST 2211, HIST 2212, or HIST 2213 (Satisfied in Major) .....	X

\* Any course(s) marked with an asterisk (\*) above are recommended to complement the program curriculum; however, students may select any other courses from the approved General Studies list.

BACHELOR OF SCIENCE IN HISTORY .....	120 SEM. HRS.
History Courses.....	48 HRS.
General Studies Requirements .....	42-43 HRS.
Additional Requirements.....	9 HRS.
Free Electives 20-21 HRS.	
No Minor Required	

- Required History Courses..... 21 HRS.  
 HIST 1107 UNITED STATES HISTORY I..... 3  
 HIST 1108 UNITED STATES HISTORY II..... 3  
 HIST 2211 WORLD CIVILIZATIONS I..... 3  
 HIST 2212 WORLD CIVILIZATIONS II..... 3  
 HIST 2213 WORLD CIVILIZATIONS III ..... 3  
 HIST 2250 THE HISTORIAN ÔS CRAFT..... 3  
 HIST 4498 SENIOR SEMINAR ..... 3
- Advanced History Electives..... 27 HRS.

Selected with advisor's approval. Advanced electives may be taken only when prerequisites are met or with the instructor's permission.

HIST 3302 WEST VIRGINIA .....	3
HIST 3305 HISTORY OF NATIONAL SECURITY AND INTELLIGENCE ..	3
HIST 3310 DIPLOMATIC HISTORY OF THE UNITED STATES.....	3
HIST 3315 COLONIAL AMERICA .....	3
HIST 3316 THE EARLY REPUBLIC .....	3
HIST 3317 CIVIL WAR AND RECONSTRUCTION.....	3
HIST 3318 GILDED AGE TO THE GREAT CRASH .....	3
HIST 3319 RECENT AMERICA.....	3
HIST 3333 WOMEN IN AMERICAN HISTORY.....	3
HIST 3335 WOMEN IN WORLD HISTORY.....	3
HIST 3340 POPULAR CULTURE IN MODERN AMERICAN HISTORY.....	3
HIST 3344 AFRICAN-AMERICAN HISTORY AND CULTURE .....	3
HIST 3351 HISTORY OF ENGLAND .....	3
HIST 3352 HISTORY OF RUSSIA.....	3
HIST 4405 HISTORY OF AFRICA.....	3
HIST 4410 HISTORY OF EAST ASIA.....	3
HIST 4415 HISTORY OF THE MIDDLE EAST: MUHAMMAD TO THE PRESENT .....	3
HIST 4420 HISTORY OF LATIN AMERICA.....	3
HIST 4425 MEDIEVAL EUROPE .....	3
HIST 4429 EARLY MODERN EUROPE .....	3
HIST 4430 19TH CENTURY EUROPE.....	3
HIST 4431 RECENT EUROPE .....	3
HIST 4450 HISTORY OF AMERICAN SEXUALITIES.....	3
HIST 4455 REVOLUTIONS IN HISTORY.....	3

HIST 4475	PHILOSOPHY OF HISTORY.....	3
HIST 4499	SPECIAL TOPICS .....	3

• Additional Requirements .....9 HRS.

\*NOTE: none of these may be used to fulfill the General Studies requirements

SOCY 2240	BEHAVIORAL STATISTICS .....	3
- OR -		
PSYCH 2240	BEHAVIORAL STATISTICS .....	3

Students must choose two courses from the following list:

BSBA 2200	ECONOMICS.....	3
GEOG 2210	INTRODUCTION TO GEOGRAPHY.....	3
PHIL 2275	INTRODUCTION TO LOGIC AND CRITICAL REASONING.....	3
PHIL 3325	ETHICS .....	3
POLI 2200	INTRODUCTION TO POLITICAL SCIENCE.....	3
POLI 3395	CONSTITUTIONAL LAW .....	3
PSYC 2220	HISTORY AND SYSTEMS OF PSYCHOLOGY.....	3
PSYC 2230	SOCIAL PSYCHOLOGY .....	3
OR		
SOCY 2230	SOCIAL PSYCHOLOGY .....	3
SOCY 2205	PRINCIPLES OF RACE, CLASS, AND GENDER.....	3
SOCY 3301	CULTURAL ANTHROPOLOGY.....	3

• General Studies Requirements ..... 42-43 SEM. HRS.  
(When choices are available, see the full General Studies Curriculum in Appendix A.)

Outcome 1 - Critical Analysis		
ENGL 2220* or 2221* .....		3
Outcome 2- Quantitative Literacy		
MATH 1507 or 1407* or higher in Outcome 2.....		3
Outcome 3 - Written Communication		
ENGL 1101 (Institutional Requirement).....		3
Outcome 4 - Teamwork: Choose 3 hours from:		
COMM 2201* OR CRIM 2295* .....		3
Outcome 5 - Information Literacy: 3 hours		
ENGL 1102 (Institutional Requirement).....		3
Outcome 6 - Technology Literacy		
BISM 1200* or BISM 2200* or TECH 1100* .....		3
Outcome 7 - Oral Communication		
COMM 2200* .....		3
Outcome 8 - Citizenship		
HIST 1107 or HIST 1108 (Satisfied in Major).....		X
Outcome 9 - Ethics		
PHIL 3325* or SOCY 1110* .....		3
Outcome 10 - Health and Well-being:		
PHED 1100* .....		2

OR		
CRIM 2212* .....		3

Outcome 11- Interdisciplinary and Lifelong Learning:		
POLI 1100* .....		3
Outcome 12 - Fine Arts		
ART 1120* OR MUSI 1120* OR THEA 1120* .....		3
Outcome 13 - Humanities:		
ENGL 2230* OR 2231* .....		3
Outcome 14 - Social Sciences:		
PSYC 1101* OR GEOG 2210* .....		3
Outcome 15 - Natural Sciences: Choose 4 hours from:		
Any course listed in Outcome 15 .....		4
Outcome 16 - Cultural Awareness and Human Dignity:		
HIST 2211, HIST 2212 or HIST 2213 (Satisfied in Major) .....		X

\* Any course(s) marked with an asterisk (\*) above are recommended to complement the program curriculum; however, students may select any other courses from the approved General Studies list.

MINOR IN HISTORY .....21 SEM. HRS.

Required Courses (6 hrs.)		
HIST 1107 UNITED STATES HISTORY I.....		3
HIST 1108 UNITED STATES HISTORY II.....		3

Electives (6 hrs.)		
(Select two of the following courses)		
HIST 2211 WORLD CIVILIZATIONS I.....		3
HIST 2212 WORLD CIVILIZATIONS II.....		3
HIST 2213 WORLD CIVILIZATIONS III .....		3

Advanced Electives (9 hrs.)  
Select any three upper-level courses.

## MINOR IN MUSEUM STUDIES

Students interested in the study of museums learn to manage collections, handle exhibits, educate visitors and preserve culture and heritage. This 18-hour minor in Museum Studies located in the College of Liberal Arts/Department of Social Science is physically housed at the Gabor WV Folklife Center. This minor allows students who complete the program to have a solid base in the various components of museum training to include collections management, exhibit development and production, interpretation and museum education and a general understanding of museum concepts for an introductory position in a small to medium size

facility as well as a foundation for further graduate studies.

This interdisciplinary academic minor can be attached to most majors and is especially applicable to history.

- Required Courses ..... 18 hrs.
- MUSM 1100 INTRODUCTION TO MUSEUM STUDIES.....3 HRS.
- MUSM 2150 FOLK ARTS OR MUSM 3301 MATERIAL CULTURE ..3 HRS.
- MUSM 3210 MUSEUM INTERPRETATION AND EDUCATION  
.....3 HRS.
- MUSM 3220 MUSEUM COLLECTIONS MANAGEMENT .....3 HRS.
- MUSM 3230 MUSEUM EXHIBIT DESIGN AND CONSTRUCTION ..3 HRS.
- MUSM 4290 MUSEUM PRACTICUM/INTERNSHIP/CAPSTONE.....3 HRS.

## NATIONAL SECURITY & INTELLIGENCE

The National Security and Intelligence Program is designed to provide the necessary background for students to pursue careers in national security and/or intelligence in government agencies and private enterprise.

Students seeking a Bachelor of Arts degree in National Security & Intelligence must apply to the National Security & Intelligence Program Director and successfully complete an interview. To be recommended for graduation, the student must have a 2.7 GPA or a 2.5 GPA with the Program Director's approval.

The program Director will conduct an annual review of the academic progress of all students enrolled in the Program. Students whose GPA falls below 2.7 or who might otherwise exhibit behavior that is not conducive to securing employment in this field will be placed on probation or dropped from the Program depending on the outcome of the review.

BACHELOR OF ARTS IN NATIONAL SECURITY & INTELLIGENCE ..... 120 SEM. HRS.  
National Security & Intelligence Curriculum .....57 SEM. HRS.  
General Studies ..... 30 SEM. HRS.  
Foreign Language Requirements.....12 SEM. HRS.  
Free Electives 21 SEM. HRS.  
No Minor Required

- National Security & Intelligence Curriculum 57 SEM. HRS.

### Required Courses (51 Hrs.)

- BISM 4300 BUSINESS INTELLIGENCE ..... 3
- BSBA 2200 ECONOMICS ..... 3
- HIST 1107 U.S. HISTORY I ..... 3
- HIST 1108 U.S. HISTORY II ..... 3
- HIST 2213 WORLD CIVILIZATIONS III ..... 3
- NSIS 3305 HISTORY OF NATIONAL SECURITY AND INTELLIGENCE . 3
- HIST 3310 DIPLOMATIC HISTORY..... 3
- NSIS 3300 INTELLIGENCE RESEARCH ..... 3
- PHIL 3350 COMPARATIVE RELIGION ..... 3
- OR-
- POLI 3370 WORLD RELIGIONS AND POLITICS ..... 3
- POLI 1100 AMERICAN GOVERNMENT ..... 3
- POLI 2210 PRINCIPLES OF INTERNATIONAL RELATIONS..... 3
- POLI 2220 COMPARATIVE GOVERNMENT ..... 3
- NSIS 4400 RESEARCH IN THE SOCIAL SCIENCES.....3
- NSIS 4490 CAPSTONE SEMINAR IN NATIONAL SECURITY AND INTELLIGENCE..... 3
- POLI 3350 INTERNATIONAL LAW ..... 3
- POLI 4405 TERRORISM..... 3
- OR-
- CRIM 4405 TERRORISM..... 3
- PSYC 2240 BEHAVIORAL STATISTICS ..... 3
- OR-
- SOCY 2240 BEHAVIORAL STATISTICS ..... 3
- National Security and Intelligence Electives ..... (6 hrs.)
- CRIM 2236 CRIMINAL INVESTIGATION ..... 3
- CRIM 2246 CRIMINAL EVIDENCE..... 3
- CRIM 3310 COMPARATIVE CRIMINAL JUSTICE..... 3
- LANGUAGE RELATED CULTURE & HISTORY COURSE ..... 3
- Students may also choose from any advanced (3300/4400) National Security and Intelligence courses or Political Science courses.

- General Studies Requirements ..... 30 SEM. HRS.  
(When choices are available, see the full General Studies Curriculum in Appendix A.)

- Outcome 1 - Critical Analysis  
ENGL 1102 (Institutional Requirement) ..... 3
- Outcome 2- Quantitative Literacy  
MATH 1507 or 1407 or higher in Outcome 2(Required by Major) .... 3
- Outcome 3 - Written Communication  
ENGL 1101 (Institutional Requirement) ..... 3
- Outcome 4 - Teamwork  
CRIM 2295 (Satisfied in Major)..... X
- Outcome 5 - Information Literacy  
ENGL 1102 (Satisfied in Outcome 1)..... 3
- Outcome 6 - Technology Literacy  
BISM 1200 or CRIM 2250\* ..... 3

Outcome 7 - Oral Communication	
COMM 2200, 2201, or 2202* .....	X
Outcome 8 - Citizenship	
POLI 1100, HIST 1107 or HIST 1108 (Satisfied in Major) .....	X
Outcome 9 - Ethics	
CRIM 2295 (Satisfied in Outcome 4) .....	X
Outcome 10 - Health	
PHED 1100* .....	2
Outcome 11- Interdisciplinary	
POLI 1100 (Satisfied in Major) .....	X
Outcome 12 - Arts	
ART 1120 or INTR 1120 or MUSI 1120, or THEA 1120* .....	3
Outcome 13 - Humanities	
HIST 2211, HIST 2212 or PHIL 2250* .....	3
Outcome 14 - Social Sciences	
CRIM 3310 or POLI 2200* .....	3
Outcome 15 - Natural Science	
Any course in Outcome 15 .....	4
Outcome 16 - Cultural Awareness	
HIST 2211, HIST 2212, or POLI 2200 (Satisfied in Outcome 13 or Outcome 14) X	

\* Any course(s) marked with an asterisk (\*) above are recommended to complement the program curriculum; however, students may select any other courses from the approved General Studies list.

**NATIONAL SECURITY AND INTELLIGENCE MINOR.....18 SEM. HRS.**

Required courses (6 hrs.)

HIST/NSIS 3305 HISTORY OF NATIONAL SECURITY AND INTELLIGENCE	3
CRIM 4405 TERRORISM.....	3
-OR-	
POLI 4405 TERRORISM.....	3

Electives (12 hrs.)

Students must choose courses from at least two different disciplines.

CRIM 2246 CRIMINAL EVIDENCE .....	3
CRIM 3310 COMPARATIVE CRIMINAL JUSTICE.....	3
CRIM 4400 RESEARCH IN THE SOCIAL SCIENCES.....	3
HIST 3310 DIPLOMATIC HISTORY.....	3
POLI 1103 AMERICAN GOVERNMENT.....	3
POLI 2210 PRINCIPLES OF INTERNATIONAL RELATIONS .....	3
POLI 2220 COMPARATIVE GOVERNMENT.....	3

Students may also choose from any advanced (3300/4400) National Security and Intelligence courses or Political Science courses.

**PHILOSOPHY**  
(MINOR ONLY)

Philosophy is neither dogma nor advice for daily living nor a body of truisms. Rather, it examines the premises on which systematic thought may rest; it explores the types of thought that may be produced in such areas of concern as ethics, politics, aesthetics, metaphysics, and epistemology; and it evaluates the advantages and disadvantages inherent in various modes and systems of thought. Thus philosophy encourages the thinking person to develop a sophisticated self-conception and world-view, and to examine his/her values, expectations, commitments and loyalties in a rational and realistic manner.

MINOR IN PHILOSOPHY ..... 15 SEM.HRS.

Required courses (6 hrs.)

PHIL 2200 INTRODUCTION TO PHILOSOPHY.....	3
PHIL 2250 GREAT PHILOSOPHERS .....	3

Electives (9 hrs.)  
Choose from any of the remaining Philosophy courses available.

**POLITICAL SCIENCE**

The Political Science curriculum is designed to provide an understanding of the political process in its many manifestations, including the structure of government institutions, the political behavior of individuals and groups, the study of public problems characteristic of modern societies, and a consideration of the interrelationships of institutions at different levels of government.

The principal objectives of the Political Science Program are:

- 1) To lay the basis for an understanding of governmental and administrative processes for individuals planning public service careers in national, state, or local government
- 2) To foster an understanding of the substance and methods of the study of government and politics as preparation for graduate work in political science or public administration
- 3) To provide thorough training for students considering law school.

Courses allow students to concentrate in broad fields and to develop more specialized programs reflecting their particular interests. Generally, 1100-2200 level courses are survey courses and 3300-4400

level courses cover more specific topics. While both the major and minor in political science typically consist of necessary introductory work, the faculty strongly urges students with a minor in political science to take the Capstone Seminar in Political Science (POLI 4490). Schedules should be planned in consultation with an advisor, and students are encouraged to explore a variety of courses. Eligible students are also encouraged to intern in Washington, D.C. with the Washington Center for Internships and Academic Seminars (see Special Academic Programs).

**BACHELOR OF ARTS IN**

POLITICAL SCIENCE .....	120 SEM. HRS.
Political Science Curriculum (see below).....	39 SEM. HRS.
General Studies Requirements .....	30 SEM. HRS.
MINOR REQUIRED .....	18 SEM. HRS.
Free Electives	33 SEM. HRS.

- Political Science Curriculum .....39 SEM. HRS.

**Required courses (24 hrs.)**

CRIM 2295 ETHICS IN CRIMINAL JUSTICE .....	3
-OR-	
PHIL 3325 ETHICS .....	3
BSBA 2200 ECONOMICS.....	3
POLI 1100 AMERICAN GOVERNMENT.....	3
POLI 2200 INTRODUCTION TO POLITICAL SCIENCE.....	3
POLI 2210 PRINCIPLES OF INTERNATIONAL RELATIONS.....	3
POLI 2220 COMPARATIVE GOVERNMENT.....	3
POLI 4400 RESEARCH IN THE SOCIAL SCIENCES.....	3
CRIM 4412 RESEARCH IN THE SOCIAL SCIENCES.....	3
POLI 4490 CAPSTONE SEMINAR IN POLITICAL SCIENCE.....	3

**Political Science Electives (15 hrs.)**

Students may choose from any advanced (3300/4400) Political Science courses.

- General Studies Requirements .....30 SEM. HRS.

(When choices are available, see the full General Studies Curriculum in Appendix A.)

Outcome 1 - Critical Analysis	
ENGL 1102 (Institutional Requirement).....	3
Outcome 2- Quantitative Literacy	
MATH 1507 or 1407 or higher in Outcome 2(Satisfied by Major).....	3
Outcome 3 - Written Communication	
ENGL 1101 (Institutional Requirement).....	3
Outcome 4 - Teamwork	
CRIM 2295 (Satisfied in Major).....	X

Outcome 5 - Information Literacy	
ENGL 1102 (Satisfied in Outcome 1).....	X
Outcome 6 - Technology Literacy	
CRIM 2250 or BISM 1200* .....	3
Outcome 7 - Oral Communications	
COMM 2200, 2201, or 2202* .....	3
Outcome 8 - Citizenship	
HIST 1107 or HIST 1108*.....	3
Outcome 9 - Ethics	
CRIM 2295 (Satisfied in Major).....	X
Outcome 10 - Health and Well-being	
PHED 1100* .....	2
Outcome 11- Interdisciplinary and Lifelong Learning	
POLI 1100 (Satisfied in Major).....	X
Outcome 12 - Fine Arts	
ART 1120, INTR 1120, MUSI 1120, or THEA 1120* .....	3
Outcome 13 - Humanities	
HIST 2211, 2212 or 2213 OR PHIL 2250* .....	3
Outcome 14 - Social Science	
POLI 2200 (Satisfied in Major).....	X
Outcome 15 - Natural Science	
Any Course Listed in Outcome 15.....	4
Outcome 16 - Cultural Awareness	
CRIM 3310 OR HIST 2211, 2212 or 2213	
(Satisfied in Outcome 13 OR Outcome 14) .....	X

\* Any course(s) marked with an asterisk (\*) above are recommended to complement the program curriculum; however, students may select any other courses from the approved General Studies list.

**MINOR IN POLITICAL SCIENCE ..... 18 SEM. HRS.**

**Required courses (6 hrs.)**

POLI 1103 AMERICAN GOVERNMENT .....	3
POLI 2200 INTRODUCTION TO POLITICAL SCIENCE .....	3

**Electives (12 hrs.)**

Students may choose from any Political Science courses, with their advisor's approval.

**MINOR IN INTERNATIONAL STUDIES ..... 21 SEM. HRS.**

**Required courses (12 hrs.)**

BSBA 3320 INTERNATIONAL BUSINESS .....	3
GEOG 3305 ECONOMIC GEOGRAPHY .....	3
PHIL 3350 COMPARATIVE RELIGION .....	3
- OR -	
POLI 3370 WORLD RELIGIONS AND POLITICS .....	3
POLI 2210 PRINCIPLES OF INTERNATIONAL RELATIONS.....	3

- International Studies Electives ..... (9 hrs.)

Select from at least two disciplines.

ENGL 3381	THE BRITISH NOVEL.....	3
ENGL 3382	THE WORLD NOVEL .....	3
FREN 3314	FRENCH CIVILIZATION AND CULTURE.....	3
HIST 3310	DIPLOMATIC & MILITARY HISTORY OF THE U.S.....	3
HIST 3351	HISTORY OF ENGLAND .....	3
HIST 3352	HISTORY OF RUSSIA.....	3
HIST 4405	HISTORY OF AFRICA .....	3
HIST 4410	HISTORY OF ASIA .....	3
HIST 4420	HISTORY OF LATIN AMERICA .....	3
HIST 4431	RECENT EUROPE.....	3
HIST 4455	REVOLUTIONS IN HISTORY .....	3
PHIL 3325	ETHICS .....	3
POLI 2220	COMPARATIVE GOVERNMENT.....	3
POLI 3321	U.S. FOREIGN POLICY.....	3
POLI 3350	INTERNATIONAL LAW .....	3
POLI 4405	TERRORISM.....	3
- OR -		
CRIM 4405	TERRORISM.....	3
POLI 4411	AREA STUDIES .....	3
POLI 4412	AREA STUDIES .....	3
POLI 4413	AREA STUDIES .....	3
POLI 4415	INTERNATIONAL PROBLEMS.....	3
SOCY 3301	ETHNOLOGY .....	3
SPAN 3310	SPANISH CIVILIZATION & CULTURE .....	3
SPAN 3320	LATIN AMERICAN CIVILIZATION & CULTURE.....	3

## SOCIAL STUDIES EDUCATION

The Social Studies 5-Adult Comprehensive Specialization is intended for those students preparing to teach in elementary, middle, or secondary schools. This degree program leads to a B.A. in Education with teacher certification in West Virginia. It provides the interdisciplinary foundation necessary for teaching an integrated social science curriculum. Students desiring to teach a particular subject, such as history, should augment the required courses with appropriate elective hours. Course marked with an asterisk are offered only in the fall semester.

Admission to the program is gained by completing the following requirements: EDUC 2200 with at least a "B" grade; an overall GPA of 2.75 and a Social Studies Curriculum GPA of 2.75; passing scores on all three sections of the CORE Academic Skills for Educators Test; passing a criminal background check; submitting a Declaration of Intent to the Dean of Education; acceptable scores on the ACT or SAT;

completion of all Early Field Experiences(contact the School of Education, Health and Human Performance for more details). Successful completion of PRAXIS (PPST) tests in Social Studies and Principles of Learning and Teaching is necessary in order to graduate and obtain West Virginia certification. Students need passing scores on these tests BEFORE beginning their student teaching placements.

### BACHELOR OF ARTS IN EDUCATION, TEACHING SPECIALIZATION IN SOCIAL STUDIES

GRADES 5-ADULT .....	129 SEM. HRS.
Social Studies Curriculum (see below).....	60 SEM. HRS.
General Studies Requirements .....	30 SEM. HRS.
Professional Education Courses .....	39 SEM. HRS.

• Social Studies Curriculum .....

#### Required Courses (54 hrs.)

BSBA 2200	ECONOMICS .....	3
GEOG 2210	INTRODUCTION TO GEOGRAPHY.....	3
GEOG	ELECTIVE.....	3
HIST 1107	UNITED STATES HISTORY I.....	3
HIST 1108	UNITED STATES HISTORY II.....	3
HIST 2211	WORLD CIVILIZATIONS I.....	3
HIST 2212	WORLD CIVILIZATIONS II.....	3
HIST 2213	WORLD CIVILIZATIONS III .....	3
HIST 3302	WEST VIRGINIA .....	3
HIST 3319**	RECENT AMERICA.....	3
HIST 4431**	RECENT EUROPE.....	3
POLI 1103	AMERICAN GOVERNMENT .....	3
POLI 2200	INTRODUCTION TO POLITICAL SCIENCE .....	3
PSYC 1101	INTRODUCTION TO PSYCHOLOGY .....	3
SOCY 1110	INTRODUCTORY SOCIOLOGY .....	3
SOCY 3301	CULTURAL ANTHROPOLOGY .....	3
SSCI 4431*	METHODS & MATERIALS OF TEACH. SOC. STUDIES.....	3
SSCI 4498*	INTERDISCIPLINARY SEMINAR.....	3

\*Offered only in the Fall Semester

\*\*Offered only in the Spring Semester

#### Electives (6 hrs.)

(Select one of the following options.)

OPTION 1: Social and Behavioral Science Advanced Studies These advanced studies in the Social and Behavioral Sciences allow prospective teachers to explore and understand the state guidelines for teacher education and the corresponding competencies in greater depth. Select 6 hours from any of the following disciplines: Economics, Geography, History, Philosophy, Political Science, Psychology, and Sociology.

OPTION 2: A second teaching field outside the Social Studies, grades 5-Adult. See School of Education, Health and Human Performance for more information (requires additional hours).

• General Studies Requirements .....30 SEM. HRS

Note: the following course choices are strongly suggested by the Department of Social Sciences in order to best fulfill the General Studies Outcomes and the goals of the BA in Education, Social Studies Concentration, and Grades 5 to Adult.

(When choices are available, see the full General Studies Curriculum in Appendix A.)

Outcome 1 - Critical Analysis:

ENGL 2220\* ..... 3

Outcome 2 - Quantitative Literacy:

MATH 1507 or 1407 or higher in Outcome 2(Requirement by Major) ..... 3

Outcome 3 - Written Communication:

ENGL 1101 (Institutional Requirement)..... 3

Outcome 4 - Teamwork:

SOCY 3301 (Satisfied in Major)..... X

Outcome 5 - Information Literacy:

ENGL 1102 (Institutional Requirement)..... 3

Outcome 6 - Technology Literacy:

EDUC 2201 (Satisfied in Major)..... X

Outcome 7 - Oral Communication:

COMM 2200\*..... 3

Outcome 8 - Citizenship:

HIST 1107 (Satisfied in Major) ..... X

Outcome 9 - Ethics:

SOCY 1110 (Satisfied in Major)..... X

Outcome 10 - Health and Well-being:

PHED 1100 or HLTA 1100\* ..... 2

Outcome 11- Interdisciplinary and Lifelong Learning:

POLI 1100 (Satisfied in Major) ..... X

Outcome 12 - Fine Arts:

ART 1120 or MUSI 1120 or THEA 1120\* ..... 3

Outcome 13 - Humanities:

ENGL 2230 or ENGL 2231\* ..... 3

Outcome 14 - Social Sciences:

GEOG 2210 (Satisfied in Major)..... X

Outcome 15 - Natural Sciences:

SCIE 1100, 1103, 1105, 1107, 1110, 1115, 1120, 1210, 1220\* ..... 4

Outcome 16 - Cultural Awareness and Human Dignity:

ENGL 2221\* ..... 3

\* Any course(s) marked with an asterisk (\*) above are recommended to complement the program curriculum; however, students may select any other courses from the approved General Studies list.

• Professional Education ..... 39 SEM. HRS.  
The first two courses in this sequence are taken BEFORE admission to Teacher Education.

EDUC 2200 INTRO TO EDUCATION ..... 3  
EDUC 2201 INSTRUCTIONAL TECHNOLOGY ..... 3

The following courses are taken after gaining admission into the School of Education, Health and Human Performance:

EDUC 2203 HUMAN DEVELOPMENT, LEARNING & TEACHING ..... 3  
EDUC 2240 HIGH INCIDENCE DISABILITIES FOR EDUCATORS..... 3  
EDUC 2260 INSTRUCTIONAL DESIGN I ..... 3  
EDUC 2265 FIELD EXPERIENCE 2 ..... 1  
EDUC 3331 READING IN THE CONTENT AREAS..... 3  
EDUC 3340 INSTRUCTIONAL DESIGN II..... 3  
EDUC 3351 INCLUSIVE CLASSROOM PRACTICES ..... 3  
EDUC 3365 FIELD EXPERIENCE 3 ..... 2  
EDUC 4485 ACTION RESEARCH..... 1  
EDUC 4486 PORTFOLIO ..... 1  
EDUC 4496 SECONDARY STUDENT TEACHING ..... 10

NOTE: The student will need at least 4 semesters to complete the Education classes listed above.

NOTE:

1. EDUC 2203 and 2240 are pre-requisites for EDUC 2260 and 2265
2. EDUC 2260 and 2265 are pre-requisites for EDUC 3340, 3551 and 3365
3. All Education classes must be completed along with passing scores on the Praxis II and PLT before student teaching.

## PRE-LAW STUDIES

Students planning to apply to most law schools may complete a four-year undergraduate degree in any major at Fairmont State. According to the web site for the West Virginia University School of Law, "Whatever major an applicant decides to pursue should be augmented by a well-rounded variety of course selections that might include philosophy, writing, logic, history, literature, and fundamentals of accounting. The University urges applicants to engage in a curriculum that demands intellectual self-discipline and develops reading, writing, verbal, and analytical skills." Students should carefully consult the pre-law advisor at Fairmont State and the catalog

of the law school they plan to attend for more information. Pre-Law Advisor: Charles Shields, 108 Hardway Building, 367-4114, [cshields@fairmontstate.edu](mailto:cshields@fairmontstate.edu)

# Department of Behavioral Science

**Dr. Christopher Kast, Chair**  
**110n Hardway Hall / (304) 367-4669**  
**FAX: (304) 367-4785**  
**ckast@fairmontstate.edu**

## FACULTY

GURASH, DAN (2008)  
 Associate Professor of Sociology

KAST, CHRISTOPHER (2013)  
 Assistant Professor of Sociology

KATO, TADASHI (2003)  
 Professor of Psychology

MOORE, ZACHARIAH (2017)  
 Assistant Professor of Psychology

RANSOM, MICHAEL (2011)  
 Associate Professor of Psychology

SHAVER, A. JOSEPH (1988)  
 Professor of Psychology

SHAVER, ANN V. (1997)  
 Professor of Psychology

WHITE, CRAIG C. (1967)  
 Professor/Senior Level: Sociology  
 Faculty

## PSYCHOLOGY

Psychology is the science that deals with the study of behavior. The Psychology Program at Fairmont State has been developed to provide a strong foundation of applied and theoretical knowledge for those students anticipating either future graduate training or immediate employment. All Psychology majors are required to complete a minimum of 55 hours, which allows the student to develop a broad knowledge base within the discipline. The psychology curricula are ideal for students anticipating graduate work in various areas of

psychology, social work and counseling. Students who are preparing for the areas of medicine and law also utilize the psychology major.

Psychology majors are encouraged to select a number of elective specialized psychology courses that could serve to expand their breadth of knowledge in particular areas of psychological interest. Students with a B.S. degree in psychology are eligible for a variety of entry-level positions in the areas of education, business, management, advertising, government, health-care, criminal justice and sales.

The optional Specialization in Behavioral Analytics offers students who major in psychology the opportunity to expand their skills in manipulating and analyzing data on a larger scale to become competitive in a job market that is increasingly focused on the use of "Big Data". This specialization is an add-on to the psychology degree, and is to be completed in addition to all psychology major requirements in place of free electives. It is recommended that students who are interested in this specialization possess at least an ACT math score of 21 or above, or its equivalent, in order to be able to register for the required courses.

## BACHELOR OF SCIENCE IN PSYCHOLOGY 120 SEM. HRS.

Psychology Curriculum (See below) .....	49 SEM. HRS.
General Studies Requirements (See below) .....	42 SEM. HRS.
Free Electives .....	29 SEM. HRS.

• Psychology Curriculum 49 ..... SEM. HRS.

### Required courses (40 hrs.)

PSYC 1101 INTRODUCTION TO PSYCHOLOGY .....	3
PSYC 2220 HISTORY & SYSTEMS OF PSYCHOLOGY .....	3
PSYC/SOCY 2230 SOCIAL PSYCHOLOGY.....	3
PSYC 2240 BEHAVIORAL STATISTICS .....	3
OR	
SOCY 2240 BEHAVIORAL STATISTICS.....	3
PSYC 3300 ABNORMAL PSYCHOLOGY .....	3
PSYC 3305 RESEARCH METHODS in the BEHAVIORAL SCIENCES...	4
PSYC 3330 DEVELOPMENTAL PSYCHOLOGY .....	3
PSYC 3350 BIOPSYCHOLOGY .....	3
PSYC 3360 COGNITIVE PSYCHOLOGY .....	3
OR	
PSYC 3370 THEORIES OF LEARNING .....	3
PSYC 3390 RESEARCH CAPSTONE.....	3
PSYC 4400 PSYCHOMETRICS .....	3

PSYC 4410 THEORIES OF PERSONALITY .....	3
PSYC 4470 INTERVENTION TECHNIQUES AND APPLICATIONS.....	3

Required Electives (9 hrs)

PSYC 3360 Cognitive Psychology may be taken as one of the required electives or in the place of PSYC 3370 as a required course. PSYC 3360 may not be used as both an elective course and a required course.

PSYC 2250* COMMUNITY PSYCHOLOGY .....	3
PSYC 2260* INDUSTRIAL PERSONNEL .....	3
PSYC 3310 EXPERIMENTAL PSYCHOLOGY .....	3
PSYC 3320* SENSATION AND PERCEPTION.....	3
PSYC 3360 COGNITIVE PSYCHOLOGY.....	3
PYSC 3395 PYSCHOLOGY OF SUBSTANCE ABUSE .....	3
PSYC 3399* SPECIAL TOPICS .....	3
PSYC 4460 SEMINAR.....	3-

6

PSYC 4480* DIRECTED STUDIES.....	1-3
PSYC 4485* ADVANCED PSYCHOMETRICS.....	3
PSYC 4487* PRACTICUM I.....	3
PSYC 4489* PRACTICUM II.....	3
PSYC 4490* DIRECTED RESEARCH .....	1-3
PSYC 4491* PSYCHOPATHOLOGY OF CHILD. & ADOLESCENCE.....	3
PSYC 4493* THE PSYCHOLOGY OF AGING .....	3
PSYC 4494* INTERPERSONAL DYNAMICS .....	3

\*Course may be taken to partially fulfill psychology elective requirement.

• General Studies Requirements .....39 SEM. HRS.  
(When choices are available, see the full General Studies Curriculum in Appendix A.)

Outcome 1 - Critical Analysis

ANY COURSE LISTED IN Outcome 1 3

Outcome 2- Quantitative Literacy

MATH 1507 or 1407 or higher in Outcome 2(PR for PSYC 2240)..... 3

Outcome 3 - Written Communication

ENGL 1101 (Institutional Requirement)..... 3

Outcome 4 - Teamwork

COMM 2200\* (May be Satisfied in Outcome 7)..... X

Outcome 5 - Information Literacy

ENGL 1102 (Institutional Requirement)..... 3

Outcome 6 - Technology Literacy

ANY COURSE LISTED IN Outcome 6 ..... 3

Outcome 7 - Oral Communication

COMM 2200 OR 2201 OR 2202\* ..... 3

Outcome 8 - Citizenship

HIST 1107 OR 1108 OR POLI 1100\* ..... 3

Outcome 9 - Ethics

ANY COURSE LISTED IN Outcome 9 ..... 3

Outcome 10 - Health

ANY COURSE LISTED IN Outcome 10.....	2
Outcome 11- Interdisciplinary	
ANY COURSE LISTED IN Outcome 11.....	3
Outcome 12 - Arts	
ANY COURSE LISTED IN Outcome 12.....	3
Outcome 13 - Humanities	
ANY COURSE LISTED IN Outcome 13.....	3
Outcome 14 - Social Sciences	
PSYC 1101 (Satisfied in Major).....	3
Outcome 15 - Natural Science	
ANY COURSE LISTED IN Outcome 15.....	4
Outcome 16 - Cultural Awareness	
ANY COURSE IN Outcome 16 .....	3
Additional General Studies Hours	
PSYC 3390 (WIC - Satisfied in Major)	

\* Any course(s) marked with an asterisk (\*) above are recommended to complement the program curriculum; however, students may select any other courses from the approved General Studies list.

SPECIALIZATION IN BEHAVIORAL ANALYTICS .....	21 SEM. HRS.
MATH 1561 INTRODUCTION TO MATHEMATICAL REASONING .....	3
MATH 2562 INTRODUCTION TO DISCRETE MATHEMATICS .....	3
COMP 1120 PRINCIPLES OF PROGRAMMING I.....	3
COMP 1130 PRINCIPLES OF PROGRAMMING II.....	3
COMP 2270 DATA STRUCTURES.....	3
COMP 4410 DATABASE MANAGEMENT .....	3
COMP 4450 INTRODUCTION TO DATA MINING.....	3

MINOR IN PSYCHOLOGY ..... 18 SEM. HRS.

The psychology minor offers students the opportunity to enhance their major academic area with an emphasis on behavioral understanding and insight. To ensure the selection of relevant courses, students interested in obtaining a psychology minor should discuss their plans with a psychology faculty member. Students must meet any prerequisite requirements before taking courses.

Required courses (3 hrs.)

PSYC 1101 INTRODUCTION TO PSYCHOLOGY .....	3
--------------------------------------------	---

Electives (15 hrs.)

ANY TWO COURSES FROM THE 2200 LEVEL .....	6
ANY THREE COURSES FROM THE 3300 OR 4400 LEVEL .....	9

## SOCIOLOGY

Sociology is the systematic study of society and human activity. The Bachelor of Science degree in

Sociology is designed to enhance the student's ability to understand various forms of social and cultural interaction. With an emphasis on both sociological and anthropological theory and research, the sociology degree is useful preparation for advanced graduate study as well as entry-level employment. The Program will expand a student's ability to question and understand various forms of social interaction in social and cultural systems. The courses offered here will provide knowledge of the substantive areas of sociology and anthropology, the use of concepts and research techniques of sociological investigation, and background in sociological theory.

Students with a B.S. degree in Sociology frequently find employment in entry-level positions within public administration, advertising, business, social service agencies, health services, community planning and teaching. Many sociology majors also pursue graduate study in such areas as sociology, social work, public administration, anthropology and law.

The optional Specialization in Behavioral Analytics offers students who major in sociology the opportunity to expand their skills in manipulating and analyzing data on a larger scale to become competitive in a job market that is increasingly focused on the use of "Big Data". This specialization is an add-on to the sociology degree, and is to be completed in addition to all sociology major requirements in place of free electives. It is recommended that students who are interested in this specialization possess at least an ACT math score of 21 or above, or its equivalent, in order to be able to register for the required courses.

BACHELOR OF SCIENCE IN SOCIOLOGY ..... 120 SEM. HRS.  
 Sociology Curriculum (see below).....43 SEM. HRS.  
 General Studies Requirements (see below).....33 SEM. HRS.  
 MINOR (required).....18 SEM. HRS.  
 Free Electives 26 SEM. HRS.

• Sociology Curriculum .....43 SEM. HRS.

Required courses (27 hrs.)

SOCY 1110 INTRODUCTORY SOCIOLOGY..... 3  
 SOCY 2200 SOCIAL PROBLEMS..... 3  
 SOCY 2205 PRINCIPLES OF RACE, CLASS, AND GENDER..... 3  
 SOCY/PSYC 2240 BEHAVIORAL STATISTICS ..... 3  
 SOCY 3301\* CULTURAL ANTHROPOLOGY..... 3

SOCY 3360 RESEARCH METHODS in the BEHAVIORAL SCIENCES... 4  
 SOCY 3370\* CONCEPTS OF SURVEY DESIGN ..... 3  
 SOCY 3395\*\*SOCIOLOGICAL THEORY ..... 3  
 SOCY 4480 SENIOR CAPSTONE ..... 3

\*Offered in the Spring semester only

\*\*Offered in the Fall semester only

Sociology Electives (15 hrs.)

To satisfy the elective requirements at least one class must be completed from each of the following clusters. The remaining 6 credit hours may be fulfilled by any sociology class not met in the core requirements, at the 2200 level or above; this includes SOCY 1199: Special Topics.

ELECTIVE CLUSTERS:

ORGANIZATIONS AND INSTITUTIONS

SOCY 3310 SOCIOLOGY OF THE FAMILY ..... 3  
 SOCY 3350 Sociology of Religion ..... 3  
 SOCY 4410 SOCIOLOGY OF WORK ..... 3

STRATIFICATION AND DIVERSITY

SOCY/PSYC 2230 SOCIAL PSYCHOLOGY ..... 3  
 SOCY 3325 STRATIFICATION AND CLASS ..... 3  
 SOCY 4450 RACE AND ETHNICITY ..... 3

SOCIAL PROBLEMS AND COLLECTIVE BEHAVIOR

SOCY 2220 POPULATION STUDIES ..... 3  
 SOCY 3340 JUVENILE DELINQUENCY ..... 3  
 SOCY 3390 SOCIAL CHANGE ..... 3

• General Studies Requirements ..... 33 SEM. HRS.

(When choices are available, see the full General Studies Curriculum in Appendix A.)

Outcome 1 - Critical Analysis

PHIL 2275\* ..... 3

Outcome 2- Quantitative Literacy

MATH 1507 or 1407 or higher in Outcome 2(PR for SOCY 2240)..... 3

Outcome 3 - Written Communication

ENGL 1101 (Institutional Requirement) ..... 3

Outcome 4 - Teamwork

COMM 2201\* ..... 3

Outcome 5 - Information Literacy

ENGL 1102 (Institutional Requirement) ..... 3

Outcome 6 - Technology Literacy

BISM 1200\* ..... 3

Outcome 7 - Oral Communication

COMM 2201\* (Satisfied in Outcome 4) ..... X

Outcome 8 - Citizenship

HIST 1107 OR 1108 OR POLI 1100\* ..... 3

Outcome 9 - Ethics	
SOCY 2200 (Satisfied in Major).....	X
Outcome 10 - Health	
PHED 1100* .....	2
Outcome 11- Interdisciplinary	
SOCY 2200 (Satisfied in Major).....	X
Outcome 12 - Arts	
ANY COURSE LISTED IN Outcome 12 .....	3
Outcome 13 - Humanities	
ANY COURSE LISTED IN Outcome 13 .....	3
Outcome 14 - Social Sciences	
SOCY 1110 (Satisfied in Major).....	X
Outcome 15 - Natural Science	
ANY COURSE LISTED IN Outcome 15 .....	4
Outcome 16 - Cultural Awareness	
SOCY 3301 (Satisfied in Major).....	X
Additional General Studies Hours	
SOCY 3395 (WIC - Satisfied in Major)	

\* Any course(s) marked with an asterisk (\*) above are recommended to complement the program curriculum; however, students may select any other courses from the approved General Studies list.

SPECIALIZATION IN BEHAVIORAL ANALYTICS.....	21 SEM. HRS.
MATH 1561 INTRODUCTION TO MATHEMATICAL REASONING .....	3
MATH 2562 INTRODUCTION TO DISCRETE MATHEMATICS .....	3
COMP 1120 PRINCIPLES OF PROGRAMMING I .....	3
COMP 1130 PRINCIPLES OF PROGRAMMING II.....	3
COMP 2270 DATA STRUCTURES .....	3
COMP 4410 DATABASE MANAGEMENT.....	3
COMP 4450 INTRODUCTION TO DATA MINING .....	3

MINOR IN SOCIOLOGY ..... 18 SEM. HRS.

Required courses (9 hrs.)

SOCY 1110 INTRODUCTORY SOCIOLOGY.....	3
SOCY 2200 SOCIAL PROBLEMS.....	3
SOCY 3301 CULTURAL ANTHROPOLOGY.....	3

Electives (9 sem. hrs.)

Any three additional courses including PSYC 2230 or SOCY courses from any level.

# Programs of Study

## College of Science and Technology

**Dr. Steven K. Roof, Interim Dean**  
328A Hunt Haught Hall  
(304) 367-4869  
Steven.Roof@fairmontstate.edu

## Department of Natural Sciences

**Dr. Debra Hemler, Interim Chair**  
315 Hunt Haught Hall  
(304) 367-4393  
Deb.Hemler@fairmontstate.edu

### FACULTY

BAUR, ANDREAS (2000)  
Professor of Chemistry

BAXTER, HARRY N., III (1985)  
Professor of Chemistry

BLEHER, SIEGFRIED (2014)  
Assistant Professor of Physics

COOK, RACHEL (2015)  
Assistant Professor of Biology

ENSIGN, TODD (2005)  
Science Outreach Specialist  
Program Manager, NASA Education Resource  
Center

FLOOD, MARK R. (1994)  
Professor of Biology

HANSEN, GALEN J. (1994)  
Professor of Physics

HARVEY, ERICA L. (1994)  
Professor of Chemistry

HEMLER, DEBRA A. (2000)  
Director, NASA Education Resources Center  
Professor of Geoscience  
Graduate Faculty

HENSON, KRISTY (2018)  
Assistant Professor of Forensic Science

HUGGINS, PAMELA A. (2002)  
Associate Professor of Biology

MORRIS, TONY E. (1994)  
Professor of Biology

RAOL, MARCIE (2013)  
Visiting Assistant Professor of Geoscience  
Education

REVELS, JOSHUA (2018)  
Science Outreach Specialist  
NASA Education Resource Center

RICE, STEPHEN (2018)  
Assistant Professor of Biology

SCANLON, MATTHEW (1991)  
Professor of Chemistry

WEEKLEY, JAMES (2005)  
Instructor of Chemistry

YEAGER, PHILLIP E. (1999)  
Professor of Biology

## PRE-DENTAL CURRICULUM

Students planning to study dentistry should complete basic science courses as well as a broad range of general education courses with better than a "B" average.

The School of Dentistry at West Virginia University requires applicants to have completed three or more academic years of work (90 semester hours) in the liberal arts, including the following specific course requirements:

BIOL 1105, 1106 BIOLOGICAL PRINCIPLES I, II.....	8
BIOL 3301 ADV. HUMAN A&P I.....	4
BIOL 3360 BIOCHEMISTRY .....	4
CHEM 1105, 2200 CHEMICAL PRINCIPLES, FOUNDATIONAL BIOCHEMISTRY.....	9
CHEM 2201, 2202 ORGANIC CHEMISTRY I, II.....	8
ENGL 1101, 1102 WRITTEN ENGLISH I, II.....	6
PHYS 1101, 1102 INTRODUCTION TO PHYSICS I, II.....	8

Courses in the humanities, social sciences, and advanced courses in biology are also suggested in order to acquire a broadened intellectual background.

## PRE-MEDICAL CURRICULUM

Students planning to study medicine or veterinary medicine should complete basic science courses as well as a broad range of general education courses with better than a "B" average. Students should carefully consult the catalog of the professional school that they plan to attend. At West Virginia University, the School of Medicine requires a minimum of 90 semester hours of undergraduate work (excluding physical education and ROTC courses) for admission. Pre-medical students should work towards fulfilling the requirements for the bachelor's degree in biology, chemistry, or forensic science. Students selecting other majors will still need to complete the minimum course requirements shown below.

The following courses will meet the minimum requirements for admission to most WV schools of medicine:

BIOL 1105, 1106 BIOLOGICAL PRINCIPLES I, II.....	8
CHEM 1105, 2200 CHEMICAL PRINCIPLES, FOUNDATIONAL BIOCHEMISTRY.....	9
CHEM2201, ORGANIC CHEMISTRY I.....	4

CHEM 2202 ORGANIC CHEMISTRY II OR BIOL 3360 BIOCHEMISTRY.....	4
ENGL 1101, 1102 WRITTEN ENGLISH I, II.....	6
PHYS 1101, 1102 INTRODUCTION TO PHYSICS I, II.....	8

Six hours of coursework in social or behavioral science is also required, but no particular courses are specified. Additional courses in the humanities, social sciences, and advanced courses in biology are suggested (such as: biochemistry, molecular biology, cell biology, and anatomy & physiology) in order to acquire a broadened intellectual background.

## PRE-MEDICAL TECHNOLOGY CURRICULUM

Medical Technology is a four-year undergraduate program. The first two years may be taken at Fairmont State. The entrance requirements of schools of medical technology throughout the nation vary considerably; students should carefully consult the catalog of the school that they plan to attend. Students who have completed 60 semester hours, including the following courses, may be eligible for admission to the third year of the medical technology program at West Virginia University.

ENGL 1101, 1102 WRITTEN ENGLISH I, II.....	6
BIOL 1105, 1106 BIOLOGICAL PRINCIPLES I, II.....	8
CHEM 1105, 2200 CHEMICAL PRINCIPLES, FOUNDATIONAL BIOCHEMISTRY .....	9
CHEM 2201, 2202 ORGANIC CHEMISTRY I, II.....	8
MATH1530 or 1430 COLLEGE ALGEBRA.....	3 or 4
MATH1550 APPLIED STATISTICS.....	4

The other classes should total 21 to 24 hours of core classes. Courses such as microbiology, biochemistry and anatomy should not be taken prior to enrollment in the medical technology program.

## PRE-PHARMACY CURRICULUM

Many schools of pharmacy offer a doctorate of pharmacy that requires six years of study beyond high school, two years of pre-pharmacy and four years of study in a professional school of pharmacy. Prospective pharmacy students should plan their programs to meet the requirements of the particular professional school of pharmacy to which they plan to

transfer. The following two-year preparatory program is suggested for students applying to the WVU School of Pharmacy and Marshall University School of Pharmacy. Elective slots in the model schedule should be filled with courses that satisfy required general education credits at the pharmacy school. Students without the necessary prerequisites for calculus will be required to take MATH 1540 or 1530 and 1540. The pre-pharmacy advisor should be consulted prior to scheduling each semester.

BIOL 1105, 1106 BIOLOGICAL PRINCIPLES I, II.....	8
BIOL 2205, 2206 TECHNICAL MICROBIOLOGY (LECTURE & LAB)	
.....	4
-OR-	
BIOL 2224 Microbiology.....	4
BIOL 3301 Adv. Human Anatomy & Physiology I.....	4
BSBA 2200 ECONOMICS.....	3
-OR-	
BSBA 2211, 2212 ECONOMIC PRINCIPLES AND PROBLEMS I, II.....	6
CHEM 1105, 2200 CHEMICAL PRINCIPLES, FOUNDATIONAL	
BIOCHEMISTRY.....	9
CHEM 2201, 2202 ORGANIC CHEMISTRY I, II.....	8
COMM 2200 INTRODUCTION TO HUMAN COMMUNICATION.....	3
ENGL 1101, 1102 WRITTEN ENGLISH I, II.....	6
MATH1550 APPLIED STATISTICS.....	4
-OR-	
BSBA 3310 BUSINESS AND ECONOMICS STATISTICS.....	3
MATH2501 CALCULUS I.....	4

## PRE-PHYSICAL THERAPY CURRICULUM

This curriculum is designed to satisfy the course requirements for admission to the professional portion of the curriculum in physical therapy offered by the West Virginia University (WVU) School of Medicine. Fairmont State students must select a major and complete a bachelor's degree prior to application for WVU's Doctorate of Physical Therapy (DPT) program. All applicants to the DPT program are required to have a bachelor's degree before admission. Information on prerequisite equivalent coursework is provided below. Degrees in biology, chemistry and forensic science meet many of these prerequisites. Applicants with degrees in any area (i.e. exercise science, philosophy, psychology, etc.) are encouraged to apply, as long as the equivalent

prerequisite coursework has been completed. A course in medical terminology is recommended, but not required.

Students interested in admission to a physical therapy program at an institution other than WVU should consult with the pre-physical therapy advisor for assistance in getting the information about the course requirements at the other institution.

- DPT prerequisite course requirements:

BIOL 1105, 1106 BIOLOGICAL PRINCIPLES I, II.....	8
BIOL 3301 Adv. Human Anatomy & Physiology I.....	
4	
BIOL 3302 Adv. Human Anatomy & Physiology	
II.....	4
CHEM 1105, 2200 CHEMICAL PRINCIPLES, FOUNDATIONAL	
BIOCHEMISTRY.....	9
MATH1550 APPLIED STATISTICS.....	4
-OR-	
BSBA 3310 BUSINESS AND ECONOMICS STATISTICS.....	3
PHYS 1101, 1102 INTRODUCTION TO PHYSICS I, II.....	8
PSYC 1101 INTRODUCTION TO PSYCHOLOGY I.....	3
PSYC 3330 DEVELOPMENTAL PSYCHOLOGY.....	3

## BIOLOGY

Biology, the study of life, is a wide-ranging and rapidly growing discipline. Understanding biology requires a working knowledge of all the sciences, especially chemistry and mathematics. The biology program at Fairmont State strives to provide students with a broad-based education in all fields of biology as well as a fundamental knowledge of chemistry and mathematics. Students are required to complete basic courses in biology designed to provide a comprehensive understanding of living organisms. Electives allow students the flexibility to gain additional knowledge in an area of interest. No minor is required for biology majors.

A four-year B.S. degree in biology will prepare students to compete for entry level jobs such as lab technician, wildlife biologist, research scientist or naturalist, among others. While a bachelor's degree in biology will help students get a job, many careers require additional education beyond the B.S. degree. Many of our best students compete successfully for admission to graduate study at institutions across the

country. A biology degree will also provide pre-professional training required by fields such as dentistry, medicine, pharmacy, and veterinary medicine.

Students who major in biology select one of the following degree programs:

- 1) the B.S. in Biology degree as preparation for employment, professional school or graduate study
- 2) the B.S. in Biology degree with an emphasis in biotechnology as preparation for employment, professional school, or graduate study
- 3) the B.A. in Education degree with a specialization in biology, as preparation for teaching biology in grades 9-Adult. All courses must be completed prior to admission to Secondary Student Teaching/Clinical III.

In addition to meeting the graduation requirements listed for the B.S. in Biology or B.A. in Education degree, students must also:

- 1) obtain a grade of "C" or better in BIOL 1105, 1106, 2202, and 2203
- 2) successfully complete an assessment exam during their final year (This exam is given every spring semester.)

BACHELOR OF SCIENCE IN BIOLOGY.....	120 SEM. HRS.
Biology Curriculum (see below).....	63 SEM. HRS.
No Minor Required	
General Studies Requirements .....	30 SEM. HRS.
(See "Degree Requirements" for General Studies requirements not completed through the major)	
Free Electives	27 SEM. HRS.

Required courses (51 hrs)	
BIOL 1105 BIOLOGICAL PRINCIPLES I.....	4
BIOL 1106 BIOLOGICAL PRINCIPLES II.....	4
BIOL 2202 GENERAL BOTANY .....	4
BIOL 2203 GENERAL ZOOLOGY.....	4
BIOL 3306 FUNDAMENTALS OF ECOLOGY .....	4
BIOL 3368 ANIMAL PHYSIOLOGY .....	4
-OR-	
BIOL 3370 PLANT PHYSIOLOGY .....	4
BIOL 3380 GENETICS.....	4
BIOL 3390 MOLECULAR BIOTECHNOLOGY .....	4
BIOL 4485 SENIOR SEMINAR.....	2
CHEM 1105 CHEMICAL PRINCIPLES .....	5
CHEM 2200 FOUNDATIONAL BIOCHEMISTRY.....	4

CHEM 2201 ORGANIC CHEMISTRY I .....	4
CHEM 2202 ORGANIC CHEMISTRY II.....	4

• Biology Electives ..... 12 SEM. HRS.

BIOL 2224 MICROBIOLOGY.....	4
BIOL 3301 Advanced Human Anatomy and Physiology I... ..	4
BIOL 3302 Advanced Human Anatomy and Physiology II.....	4
BIOL 3312 ADVANCED BOTANY.....	4
BIOL 3315 INVERTEBRATE ZOOLOGY .....	4
BIOL 3316 VERTEBRATE ZOOLOGY .....	4
BIOL 3330 AQUATIC ECOLOGY .....	4
BIOL 3331 TERRESTRIAL ECOLOGY .....	4
BIOL 3360 BIOCHEMISTRY .....	4
BIOL 3395 CELL BIOLOGY.....	4
BIOL 4420 DEVELOPMENTAL BIOLOGY .....	4

• General Studies Requirements .....35 SEM. HRS

Outcome 1 - Critical Analysis	
ENGL 2220* .....	3
Outcome 2 - Quantitative Literacy	
MATH 2501 (PR for BIOL 3390).....	4
Outcome 3 - Written Communication	
ENGL 1101 (Institutional Requirement) .....	3
Outcome 4 - Teamwork	
COMM 2200* .....	3
Outcome 5 - Information Literacy	
ENGL 1102 (Institutional Requirement) .....	3
Outcome 6 - Technology Literacy	
TECH 1100* .....	3
Outcome 7 - Oral Communication	
COMM 2200* .....	3
Outcome 8 - Citizenship	
POLI 1100* .....	3
Outcome 9 - Ethics	
ENGL 2220* .....	3
Outcome 10- Health	
PHED 1100* .....	2
Outcome 11- Interdisciplinary	
POLI 1100* .....	X
Outcome 12 - Arts	
INTR 1120* .....	3
Outcome 13 - Humanities	
INTR 1120* .....	X
Outcome 14 - Social Sciences	
GEOG 2210* .....	3
Outcome 15 - Natural Science	

CHEM 1105 (PR for CHEM 2200) ..... X

Outcome 16 - Cultural Awareness

GEOG 2210\* ..... X

\* Any course(s) marked with an asterisk (\*) above are recommended to complement the program curriculum; however, students may select any other courses from the approved General Studies list.

MINOR IN BIOLOGY ..... 24 SEM. HRS.

Required courses (16 hrs.)

BIOL 1105 BIOLOGICAL PRINCIPLES I ..... 4

BIOL 1106 BIOLOGICAL PRINCIPLES II ..... 4

BIOL 2202 GENERAL BOTANY ..... 4

BIOL 2203 GENERAL ZOOLOGY ..... 4

Electives (8 hrs.)

Students may choose from any biology course of level 1199 or higher.

BACHELOR OF ARTS IN EDUCATION:

SPECIALIZATION IN BIOLOGY

GRADES 9-ADULT ..... 120 SEM. HRS.

Biology Curriculum (see below) ..... 49 SEM. HRS.

General Studies requirements ..... 31 SEM. HRS.

Professional Education Courses ..... 39 SEM. HRS.

Free Electives ..... 1 SEM. HR.

No Minor Required

(See "Degree Requirements" for General Studies requirements not completed through the major)

• Biology Curriculum ..... 49 SEM. HRS.

Required courses (52 hrs.)

BIOL 1105 BIOLOGICAL PRINCIPLES I ..... 4

BIOL 1106 BIOLOGICAL PRINCIPLES II ..... 4

BIOL 2202 GENERAL BOTANY ..... 4

BIOL 2203 GENERAL ZOOLOGY ..... 4

BIOL 3306 FUNDAMENTALS OF ECOLOGY ..... 4

BIOL 3380 GENETICS ..... 4

CHEM 1105 CHEMICAL PRINCIPLES ..... 5

CHEM 2200 FOUNDATIONAL BIOCHEMISTRY ..... 4

GEOL 1102 HISTORICAL GEOLOGY ..... 4

MATH1540 TRIGONOMETRY ..... 3

-OR-

MATH1520 APPLIED TECHNICAL MATHEMATICS II ..... 3

PHYS 1101 INTRODUCTION TO PHYSICS I ..... 4

PHSC 4430 SCIENCE INTEGRATION SEMINAR ..... 1

PHSC 4431 METHODS AND MATERIALS IN TEACHING SCIENCE ..... 3

3

SCIE 1120 METEOROLOGY ..... 4

All courses in the specialization and the Praxis II Exam must be completed prior to admission to Secondary Student Teaching.

• Professional Education ..... 39 SEM. HRS.

EDUC 2200 INTRO TO EDUCATION ..... 3

EDUC 2201 INSTRUCTIONAL TECHNOLOGY ..... 3

EDUC 2203 HUMAN DEVELOPMENT, LEARNING & TEACHING ..... 3

EDUC 2240 HIGH INCIDENCE DISABILITIES FOR EDUCATORS ..... 3

EDUC 2260 INSTRUCTIONAL DESIGN I ..... 3

EDUC 2265 FIELD EXPERIENCE 2 ..... 1

EDUC 3331 READING IN THE CONTENT AREAS ..... 3

EDUC 3340 INSTRUCTIONAL DESIGN II ..... 3

EDUC 3351 INCLUSIVE CLASSROOM PRACTICES ..... 3

EDUC 3365 FIELD EXPERIENCE 3 ..... 2

EDUC 4485 ACTION RESEARCH ..... 1

EDUC 4486 PORTFOLIO ..... 1

EDUC 4496 SECONDARY STUDENT TEACHING ..... 10

• General Studies Requirements ..... 30 SEM. HRS.

Outcome 1 - Critical Analysis

ENGL 1102 (Institutional Requirement) ..... 3

Outcome 2 - Quantitative Literacy

MATH 1540 OR 1510 (PR for MATH 1520) ..... 4

Outcome 3 - Written Communication

ENGL 1101 (Institutional Requirement) ..... 3

Outcome 4 - Teamwork

COMM 2201\* or any other Outcome 4 ..... 3

Outcome 5 - Information Literacy

ENGL 1102 (Satisfied in Outcome 1) ..... X

Outcome 6 - Technology Literacy

EDUC 2201 (Satisfied in Major) ..... X

Outcome 7 - Oral Communication

COMM 2200\* or any other Outcome 7 ..... X

Outcome 8 - Citizenship

POLI 1100\* or any other Outcome 8 ..... 3

Outcome 9 - Ethics

SOCY 2205\* or any course in Outcome 9 ..... 3

Outcome 10- Health

EDUC 2203 (Satisfied in Major) ..... X

Outcome 11- Interdisciplinary

GEOG 2210\* or any other course in Outcome 11 ..... X

Outcome 12 - Arts

Any course or combination of courses in Outcome 12 ..... 3

Outcome 13 - Humanities

ENGL 2220\* or any other course in Outcome 13 ..... X

Outcome 14 - Social Sciences

PSYC 1101\* or any other course in Outcome 14 ..... 3

Outcome 15 - Natural Science	
CHEM 1105 (Satisfied in Major).....	X
Outcome 16 - Cultural Awareness	
ENGL 2220* or any course in Outcome 16 .....	3
Additional General Studies hours	
CHEM 3301, EDUC 3331, EDUC 3351(WIC - SATISFIED IN MAJOR) .....	X

\* Any course(s) marked with an asterisk (\*) above are recommended to complement the program curriculum; however, students may select any other courses from the approved General Studies list.

## CHEMISTRY

The mission of the Chemistry Program at Fairmont State is to help students learn chemistry, and how chemistry connects to mathematics, biology, physics, and other professional fields. We expect and encourage our students to develop the analytical, experimental, computer and problem-solving skills necessary to successfully pursue chemistry and other science based careers. The program strives to foster excellent oral and written communication skills, and is approved by the American Chemical Society. With small class sizes, innovative teaching approaches, and hands-on access to modern, research-quality instrumentation, students can develop the analytical, problem-solving and teamwork skills necessary to successfully pursue science-based careers. A student completing the B.S. degree with a major in chemistry will be competitive for graduate study in chemistry or chemical engineering, laboratory positions in the chemical industry, pharmaceutical industry or government agencies, or application to law school. By electing a few additional biology classes, students completing a B.S. degree in chemistry will be prepared for application to a variety of professional and graduate schools, including medical school, dental school, veterinary school, pharmacy school, physical therapy programs, toxicology, pharmaceutical science and forensic science graduate programs. Programs available for students who wish to specialize in chemistry include:

1) The B.S. in Chemistry is certified by the American Chemical Society and provides a well-balanced program of courses in the major fields of chemistry, as well as mathematics and physics. A student completing this program will be a competitive

candidate for graduate study or positions in industry or government agencies.  
2) The B.A. in Education with a specialization in chemistry equips the graduate to teach chemistry in any secondary school or to pursue graduate studies in science education.

### BACHELOR OF SCIENCE

IN CHEMISTRY 120 SEM. HRS.

Chemistry Curriculum (see below)* .....	61-63 SEM. HRS.
General Studies Requirements .....	42-45 SEM. HRS.
Free Electives* .....	16-21 SEM. HRS.
No Minor Required	

\*Choosing higher-credit hour alternatives in the major curriculum reduces the minimum number of free elective credit hours required to reach 120 semester hours.

- Chemistry Curriculum ..... 61-63SEM. HRS.

Required courses (57-59 hrs.)

BIOL 3360 BIOCHEMISTRY .....	4
CHEM 1105 CHEMICAL PRINCIPLES .....	5
CHEM 2200 FOUNDATIONAL BIOCHEMISTRY .....	4
CHEM 2201 ORGANIC CHEMISTRY I .....	4
CHEM 2202 ORGANIC CHEMISTRY II .....	4
CHEM 2205 ANALYTICAL CHEMISTRY .....	4
CHEM 3315 INSTRUMENTAL ANALYSIS .....	4
CHEM 3301 PHYSICAL CHEMISTRY I .....	4
CHEM 3304 INORGANIC CHEMISTRY .....	4
CHEM 4404 SYNTHETIC METHODS AND MATERIALS .....	4
CHEM 4412 PHYSICAL CHEMISTRY II .....	4
MATH 2501 CALCULUS I .....	**4
MATH 2502 CALCULUS II .....	4
PHYS 1101 INTRODUCTION TO PHYSICS I .....	*4
-OR-	
PHYS 1105 PRINCIPLES OF PHYSICS I .....	*5
PHYS 1102 INTRODUCTION TO PHYSICS II .....	4
-OR-	
PHYS 1106 PRINCIPLES OF PHYSICS II .....	*5

\* Note: MATH 2501 is required for the chemistry major; the hours for this course are counted under General Studies requirements, Outcome 2.

\*\* Students who do not meet the prerequisites for MATH 2501 will be required to take MATH 1430 or MATH 1530 and/or MATH 1540.

- General Studies Requirements .....42-45 SEM. HRS.

Outcome 1 - Critical Analysis	
ENGL 2220* or any other in Outcome 1 .....	3
Outcome 2 - Quantitative Literacy	
MATH 2501 (Satisfied in Major) .....	4
Outcome 3 - Written Communication	
ENGL 1101 (Institutional Requirement).....	3
Outcome 4 - Teamwork	
CHEM 4412 (Satisfied in Major).....	X
Outcome 5 - Information Literacy	
ENGL 1102 (Institutional Requirement).....	3
Outcome 6 - Technology Literacy	
BISM 1200* or any other in Outcome 6.....	3
Outcome 7 - Oral Communication	
COMM 2200 or 2201 or 2202*.....	3
Outcome 8 - Citizenship	
Any course in Outcome 8 .....	3
Outcome 9 - Ethics	
ENGL 2220* or any course in Outcome 9 .....	3
Outcome 10- Health	
PHED 1100* or any other course in Outcome 10.....	2-5
Outcome 11- Interdisciplinary	
Any course in Outcome 11 .....	3
Outcome 12 - Arts	
Any course or combination of courses in Outcome 12 .....	3
Outcome 13 - Humanities	
HIST 1107/08* or any other course in Outcome 13 .....	3
Outcome 14 - Social Sciences	
GEOG 2210* or any other course in Outcome 14.....	3
Outcome 15 - Natural Science	
CHEM 1105 (Satisfied in Major).....	X
Outcome 16 - Cultural Awareness	
GEOG 2210* or any course in Outcome 16 .....	3
Additional General Studies hours	
CHEM 3301 (WIC - Satisfied in Major).....	X

\* Any course(s) marked with an asterisk (\*) above are recommended to complement the program curriculum; however, students may select any other courses from the approved General Studies list.

\*\*\*Note: Students with ACT Math less than 21 will need an extra year to take developmental or other prerequisite Math courses and CHEM 1101.

\*\*\*Note: Students with ACT Math higher than 22 should start in the first semester with the highest math course they can place into, which may be Trigonometry (ACT MATH 23), or Calculus I (ACT Math 25). This will preserve more options for minors and possible double majors.

Note: Math ACT requirements may be satisfied by Placement Testing score equivalents.

MINOR IN CHEMISTRY.....21 SEM. HRS

Required courses (9 hrs.)

CHEM 1105 CHEMICAL PRINCIPLES ..... 5  
CHEM 2200 FOUNDATIONAL BIOCHEMISTRY..... 4

Minor Electives (12 hrs.)

Any three additional courses with CHEM prefix except CHEM 1101 and CHEM 1102.

BACHELOR OF ARTS IN EDUCATION:

SPECIALIZATION IN CHEMISTRY

GRADES 9-ADULT.....120 SEM. HRS.

Chemistry Curriculum (see below).....45-47 SEM. HRS.\*

General Studies Requirements .....31 SEM. HRS.

Professional Education Courses .....39 SEM. HRS.

Free Electives 3-5 SEM. HRS.\*

No Minor Required

(See "Degree Requirements" for General Studies requirements not completed through the major)

\*Choosing higher-credit hour alternatives in the chemistry curriculum reduces the minimum number of free elective credit hours required to reach 128 semester hours.

• Chemistry Curriculum .....45-47 SEM. HRS.

Required courses (45-47 hrs.)

BIOL 1105 PRINCIPLES OF BIOLOGY I ..... 4

CHEM 1105 CHEMICAL PRINCIPLES ..... 5

CHEM 2200 FOUNDATIONAL BIOCHEMISTRY..... 4

CHEM 2201 ORGANIC CHEMISTRY I ..... 4

CHEM 3301 PHYSICAL CHEMISTRY I ..... 4

CHEM 3304 INORGANIC CHEMISTRY ..... 4

GEOL 1101 PHYSICAL GEOLOGY..... 4

MATH\*\*2501 CALCULUS I ..... 4

PHSC 4430 INTEGRATED SCIENCE SEMINAR ..... 1

PHSC 4431 METHODS AND MATERIALS IN TEACHING SCIENCE.....

3

PHYS 1101/02 INTRODUCTION TO PHYSICS I, II ..... 8

-OR-

PHYS 1105/06 PRINCIPLES OF PHYSICS I, II..... 10

\*\*Students who do not meet the prerequisites for MATH 2501 will be required to take MATH 1430 and/or MATH 1530.

All courses in the specialization AND THE Praxis II Exam must be completed prior to admission to Secondary Student Teaching.

• Professional Education .....39 SEM. HRS.

EDUC 2200	INTRO TO EDUCATION .....	3
EDUC 2201	INSTRUCTIONAL TECHNOLOGY .....	3
EDUC 2203	HUMAN DEVELOPMENT, LEARNING & TEACHING .....	3
EDUC 2240	HIGH INCIDENCE DISABILITIES FOR EDUCATORS .....	3
EDUC 2260	INSTRUCTIONAL DESIGN I .....	3
EDUC 2265	FIELD EXPERIENCE 2 .....	1
EDUC 3331	READING IN THE CONTENT AREAS.....	3
EDUC 3340	INSTRUCTIONAL DESIGN II .....	3
EDUC 3351	INCLUSIVE CLASSROOM PRACTICES .....	3
EDUC 3365	FIELD EXPERIENCE 3 .....	2
EDUC 4485	ACTION RESEARCH.....	1
EDUC 4486	PORTFOLIO.....	1
EDUC 4496	SECONDARY STUDENT TEACHING .....	10

• General Studies Requirements .....30 SEM. HRS.

Outcome 1 - Critical Analysis		
ENGL 1102 (Institutional Requirement).....	3	
Outcome 2 - Quantitative Literacy		
MATH 1540 (Required by Major) .....	4	
Outcome 3 - Written Communication		
ENGL 1101 (Institutional Requirement).....	3	
Outcome 4 - Teamwork		
COMM 2201* or any other Outcome 4 .....	3	
Outcome 5 - Information Literacy		
ENGL 1102 (Satisfied in Outcome 1) .....	X	
Outcome 6 - Technology Literacy		
EDUC 2201 (Satisfied in Major).....	X	
Outcome 7 - Oral Communication		
COMM 2201* or any other Outcome 7 .....	X	
Outcome 8 - Citizenship		
POLI 1100* or any other Outcome 8 .....	3	
Outcome 9 - Ethics		
SOCY 2205 or any course in Outcome 9.....	3	
Outcome 10- Health		
EDUC 2203 (Satisfied in Major).....	X	
Outcome 11- Interdisciplinary		
GEOG 2210* or any other course in Attribute 11 .....		
Outcome 12 - Fine Arts		
Any course or combination of courses in Outcome 12 .....	3	
Outcome 13 - Humanities		
ENGL 2220* or any other course in Outcome 13 .....	X	
Outcome 14 - Social Sciences		
PSYC 1101* or any other course in Outcome 14.....	3	
Outcome 15 - Natural Science		

CHEM 1105 (Satisfied in Major).....	X
Outcome 16 - Cultural Awareness	
ENGL 2220* or any course in Outcome 16.....	3
Additional General Studies hours	
EDUC 3331, EDUC 3351(WIC - Satisfied in Major).....	X

\* Any course(s) marked with an asterisk (\*) above are recommended to complement the program curriculum; however, students may select any other courses from the approved General Studies list.

## EARTH & SPACE SCIENCE

(TEACHING SPECIALIZATION ONLY)

### BACHELOR OF ARTS IN EDUCATION: SPECIALIZATION IN EARTH & SPACE SCIENCE

GRADES 5-ADULT ..... 120 SEM. HRS.

General Science Curriculum (see below).....49 SEM. HRS.

General Studies Requirements .....30 SEM. HRS.

(See "Degree Requirements" for General Studies requirements not completed through the major)

Professional Education Courses .....39 SEM. HRS. Free Electives 2 SEM. HRS.

• General Science Curriculum .....49 SEM. HRS.

Required Courses (48 hrs.)

BIOL 1105 BIOLOGICAL PRINCIPLES I.....	4
CHEM 1105 CHEMICAL PRINCIPLES.....	5
GEOL 1101 PHYSICAL GEOLOGY.....	4
GEOL 1102 HISTORICAL GEOLOGY.....	4
GEOS 2200 OCEANS AND CLIMATE.....	4
GEOL 3100 INFORMAL SCIENCE FIELD EXPERIENCE.....	4
MATH1540 TRIGONOMETRY & ELEMENTARY FUNCTIONS .....	3
PHYS 1101 INTRODUCTION TO PHYSICS I .....	4
PHYS 2202 ASTRONOMY.....	3
PHSC 4430 SCIENCE INTEGRATION SEMINAR.....	1
PHSC 4431 METHODS AND MATERIALS IN TEACHING SCIENCE.....	3
SCIE 1105 ENVIRONMENTAL SCIENCE.....	4
SCIE 1107 GEOGRAPHIC INFORMATION SYSTEMS .....	4
SCIE 1120 INTRODUCTION TO METEOROLOGY .....	4

All courses in the specialization AND THE Praxis II Exam must be completed prior to admission to Secondary Student Teaching.

• Professional Education .....39 SEM. HRS.

EDUC 2200 INTRO TO EDUCATION .....	3
EDUC 2201 INSTRUCTIONAL TECHNOLOGY.....	3
EDUC 2203 HUMAN DEVELOPMENT, LEARNING & TEACHING .....	3
EDUC 2240 HIGH INCIDENCE DISABILITIES FOR EDUCATORS .....	3
EDUC 2260 INSTRUCTIONAL DESIGN I .....	3
EDUC 2265 FIELD EXPERIENCE 2.....	1
EDUC 3331 READING IN THE CONTENT AREAS .....	3
EDUC 3340 INSTRUCTIONAL DESIGN II .....	3
EDUC 3351 INCLUSIVE CLASSROOM PRACTICES.....	3
EDUC 3365 FIELD EXPERIENCE 3.....	2
EDUC 4485 ACTION RESEARCH .....	1
EDUC 4486 PORTFOLIO .....	1
EDUC 4496 SECONDARY STUDENT TEACHING.....	10

• General Studies Requirements .....	30 SEM. HRS.
Outcome 1 - Critical Analysis	
ENGL 1102 (Institutional Requirement).....	3
Outcome 2 - Quantitative Literacy	
MATH 1540 (Required by Major) .....	4
Outcome 3 - Written Communication	
ENGL 1101 (Institutional Requirement).....	3
Outcome 4 - Teamwork	
COMM 2201* or any other Outcome 4 .....	3
Outcome 5 - Information Literacy	
ENGL 1102 (Satisfied in Outcome 1).....	X
Outcome 6 - Technology Literacy	
EDUC 2201 (Satisfied in Major).....	X
Outcome 7 - Oral Communication	
COMM 2201* or any other Outcome 7 .....	X
Outcome 8 - Citizenship	
POLI 1100* or any other Outcome 8 .....	3
Outcome 9 - Ethics	
SOCY 2205 or any course in Outcome 9.....	3
Outcome 10- Health	
EDUC 2203 (Satisfied in Major).....	X
Outcome 11- Interdisciplinary	
GEOG 2210* or any other course in Attribute 11	
Outcome 12 - Fine Arts	
Any course or combination of courses in Outcome 12 .....	3
Outcome 13 - Humanities	
ENGL 2220* or any other course in Outcome 13 .....	X
Outcome 14 - Social Sciences	
PSYC 1101* or any other course in Outcome 14.....	3
Outcome 15 - Natural Science	
CHEM 1105 (Satisfied in Major).....	X
Outcome 16 - Cultural Awareness	
ENGL 2220* or any course in Outcome 16 .....	3
Additional General Studies hours	
EDUC 3331, EDUC 3351(WIC - Satisfied in Major) .....	X

\* Any course(s) marked with an asterisk (\*) above are

recommended to complement the program curriculum; however, students may select any other courses from the approved General Studies list.

## FORENSIC SCIENCE

The Bachelor of Science degree in Forensic Science consists of courses in forensic science, biology, chemistry, mathematics, physics, and general studies courses that prepare students for graduate school and/or employment in scientific laboratories. In addition, an emphasis in biotechnology is available. Candidates for the degree must complete the General Studies requirements as described in the Degree Requirements chapter of this catalog. Students completing the requirements for the Forensic Science major will automatically earn a minor in chemistry.

For forensic science majors, the required science courses satisfy the General Studies scientific discovery requirement and the required math course satisfies the General Studies math requirement. Students interested in graduate school will need to complete additional upper-level science courses. ACT prerequisites for required science and math courses are listed in the catalog under the course description for each course. Students entering with an ACT Math score of 24 or higher, two units of high school algebra, one unit of high school geometry and one unit of high school trigonometry will be prepared for all courses. Students not meeting this list of prerequisites will need to take specific additional courses and should consult with the forensic science advisor immediately.

BACHELOR OF SCIENCE IN FORENSIC SCIENCE .....	120 SEM. HRS.
Forensic Science Curriculum (see below)* .....	71 SEM. HRS.
General Studies Requirements (includes specific courses required for the major) .....	39-41 SEM. HRS.
Electives* .....	8-10SEM. HRS.
No Minor Required	

\*Choosing higher-credit hour alternatives in the major curriculum reduces the minimum number of free elective credit hours required to reach 128 semester hours.

• Forensic Science Curriculum .....	71 SEM. HRS.
Required Courses (63 hrs.)	
BIOL 1106 BIOLOGICAL PRINCIPLES II .....	4
BIOL 3360 BIOCHEMISTRY .....	4
BIOL 3380 GENETICS.....	4

BIOL 3390 MOLECULAR BIOTECHNOLOGY .....	4
CHEM 1105 CHEMICAL PRINCIPLES .....	5
CHEM 2200 FOUNDATIONAL BIOCHEMISTRY .....	4
CHEM 2201 ORGANIC CHEMISTRY I .....	4
CHEM 2202 ORGANIC CHEMISTRY II .....	4
CHEM 2205 ANALYTICAL CHEMISTRY .....	4
CHEM 3315 INSTRUMENTAL ANALYSIS.....	4
FORS 2201 INTRODUCTION TO FORENSIC SCIENCE .....	4
FORS 2225 TRACE EVIDENCE AND MICROSCOPY .....	3
FORS 3201 FORENSIC BIOLOGY .....	4
FORS 3385 RESEARCH IN FORENSIC SCIENCE.....	3
FORS 4401 CAPSTONE SEMINAR IN FORENSIC SCIENCE.....	3
FORS 4411 FORENSIC SCIENCE INTERNSHIP.....	2
MATH1550 APPLIED STATISTICS .....	4

Specialization Electives Choose 8 hrs of the following:

FORS 3215 FINGERPRINT ANALYSIS .....	2
FORS 3225 FORENSIC TAPHONOMY .....	2
FORS 3301 HUMAN OSTEOLOGY .....	4
FORS 3305 FORENSIC ANTHROPOLOGY .....	4
FORS 3310 FORENSIC TOXICOLOGY .....	4
CHEM 3301 PHYSICAL CHEMISTRY I.....	4
CHEM 3304 INORGANIC CHEMISTRY I.....	4
CHEM 4404 SYNTHETICV METHODS AND MATERIALS .....	4
CHEM 4412 PHYSICAL CHEMISTRY II.....	4

• General Studies Requirements .....	39-41 SEM. HRS.
Outcome 1 - Critical Analysis .....	3
ENGL 1102 (Institutional Requirement)	
Outcome 2 - Quantitative Literacy .....	4
MATH 2501 (Required for accreditation)	
Outcome 3 - Written Communication.....	3
ENGL 1101 (Institutional Requirement)	
Outcome 4 - Teamwork.....	3
CRIM 2295 (Required for accreditation)	
Outcome 5 - Information Literacy .....	X
ENGL 1102 - Met in Outcome 1	
Outcome 6 - Technology Literacy.....	3
TECH 1100*	
Outcome 7 - Oral Communication .....	3
COMM 2200*	
Outcome 8 - Citizenship .....	3
POLI 1100*	
Outcome 9 - Ethics.....	X
CRIM 2295 (Met in Outcome 4)	
Outcome 10- Health .....	3
CRIM 2212*	
Outcome 11- Interdisciplinary.....	X
Met in Outcome 8 with POLI 1100*	
Outcome 12 - Arts.....	3

ANY COURSE LISTED IN Outcome 12,	
Outcome 13 - Humanities .....	3
History or Literature that also counts for Outcome 16	
Outcome 14 - Social Sciences.....	X
Met in Outcome 10 with CRIM 2212	
Outcome 15 - Natural Science.....	4-5
PHYS 1101 or 1105 (Required for accreditation)	
Outcome 16 - Cultural Awareness .....	X
History or Literature that also counts for Outcome 13	
Additional General Studies Hours.....	4-5
PHYS 1102 and 1106 (WIC - Required for accreditation)	
Writing Intensive Course met with BIOL 3390 in Major Requirements	

\* Any course(s) marked with an asterisk (\*) above are recommended to complement the program curriculum; however, students may select any other courses from the approved General Studies list.

#### MINOR IN FORENSIC INVESTIGATIVE SCIENCE 22/23 SEM. HRS

CRIM 1100 INTRO TO CRIMINAL JUSTICE.....	3
CRIM 2226 CRIME SCENE INVESTIGATION.....	3
CHEM 1101 GENERAL CHEMISTRY OR CHEM 1105 CHEMICAL PRINCIPLES .....	4/5
BIOL 1106 BIOLOGICAL PRINCIPLES II .....	4
FORS 2201 INTRO TO FORENSIC SCIENCE.....	4
FORS 3201 FORENSIC BIOLOGY.....	4

## GENERAL SCIENCE

### (TEACHING SPECIALIZATION ONLY)

A general science specialization for grades 5-adult is offered for the B.A. in Education degree, in conjunction with the School of Education. This specialization is typically chosen to accompany one of the discipline-based science specializations, such as the biology, chemistry, Earth and space science, or physics specialization.

#### BACHELOR OF ARTS IN EDUCATION: SPECIALIZATION IN GENERAL SCIENCE

GRADES 5-ADULT.....	120 SEM. HRS.
General Science Curriculum (see below) .....	47 SEM. HRS.
General Studies Requirements .....	30 SEM. HRS.
(See "Degree Requirements" for General Studies requirements not completed through the major)	
Professional Education Courses .....	39 SEM. HRS.
Free Electives 4 SEM. HRS.	

• General Science Curriculum .....

Required Courses (48 hrs.)	
BIOL 1105 BIOLOGICAL PRINCIPLES I.....	4
BIOL 1106 BIOLOGICAL PRINCIPLES II.....	4
CHEM 1105 CHEMICAL PRINCIPLES .....	5
CHEM 2200 FOUNDATIONAL BIOCHEMISTRY .....	4
GEOL 1101 PHYSICAL GEOLOGY.....	4
GEOL 1102 HISTORICAL GEOLOGY .....	4
MATH1540 TRIGONOMETRY & ELEMENTARY FUNCTIONS... ..	3
PHYS 1101 INTRODUCTION TO PHYSICS I .....	4
PHYS 1102 INTRODUCTION TO PHYSICS II .....	4
PHYS 2202 ASTRONOMY.....	3
PHSC 4430 SCIENCE INTEGRATION SEMINAR.....	1
PHSC 4431 METHODS AND MATERIALS IN TEACHING SCIENCE.....	3
SCIE 1120 INTRODUCTION TO METEOROLOGY.....	4

\*All courses and Praxis II Exam must be completed prior to admission to Secondary Student Teaching.

• Professional Education .....	39 SEM. HRS.
EDUC 2200 INTRO TO EDUCATION .....	3
EDUC 2201 INSTRUCTIONAL TECHNOLOGY .....	3
EDUC 2203 HUMAN DEVELOPMENT, LEARNING & TEACHING .....	3
EDUC 2240 HIGH INCIDENCE DISABILITIES FOR EDUCATORS.....	3
EDUC 2260 INSTRUCTIONAL DESIGN I.....	3
EDUC 2265 FIELD EXPERIENCE 2 .....	1
EDUC 3331 READING IN THE CONTENT AREAS.....	3
EDUC 3340 INSTRUCTIONAL DESIGN II.....	3
EDUC 3351 INCLUSIVE CLASSROOM PRACTICES .....	3
EDUC 3365 FIELD EXPERIENCE 3 .....	2
EDUC 4485 ACTION RESEARCH.....	1
EDUC 4486 PORTFOLIO.....	1
EDUC 4496 SECONDARY STUDENT TEACHING .....	10

• General Studies Requirements .....	30 SEM. HRS.
Outcome 1 - Critical Analysis	
ENGL 1102 (Institutional Requirement).....	3
Outcome 2 - Quantitative Literacy	
MATH 1540 (Satisfied in Major).....	3
Outcome 3 - Written Communication	
ENGL 1101 (Institutional Requirement).....	3
Outcome 4 - Teamwork	
COMM 2201* or any other Outcome 4 .....	3
Outcome 5 - Information Literacy	
ENGL 1102 (Satisfied in Outcome 1).....	X
Outcome 6 - Technology Literacy	
EDUC 2201 (Satisfied in Major).....	X
Outcome 7 - Oral Communication	
COMM 2200* or any other Outcome 7 .....	X
Outcome 8 - Citizenship	

POLI 1100* or any other Outcome 8.....	3
Outcome 9 - Ethics	
SOCY 2205* or any course in Outcome 9.....	3
Outcome 10- Health	
EDUC 2203 (Satisfied in Major) .....	X
Outcome 11- Interdisciplinary	
GEOG 2210* .....	3
Outcome 12 - Fine Arts	
Any course or combination of courses in Outcome 12.....	3
Outcome 13 - Humanities	
ENGL 2220* or any other course in Outcome 13 .....	X
Outcome 14 - Social Sciences	
PSYC 1101* or any other course in Outcome 14.....	3
Outcome 15 - Natural Science	
CHEM 1105 (Satisfied in Major).....	X
Outcome 16 - Cultural Awareness	
Any course in Outcome 16 .....	3
Additional General Studies hours	
EDUC 3331, EDUC 3351(WIC - Satisfied in Major)	

\* Any course(s) marked with an asterisk (\*) above are recommended to complement the program curriculum; however, students may select any other courses from the approved General Studies list.

## GEOLOGY

Geology is offered as a fulfillment of the General Studies requirement and as an integral part of various science-oriented teaching fields.

## PHYSICS

### (MINOR ONLY)

The physics program provides students in science, mathematics, technology, secondary education and various pre-professional programs with an understanding of fundamental concepts and principles that govern the physical universe. Physics students utilize mathematical methods, observation and critical reasoning to describe and analyze relationships between properties of matter and the interactions that cause things to change. The physics program's goal is to provide an environment for the development and application of analytic and problem-solving skills needed for careers and graduate study. Students may earn a minor in physics that complements majors in science, math, computer science and technology. A physics single specialization for grades 9-adult (see below) and a

general science specialization (see Department of Biology, Chemistry and Geoscience) for grades 5-adult are also offered for the B.A. in Education degree, in conjunction with the School of Education. The Physics single specialization is a mostly on-line set of courses, making the program easier for nontraditional students or for professionals who need to add a physics specialization.

MINOR IN PHYSICS.....30 SEM. HRS.

Required courses (30 hrs.)

PHYS* 1101/02 INTRODUCTION TO PHYSICS I, II.....	8
PHYS 3310 ELECTRICITY AND ELECTRONICS.....	4
PHYS 3325 ADVANCED PHYSICS I.....	4
PHYS 3335 ADVANCED PHYSICS II.....	4
PHYS 3340 SPECIAL PROBLEMS.....	2
MATH2501 CALCULUS I.....	4
-OR-	
TECH 2290 ENGINEERING ANALYSIS I.....	4
MATH2502 CALCULUS II.....	4
-OR-	
TECH 3300 ENGINEERING ANALYSIS II.....	4

\*PHYS 1105/06 is strongly recommended in place of 1101/02, but not required.

BACHELOR OF ARTS IN EDUCATION:

SPECIALIZATION IN PHYSICS

GRADES 9-ADULT.....	120 SEM. HRS.
Physics Curriculum (see below)*.....	45-48 SEM. HRS.
General Studies Requirements.....	31 SEM. HRS.
(See "Degree Requirements" for General Studies requirements not completed through the major).	
Professional Education Courses.....	39 SEM. HRS.
Free Electives*.....	2-5 SEM. HRS.

\*Choosing higher-credit hour alternatives in the physics curriculum reduces the minimum number of free elective credit hours required to reach 120 semester hours.

• Physics Curriculum.....	45-48 SEM. HRS.
Required courses (45-48 hrs.)	
(the above number includes courses included as directed General Studies courses)	
BIOL 1105 PRINCIPLES OF BIOLOGY I.....	4
CHEM 1105/2200 CHEMICAL PRINCIPLES/ FOUND. BIOCHEMISTRY 9	
-OR-	
CHEM 1101/1102 GENERAL CHEMISTRY I, II.....	8
MATH2502 CALCULUS II.....	4
-OR-	
TECH 3300 ENGINEERING ANALYSIS	

PHSC 4430 SCIENCE INTEGRATION SEMINAR.....	1
PHSC 4431 METHODS & MATERIALS IN TEACHING SCIENCE.....	3
PHYS 1101/1102 INTRODUCTION TO PHYSICS I, II.....	8
-OR-	
PHYS 1105/1106 PRINCIPLES OF PHYSICS I, II.....	10
PHYS 2202 ASTRONOMY.....	3
PHYS 3211/3212 INTERMEDIATE PHYSICS IA, IB.....	6
PHYS 3221/3222 INTERMEDIATE PHYSICS IIA, IIB.....	6
PHYS 3230 INTERMEDIATE PHYSICS LABORATORY.....	2

NOTE: Additional required science and math courses are included as directed General Studies credits. These include an additional 4-sem.hrs of math and 8-sm.hrs. of chemistry

All courses and Praxis II Exam must be completed prior to admission to Secondary Student Teaching. Chemistry 1105/06 is strongly recommended in place of 1101/02, but not required.

• Professional Education.....	39 SEM. HRS.
EDUC 2200 INTRO TO EDUCATION.....	3
EDUC 2201 INSTRUCTIONAL TECHNOLOGY.....	3
EDUC 2203 HUMAN DEVELOPMENT, LEARNING & TEACHING.....	3
EDUC 2240 HIGH INCIDENCE DISABILITIES FOR EDUCATORS.....	3
EDUC 2260 INSTRUCTIONAL DESIGN I.....	3
EDUC 2265 FIELD EXPERIENCE 2.....	1
EDUC 3331 READING IN THE CONTENT AREAS.....	3
EDUC 3340 INSTRUCTIONAL DESIGN II.....	3
EDUC 3351 INCLUSIVE CLASSROOM PRACTICES.....	3
EDUC 3365 FIELD EXPERIENCE 3.....	2
EDUC 4485 ACTION RESEARCH.....	1
EDUC 4486 PORTFOLIO.....	1
EDUC 4496 SECONDARY STUDENT TEACHING.....	10

• General Studies Requirements.....	30 SEM. HRS.
Outcome 1 - Critical Analysis	
ENGL 1102 (Institutional Requirement).....	3
Outcome 2 - Quantitative Literacy	
MATH 2501 (PR for MATH 1586 or MATH 2502) or TECH 3300).....	4
Outcome 3 - Written Communication	
ENGL 1101 (Institutional Requirement).....	3
Outcome 4 - Teamwork	
COMM 2201* or any other course in Outcome 4.....	3
Outcome 5 - Information Literacy	
ENGL 1102 (Satisfied in Outcome 1).....	X
Outcome 6 - Technology Literacy	
EDUC 2201 (Satisfied in Major).....	X
Outcome 7 - Oral Communication	
COMM 2201* or any other course in Outcome 7.....	X
Outcome 8 - Citizenship	

POLI 1100* or any other course in Outcome 8.....	3
Outcome 9 - Ethics	
SOCY 2205* or any other course in Outcome 9 .....	3
Outcome 10- Health	
EDUC 2203 (Satisfied in Major).....	X
Outcome 11- Interdisciplinary	
GEOG 2210* or any other course in Attribute 11 .....	X
Outcome 12 - Fine Arts	
Any course or combination of courses in Outcome 12 .....	3
Outcome 13 - Humanities	
ENGL 2220* or any other course in Outcome 13 .....	X
Outcome 14 - Social Sciences	
PSYC 1101* or any other course in Outcome 14.....	3
Outcome 15 - Natural Science	
CHEM 1101 or CHEM 1105 (Satisfied in Major).....	X
Outcome 16 - Cultural Awareness	
ENGL 2220* or any course in Outcome 16 .....	3
Additional General Studies hours	
EDUC 3331, EDUC 3351(WIC - Satisfied by Major)	

\* Any course(s) marked with an asterisk (\*) above are recommended to complement the program curriculum; however, students may select any other courses from the approved General Studies list.

# Department of Computer Science and Mathematics

Dr. Mahmood Hossain, Chair  
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 Mahmood.Hossain@fairmontstate.edu

## FACULTY

BAKER, RANDALL (1986)  
 Assistant Professor of Computer Science

BLACKWOOD, BRIAN (2012)  
 Associate Professor of Mathematics

CUCHTA, TOM (2016)  
 Assistant Professor of Mathematics

DEVINE, THOMAS (2015)  
 Assistant Professor of Computer Security

HOSSAIN, MAHMOOD (2006)  
 Professor of Computer Science

JONES, STEPHANIE (2015)  
 Assistant Professor of Mathematics

LARUE, A. DENNINE (2006)  
 Assistant Professor of Mathematics

LARUE, THEODORE K. (1982)  
 Assistant Professor of Computer Science

NIICHEL, ROBERT (2014)  
 Assistant Professor of Mathematics

RIESEN, JOSEPH (1992)  
 Professor of Mathematics

SMITH, AMANDA (2018)  
 Instructor of Supplemental Math

THOMPSON, LYVON (2014)  
 Coordinator of Supplemental Math

WALCK, LINDSEY (2016)  
 Assistant Coordinator of Supplemental Math

## COMPUTER SCIENCE

Computer Science is the study of the theoretical foundations of computing and their applications in computer systems. It involves the study and implementation of algorithmic processes that describe and transform information. Computer Science is intended for students with career objectives in a wide range of computing and computer-related professions, e.g., computer programmers, system analysts, software developers, database administrators, cybersecurity analysts, etc. Students interested in computer science has the option of choosing the Cybersecurity concentration.

Computer Science is a broad discipline that encompasses many areas of specialization, with an ever-growing array of opportunities. The B.S. in Computer Science at Fairmont State has been designed to provide students with an understanding of the field that is broad enough for them to find employment in a wide spectrum of private companies or government agencies and make them competitive for graduate school and advanced study. In addition to receiving the necessary skills in computer science, the students also receive a well-balanced mathematics and general studies curriculum.

NOTES: It is highly recommended that students attempt to complete COMP 1120, COMP 1130, and MATH 2501 by the end of their freshman year.

### BACHELOR OF SCIENCE

IN COMPUTER SCIENCE ..... 120 SEM. HRS.  
 Major Curriculum ..... 72-75 SEM. HRS.  
 General Studies Requirements ..... 35-36 SEM. HRS.  
 Free Electives 9-13 SEM. HRS.

• Major Curriculum ..... 72-75 SEM. HRS.

### Required Courses (55 HRS.)

COMP 1100 INTRODUCTION TO COMPUTING ..... 3  
 COMP 1120 PRINCIPLES OF PROGRAMMING I ..... 3  
 COMP 1130 PRINCIPLES OF PROGRAMMING II ..... 4  
 COMP 2200 OBJECT-ORIENTED PROGRAMMING ..... 3  
 COMP 2201 MACHINE ORGANIZATION ..... 3  
 COMP 2230 NETWORK PROGRAMMING ..... 3  
 COMP 2270 DATA STRUCTURES ..... 3

COMP 3330 ANALYSIS OF ALGORITHMS	3
COMP 3340 OPERATING SYSTEMS	3
COMP 3395 ETHICAL ISSUES IN COMPUTING	3
COMP 4400 AUTOMATA THEORY	3
COMP 4410 DATABASE MANAGEMENT	3
COMP 4440 SOFTWARE ENGINEERING	4
MATH1561 INTRODUCTION TO MATHEMATICAL REASONING	3
MATH2562 INTRODUCTION TO DISCRETE MATHEMATICS	3
MATH2501 CALCULUS I	4
MATH2502 CALCULUS II	4

Electives (9-10 HRS.)

(At least one COMP and at least one MATH course)

COMP 3300 COMPUTER GRAPHICS	3
COMP 3310 ARTIFICIAL INTELLIGENCE	3
COMP 3380 INTRODUCTION TO CRYPTOGRAPHY	3
COMP 4420 SELECTED ADVANCED TOPICS	3
COMP 4450 INTRODUCTION TO DATA MINING	3
MATH2510 MATHEMATICAL LOGIC	3
MATH3503 CALCULUS III	4
MATH3504 DIFFERENTIAL EQUATIONS	3
MATH3520 LINEAR ALGEBRA	3
MATH3540 NUMERICAL ANALYSIS	3
MATH3550 PROBABILITY AND STATISTICS	3

Science (8-10 HRS.)

BIOL 1105 BIOLOGICAL PRINCIPLES I	4
BIOL 1106 BIOLOGICAL PRINCIPLES II	4
CHEM 1105 CHEMICAL PRINCIPLES	5
CHEM 2200 FOUNDATIONAL BIOCHEMISTRY	4
PHYS 1101 INTRODUCTION TO PHYSICS I	4
PHYS 1102 INTRODUCTION TO PHYSICS II	4
PHYS 1105 PRINCIPLES OF PHYSICS I	5
PHYS 1106 PRINCIPLES OF PHYSICS II	5

- General Studies Requirements ..... 35-36 SEM. HRS.

Outcome 1 - Critical Analysis

ENGL 1102 or ENGL 1103* or Choice	3
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Outcome 2 - Quantitative Literacy

MATH 2501 (Satisfied in Major)	X
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Outcome 3 - Written Communication

ENGL 1101 (Institutional Requirement)	3
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Outcome 4 - Teamwork

COMM 2200* or Choice	3
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Outcome 5 - Information Literacy

ENGL 1102 or ENGL 1103 (Met in Outcome 1)	X
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Outcome 6 - Technology Literacy

Any course	3
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Outcome 7 - Oral Communication

COMM 2200* or Choice	X
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Outcome 8 - Citizenship

Any course	3
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Outcome 9 - Ethics

Any course	3
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Outcome 10- Health and Well-being

Any course	2-3
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Outcome 11- Interdisciplinary and Lifelong Learning

Any course	3
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Outcome 12 - Fine Arts

Any course	3
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Outcome 13 - Humanities

Any course	3
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Outcome 14 - Social Science

Any course	3
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Outcome 15 - Natural Science

BIOL 1105 or 1106, CHEM 1105 or PHYS 1102 or 1105 (Required by Major)	X
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Outcome 16 - Cultural Awareness and Human Dignity

Any course	3
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\* Any course(s) marked with an asterisk (\*) above are recommended to complement the program curriculum; however, students may select any other courses from the approved General Studies list.

BACHELOR OF SCIENCE IN COMPUTER SCIENCE

CYBERSECURITY CONCENTRATION	120 SEM. HRS.
Major Curriculum	75-77 SEM. HRS.
General Studies Requirements	32-33 SEM. HRS.
Free Electives 10-13 SEM. HRS.	

- Major Curriculum ..... 75-77 HRS.

Required Courses (68 HRS.)

COMP 1100 INTRODUCTION TO COMPUTING	3
COMP 1120 PRINCIPLES OF PROGRAMMING I	3
COMP 1130 PRINCIPLES OF PROGRAMMING II	4
COMP 2200 OBJECT-ORIENTED PROGRAMMING	3
COMP 2201 MACHINE ORGANIZATION	3
COMP 2220 FUNDAMENTALS OF COMPUTER SECURITY	3
COMP 2230 NETWORK PROGRAMMING	3
COMP 2270 DATA STRUCTURES	3
COMP 3340 OPERATING SYSTEMS	3
COMP 3380 INTRODUCTION TO CRYPTOGRAPHY	3
COMP 3390 NETWORK SECURITY	4
COMP 3395 ETHICAL ISSUES IN COMPUTING	3
COMP 4410 DATABASE MANAGEMENT	3
COMP 4415 VULNERABILITY ASSESSMENT	4
COMP 4440 SOFTWARE ENGINEERING	4
COMP 4495 CYBERSECURITY SENIOR PROJECT	3

BISM 2600	INTRODUCTION TO NETWORKING ADMINISTRATION	3
CRIM 2250	CYBERCRIME	3
MATH1561	INTRODUCTION TO MATHEMATICAL REASONING	3
MATH2562	DISCRETE MATHEMATICS	3
MATH2501	CALCULUS I	4

Elective (3-4 HRS.)

COMP 3310	ARTIFICIAL INTELLIGENCE	3
COMP 3330	ANALYSIS OF ALGORITHMS	3
COMP 4400	AUTOMATA THEORY	3
COMP 4420	SELECTED ADVANCED TOPICS	3
COMP 4450	INTRODUCTION TO DATA MINING	3
MATH2502	CALCULUS II	4
MATH2510	MATHEMATICAL LOGIC	3

Science (4-5 HRS.)

BIO 1105	BIOLOGICAL PRINCIPLES I	4
BIO 1106	BIOLOGICAL PRINCIPLES II	4
CHEM 1105	CHEMICAL PRINCIPLES	5
PHYS 1101	INTRODUCTION TO PHYSICS I	4
PHYS 1105	PRINCIPLES OF PHYSICS I	5

• General Studies Requirements ..... 32-33 SEM. HRS.

Outcome 1 - Critical Analysis	
ENGL 1102 or ENGL 1103* or Choice	3
Outcome 2 - Quantitative Literacy	
MATH 2501 (Satisfied in Major)	X
Outcome 3 - Written Communication	
ENGL 1101 (Institutional Requirement)	3
Outcome 4 - Teamwork	
COMM 2200* or Choice	3
Outcome 5 - Information Literacy	
ENGL 1102 or ENGL 1103 (Met in Outcome 1)	X
Outcome 6 - Technology Literacy	
Any course	3
Outcome 7 - Oral Communication	
COMM 2200* or Choice	X
Outcome 8 - Citizenship	
Any course	3
Outcome 9 - Ethics	
Any course	3
Outcome 10- Health and Well-being	
Any course	2-3
Outcome 11- Interdisciplinary and Lifelong Learning	
Any course	3
Outcome 12 - Fine Arts	
Any course	3
Outcome 13 - Humanities	
Any course	3
Outcome 14 - Social Science	
Any course	3

Outcome 15 - Natural Science

BIOL 1105 or 1106, CHEM 1105 or PHYS 1102 or 1105	
(Required by Major)	X

Outcome 16 - Cultural Awareness and Human Dignity

Any course	3
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\* Any course(s) marked with an asterisk (\*) above are recommended to complement the program curriculum; however, students may select any other courses from the approved General Studies list.

MINOR IN COMPUTER SCIENCE..... 19 SEM. HRS.

Required Courses (10 HRS.)

COMP 1120	PRINCIPLES OF PROGRAMMING I	3
COMP 1130	PRINCIPLES OF PROGRAMMING II	4
COMP 2200	OBJECT-ORIENTED PROGRAMMING	3

Electives (9 hrs)

COMP 2201	MACHINE ORGANIZATION	3
COMP 2220	FUNDAMENTALS OF COMPUTER SECURITY	3
COMP 2230	NETWORK PROGRAMMING	3
COMP 2270	DATA STRUCTURES	3
COMP 3300	COMPUTER GRAPHICS	3
COMP 3395	ETHICAL ISSUES IN COMPUTING	3
COMP 4440	SOFTWARE ENGINEERING	4
MATH22562	INTRODUCTION TO DISCRETE MATHEMATICS	3

MINOR IN AUTOMATION AND ROBOTICS .....28-29 SEM HRS.

Required Courses for Computer Science Majors pursuing this Minor (28-29 hrs)

PHYS 1101	Introduction to Physics I	4
PHYS 1105	Principles of Physics I	4-5
ELEC 1100	Circuit Analysis I	3
ELEC 2250	AC-DC Machinery and Controls	3
ELEC 2270	Microcomputers	3
ELEC 2280	Programmable Controllers	3
ELEC 4420	Advanced Automation Controller Systems	3
MECH 1100	Statics	3
MECH 3320	Dynamics	3
TECH 4450	Automation and Robotics	3

NOTE: the Automation and Robotics Minor is being offered primarily to those students majoring in Computer Science, Electronics Engineering Technology, or Mechanical Engineering Technology. For these three majors, students will need 24-29 additional hours of courses. For individual students outside of these majors, an estimated 49 hours of courses will be required.

MINOR IN GAME DESIGN .....26 SEM HRS.

Required courses (26 hrs.)

GRFX 1113	Multimedia Concepts .....	3
GRFX 1222	Internet Animation .....	3
COMP 1120	Principles of Programming I.....	3
COMP 1130	Principles of Programming II.....	4
GRFX 3131	Motion Graphics I .....	3
GRFX 4143	Motion Graphics II .....	3
COMP/GRFX 2203	Introduction to Game Principles.....	3
COMP/GRFX 4460	Game Design and Implementation .....	4

## MATHEMATICS

The mission of the mathematics degree program is to equip students with analytical and problem-solving skills for careers or graduate study. Classes develop a student’s ability to apply mathematical methods and ideas to problems in both mathematics and other fields. Students learn to communicate ideas effectively, assimilate new information, and to be self-reliant learners. The department cooperates fully with the School of Education in meeting its mission for candidates for a B.A. degree in education with mathematics teaching specialization for either the 5-9 or the 5-Adult grade levels.

Students interested in mathematics have the option of selecting one of the following degree programs:

- 1) the Bachelor of Science degree in Mathematics, as preparation for immediate employment or for graduate school.
- 2) the Bachelor of Arts in Education degree with a 5-Adult comprehensive specialization as preparation for teaching mathematics. Students receiving a B.A. in Math Education also satisfy the degree requirements for a B.S. in Mathematics. Students pursuing these degrees are advised in the Math department. NOTE: MATH 1550, 1561, 2563, 2501, 2502, and 3503 are required for both degrees and should be completed early in the program.
- 3) the Mathematics 5-9 teaching specialization can be added to an Elementary Education degree or as a second specialization with any B.A. in Education.

It is expected that incoming students in this field will present a minimum of four units of high school mathematics, including the equivalent of two units of algebra, one unit of geometry, and one advanced unit

such as Pre-Calculus. Students without this background may be required to complete appropriate lower-level courses in addition to the stated requirements. Students should consult with their advisor concerning credit for prerequisites and special examinations for course credit. All students majoring in mathematics must complete a minor. Students who are receiving a teaching certificate use Education as their minor.

### BACHELOR OF SCIENCE

IN MATHEMATICS .....	120 SEM. HRS.
Mathematics Curriculum (see below) .....	45 SEM. HRS.*
Minor (Required) .....	18-24 SEM. HRS.
General Studies Requirements .....	30-32 SEM. HRS.

(See "Degree Requirements" for General Studies requirements not completed through the major)

Free Electives 19-27 SEM. HRS.\*

\*Choosing higher-credit hour alternatives in the general studies curriculum reduces the minimum number of free elective credit hours required to reach 120 semester hours.

- Mathematics Curriculum..... 45 SEM. HRS.

#### Required Courses (37 hrs.)

COMP 1120	PRINCIPLES OF PROGRAMMING I.....	3
MATH 1550	APPLIED STATISTICS .....	4
MATH 1561	INTRODUCTION TO MATHEMATICAL REASONING. ....	3
MATH 2501	CALCULUS I.....	4
MATH 2502	CALCULUS II.....	4
MATH 2510	MATHEMATICAL LOGIC .....	3
MATH 2563	TRANSITION TO HIGHER MATHEMATICS.....	3
MATH 3503	CALCULUS III.....	4
MATH 3520	LINEAR ALGEBRA .....	3
MATH 3550	PROBABILITY.....	3
MATH 4520	ABSTRACT ALGEBRA.....	3

Any one of the following science courses:

(The course hours from this section are counted in General Studies)

CHEM 1101	GENERAL CHEMISTRY I .....	4
CHEM 1105	CHEMICAL PRINCIPLES .....	5
PHYS 1101	INTRODUCTION TO PHYSICS I.....	4
PHYS 1105	PRINCIPLES OF PHYSICS I.....	5
BIOL 1105	BIOLOGICAL PRINCIPLES I .....	4
BIOL 1106	BIOLOGICAL PRINCIPLES II .....	4
GEOL 1101	PHYSICAL GEOLOGY.....	4

Math Electives (9 hrs)

(Choose three courses from Groups A and B. At least one course must be chosen from Group A.)

GROUP A:

MATH4580	TOPOLOGY	3
MATH4590	REAL ANALYSIS	3

GROUP B:

MATH2520	INTRODUCTION TO THE THEORY OF NUMBERS	3
MATH2562	INTRODUCTION TO DISCRETE MATHEMATICS	3
MATH3504	DIFFERENTIAL EQUATIONS	3
MATH3540	NUMERICAL ANALYSIS	3
MATH3570	MODERN GEOMETRY	3

MINOR Field of Study (REQUIRED) ..... 18-24 credits

• General Studies Requirements ..... 30-32 SEM. HRS.  
(When choices are available, see the full General Studies Curriculum in Appendix A.)

Outcome 1 - Critical Analysis:

ENGL 1102 (Institutional Requirement)..... 3

Outcome 2 - Quantitative Literacy:

MATH 1507 or 1407 or higher in Outcome 2 (Satisfied in Major)..... X

Outcome 3 - Written Communication:

ENGL 1101 (Institutional Requirement)..... 3

Outcome 4 - Teamwork:

COMM 2200\* or any course listed in Outcome 4..... 3

Outcome 5 - Information Literacy:

ENGL 1102\* (Satisfied in Outcome in Outcome 1) or any course listed in Outcome 5..... 3

Outcome 6 - Technology Literacy:

Any course in Outcome 6 ..... 3

Outcome 7 - Oral Communication:

COMM 2200\* (Met in Outcome 4) or any course in Outcome 7 ..... X

Outcome 8 - Citizenship:

POLI 1100\* or any course in Outcome 8 ..... 3

Outcome 9 - Ethics:

ENGL 2220\* or any course in Outcome 9 ..... 3

Outcome 10- Health:

PHED 1100\* or any course in Outcome 10 ..... 2-3

Outcome 11- Interdisciplinary:

POLI 1100\* (Met in Outcome 8) or any course in Outcome 11.....X

Outcome 12 - Arts:

Any course listed in Outcome 12..... 3

Outcome 13 - Humanities:

ENGL 2220\* (Met in Outcome 9) or any course listed in Outcome 13 ..... X

Outcome 14 - Social Sciences:

GEOG 2210\* or any course in Outcome 14 ..... 3

Outcome 15 - Natural Science:

PHYS 1101, PHYS 1105, CHEM 1101, CHEM 1105, BIOL 1105, BIOL 1106, OR GEOL 1101 (Satisfied in Major) ..... 4-5

Outcome 16 - Cultural Awareness:

GEOG 2210\* (Met in Outcome 14) or any course in Outcome 16.....X

Additional General Studies Hours:

MATH 4520 (WIC - Satisfied in Major)..... X  
(Writing Intensive Course)

\* Any course(s) marked with an asterisk (\*) above are recommended to complement the program curriculum; however, students may select any other courses from the approved General Studies list.

MINOR IN MATHEMATICS..... 24 SEM. HRS.

Required Courses (12 hrs.)

MATH2501	CALCULUS I	4
MATH2502	CALCULUS II	4
MATH3503	CALCULUS III	4

Electives (12 hrs.)

(Choose four courses from the following list with at most one 1000 level course and at least one 3000/4000 course).

MATH1550	APPLIED STATISTICS	3
MATH1561	INTRODUCTION TO MATHEMATICAL REASONING.	3
MATH2510	MATHEMATICAL LOGIC	3
MATH2520	INTRODUCTION TO THE THEORY OF NUMBERS	3
MATH2562	INTRODUCTION TO DISCRETE MATHEMATICS	3
MATH2563	TRANSITION TO HIGHER MATHEMATICS	3
MATH3504	DIFFERENTIAL EQUATIONS	3
MATH3520	LINEAR ALGEBRA	3
MATH3540	NUMERICAL ANALYSIS	3
MATH3550	PROBABILITY I	3
MATH3570	MODERN GEOMETRY	3
MATH4520	ABSTRACT ALGEBRA	3
MATH4580	TOPOLOGY	3
MATH4590	REAL ANALYSIS	3

BACHELOR OF ARTS IN EDUCATION:

SPECIALIZATION IN MATHEMATICS

GRADES 5-ADULT	120 SEM. HRS.
Mathematics Curriculum (see below)	50 SEM. HRS.*
General Studies Requirements	31-32 SEM. HRS.
(See "Degree Requirements" for General Studies requirements not completed through the major)	
Professional Education Courses	39 SEM. HRS.

(6 Education hours are counted in the general studies hours)  
 Free Electives \* .....5-6 SEM. HRS.

\*Choosing higher-credit hour alternatives in the general studies curriculum reduces the minimum number of free elective credit hours required to reach 120 semester hours.

• Mathematics Curriculum .....50 SEM. HRS.

Required Courses (47 hrs.)

MATH1550 APPLIED STATISTICS .....	3
MATH1561 INTRODUCTION TO MATHEMATICAL REASONING .....	3
MATH2501 CALCULUS I .....	4
MATH2502 CALCULUS II .....	4
MATH2510 MATHEMATICAL LOGIC.....	3
MATH2554 TOPICS IN MATH HISTORY.....	2
MATH2562 INTRODUCTION TO DISCRETE MATHEMATICS .....	3
MATH2563 TRANSITION TO HIGHER MATHEMATICS .....	3
MATH3503 CALCULUS III.....	4
MATH3520 LINEAR ALGEBRA.....	3
MATH3550 PROBABILITY .....	3
MATH3570 MODERN GEOMETRY .....	3
MATH4520 ABSTRACT ALGEBRA .....	3
MATH4531 METHODS & MATERIALS OF TEACHING MATH.....	3
COMP 1120 PRIN. OF PROGRAMMING I.....	3

Any one of the following science courses:

CHEM 1101 GENERAL CHEMISTRY I.....	4
CHEM 1105 CHEMICAL PRINCIPLES .....	5
PHYS 1101 INTRODUCTION TO PHYSICS I .....	4
PHYS 1105 PRINCIPLES OF PHYSICS I .....	5
BIOL 1105 BIOLOGICAL PRINCIPLES I.....	4
BIOL 1106 BIOLOGICAL PRINCIPLES II.....	4
GEOL 1101 PHYSICAL GEOLOGY.....	4

Electives (3 hrs.)

(Choose one of the following.)

MATH4580 TOPOLOGY .....	3
MATH4590 REAL ANALYSIS.....	3

\*All courses must be completed prior to admission to Secondary Student Teaching/Clinical III.

• Professional Education .....39 SEM. HRS.

EDUC 2200 INTRO TO EDUCATION .....	3
EDUC 2201 INSTRUCTIONAL TECHNOLOGY .....	3
EDUC 2203 HUMAN DEVELOPMENT, LEARNING & TEACHING .....	3
EDUC 2240 HIGH INCIDENCE DISABILITIES FOR EDUCATORS.....	3
EDUC 2260 INSTRUCTIONAL DESIGN I.....	3
EDUC 2265 FIELD EXPERIENCE 2 .....	1

EDUC 3331 READING IN THE CONTENT AREAS.....	3
EDUC 3340 INSTRUCTIONAL DESIGN II.....	3
EDUC 3351 INCLUSIVE CLASSROOM PRACTICES .....	3
EDUC 3365 FIELD EXPERIENCE 3 .....	2
EDUC 4485 ACTION RESEARCH.....	1
EDUC 4486 PORTFOLIO .....	1
EDUC 4496 SECONDARY STUDENT TEACHING .....	10

• General Studies Requirements.....31-32 SEM. HRS.  
 (When choices are available, see the full General Studies Curriculum in Appendix A.)

Outcome 1 - Critical Analysis:	
ENGL 1102 (Institutional Requirement) .....	3
Outcome 2 - Quantitative Literacy:	
MATH 1507 or 1407 or higher in Outcome 2 (Satisfied in Major).....	X
Outcome 3 - Written Communication:	
ENGL 1101 (Institutional Requirement) .....	3
Outcome 4 - Teamwork:	
COMM 2200* or any course listed in Outcome 4 .....	3
Outcome 5 - Information Literacy:	
ENGL 1102* (Met in Outcome 1) or any course listed in Outcome 5...X	
Outcome 6 - Technology Literacy:	
EDUC 2201* or any course in Outcome 6 (Satisfied in Major).....	3
Outcome 7 - Oral Communication:	
COMM 2200* (Met in Outcome 4) or any course in.....	X
Outcome 8 - Citizenship:	
POLI 1100* or any course in Outcome 8.....	3
Outcome 9 - Ethics:	
ENGL 2220* or any course in Outcome 9.....	3
Outcome 10- Health:	
EDUC 2203* or any course in Outcome 10 (Satisfied in Major).....	3
Outcome 11- Interdisciplinary:	
POLI 1100* (Met in Outcome 8) or any course in Outcome 11.....	X
Outcome 12 - Arts:	
Any course listed in Outcome 12 .....	3
Outcome 13 - Humanities:	
ENGL 2220* (Met in Outcome 9) or any course listed in Outcome 13 .....	X
Outcome 14 - Social Sciences:	
GEOG 2210* or any course in Outcome 14.....	3
Outcome 15 - Natural Science:	
PHYS 1101, PHYS 1105, CHEM 1101, CHEM 1105, BIOL 1105, BIOL 1106, OR GEOL 1101 (Satisfied in Major) .....	4-5
Outcome 16 - Cultural Awareness:	
GEOG 2210* (Met in Outcome 14) or any course in Outcome 16.....	X
Additional General Studies Hours:	

MATH 4520 (WIC - Satisfied in Major)..... X

\* Any course(s) marked with an asterisk (\*) above are recommended to complement the program curriculum; however, students may select any other courses from the approved General Studies list.

**MATHEMATICS TEACHING**

SPECIALIZATION, GRADES 5-9..... 30-31 SEM. HRS.

This specialization prepares teacher candidates for general mathematics through Algebra I. The endorsement can be attached to an elementary education degree or any other teaching specialization. B.A. in Education.

**Required courses (30-31 hrs.)**

- MATH1530 or 1430 COLLEGE ALGEBRA\* ..... 3 or 4
- MATH1540 TRIG. AND ELEMENTARY FUNCTIONS ..... 3
- MATH1550 APPLIED STATISTICS ..... 3
- MATH1561 INTRODUCTION TO MATHEMATICAL REASONING ..... 3
- MATH 2501 CALCULUS I ..... 4
- MATH2551 STRUCTURE OF THE REAL NUMBERS ..... 3
- MATH2552 DATA ANALYSIS AND GEOMETRY..... 3
- MATH2554 TOPICS IN MATH HISTORY..... 2
- MATH3553 MATH METHODS FOR ELEMENTARY TEACHERS ..... 3
- MATH4531 METHODS & MATERIALS IN TEACHING MATH. .... 3

\*omit if Math ACT greater than or equal to 23

# Department of Engineering Technology

**Hugh Costello, P.E., Chair**  
 413 Engineering Technology Building  
 (304) 367-4821  
 hcostello@fairmontstate.edu

## FACULTY

BOLYARD, JASON, P.E. (2007)  
 Associate Professor of Mechanical Engineering Technology

CHAPMAN, ABBY, CSP (2016)  
 Assistant Professor of Occupational Safety

COMO, TIA M., P.E. (1998)  
 Professor of Architecture/Civil Engineering Technology

COSTELLO, HUGH M., P.E. (2009)  
 Associate Professor of Mechanical Engineering Technology

CRIHALMEANU, MUSAT, P.E. (2015)  
 Assistant Professor of Electronics Engineering Technology

ELLIOTT, DENNIS (2016)  
 Assistant Professor of Aviation Technology  
 Chief Flight Instructor

GILBERTI, ANTHONY F., DTE (2007)  
 Professor of Technology Education  
 Graduate Faculty

KIRK, JOEL (2017)  
 Chief Flight Instructor

LAFFERRE, TABITHA (2016)  
 Assistant Professor of Engineering Technology

McLAUGHLIN, THOMAS (2014)  
 Assistant Professor of Electronics Engineering Technology

TETER, DONALD (2018)

Assistant Professor of Surveying

TOSSONE, TREY, CSP (2016)  
 Assistant Professor of Occupational Safety

VASSIL, JAMES E., P.E. (2002)  
 Associate Professor of Civil Engineering Technology

VOSBURGH, JASON (2015)  
 Assistant Professor of Aviation Technology

WOLF, MARK (2011)  
 Assistant Professor of Technology Education

ZICKEFOOSE, GARY, P.E. (1984)  
 Associate Professor of Civil Engineering Technology

## AVIATION TECHNOLOGY

The Bachelor of Science in Aviation Technology is offered to students whose career objective is the management and operation of airside activities in the aviation industry. The program provides the graduate with technical competence in an aviation-related career as well as the skills needed to assume supervisory responsibilities. There are several areas of specialization in this degree: Aviation Administration (which has a focus on management), Aviation Administration with a Flight option, and Aviation Maintenance Management. All Aviation Technology students are required to take the Aviation Common Core requirements listed below.

• Aviation Common Core .....	27 SEM. HRS.
AVMA3301 AVIATION HISTORY .....	3
AVMA3302 AVIATION LAW .....	3
AVMA3303 AIRLINE OPERATIONS .....	3
AVMA3304 AVIATION MAINTENANCE MANAGEMENT .....	3
AVMA3305 GENERAL AVIATION OPERATIONS .....	3
AVMA3307 AVIATION SAFETY .....	3
AVMA4402 FISCAL ASPECTS OF AVIATION MANAGEMENT .....	3
BSBA 2209 PRINCIPLES OF MANAGEMENT .....	3
MGMT 3390 ORGANIZATIONAL BEHAVIOR .....	3
AVIATION ADMINISTRATION.....	120 SEM. HRS.

Aviation Common Core .....	27 SEM. HRS.
Aviation Admin. Curriculum (see below) .....	39 SEM. HRS.
General Studies Requirements .....	39-41 SEM. HRS.
Free Electives 13-15 SEM. HRS.	

This option prepares the student for employment in administrative areas with companies in and related to the aviation industry. Typical positions include airport manager, flight dispatcher, flight scheduler, crew coordinator, air cargo administration, aviation marketing, air traffic controller, and online management. A Flight Option is available within this degree; see details below.

Aviation Administration Curriculum .....	33 SEM. HRS.
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Required Courses (39 hrs.)

AVMA1100 AIRCRAFT FLIGHT THEORY .....	3
AVMA1102 INTRODUCTION TO AIR TRAFFIC CONTROL .....	3
AVMA2206 AVIATION SECURITY .....	3

AVMA2210 AVIATION METEOROLOGY .....	3
AVMA2211 AIRPORT MANAGEMENT .....	3
AVMA2213 AIRPORT PLANNING AND DEVELOPMENT .....	3
BSBA 2201 PRINCIPLES OF ACCOUNTING .....	3
BSBA 3310 BUSINESS AND ECONOMIC STATISTICS.....	3
BSBA 2204 PRINCIPLES OF MARKETING.....	3
SFTY 1100 SAFETY & ENVIRONMENTAL COMP. OF INDUSTRY .....	3
SFTY 1150 SAFETY MGT. & CONCEPTS IN ACCIDENT PREV .....	3

Major Electives (Select 6 hrs. from the following courses)

AVMA4401 AVIATION INDUSTRY RESEARCH .....	3
AVMA4403 AVIATION PROJECT .....	1-4
AVMA4411 AVIATION INDUSTRY INTERNSHIP .....	3
AVMA4498 UNDERGRADUATE RESEARCH .....	1-6

• General Studies Requirements .....	39-41 SEM. HRS.
Outcome 1 - Critical Analysis	
ENGL 1102 (Institutional Requirement).....	3
Outcome 2 - Quantitative Literacy	
MATH 1510 or 1430 or 1530 (PR for PHYS 1101).....	3
Outcome 3 - Written Communication	
ENGL 1101 (Institutional Requirement).....	3
Outcome 4 - Teamwork	
MANF 2250 .....	3
Outcome 5 - Information Literacy	
Met in Outcome 1 with ENGL 1102 .....	X
Outcome 6 - Technology Literacy	
TECH 1100 or BISM 1200*.....	3
Outcome 7 - Oral Communication	
COMM 2200 or 2201 or 2202*.....	3

Outcome 8 - Citizenship	
POLI 1100* .....	3
Outcome 9 - Ethics	
Met in Outcome 7 with COMM 2200 or 2201 or 2202 .....	3
Outcome 10- Health	
Any course listed in Outcome 10 .....	2-3
Outcome 11- Interdisciplinary	
Met in Outcome 8 with POLI 1100.....	X
Outcome 12 - Arts	
Any course listed in Outcome 12 .....	3
Outcome 13 - Humanities	
Any course listed in Outcome 13 .....	3
Outcome 14 - Social Sciences	
BSBA 2200 or 2211 or PSYC 1101 or SOCY 1110* .....	3
Outcome 15 - Natural Science	
PHYS 1101 or 1105 (Physics required to meet certain FAA guidelines for ATP reduction in flight hours) .....	4-5
Outcome 16 - Cultural Awareness	
Any course listed in Outcome 16 .....	3
Additional General Studies hours .....	0

\* Any course(s) marked with an asterisk (\*) above are recommended to complement the program curriculum; however, students may select any other courses from the approved General Studies list.

AVIATION ADMINISTRATION / PROFESSIONAL FLIGHT .....	120 SEM. HRS.
Aviation Common Core .....	27 SEM. HRS.
Aviation Admin./ Flight Curriculum .....	48 SEM. HRS.
General Studies Requirements .....	39-42 SEM. HRS.
Free Electives 3-6 SEM. HRS.	

Flight fees for students to obtain their private, commercial, or instrument license must be paid during the semester in which you enroll in the class.

Aviation Administration / Flight

Required Courses (48 hrs.)	
AVMA1102 INTRO TO AIR TRAFFIC CONTROL .....	3
AVMA2201 INSTRUMENT PILOT TECHNOLOGY.....	3
AVMA2204 INSTRUMENT PILOT TECHNOLOGY LAB.....	3
AVMA2206 AVIATION SECURITY .....	3
AVMA2211 AIRPORT MANAGEMENT .....	3
AVMA2213 AIRPORT PLANNING & DEVELOPMENT .....	3
AVMA3300 COMMERCIAL PILOT TECHNOLOGY .....	3
AVMA3306 COMMERCIAL PILOT TECHNOLOGY LAB.....	3
BSBA 2201 PRINCIPLES OF ACCOUNTING .....	3
BSBA 2204 PRINCIPLES OF MARKETING .....	3
BSBA 3310 BUSINESS AND ECONOMICS STATISTICS .....	3
SFTY 1100 SAFETY & ENVIRONMENTAL COMPONENTS	

OF INDUSTRY .....	3
SFTY 1150 SAFETY MANAGEMENT & CONCEPTS IN ACCIDENT PREVENTION .....	3
Major Electives (Select 9 credits from the following)	
AVMA1101 PRIVATE PILOT TECHNOLOGY.....	3
AVMA1103 PRIVATE PILOT TECHNOLOGY LAB.....	3
AVMA4401 AVIATION INDUSTRY RESEARCH AND ANALYSIS.....	3
AVMA4403 AVIATION PROJECT.....	3
AVMA4411 AVIATION INDUSTRY INTERNSHIP.....	3
AVMA4498 UNDERGRADUATE RESEARCH.....	3

\*Prerequisite for admission into program - earned A&P license.

This option prepares the student for entry-level management positions in the maintenance field with airlines, aviation manufacturers, repair stations, and fixed base operators. To be admitted to the program, all students must have obtained their FAA Airframe and Powerplant License.

• General Studies Requirements .....	39-42 SEM. HRS.
Outcome 1 - Critical Analysis	
ENGL 1102 (Institutional Requirement).....	3
Outcome 2 - Quantitative Literacy	
MATH 1510 or 1430 or 1530 (PR for PHYS 1101).....	3
Outcome 3 - Written Communication	
ENGL 1101 (Institutional Requirement).....	3
Outcome 4 - Teamwork	
MANF 2250* 3	
Outcome 5 - Information Literacy	
Met in Outcome 1 with ENGL 1102 .....	X
Outcome 6 - Technology Literacy	
TECH 1100* .....	3
Outcome 7 - Oral Communication	
COMM 2200 or 2201 or 2202*.....	3
Outcome 8 - Citizenship	
POLI 1100* .....	3
Outcome 9 - Ethics	
Met in Outcome 7 with COMM 2200 or 2201 or 2202 .....	X
Outcome 10- Health	
Any course listed in Outcome 10.....	2-4
Outcome 11- Interdisciplinary	
Met in Outcome 8 with POLI 1100.....	X
Outcome 12 - Arts	
Any course listed in Outcome 12.....	3
Outcome 13 - Humanities	
Any course listed in Outcome 13.....	3
Outcome 14 - Social Sciences	
BSBA 2200 or 2211 or PSYC 1101 or SOCY 1110* .....	3

Outcome 15 - Natural Science	
PHYS 1101 or 1105 (Physics required to meet certain FAA guidelines for ATP reduction in flight hours).....	4-5
Outcome 16 - Cultural Awareness	
Any course listed in Outcome 16 .....	3
Additional General Studies hours .....	0

\* Any course(s) marked with an asterisk (\*) above are recommended to complement the program curriculum; however, students may select any other courses from the approved General Studies list.

#### MINOR IN AVIATION ADMINISTRATION (No Flight) 21 SEM. HRS.

Required Courses (15 hrs.)	
AVMA1100 AIRCRAFT FLIGHT THEORY .....	3
AVMA1102 INTRODUCTION TO AIR TRAFFIC CONTROL .....	3
AVMA2211 AIRPORT MANAGEMENT .....	3
AVMA3303 AIRLINE OPERATIONS .....	3
AVMA3305 GENERAL AVIATION OPERATIONS .....	3
Electives (6 hrs.)	
(Select two courses from the following list.)	
AVMA2213 AIRPORT PLANNING AND DEVELOPMENT .....	3
AVMA3301 AVIATION HISTORY .....	3
AVMA3302 AVIATION LAW .....	3
AVMA3307 AVIATION SAFETY .....	3
AVMA4401 AVIATION INDUSTRY RESEARCH & ANALYSIS .....	3

## MINOR IN AVIATION ADMINISTRATION

(Flight Option) .....18 SEM. HRS.

### Required Courses (12 hrs.)

AVMA1101 PRIVATE PILOT TECHNOLOGY .....	3
AVMA3301 AVIATION HISTORY .....	3
AVMA3302 AVIATION LAW .....	3
AVMA3305 GENERAL AVIATION OPERATIONS .....	3

### Electives (6 hrs.)

(Select two courses from the following list.)

AVMA2211 AIRPORT MANAGEMENT .....	3
AVMA2213 AIRPORT PLANNING AND DEVELOPMENT .....	3
AVMA2214 ADVANCED AIR TRAFFIC CONTROL.....	3
AVMA3303 AIRLINE OPERATIONS .....	3
AVMA3307 AVIATION SAFETY .....	3

### AVIATION MAINTENANCE

MANAGEMENT120 SEM.

HRS.

Aviation Common Core .....27 SEM. HRS.

Aviation Maintenance Management

Curriculum\* (see below) .....53 SEM. HRS.

General Studies Requirements.....39-42 SEM.

HRS. Free Electives 0-1 SEM. HRS.

\* Any course(s) marked with an asterisk (\*) above are recommended to complement the program curriculum; however, students may select any other courses from the approved General Studies list.

## ENGINEERING TECHNOLOGY

Students working toward the Bachelor of Science in Engineering Technology will be primarily concerned with the practical applications of established scientific and engineering knowledge and methods. A strong background in mathematics and science is recommended for entry into this program. The curriculum, including general education courses in business, the humanities, science and math, emphasizes the relationships of the various disciplines to technological processes in industry.

• General Studies Requirements .....39-42 SEM. HRS.

Outcome 1 - Critical Analysis

ENGL 1102 (Institutional Requirement)..... 3

Outcome 2 - Quantitative Literacy

MATH 1510 or 1430 or 1530 (PR for PHYS 1101)..... 3

Outcome 3 - Written Communication

ENGL 1101 (Institutional Requirement) ..... 3

Outcome 4 - Teamwork

MANF 2250\* ..... 3

Outcome 5 - Information Literacy

Met in Outcome 1 with ENGL 1102 ..... X

Outcome 6 - Technology Literacy

TECH 1100\* ..... 3

Outcome 7 - Oral Communication

COMM 2200 or 2201 or 2202\* ..... 3

Outcome 8 - Citizenship

POLI 1100\* ..... 3

Outcome 9 - Ethics

Met in Outcome 7 with COMM 2200 or 2201 or 2202 ..... X

Outcome 10- Health

Any course listed in Outcome 10 ..... 2-4

Outcome 11- Interdisciplinary

Met in Outcome 8 with POLI 1100..... X

Outcome 12 - Arts

Any course listed in Outcome 12 ..... 3

Outcome 13 - Humanities

Any course listed in Outcome 13 ..... 3

Outcome 14 - Social Sciences

BSBA 2200 or 2211 or PSYC 1101 or SOCY 1110\* ..... 3

Outcome 15 - Natural Science

PHYS 1101 or 1105 (Physics required to meet certain FAA guidelines for ATP reduction in flight hours).....4-5

Outcome 16 - Cultural Awareness

Any course listed in Outcome 16 ..... 3

Additional General Studies hours ..... 0

Applicants for the B.S. degree in Civil Engineering Technology, Electronics Engineering Technology, Mechanical Engineering Technology, and Occupational Safety must complete the corresponding A.S. degree, or have graduated from high school with at least a 2.75 grade point average and achieved a minimum ACT composite score of 19 (SAT 910).

## PRE-ENGINEERING CURRICULUM

Students planning graduate-level work in engineering should complete the following course work with a B average or better. Students are advised to carefully consult the catalog of the engineering school which they plan to attend, as Fairmont State does not have an articulation agreement with any school of engineering.

CHEM 1105, 2200 CHEMICAL PRINCIPLES , FOUNDATIONAL BIOCHEMISTRY .....	9
ENGL 1101, 1102 WRITTEN ENGLISH I, II.....	6
MATH1540 TRIG. AND ELEMENTARY FUNCTIONS .....	3
MATH2501 CALCULUS I.....	4
MECH 1100 STATICS.....	3
PHED 1100 FITNESS AND WELLNESS .....	2
PHYS 1101, 1102 INTRODUCTION TO PHYSICS I, II.....	8
-OR-	
PHYS 1105, 1106 PRINCIPLES OF PHYSICS I, II.....	8
SOCIAL SCIENCE ELECTIVE.....	3
TECH 1108 ENGINEERING GRAPHICS I.....	

## CIVIL ENGINEERING TECHNOLOGY

The Civil Engineering Technology program is accredited by the Engineering Technology Accreditation Commission of ABET, <http://www.abet.org>. The Civil Engineering Technology program at Fairmont State prepares graduates to participate in the planning, analysis, design, construction, operation and maintenance of roadways, airports, tunnels, bridges, water supply and distribution systems, waste collection and treatment systems. The curriculum is a highly flexible 2 + 2 design; once the two-year associate's degree is earned, graduates may choose to enter the workforce or continue their education with two more years at the baccalaureate level.

## ASSOCIATE OF SCIENCE IN CIVIL ENGINEERING TECHNOLOGY

(ETAC of ABET Accredited) 60 SEM. HRS.

The Associate of Science degree in Civil Engineering Technology provides technical courses in the fundamentals of engineering, surveying, construction materials and methods, computer graphics, civil engineering graphics, construction estimating, structures, and environmental engineering technology. Most of the technical courses provide a combination of lecture and laboratory experiences. In addition, technical courses are underpinned with instruction in mathematics and science, written and oral communication skills, and economics, which are utilized subsequently in the technical courses. Graduates with the Associate of Science degree are qualified for entry-level technical positions in

construction, surveying, engineering and architectural firms; local, state and national government, environmental and public health agencies; state departments of transportation and highways; and private business industry.

### Required Courses (41 hrs.)

CHEM 1101 GENERAL CHEMISTRY I .....	X
CIVL 1100 INTRODUCTION TO CIVIL ENGINEERING TECHNOLOGY.....	1
CIVL 2200 INTRODUCTION TO SURVEYING .....	3
CIVL 2210 LIGHT CONSTRUCTION .....	4
CIVL 2220 CONSTRUCTION MATERIALS AND METHODS .....	4
CIVL 2230 CONSTRUCTION ESTIMATING.....	3
CIVL 2240 LAND & ROUTE SURVEYING.....	3
CIVL 2275 CIVIL ENGINEERING GRAPHICS.....	3
CIVL 2280 ENVIRONMENTAL ENGINEERING TECH I .....	3
CIVL 2290 INTRODUCTION TO STRUCTURES .....	3
TECH 1108 ENGINEERING GRAPHICS.....	3
MATH1510 APPLIED TECHNICAL MATH I .....	X
MATH1520 APPLIED TECHNICAL MATH II .....	3
MECH 1100 STATICS.....	3
MECH 2200 STRENGTH OF MATERIALS.....	4
TECH 2290 ENGINEERING ANALYSIS I.....	4

### • General Studies (19 hrs.)

Choose courses with advisor's approval.

## BACHELOR OF SCIENCE IN ENGINEERING

### TECHNOLOGY: CIVIL ENGINEERING TECHNOLOGY

(ETAC of ABET Accredited).....	120 SEM. HRS.
Civil Engineering Technology Curriculum (see below) ...	82 SEM. HRS.
General Studies Requirements .....	33-34 SEM. HRS.
(See "Degree Requirements" for General Studies requirements not completed through the major)	
Free Electives .....	1-2 SEM. HRS.
Technical Electives .....	3 SEM. HRS.

The B.S.E.T. degree provides students with a greater emphasis on analysis and design with specialized classes in hydraulics and hydrology, soil mechanics and foundation design, structural analysis and design, water and wastewater systems and construction management, coupled with additional courses in science and mathematics, communication, social science and humanities.

Graduates with the Bachelor of Science degree are qualified for an entry-level position as a Civil Engineering Technologist in construction, surveying, engineering, and architectural firms; local, state, and national government, environmental and public health agencies; state departments of transportation and highways; and private business industry. Baccalaureate graduates are eligible to sit for the Fundamentals of Engineering Exam (FE) in West Virginia, the first step to becoming a professional engineer.

- Civil Engineering Technology Curriculum .....82 SEM. HRS.

Required Courses (82 hrs.)

CHEM 1101 GENERAL CHEMISTRY I.....	4
-OR-	
CHEM 1105 CHEMICAL PRINCIPLES .....	5
PHYS 1101 INTRODUCTION TO PHYSICS I .....	4
CHEM 1102 GENERAL CHEMISTRY II.....	4
-OR-	
CHEM 2200 FOUNDATIONAL BIOCHEMISTRY.....	4
CIVL 1100 INTRODUCTION TO CIVIL ENGINEERING TECH.....	1
CIVL 2200 INTRODUCTION TO SURVEYING.....	3
CIVL 2210 LIGHT CONSTRUCTION .....	4
CIVL 2220 CONSTRUCTION MATERIALS.....	4
CIVL 2230 CONSTRUCTION ESTIMATING .....	3
CIVL 2240 LAND & ROUTE SURVEYING.....	3
CIVL 2275 CIVIL ENGINEERING GRAPHICS .....	3
CIVL 2280 ENVIRONMENTAL ENGINEERING TECH I.....	3
CIVL 2290 INTRODUCTION TO STRUCTURES.....	3
CIVL 3305 HYDRAULICS AND HYDROLOGY .....	3
CIVL 3340 SOIL MECHANICS.....	4
CIVL 4400 HIGHWAY DESIGN.....	4
CIVL 4410 ADVANCED STRUCTURAL ANALYSIS .....	3
CIVL 4420 CONSTRUCTION PLANNING & ADMIN .....	3
CIVL 4440 STRUCTURAL DESIGN .....	3
CIVL 4460 ENVIRONMENTAL ENGINEERING TECH II... ..	3
CIVL 4470 ADVANCED SOILS AND FOUNDATION .....	3
MATH1510 APPLIED TECHNICAL MATHEMATICS I .....	X
MATH1520 APPLIED TECHNICAL MATHEMATICS II .....	3
MECH 1100 STATICS.....	X
MECH 2200 STRENGTH OF MATERIALS .....	4
MECH 3320 DYNAMICS .....	3
TECH 1108 ENGINEERING GRAPHICS.....	3
TECH 2290 ENGINEERING ANALYSIS I .....	4
TECH 3300 ENGINEERING ANALYSIS II.....	4

Free Elective (1-2 hrs.)

Choose a course with advisor's approval.

Technical Electives (3)

- General Studies Requirements ..... 33-34 SEM. HRS. (When choices are available, see the full General Studies Curriculum in Appendix A.)

Outcome 1 - Critical Analysis:	
MECH 1100 (Satisfied in Major).....	3
Outcome 2 - Quantitative Literacy:	
MATH 1510 or higher (Required by Major).....	3
Outcome 3 - Written Communication:	
ENGL 1101 (Institutional Requirement) .....	3
Outcome 4 - Teamwork:	
CIVL 2200 (Satisfied in Major) .....	X
Outcome 5 - Information Literacy:	
ENGL 1103 (Institutional Requirement) .....	3
Outcome 6 - Technology Literacy:	
CIVL 2210 (Satisfied in Major) .....	X
Outcome 7 - Oral Communication:	
COMM 2202* .....	3
Outcome 8 - Citizenship:	
HIST 1107* .....	3
Outcome 9 - Ethics:	
CIVL 4420 (Satisfied in Major) .....	X
Outcome 10- Health:	
Any Course in Outcome 10 .....	2
Outcome 11- Interdisciplinary:	
GEOG 2210* or Any Course listed in Outcome 11 .....	3
Outcome 12 - Arts:	
Any course in Outcome 12 .....	3
Outcome 13 - Humanities:	
HIST 1107* or any course listed in Outcome 13 (Met by Outcome 8) ..X	
Outcome 14 - Social Sciences:	
MANF 2205* or any course listed in Outcome 14.....	3
Outcome 15 - Natural Science:	
CHEM 1101 or 1105 .....	(Satisfied in Major) 4-5
Outcome 16 - Cultural Awareness:	
GEOG 2210* or Any course listed in Outcome 16 (Met by Outcome 11).....	X

\* Any course(s) marked with an asterisk (\*) above are recommended to complement the program curriculum; however, students may select any other courses from the approved General Studies list.

## ELECTRONICS ENGINEERING TECHNOLOGY

The Electronics Engineering Technology (EET) program is accredited by the Engineering

Technology Accreditation Commission of ABET,  
<http://www.abet.org>.

The EET program at Fairmont State is a specialized discipline with focus on application, implementation, theory, and applied design. Graduates work in industries that produce and use electrical and electronic equipment; including embedded systems, control systems, instrumentation, telecommunications, and power systems.

## ASSOCIATE OF SCIENCE IN ELECTRONICS ENGINEERING TECHNOLOGY

(ETAC of ABET Accredited) 59-60 SEM. HRS.

The Associate of Science degree in Electronics Engineering Technology (ASEET) emphasizes the practical field knowledge that is required to maintain and troubleshoot existing electrical/electronic systems or to build and test new design prototypes. Once the associate degree is earned, the graduate may choose to enter the workforce or continue studying at the baccalaureate level.

### Required Major Courses (46 hrs.)

ELEC 1100 CIRCUIT ANALYSIS I.....	3
ELEC 1120 AC/DC ELECTRONICS ANALYSIS.....	3
ELEC 2210 CIRCUIT ANALYSIS II.....	3
ELEC 2225 ELECTRONICS DEVICES.....	3
ELEC 2230 DIGITAL ELECTRONICS.....	3
ELEC 2240 INDUSTRIAL ELECTRONICS.....	3
ELEC 2250 AC/DC MACHINERY AND CONTROLS.....	3
ELEC 2280 PROGRAMMABLE CONTROLLERS.....	3
*MATH 1510 APPLIED TECH MATH I or 1530 ALG.....	3
*MATH 1520 APPLIED TECH MATH II or 1540 Trig.....	3
MATH 2501 CALC I or TECH 2290 ENGR ANALY I.....	4
MATH 2502 CALC II TECH 3300 ENGR ANALY II.....	4
PHYS 1101 INTRODUCTION TO PHYSICS I.....	4
PHYS 1102 INTRODUCTION TO PHYSICS II.....	4

\*Students can qualify (depending on ACT/SAT scores) to waive algebra and trigonometry for Calculus. In this case the student will take 6 additional credit hours of mathematics or technical electives.

• Required General Studies Courses.....14 SEM. HRS.

COMM 2202 INTRO. TO COMMUNICATION IN THE

WORLD OR WORK.....	3
ENGL 1101 WRITTEN ENGLISH I.....	3
ENGL 1103 TECH REPORT WRITING.....	3
HEALTH ELECTIVE.....	2-3
TECH ELECTIVE.....	3-6

### BACHELOR OF SCIENCE IN ELECTRONICS ENGINEERING TECHNOLOGY: 120 SEM. HRS.

Curriculum (see below).....	79 SEM. HRS.
General Studies Requirements.....	35-37 SEM. HRS.

(See "Degree Requirements" for General Studies requirements not completed through the major)

Tech Electives 4-6 SEM. HRS.

The Bachelor of Science degree in Electronics Engineering Technology (BSEET) provides students with a greater emphasis on design and analysis, with advanced classes in programmable controllers, linear and microcomputer systems, data acquisition and control systems. An independent senior capstone project and elective options provide focused learning opportunities in technical areas of interest. BSEET graduates can expect to be involved with product design, creating performance requirements, testing, developing maintenance schedules, data analysis, programming PLC's and microcontroller systems.. Baccalaureate graduates are eligible to sit for the Fundamentals of Engineering Exam (FE) in West Virginia, the first step to becoming a professional engineer.

### • Electronics Engineering Technology

#### Required Courses (79 hrs.)

CHEM 1101 GENERAL CHEMISTRY.....	4
COMP 1120 or COMP 1110 C++ or PYTHON.....	3
ELEC 1100 CIRCUIT ANALYSIS I.....	3
ELEC 1120 AC/DC ELECTRONICS ANALYSIS.....	3
ELEC 2210 CIRCUIT ANALYSIS II.....	3
ELEC 2225 ELECTRONICS DEVICES.....	3
ELEC 2230 DIGITAL ELECTRONICS.....	3
ELEC 2240 INDUSTRIAL ELECTRONICS.....	3
ELEC 2250 AC/DC MACHINERY AND CONTROLS.....	3
ELEC 2270 MICROCOMPUTER SYSTEMS.....	3
ELEC 2280 PROGRAMMABLE CONTROLLERS.....	3
ELEC 3300 ADVANCED LINEAR ELECTRONICS.....	3
ELEC 3310 ADVANCED MICROCOMPUTER SYSTEMS.....	3
ELEC 3360 COMMUNICATION SYSTEMS.....	3
ELEC 4401 SENIOR ELECTRONICS PROJECT I (SEP I).....	4

ELEC 4402 SEP II (INTENSIVE WRITING).....	3
ELEC 4410 DATA ACQUISITION & CONTROL SYSTEMS .....	4
ELEC 4420 ADVANCED AUTOMATION CONTROLLERS .....	3
MATH 1510 APPLIED TECHNICAL MATHEMATICS I.....	3
MATH 1520 APPLIED TECHNICAL MATHEMATICS II.....	3
PHYS 1101 INTRODUCTION TO PHYSICS I .....	4
PHYS 1102 INTRODUCTION TO PHYSICS II .....	4
TECH 2290 ENGINEERING ANALYSIS I.....	4
TECH 3300 ENGINEERING ANALYSIS II.....	4

\*Students can qualify (depending on ACT/SAT scores) to waive algebra and trigonometry for Calculus. In this case the student will take 6 additional credit hours of advanced mathematics or technical electives.

TECH Electives (4-6 hrs. from the following list)

BISM 2200 BUSINESS INFORMATION TOOLS .....	3
BISM 2400 OPERATING SYSTEMS CONCEPTS .....	3
BISM 2600 INTRO TO NETWORKING ADMINISTRATION .....	3
BISM 2800 CORPORATE COMMUNICATIONS AND TECH.....	3
COMP 1130 PRINCIPLES OF PROGRAMMING II .....	4
COMP 2200 OBJECT-ORIENTED PROGRAMMING.....	3
COMP 2201 MACHINE ORGANIZATION.....	3
COMP 2220 FUNDAMENTALS OF COMPUTER SECURITY .....	3
MANF 2205 ENGINEERING ECONOMY .....	3
MANF 2250 TOTAL QUALITY & SPC .....	3
MATH 2562 INTRO TO DISCRETE MATHEMATICS .....	3
MATH 3503 CALCULUS III.....	4
MATH 3550 PROBABILITY & STATISTICS.....	3
MATH 3520 LINEAR ALGEBRA .....	3
MATH 3504 DIFFERENTIAL EQUATIONS.....	3
MECH 1100 STATICS.....	3
MECH 2200 STRENGTH OF MATERIALS.....	4
MECH 2210 THERMODYNAMICS I.....	3
MECH 2220 FLUID MECHANICS .....	3
MECH 2240 MACHINE DESIGN I .....	3
SFTY 2250 SAFETY LAW & COMPLIANCE .....	3
TECH 1108 ENGINEERING GRAPHICS I.....	3
TECH 2208 ENGINEERING GRAPHICS II.....	3
TECH 4401 WORK EXPERIENCE LABORATORY .....	8

Note: \*Other technical related courses, not on this list, that meet the goals of the ELEC program, will be considered for credit as a Technical Elective, on a case-by-case basis.

• General Studies Requirements ..... 35-37 SEM. HRS.  
(when choices are available, see the full General Studies Curriculum in Appendix A.)

Outcome 1-Critical Analysis:  
ENGL 1103 (Institutional Requirement)..... 3

Outcome 2-Quantitative Literacy:  
MATH 1510 or MATH 1530 or MATH 2501 (Required by Major) ..... X

Outcome 3-Written Communications:  
ENGL 1102 (Institutional Requirement) ..... 3

Outcome 4-Teamwork:  
Any course in Outcome 4 ..... 3

Outcome 5-Information Literacy:  
ENGL 1103 (Met in Outcome 1) ..... X

Outcome 6-Technology Literacy:  
Any approved course in Outcome 6 ..... 3

Outcome 7-Oral Communications:  
COMM 2202\* ..... 3

Outcome 8-Citizenship:  
HIST 1107 or HIST 1108\* ..... 3

Outcome 9-Ethics:  
Any course in Outcome 9 ..... 3

Outcome 10-Health:  
Any approved course in Outcome 10 ..... 2-4

Outcome 11-Interdisciplinary:  
Any course in Outcome 11 ..... 3

Outcome 12-Arts:  
Any course in Outcome 12 ..... 3

Outcome 13-Humanities:  
HIST 1107 or HIST 1108\* ..... X

Outcome 14-Social Sciences:  
Any Course in Outcome 14 ..... 3

Outcome 15-Natural Science:  
PHYS 1101 (Satisfied in Major)..... X

Outcome 16-Cultural Awareness:  
Any Course in Outcome 16 ..... 3

Any course(s) above are recommended to complement the program curriculum; however, students may select any other courses from the approved General Studies list.

MINOR IN ELECTRONICS  
ENGINEERING TECHNOLOGY ..... 18 SEM. HRS.

Required Courses (18 hrs.)

ELEC 1100 CIRCUIT ANALYSIS I.....	3
ELEC 1120 AC/DC ELECTRONICS ANALYSIS .....	3
ELEC 2210 CIRCUIT ANALYSIS II.....	3
ELEC 2230 DIGITAL ELECTRONICS .....	3
ELEC 2270 INTRO TO MICROCONTROLLER SYSTEMS I.....	3
ELEC 2280 PROGRAMMABLE CONTROLLERS.....	3

MINOR IN AUTOMATION AND ROBOTICS ..... 24 SEM HRS.

Required Courses for Electronics Engineering Technology Majors pursuing this Minor (24 hrs)

COMP 1120 Principles of Programming I.....	3
COMP 1130 Principles of Programming II.....	3
COMP 2201 Machine Organization .....	3
MECH 1100 Statics.....	3
MECH 2200 Strength of Materials .....	3
MECH 2240 Machine Design .....	3
MECH 3320 Dynamics .....	3
TECH 4450 Automation and Robotics.....	3

NOTE: The Automation and Robotics Minor is being offered primarily to those students majoring in Computer Science, Electronics Engineering Technology, or Mechanical Engineering Technology. For these three majors, students will need 24-29 additional hours of courses. For individual students outside of these majors, an estimated 49 hours of courses will be required.

## MECHANICAL ENGINEERING TECHNOLOGY

Mechanical Engineering Technology is a broad and diverse discipline. The program combines rigorous work in technology and engineering with hands-on lab experience. The curriculum is a highly flexible 2 + 2 curriculum. Once the two year degree is earned, graduates may choose to enter the workforce or continue their education with two years at the baccalaureate level. The Associate of Science degree in Mechanical Engineering Technology provides technical courses in the fundamentals of mathematics, science, strength of materials, electronics, computer aided drafting, thermodynamics, fluid mechanics, and machine design. Students are also required to take courses that focus on oral and written communication skills. The Bachelor of Science degree provides students a greater emphasis on analysis and design with classes in heat transfer, thermodynamics, dynamics, and mechanical measurements. In addition, student will complete the universities general studies requirements to form a well-rounded education. Classes are small and students interact one-on-one with highly trained and educated faculty. Professors contribute additional time and effort to give every student the opportunity to succeed.

Students have the opportunity to join the student chapter of the Society of Automotive Engineers (SAE). Students design, fabricate and test a Baja buggy and

compete in the Baja SAE Series each year. Fairmont State also offers funded undergraduate research. The program is accredited by ETAC of ABET.

Graduates are eligible to take the Fundamentals of Engineering Exam as a path to state registration.

## ASSOCIATE OF SCIENCE IN MECHANICAL ENGINEERING TECHNOLOGY

(ETAC of ABET Accredited) 60 SEM. HRS.

The associate of science degree in Mechanical Engineering Technology emphasizes basic engineering concepts. Students concentrate on mathematics and science, written and oral communication skills, and mechanical specialization classes, including drafting, statics, strength of materials, machine design, fluid mechanics and motors/motor controllers. Many of the technical courses provide a combination of lecture and laboratory experiences. Graduates with the associate of science degree are qualified for entry-level positions as technicians, engineering assistants, and engineering aids. Job responsibilities can include a broad range of duties such as the installation, operation, maintenance, troubleshooting and repair of manufacturing equipment and commercial mechanical products.

Required Courses (60 hrs.)

COMM 2200 OR 2201 OR 2202 HUMAN COMMUNICATION .....	3
ELEC 1100 CIRCUIT ANALYSIS I.....	3
ELEC 2250 AC-DC MACHINERY AND CONTROLS.....	3
ENGL 1101 WRITTEN ENGLISH I .....	3
ENGL 1103 TECHNICAL REPORT WRITING .....	3
MANF1100 MATERIALS AND PROCESSES .....	3
MATH1510 APPLIED TECHNICAL MATH I .....	3
MATH1520 APPLIED TECHNICAL MATH II.....	3
MECH 1100 STATICS.....	3
MECH 2200 STRENGTH OF MATERIALS.....	4
MECH 2210 THERMODYNAMICS I.....	3
MECH 2220 FLUID MECHANICS .....	3
MECH 2240 MACHINE DESIGN I.....	3
PHYS 1101 INTRODUCTION TO PHYSICS I.....	4
PHYS 1102 INTRODUCTION TO PHYSICS II.....	4
TECH 2290 ENGINEERING ANALYSIS I.....	4
TECH 1108 ENGINEERING GRAPHICS I .....	3
TECH 2208 ENGINEERING GRAPHICS II .....	3

FREE ELECTIVE ..... 2

## BACHELOR OF SCIENCE IN ENGINEERING TECHNOLOGY:

### MECHANICAL ENGINEERING TECHNOLOGY

(ETAC of ABET Accredited)..... 120 SEM. HRS.

Mechanical Engineering Technology

Curriculum (see below) 83 SEM. HRS.

General Studies Requirements 37 SEM. HRS.

(See "Degree Requirements" for General Studies requirements not completed through the major)

The Bachelor of Science degree provides students with a greater emphasis on design and analysis, with advanced courses in dynamics, thermodynamics, heat transfer, heating/ventilation/air conditioning systems and mechanical measurements. Special emphasis is placed on the practical industrial applications of basic engineering concepts and principles. Graduates with the Bachelor of Science degree are qualified for positions that range from technician up through mechanical engineer. Our graduates have been employed by a broad range of manufacturing companies including aerospace, automotive, chemical, nuclear, and steel, mining, as well as telephone, natural gas, and electric utilities. Baccalaureate graduates are eligible to sit for the Fundamentals of Engineering Exam (FE) in West Virginia, the first step to becoming a professional engineer.

- Mechanical Engineering Technology Curriculum 83 SEM. HRS.

Required Courses (74 hrs.)

CHEM 1101 GENERAL CHEMISTRY I.....	4
COMP 1110 INTRODUCTION TO PROGRAMMING.....	3
ELEC 1100 CIRCUIT ANALYSIS I.....	3
ELEC 2250 AC-DC MACHINERY AND CONTROLS.....	3
MANF1100 MATERIALS AND PROCESSES.....	3
MATH1520 APPLIED TECHNICAL MATHEMATICS II.....	3
MECH 1100 STATICS.....	3
MECH 2200 STRENGTH OF MATERIALS.....	4
MECH 2210 THERMODYNAMICS I.....	3
MECH 2220 FLUID MECHANICS.....	3
MECH 2240 MACHINE DESIGN I.....	3

MECH 3300 THERMODYNAMICS II.....	3
MECH 3320 DYNAMICS.....	3
MECH 3330 HEAT TRANSFER I.....	3
MECH 3340 HEATING, AIR CONDITIONING AND VENTILATION.....	3
MECH 4400 MECHANICAL MEASUREMENTS.....	3
MECH 4410 THERMODYNAMICS III.....	3
MECH 4430 HEAT TRANSFER II.....	3
PHYS 1102 INTRODUCTION TO PHYSICS II.....	4
TECH 1108 ENGINEERING GRAPHICS I.....	3
TECH 2208 ENGINEERING GRAPHICS II.....	3
TECH 2290 ENGINEERING ANALYSIS I.....	4
TECH 3300 ENGINEERING ANALYSIS II.....	4

Electives (Select 9 hrs. from the following list)\*

BISM 2600 INTRODUCTION TO NETWORKING ADMINISTRATION.....	3
CIVL 2200 INTRODUCTION TO SURVEYING.....	3
CIVL 2210 LIGHT CONSTRUCTION.....	3
CIVL 2290 INTRODUCTION TO STRUCTURES.....	3
COMP 1120 PRINCIPLES OF PROGRAMMING I.....	3
COMP 1130 PRINCIPLES OF PROGRAMMING II.....	4
COMP 2200 OBJECT-ORIENTED PROGRAMMING.....	3
COMP 2201 MACHINE ORGANIZATION.....	3
ELEC 2210 CIRCUIT ANALYSIS II.....	3
ELEC 2280 PROGRAMMABLE CONTROLLERS.....	3
MANF2205 ENGINEERING ECONOMY.....	3
MATH1550 APPLIED STATISTICS.....	3
MATH3503 CALCULUS III.....	4
MATH3550 PROBABILITY & STATISTICS.....	3
MATH3520 LINEAR ALGEBRA.....	3
MATH3504 DIFFERENTIAL EQUATIONS.....	3
MECH 3350 NUMERICAL METHODS.....	3
SFTY 1100 SAFETY & ENVIRONMENTAL COMP. OF INDUSTRY.....	3
SFTY 2250 SAFETY LAW & COMPLIANCE.....	3
TECH 3399 ADVANCED PLCS.....	3
TECH 4401 WORK EXPERIENCE LABORATORY.....	8

\*Other technical related courses, not on this list, that meet the goals of the MECH program, will be considered for credit as a Technical Elective, on a case-by-case basis.

- General Studies Requirements .....37 SEM.HRS.  
(when choices are available, see the full General Studies Curriculum in Appendix A.)

Outcome 1-Critical Analysis:

MECH 1100 (Satisfied in major)..... X

Outcome 2-Quantitative Literacy:

MATH 1510 (PR for MATH 1520)..... 3

Outcome 3-Written Communications:

ENGL 1101 (Institutional Requirement) ..... 3

Outcome 4-Teamwork:	
MECH 4430 (Satisfied in Major).....	X
Outcome 5-Information Literacy:	
ENGL 1102 (Institutional Requirement).....	3
Outcome 6-Technology Literacy:	
TECH	
1100* .....	3
Outcome 7-Oral Communications:	
COMM 2200 or 2201 or 2202* .....	3
Outcome 8-Citizenship:	
HIST 1107 or 1108* .....	3
Outcome 9-Ethics:	
COMM 2200 or 2201 or 2202* (Satisfied in Outcome 7) .....	X
Outcome 10-Health:	
PHED 1100* .....	2
Outcome 11-Interdisciplinary:	
Any course listed in Outcome 11.....	3
Outcome 12-Arts:	
Any course in Outcome 12 .....	3
Outcome 13-Humanities:	
HIST 1107 or 1108* (Satisfied in Outcome 8).....	X
Outcome 14-Social Sciences:	
BSBA 2200* .....	3
Outcome 15-Natural Science:	
PHYS 1101 (PR for PHYS 1102).....	4
Outcome 16-Cultural Awareness:	
Any Course in Outcome 16.....	3
Additional General Studies	
MECH 4400 (WIC- Satisfied in Major) .....	X
Free Elective .....	1

\* Any course(s) marked with an asterisk (\*) above are recommended to complement the program curriculum; however, students may select any other courses from the approved General Studies list.

**MINOR IN AUTOMATION AND ROBOTICS .....24 SEM HRS.**

Required Courses for Mechanical Engineering Technology Majors pursuing this Minor (24 hrs)

COMP 1120 Principles of Programming I .....	3
COMP 1130 Principles of Programming II .....	3
ELEC 1120 AC/DC Electronics Analysis .....	3
ELEC 2230 Digital Electronics .....	3
ELEC 2270 Microcomputers.....	3
ELEC 2280 Programmable Controllers.....	3
ELEC 4420 Advanced Automation Controller Systems.....	3
TECH 4450 Automation and Robotics.....	3

NOTE: the Automation and Robotics Minor is being offered primarily to those students majoring in Computer Science, Electronics Engineering Technology, or Mechanical Engineering Technology. For these three majors, students will need 24-29 additional hours of

courses. For individual students outside of these majors, an estimated 49 hours of courses will be required.

## OCCUPATIONAL SAFETY

The Occupational Safety program is accredited by the Applied Science Accreditation Commission of ABET, <http://www.abet.org>. The Occupational Safety program prepares competent professionals who serve as valued members of the management, engineering, and business team providing solutions to complex safety/environmental problems. This program focuses on principles drawn from engineering technology, health, physics, math, psychology, language and speech. Hands-on applications of these principles are emphasized through preparatory and professional courses. Preparatory courses include math, chemistry, physics, human anatomy, statistics, speech, written composition and psychology. Professional courses include industrial hygiene and toxicology, safety engineering and design, systems safety, safety and environmental law, fire prevention, ergonomics, environmental hazard control, OSHA compliance, and program management. Computer skills and experiential learning is heavily emphasized, including laboratory activities, industrial projects and/or internships. Internships may be paid or unpaid and can include academic credit.

The curriculum is a highly flexible 2 + 2 curriculum. Once the two-year degree is earned, graduates may choose to enter the workforce or continue their education with two additional years at the baccalaureate level. The need for Safety/Environmental professionals will continue to grow in response to industry needs. Major employers of our graduates include oil/gas, mining, manufacturing, construction, and insurance companies in the private sector. State and Federal governments also seek safety graduates striving to enhance public health and employee well-being. Increased emphasis on ergonomics, hazardous waste, accident costs, workers' compensation, regulatory compliance, and health hazard control requires the expertise of competent safety professionals.

### ASSOCIATE OF SCIENCE IN SAFETY

ENGINEERING TECHNOLOGY ..... 60 SEM. HRS.

Required Courses (60 hrs.)

BIOL 1180 & 1181 HUMAN ANATOMY & PHYSIOLOGY.....	4
CHEM 1101 GENERAL CHEMISTRY I.....	4
CHEM 1102 GENERAL CHEMISTRY II.....	4
COMM 2200 OR 2201 OR 2202.....	3
ENGL 1101 WRITTEN ENGLISH I.....	3
ENGL 1102 WRITTEN ENGLISH II.....	3
MATH1510 APPLIED TECHNICAL MATH I.....	3
MATH1520 APPLIED TECHNICAL MATH II.....	3
PHYS 1101 INTRODUCTION TO PHYSICS I.....	4
SCIE 1100 HUMAN BIOLOGY.....	4
SFTY 1100 SAFETY AND ENVIRONMENTAL COMP. OF INDUSTRY... 3	
SFTY 1150 SAFETY MANAGEMENT AND CONCEPTS IN ACCIDENT PREVENTION.....	3
SFTY 2250 SAFETY LAW AND COMPLIANCE.....	3
SFTY 2280 CONSTRUCTION SAFETY & LAW.....	3
SFTY 2290 INDUSTRIAL HYGIENE AND TOXICOLOGY.....	4
SFTY 2291 ENVIRON. ENGR. TECHNOLOGY: HAZARDOUS WASTE...4	
SFTY 3360 FIRE PREVENTION.....	3
TECHNICAL ELECTIVE.....	2

**BACHELOR OF SCIENCE:**

OCCUPATIONAL SAFETY.....	120 SEM. HRS.
Occupational Safety Curriculum (see below).....	81 SEM. HRS.
General Studies Requirements.....	31 SEM. HRS.
(See "Degree Requirements" for General Studies requirements not completed through the major)	
Electives.....	8 SEM. HRS.
• Occupational Safety Curriculum.....	81 SEM. HRS.

**Required Courses (81 hrs.)**

BIOL 1180 & 1181 Human Anatomy & Physiology.....	4
BSBA 3306 BUSINESS LAW I.....	3
CHEM 1102 GENERAL CHEMISTRY II.....	4
MANF2250 Total Quality & SPC.....	3
MATH1520 APPLIED TECHNICAL MATHEMATICS II.....	3
MATH1550 APPLIED STATISTICS.....	3
MECH 1100 STATICS.....	3
PHYS 1101 INTRODUCTION TO PHYSICS I.....	4
PHYS 1102 INTRODUCTION TO PHYSICS II.....	4
SCIE 1100 HUMAN BIOLOGY.....	4
SFTY 1100 SAFETY & ENVIRON. COMPONENTS OF INDUSTRY... ..	3
SFTY 1150 SAFETY MGT. & CONCEPTS IN ACCIDENT PREV.....	3
SFTY 2250 SAFETY LAW & COMPLIANCE.....	3
SFTY 2280 CONSTRUCTION SAFETY & LAW.....	3
SFTY 2290 INDUSTRIAL HYGIENE AND TOXICOLOGY.....	4
SFTY 2291 ENVIRONMENTAL ENGR. TECH.: HAZ. WASTE.....	4
SFTY 3300 INDUSTRIAL HYGIENE APPLICATIONS AND PRACTICES..	4

SFTY 3310 ERGONOMICS & HUMAN FACTORS.....	3
SFTY 3355 AIR AND WATER POLLUTION.....	3
SFTY 3360 FIRE PREVENTION.....	3
SFTY 4415 SAFETY INTERNSHIP.....	3
SFTY 4400 SAFETY ENGINEERING DESIGN.....	3
SFTY 4420 SYSTEM SAFETY AND MANAGEMENT.....	3
SFTY 4480 APPLICATION OF SAFETY STRATEGIES.....	4

**Electives (8 hrs.)**

BISM 2800 CORPORATE COMMUNICATIONS AND TECHNOLOGY...3	
BSBA 2209 PRINCIPLES OF MANAGEMENT.....	3
BSBA 3307 BUSINESS LAW II.....	3
BSBA 3319 EMPLOYMENT LAW.....	3
CHEM 2201 ORGANIC CHEMISTRY.....	4
ELEC 1100 CIRCUIT ANALYSIS I.....	3
ELEC 2210 CIRCUIT ANALYSIS II.....	3
MANF1100 MATERIALS & PROCESSES.....	3
MANF2205 ENGINEERING ECONOMY.....	3
MATH1585 APPLIED CALCULUS I.....	4
MATH1586 APPLIED CALCULUS II.....	4
MECH 2200 STRENGTH OF MATERIALS.....	3
MGMT 3308 HUMAN RESOURCES MANAGEMENT.....	3
MGMT 3370 COMPENSATION AND BENEFITS.....	3
MGMT 3371 EMPLOYEE RELATIONS.....	3
MGMT 3372 HUMAN RESOURCES SELECTION AND EVALUATION...3	
MGMT 3390 ORGANIZATIONAL BEHAVIOR.....	3
SFTY 2210 DISASTER PREPAREDNESS.....	3
SPAN 1101 ELEMENTARY SPANISH I.....	3
SPAN 1102 ELEMENTARY SPANISH II.....	3
TECH 2290 ENGINEERING ANALYSIS I.....	4
TECH 3300 ENGINEERING ANALYSIS II.....	4

• General Studies Requirements.....36 SEM. HRS.  
(When choices are available, see the full General Studies  
Curriculum in Appendix A.)

**Outcome 1 - Critical Analysis:**

ENGL 1102 (Institutional Requirement).....	3
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**Outcome 2 - Quantitative Literacy:**

MATH 1510 (PR for MATH 1102).....	3
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**Outcome 3 - Written Communication:**

ENGL 1101 (Institutional Requirement).....	3
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**Outcome 4 - Teamwork:**

SFTY 4480 (Satisfied in Major).....	X
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**Outcome 5 - Information Literacy:**

ENGL 1102 (Met in Outcome 1).....	X
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**Outcome 6 - Technology Literacy:**

SFTY 3300 (Satisfied in Major) (Writing Intensive Course).....	X
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**Outcome 7 - Oral Communication:**

COMM 2202(PREFERRED), 2200, 2201*.....	3
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**Outcome 8 - Citizenship:**

Any Course listed in Outcome 8 .....	3
Outcome 9 - Ethics:	
MANF 2250* (Satisfied in Major) .....	3
Outcome 10- Health:	
SCIE 1100 (Satisfied in Major).....	2
Outcome 11- Interdisciplinary:	
SFTY 4480 (Satisfied in Major) .....	X
Outcome 12 - Arts:	
Any course listed in Outcome 12.....	3
Outcome 13 - Humanities:	
Any course listed in Outcome 13.....	3
Outcome 14 - Social Sciences:	
PSYC 1101* .....	3
Outcome 15 - Natural Science:	
CHEM 1101 (PR for CHEM 1102) .....	4
Outcome 16 - Cultural Awareness:	
Any course listed in Outcome 16.....	3

\* Any course(s) marked with an asterisk (\*) above are recommended to complement the program curriculum; however, students may select any other courses from the approved General Studies list.

Technology Electives (advisor approved) (8 hrs)

MINOR IN OCCUPATIONAL SAFETY ..... 23-24 SEM. HRS.

Required Courses (20 hrs.)

SFTY 1100 SAFETY & ENVIRONMENTAL COMP. OF INDUSTRY... ..	3
SFTY 1150 SAFETY MGT. & CONCEPTS IN ACCIDENT PREVENTION..	3
SFTY 2250 SAFETY LAW & COMPLIANCE .....	3
SFTY 3360 FIRE PREVENTION .....	3
SFTY 2290 INDUSTRIAL HYGIENE AND TOXICOLOGY .....	4
SFTY 2291 ENVIRONMENTAL ENGINEERING TECHNOLOGY: HAZARDOUS WASTE .....	4

Electives (3-4 hrs.)

PHED 2211 ANATOMY AND PHYSIOLOGY .....	4
MATH1550 APPLIED STATISTICS .....	3
MECH 1100 STATICS .....	3
PSYC 2240 STATISTICS.....	4

**TECHNOLOGY**

MINOR IN TECHNOLOGY..... 23 SEM. HRS.

Required Courses (15 hrs.)

ELEC 1100 CIRCUIT ANALYSIS I.....	3
TECH 1108 ENGINEERING GRAPHICS I.....	3
MANF1100 MATERIALS AND PROCESSES .....	3
MANF2250 TOTAL QUALITY AND SPC.....	3
SFTY 1100 SAFETY & ENVIR COMPONENTS OF INDUSTRY .....	3

Electives (8 hrs.)

# Department of Architecture

## + Graphics

**Philip M. Freeman, AIA, NCARB, Department Chair**  
 404 Engineering Technology Building  
 (304) 367-4237  
 Philip.Freeman@fairmontstate.edu

### FACULTY

FREEMAN, PHILIP M., AIA, NCARB (2003)  
 Associate Professor of Architecture

KELLY, ROBERT L., AIA, NCARB (2015)  
 Associate Professor of Architecture

MORPHEW, KIRK L., AIA, NCARB, LEED AP  
 BD+C (2000)  
 Professor of Architecture

SICKMAN, KATIE (2018)  
 Assistant Professor of Graphic Design Technology

### ARCHITECTURE

The B.S. in Architecture provides a sound basis for the pursuit of general knowledge and the first phase of a professional education for the general practice of architecture. The four-year program encompasses a foundation core of design, introductory studies in architectural history and theory, and building technology. Advanced design studios address methodology, and technological and theoretical synthesis through applied studies of a wide range of design inquiries and projects. Successful completion of the degree will prepare students to enter the profession at a more advanced level or pursue a graduate degree from an NAAB-accredited school of architecture. Graduates with the baccalaureate degree are qualified for entry-level positions such as designer or architectural technician. They may be employed in architectural offices, engineering offices, corporations or businesses which produce their own in-house construction documents, and construction-related fields.

### ASSOCIATE OF SCIENCE IN ARCHITECTURAL

### ENGINEERING TECHNOLOGY 60 SEM. HRS.

The associate degree in Architectural Engineering Technology provides students with a basic understanding of the history of architectural design and the entry-level drafting and communication skills required in order to work in a design/drafting office. Graduates with the associate of science degree are qualified for entry-level technical positions in architectural or engineering offices, firms related to architecture, or other businesses requiring in-house planning and drafting.

#### Required Courses (32 hrs.)

ARCH 1000 DESIGN FUNDAMENTALS I.....	4
ARCH 1050 DESIGN FUNDAMENTALS II.....	4
ARCH 2000 DESIGN I: FOUNDATION .....	4
ARCH 2010 ARCHITECTURAL HISTORY I.....	3
ARCH 2020 ARCHITECTURAL HISTORY II.....	3
ARCH 2050 DESIGN II: FOUNDATION .....	4
ARCH 2060 BUILDING TECHNOLOGY I.....	4
MATH1540 TRIGONOMETRY.....	3
MECH 1100 STATICS.....	3

#### • General Studies Outcomes (24 hrs.)

Outcome 1 - Critical Analysis	
MECH 1100 (Satisfied in Major).....	X
Outcome 2 - Quantitative Literacy	
MATH 1530* .....	3
Outcome 3 - Written Communication	
ENGL 1101 (Institutional Requirement) .....	3
Outcome 4 - Teamwork	
ARCH 3000 (Satisfied in Major) .....	X
Outcome 5 - Information Literacy	
ENGL 1102 (Institutional Requirement) .....	3
Outcome 6 - Technology Literacy	
ARCH 2060 (Satisfied in Major) .....	X
Outcome 7 - Oral Communication	
ARCH 2060 (Satisfied in Major) .....	X
Outcome 8	
Any course listed in Outcome 8 .....	3
Outcome 9 - Ethics	
Any course listed in Outcome 9 .....	3
Outcome 10- Health & Well-being	
PHED 1100* .....	2
Outcome 11- Interdisciplinary & Lifelong Learning .....	X
Outcome 12 - Art Appreciation	
ART 1120* .....	3
Outcome 13 - Humanities .....	X

Outcome 14 - Social Sciences .....	X
Outcome 15 - Natural Sciences	
PHYS 1101 (Required by Major) .....	4
Outcome 16 - Cultural Awareness & Human Dignity .....	X

\* Any course(s) marked with an asterisk (\*) above are recommended to complement the program curriculum; however, students may select any other courses from the approved General Studies list.

• Free Electives.....4 SEM. HRS.

**BACHELOR OF SCIENCE**

IN ARCHITECTURE .....	126 SEM. HRS.
Architecture Curriculum (see below).....	71 SEM. HRS.
General Studies Requirements .....	36 SEM. HRS.
Program Electives.....	19 SEM. HRS.

(See "Degree Requirements" for General Studies requirements not completed through the major)

The B.S. in Architecture provides a sound basis for the pursuit of general knowledge and the first phase of a professional education for the general practice of architecture. The four-year program encompasses a foundation core of design, introductory studies in architectural history and theory, and building technology. Advanced design studios address methodology, and technological and theoretical synthesis through applied studies of a wide range of design inquiries and projects. Successful completion of the degree will prepare students to enter the profession at a more advanced level or pursue a graduate degree from an NAAB-accredited school of architecture. Graduates with the baccalaureate degree are qualified for entry-level positions such as designer or engineering technician. They may be employed in architectural offices, engineering offices, corporations or businesses which produce their own in-house construction documents, and construction-related fields.

• Architecture Curriculum .....71 SEM. HRS.

**Required Courses (71 hrs.)**

ARCH 1000 DESIGN FUNDAMENTALS I .....	4
ARCH 1050 DESIGN FUNDAMENTALS II .....	4
ARCH 2000 DESIGN I: FOUNDATION.....	4
ARCH 2010 ARCHITECTURAL HISTORY I .....	3
ARCH 2020 ARCHITECTURAL HISTORY II .....	3

ARCH 2050 DESIGN II: FOUNDATION .....	4
ARCH 2060 BUILDING TECHNOLOGY I .....	4
ARCH 3000 DESIGN III: SITE .....	6
ARCH 3050 DESIGN IV: URBAN.....	6
ARCH 4000 DESIGN V: TECHNOLOGY .....	6
ARCH 4030 MECHANICAL AND ELECTRICAL SYSTEMS .....	4
ARCH 4050 DESIGN VI: DESIGN/BUILD.....	6
ARCH 4060 BUILDING TECHNOLOGY II.....	4
CIVL 2290 INTRODUCTION TO STRUCTURES .....	3
MATH 1540 TRIGONOMETRY.....	3
MECH 1100 STATICS.....	3
MECH 2200 STRENGTH OF MATERIALS.....	4

**Program Electives (19 hrs.)**

(Choose in consultation with advisor)

ARCH 3001 COMMUNITY DESIGN ASSISTANCE CENTER .....	3
ARCH 3010 SUSTAINABLE DESIGN.....	3
ARCH 3080 ARCHITECTURAL PRACTICE PROGRAM I .....	1-3
ARCH 3085 ARCHITECTURE STUDY + TRAVEL .....	3
ARCH 4001 COMMUNITY DESIGN ASSISTANCE CENTER- MANAGEMENT .....	3
ARCH 4080 ARCHITECTURAL PRACTICE PROGRAM II.....	1-3
ART 1140 DESIGN I: 2D.....	3
ART 1141 DESIGN II: 3D.....	3
ART 1142 DRAWING I: FOUNDATIONS OF DRAWING.....	3
ART 2241 DRAWING II: DRAWING FROM LIFE .....	3
[PR: ART 1140 + ART 1142]	
ART 2245 E. FOUNDATIONS .....	3
ART 2261 PAINTING I: FOUNDATIONS OF PAINTING.....	3
[PR: ART 1140 + ART 1142]	
ART 2283 SCULPTURE I: FOUNDATIONS OF SCULPTURE.....	3
[PR: ART 1141]	
ART 2284 SCULPTURE II.....	3
[PR: ART 2283]	
ART 3341 PRINTMAKING I .....	3
[PR: ART 1140 + ART 1142]	
ART 3342 PRINTMAKING II .....	3
[PR: ART 3341]	
ART 3345 E. INTERMEDIATE .....	3
[PR: ART 2245]	
ART 3363 INTERMEDIATE WATER MEDIA I .....	3
[PR: ART 1141 + ART 2241]	
ART 3364 ADVANCED WATER MEDIA II.....	3
[PR: ART 3363]	
ART 3374 ART HISTORY FROM PREHISTORY TO 1450 .....	3
[PR: ENGL 1102]	
ART 3376 ART HISTORY FROM 1450 TO 1750 .....	3
[PR: ENGL 1102]	
ART 3378 ART HISTORY FROM 1750 TO 1950 .....	3

	[PR: ENGL 1102]	
ART 3380	ART HISTORY SINCE 1950 .....	3
	[PR: ENGL 1102]	
ART 3383	POTTERY I.....	2-3
ART 3384	POTTERY II.....	2-3
	[PR: ART 3383]	
ART 4445	E. ADVANCED .....	3
	[PR: ART 3345]	
ART 4464	POTTERY III.....	3
	[PR: ART 3384]	
ART 4465	SCULPTURE III .....	3
	[PR: ART 2284]	
BSBA 2204	PRINCIPLES OF MARKETING.....	3
BSBA 2209	PRINCIPLES OF MANAGEMENT .....	3
BSBA 3306	BUSINESS LAW I.....	3
CIVL 2200	INTRODUCTION TO SURVEYING.....	3
	[INSTRUCTOR PERMISSION]	
GRFX 1111	IMAGING I FOUNDATIONS .....	3
GRFX 1113	MULTIMEDIA CONCEPTS .....	3
GRFX 1220	MASTER DOCUMENT/DESIGN.....	3
	[PR: GRFX 1111]	
GRFX 1222	INTERNET ANIMATION.....	3
GRFX 2121	GRAPHIC DESIGN I FOUNDATIONS .....	3
	[PR: GRFX 1220]	
GRFX 2123	PHOTOGRAPHY I FOUNDATIONS .....	3
GRFX 2125	HISTORY OF GRAPHIC DESIGN .....	3
GRFX 2220	INFORMATION GRAPHICS.....	3
	[PR: GRFX 1111]	
GRFX 2222	TYPOGRAPHY I FOUNDATIONS.....	3
	[PR: GRFX 1220]	
GRFX 3131	MOTION GRAPHICS I.....	3
	[PR: GRFX 1222]	
GRFX 3133	TYPOGRAPHY II / BRANDING AND IDENTIFY DESIGN.....	3
	[PR: GRFX 2222]	
GRFX 3230	INTERACTIVE AND MULTIMEDIA DESIGN.....	3
	[PR: GRFX 1222]	

• General Studies Requirements .....36 SEM. HRS.  
(When choices are available, see the full General Studies Curriculum in Appendix A.)

Outcome 1 - Critical Analysis:	
MECH 1100 (Satisfied in Major).....	X
Outcome 2 - Quantitative Literacy:	
MATH 1530* .....	3
Outcome 3 - Written Communication:	
ENGL 1101 (Institutional Requirement).....	3
Outcome 4 - Teamwork:	
ARCH 3000 (Satisfied in Major).....	X

Outcome 5 - Information Literacy:	
ENGL 1102 (Institutional Requirement) .....	3
Outcome 6 - Technology Literacy:	
Technology Literacy Elective (Satisfied in Major) .....	X
Outcome 7 - Oral Communication:	
ARCH 4000 (Satisfied in Major) .....	X
Outcome 8 - Citizenship:	
Any Course listed in Outcome 8.....	3
Outcome 9 - Ethics:	
Any Course listed in Outcome 9.....	3
Outcome 10- Health:	
PHED 1100* .....	2
Outcome 11- Interdisciplinary:	
Any Course listed in Outcome 11.....	3
Outcome 12 - Arts:	
ART 1120* .....	3
Outcome 13 - Humanities:	
Any course listed in Outcome 13 .....	3
Outcome 14 - Social Sciences:	
Any Course listed in Outcome 14.....	3
Outcome 15 - Natural Science:	
PHYS 1101 (Required by Major).....	4
Outcome 16 - Cultural Awareness:	
Any course listed in Outcome 16 .....	3

\* Any course(s) marked with an asterisk (\*) above are recommended to complement the program curriculum; however, students may select any other courses from the approved General Studies list.

## GRAPHIC DESIGN TECHNOLOGY

The Graphic Design Technology (GDT) program at Fairmont State prepares students for careers in the expanding graphic design industry and graduate studies.

The Bachelor of Science degree provides students with a program structure that includes design, conceptual thinking and current technology for 1) print, packaging and digital delivery; 2) interactive and multimedia design, including responsive web site design; and 3) motion graphics including studies in kinetic typography. The program objective is for our students to be proficient in these skills and compete for professional positions upon graduation or further studies in graduate programs.

Graduates from our GDT program are qualified for entry-level positions as Art Directors, Web Designers, and Multi-Multimedia artists and animators. According to the December 2015 US Bureau of Labor Statistics, these starting positions range in salary from about \$64K to \$89K and the projected growth is on

par with the national average of six percent. Some recent reports have web designers projected higher due to the growing need in many fields for this expertise. Graduates may also pursue further study in animation for careers in commercials, television, video game design, and feature films. Post-Graduate studies in the visual communication field could lead to university-level teaching positions.

**BACHELOR OF SCIENCE IN GRAPHIC DESIGN TECHNOLOGY 120 SEM. HRS.**

Curriculum (see below)..... 73 SEM. HRS.  
 General Studies Requirements ..... 35-37 SEM. HRS.  
 Free Electives 10-12 SEM. HRS.

**Required Courses (73 hrs.)**

ARCH 1000	DESIGN FUNDAMENTALS I	4
ART 1141	DESIGN II: 3D	3
ART 3380	ART HISTORY SINCE 1950	3
COMP 1110	INTRODUCTION TO PROGRAMMING	3
GRFX 1111	IMAGING I FOUNDATION	3
GRFX 1113	MULTIMEDIA CONCEPTS	3
GRFX 1220	MASTER DOCUMENT / DESIGN	3
GRFX 1222	INTERNET ANIMATION	3
GRFX 2121	GRAPHIC DESIGN I FOUNDATION	3
GRFX 2123	PHOTOGRAPHY I FOUNDATION	3
GRFX 2125	HISTORY OF GRAPHIC DESIGN	3
GRFX 2220	INFORMATION GRAPHICS	3
GRFX 2222	TYPOGRAPHY I FOUNDATION	3
GRFX 3131	MOTION GRAPHICS I	3
GRFX 3133	TYPOGRAPHY II / BRANDING AND IDENTITY DESIGN.....3	
GRFX 3230	INTERACTIVE AND MULTIMEDIA DESIGN	3
GRFX 3232	PHOTOGRAPHY II STUDIO & VIDEO TECH	3
GRFX 3234	MULTIPAGE DOCUMENTS AND DESIGN	3
GRFX 4141	GRAPHIC DESIGN SENIOR SEMINAR	3
GRFX 4143	MOTION GRAPHICS II	3
GRFX 4145	EXHIBITION DESIGN & DEVELOPMENT / SENIOR SHOW	3
GRFX 4240	GRAPHIC DESIGN APPLIED THEORY	3
GRFX 4242	CAREER AND PORTFOLIO DEVELOPMENT	3
GRFX 4244	SENIOR INTERNSHIP	3

• General Studies Requirements ..... 35-37 SEM.HRS.  
 (when choices are available, see the full General Studies Curriculum in Appendix A.)

Outcome 1 - Critical Analysis	
ENGL 1102 (Institutional Requirement).....	3
Outcome 2 - Quantitative Literacy	
MATH 1510 or MATH 1507 or MATH 1530 .....	3

Outcome 3 - Written Communication	
ENGL 1101 (Institutional Requirement) .....	3
Outcome 4 - Teamwork	
COMM 2200(* .....	3
Outcome 5 - Information Literacy	
ENGL 1102 (Met in Outcome 1) .....	X
Outcome 6 - Technology Literacy	
ART 2245 (Required by Major).....	3
Outcome 7 - Oral Communication	
COMM 2200* (Met in Outcome 4).....	X
Outcome 8 - Citizenship	
HIST 1107 or 1108* .....	3
Outcome 9 - Ethics	
SOCY 1110* .....	3
Outcome 10- Health	
HLTA 1100 OR PHED 1100* .....	2
Outcome 11- Interdisciplinary	
POLI 1100 OR INTR 3330 OR SOCY 2200* .....	3
Outcome 12 - Arts	
ART 3378 (Graduate programs typically look for three art history courses for GDT students).....	3
Outcome 13 - Humanities	
HIST 1107 OR HIST 1108* (Met in Outcome 8) .....	X
Outcome 14 - Social Sciences	
SOCY 1110* (Met in Outcome 9) .....	X
Outcome 15 - Natural Science	
Any Course in Outcome 15 .....	3-5
Outcome 16 - Cultural Awareness	
GEOG 3305 OR GEOG 3315* .....	3

\* Any course(s) marked with an asterisk (\*) above are recommended to complement the program curriculum; however, students may select any other courses from the approved General Studies list.

**MINOR IN GRAPHIC DESIGN TECHNOLOGY.....21 SEM HRS.**

Required Courses (18 hrs.)

GRFX 1111	Imagine I Foundations	3
GRFX 1220	Master Document/Design.....	3
GRFX 1222	Internet Animation .....	3
GRFX 2121	Graphic Design I Foundations .....	3
GRFX 2222	Typography I Foundations.....	3
GRFX 3230	Interactive & Multimedia Design.....	3

Elective Courses: select one. (3 hrs.)

GRFX 1113	Multimedia Concepts.....	3
GRFX 2125	History of Graphic Design .....	3
GRFX 2123	Photography I Foundations .....	3
GRFX 4242	Career and Portfolio Development.....	3

**MINOR IN GAME DESIGN .....**26 SEM HRS.  
 Required courses (26 hrs.)

GRFX 1113	Multimedia Concepts.....	3
GRFX 1222	Internet Animation.....	3
COMP 1120	Principles of Programming I.....	3
COMP 1130	Principles of Programming II.....	4
GRFX 3131	Motion Graphics I.....	3
GRFX 4143	Motion Graphics II.....	3
COMP/GRFX 2203	Introduction to Game Principles.....	3
COMP/GRFX 4460	Game Design and Implementation.....	4

# Programs of Study

## School of Business

Dr. Tim Oxley, Interim Dean  
111 Jaynes Hall / (304) 367-4239  
FAX: (304) 367-4613  
Timothy.Oxley@fairmontstate.edu

### FACULTY

ALVAREZ, RAYMOND M.  
Visiting Professor

CASELL, MACGORINE (1992)  
Professor of Business Administration

DAVIS, JIM (2016)  
Assistant Professor of Business Administration

ENGBRETSON, JEAN CPA (2008)  
Professor of Accounting

EDWARDS, GARY (2017)  
Visiting Assistant Professor in Information Systems

FANTASIA, GINA (2011)  
Associate Dean, School of Business  
Associate Professor of Business  
Graduate Faculty

FISHER, MARCUS (2015)  
Assistant Professor of Information  
Systems Management

FLOYD, JANET L. (2014)  
Assistant Professor of Business Administration

FRAZER, JASON (2017)  
Instructor of Economics/Finance

GIORCELLI, REBECCA (2005)  
Associate Dean, School of Business  
Professor of Information Systems Management

Graduate Faculty

GODFREY, AMY F. (2012)  
Associate Professor of Economics

HARVEY, RICHARD (1988)  
Provost and VP of Academic Affairs  
Professor of Finance/Business Law  
Graduate Faculty

HINTON, GREGORY T. (1989)  
Professor/Senior Level: Business Law

JACKSON, CLIFF (2017)  
Assistant Professor of Information Systems

KREMER, JOSEPH (2012)  
Associate Professor of Finance  
Graduate Faculty

MATHEW, JESSICA (2015)  
Assistant Professor of Accounting

MUTO, LEISA, CPA (2014)  
Associate Professor of Accounting

OXLEY, TIMOTHY (2008)  
Interim Dean, School of Business  
Vice President for Student Services  
Professor of Business

SURENDRAN, SUNIL (1994)  
MBA Program Director  
Professor of Marketing and Management  
Graduate Faculty

TASKER, ASHLEY (2014)  
Assistant Professor of Business Administration

TUSCAN, AMANDA (2015)  
Academic Advisor

WEAVER, ROBERT C. (1988)  
Coordinator of Management and Marketing  
Associate Professor of Management and Marketing

### INTRODUCTION

The School of Business offers Bachelor of Science Degrees in Accounting, Business Administration, Healthcare Management and Information Systems Management. Concentrations within the Business Administration degree include: Management, Finance, Business, and Marketing.

School of Business Degree recipients are not required to select a minor field of study, but may do so. Students must consult the Catalog or their advisor when selecting a minor. BSBA 2200 - Economics cannot be substituted for Principles of Macroeconomics (BSBA 2211) in meeting the School's major requirements.

Courses offered by the School of Business may be found under the headings of Accounting, Business, Economics, Finance, Healthcare Management, (Business) Information Systems Management, Management and Marketing. All courses may not be offered each semester; therefore, students are urged to consult with their advisor in course scheduling. Course rotation schedules are available in the Business School office, as well as on its website.

## ACCOUNTING

The accounting curriculum has been designed to offer an integrated educational experience in the sub-disciplines of financial accounting, managerial accounting, taxation, information systems, and auditing. The accounting degree provides students with traditional technical accounting skills, as well as expanded skills in analytical reasoning, problem solving, use of technology, and oral and written communication. Students are prepared to succeed in careers with public accounting firms, corporations, and non-profit organizations.

Individuals applying for licensure in West Virginia must have completed a total of 150 semester hours of post-secondary education and have received a bachelor's degree or higher from a college or university recognized by the West Virginia State Board of Accountancy. The total education program shall include an accounting concentration and business courses defined by the WVSBOA. The 150 credit hour program is available through the School of Business. Students wishing to become licensed Certified Public Accountants should meet with their advisor early in the program to structure course work in compliance with the WVSBOA requirements.

### BACHELOR OF SCIENCE IN ACCOUNTING 120 SEM. HRS.

Business Core .....	45 SEM. HRS.
Accounting Curriculum (see below).....	36 SEM. HRS.
General Studies Requirements (see below) .....	33 SEM. HRS.
Free Electives 6 SEM. HRS.	

#### • Business Core..... 45 SEM. HRS.

BSBA 2201 PRINCIPLES OF ACCOUNTING I .....	3
BSBA 2202 PRINCIPLES OF ACCOUNTING II .....	3
BISM 2200 BUSINESS INFORMATION TOOLS .....	3
BISM 2800 CORPORATE COMMUNICATIONS AND TECHNOLOGY ...	3
BISM 3200 MANAGEMENT INFORMATION SYSTEMS .....	3
BSBA 3306 BUSINESS LAW I.....	3
BSBA 3310 BUSINESS AND ECONOMIC STATISTICS .....	3
BSBA 3320 INTERNATIONAL BUSINESS .....	3
BSBA 4415 STRATEGIC MANAGEMENT AND POLICY.....	3
BSBA 4420 BUSINESS ETHICS AND CORPORATE ACCOUNTABILITY.	3
BSBA 2211 PRINCIPLES OF MACROECONOMICS .....	3
BSBA 2212 PRINCIPLES OF MICROECONOMICS .....	3
BSBA 2221 INTRODUCTION TO FINANCIAL MANAGEMENT .....	3
BSBA 2209 PRINCIPLES OF MANAGEMENT .....	3
BSBA 2204 PRINCIPLES OF MARKETING .....	3
MATH* 1530 COLLEGE ALGEBRA (OR HIGHER MATH) GENERAL STUDIES	

\* Students planning to enter a graduate program in business are strongly encouraged to take MATH 1190 (Calculus I) in lieu of MATH 1530. MATH 1530 also fulfills a general studies requirement.

#### • Accounting Curriculum ..... 36 SEM. HRS.

#### Required Courses (36 hrs.)

ACCT 3301 INTERMEDIATE ACCOUNTING I .....	3
ACCT 3302 INTERMEDIATE ACCOUNTING II .....	3
ACCT 3325 INTERMEDIATE ACCOUNTING III .....	3
ACCT 3330 ADVANCED ACCOUNTING I .....	3
ACCT 3331 ADVANCED ACCOUNTING II .....	3
ACCT 3350 ACCOUNTING INFORMATION SYSTEMS .....	3
ACCT 4404 COST ACCOUNTING.....	3
ACCT 4405 AUDITING.....	3
ACCT 4406 FEDERAL INCOME TAX ACCOUNTING: INDIVIDUAL .....	3
ACCT 4407 FEDERAL INCOME TAX ACCOUNTING: PARTNERSHIP AND CORPORATION .....	3
ACCT 4410 CASE STUDIES IN ACCOUNTING .....	3
BSBA 3307 BUSINESS LAW II .....	3

#### • General Studies Requirements:

Outcome 1 - Critical Analysis:	
BISM 2200 (Satisfied in Major) .....	X
Outcome 2 - Quantitative Literacy:	
MATH 1530 or 1430 or higher (Satisfied in Major) .....	3
Outcome 3 - Written Communication:	
ENGL 1101 (Institutional Requirement) .....	3
Outcome 4 - Teamwork:	
BSBA 2209 (Satisfied in Major) .....	X
Outcome 5 - Information Literacy:	
ENGL 1102 (Institutional Requirement) .....	3
Outcome 6 - Technology Literacy:	
BISM 1200 (PR for BISM 2200) .....	3
Outcome 7 - Oral Communication:	
COMM 2202 (preferred) or 2200 or 2201* .....	3
Outcome 8 - Citizenship:	
ANY COURSE LISTED IN OUTCOME 8 .....	3
Outcome 9 - Ethics:	
BSBA 4420 (Satisfied in Major) .....	X
Outcome 10- Health:	
ANY COURSE LISTED IN OUTCOME 10 .....	2
Outcome 11- Interdisciplinary:	
ANY COURSE LISTED IN OUTCOME 11 .....	3
Outcome 12 - Arts:	
ANY COURSE LISTED IN OUTCOME 12 .....	3
Outcome 13 - Humanities:	
ANY COURSE LISTED IN OUTCOME 13 .....	3
Outcome 14 - Social Sciences:	
BSBA 2211 (Satisfied in Major) .....	X
Outcome 15 - Natural Science:	
ANY COURSE LISTED IN OUTCOME 15 .....	4
Outcome 16 - Cultural Awareness:	
BSBA 3320 (Satisfied in Major) .....	X
Additional General Studies Hours:	
BISM 2800 (WIC - Satisfied in Major) .....	X

\* Any course(s) marked with an asterisk (\*) above are recommended to complement the program curriculum; however, students may select any other courses from the approved General Studies list.

## BUSINESS ADMINISTRATION

The Bachelors of Science in Business Administration degree provides the graduate with skills and knowledge for employment in a wide variety of contemporary organizations and/or for further study in their field of concentration. Students may choose an area of concentration from Finance, Business, Management, or Marketing

In addition to their concentration curricula, Business Administration students must complete the

business core which provides students with knowledge across several functional areas.

Students augment their Business Administration curriculum through completion of the general studies outcomes by taking courses approved to meet each of the outcomes. Though several business core courses enable a student to also meet some of the outcomes, students may choose courses of interest to them in completing the remaining outcomes.

• Business Core .....	45 SEM. HRS.
BSBA 2201 PRINCIPLES OF ACCOUNTING I .....	3
BSBA 2202 PRINCIPLES OF ACCOUNTING II .....	3
BISM 2200 BUSINESS INFORMATION TOOLS .....	3
BISM 2800 CORPORATE COMMUNICATIONS AND TECHNOLOGY ...	3
BISM 3200 MANAGEMENT INFORMATION SYSTEMS .....	3
BSBA 3306 BUSINESS LAW I .....	3
BSBA 3310 BUSINESS AND ECONOMIC STATISTICS .....	3
BSBA 3320 INTERNATIONAL BUSINESS .....	3
BSBA 4415 STRATEGIC MANAGEMENT AND POLICY .....	3
BSBA 4420 BUSINESS ETHICS AND CORPORATE ACCOUNTABILITY.	3
BSBA 2211 PRINCIPLES OF MACROECONOMICS .....	3
BSBA 2212 PRINCIPLES OF MICROECONOMICS .....	3
BSBA 2221 INTRODUCTION TO FINANCIAL MANAGEMENT .....	3
BSBA 2209 PRINCIPLES OF MANAGEMENT .....	3
BSBA 2204 PRINCIPLES OF MARKETING .....	3
MATH* 1530 COLLEGE ALGEBRA (OR HIGHER MATH) GENERAL STUDIES	

\* Students planning to enter a graduate program in business are strongly encouraged to take MATH 1190 (Calculus I) in lieu of MATH 1530. MATH 1530 also fulfills a general studies requirement.

### • General Studies Requirements:

Outcome 1 - Critical Analysis:	
BISM 2200 (Satisfied in Major) .....	X
Outcome 2 - Quantitative Literacy:	
MATH 1530 or 1430 or higher (Satisfied in Major) .....	3
Outcome 3 - Written Communication:	
ENGL 1101 (Institutional Requirement) .....	3
Outcome 4 - Teamwork:	
BSBA 2209 (Satisfied in Major) .....	X
Outcome 5 - Information Literacy:	
ENGL 1102 (Institutional Requirement) .....	3
Outcome 6 - Technology Literacy:	
BISM 1200 (PR for BISM 2200) .....	3
Outcome 7 - Oral Communication:	
COMM 2202 (preferred) or 2200 or 2201* .....	3
Outcome 8 - Citizenship:	

ANY COURSE LISTED IN OUTCOME 8 .....	3
Outcome 9 - Ethics:	
BSBA 4420 (Satisfied in Major) .....	X
Outcome 10- Health:	
ANY COURSE LISTED IN OUTCOME 10 .....	2
Outcome 11- Interdisciplinary:	
ANY COURSE LISTED IN OUTCOME 11 .....	3
Outcome 12 - Arts:	
ANY COURSE LISTED IN OUTCOME 12 .....	3
Outcome 13 - Humanities:	
ANY COURSE LISTED IN OUTCOME 13 .....	3
Outcome 14 - Social Sciences:	
BSBA 2211 (Satisfied in Major) .....	X
Outcome 15 - Natural Science:	
ANY COURSE LISTED IN OUTCOME 15 .....	4
Outcome 16 - Cultural Awareness:	
BSBA 3320 (Satisfied in Major) .....	X
Additional General Studies Hours:	
BISM 2800 (WIC - Satisfied in Major) .....	X

\* Any course(s) marked with an asterisk (\*) above are recommended to complement the program curriculum; however, students may select any other courses from the approved General Studies list.

## ECONOMICS

The Bachelors of Science in Business Administration with concentration in Economics prepares the graduates for careers in many areas including public policy and finance. This degree can be used to study industry trends, labor markets, the prospects for individual companies, and the factors that drive the economy. This degree program attracts analytical students with interest in the economy, how society allocates resources, the impact of investments, public policy, and demographics.

BACHELOR OF SCIENCE IN BUSINESS ADMINISTRATION: ECONOMICS  
120 SEM. HRS.

Business Core	45 SEM.HRS.
Economics Curriculum (see below)	21 SEM.HRS.
General Studies Requirements	33 SEM HRS.
Free Electives	21 SEM HRS.
Economics Curriculum	21 SEM. HRS.

Required Courses (12 hrs)

ECON 3350 Managerial Economics .....	3
ECON 3340 Public Economics .....	3

ECON 3310 Intermediate Macroeconomics .....	3
ECON 4410 Game Theory.....	3

Elective Courses: (9 hrs)

(Select 9 out of 24 hours)

FINC 3307 Personal Finance .....	3
FINC 3384 Bank Management .....	3
POLI 2207 Public Budgeting an& Government Finance .....	3
POLI 3302 State and Local Government.....	3
GEOG 3350 Economic Geography.....	3
GEOG 3315 Urban Geography .....	3

## FINANCE

The Finance curriculum is designed to prepare students for a career path in the financial services industries, as well as for careers in corporate finance functions. Students are exposed to the concepts of financial analysis and financial decision making and their application. Students completing the B.S. in Business Administration degree with a concentration in finance will be able to compete with graduates of most colleges and universities for positions as account managers, bankers, credit directors, equity traders, sales managers, risk managers and financial managers.

BACHELOR OF SCIENCE IN BUSINESS

ADMINISTRATION: FINANCE .....	120 SEM. HRS.
Business Core .....	45 SEM. HRS.
Finance Curriculum (see below).....	21 SEM. HRS.
General Studies Requirements .....	33 SEM. HRS.
Free Electives	21 SEM. HRS.

• Finance Curriculum .....

Required Courses (21 hrs.)

BSBA 3307 BUSINESS LAW II .....	3
FINC 3307 PERSONAL FINANCE .....	3
FINC 3350 INVESTMENTS .....	3
FINC 3384 BANK MANAGEMENT .....	3
FINC 3385 ANALYZING FINANCIAL STATEMENTS .....	3
FINC 4410 MANAGERIAL FINANCE .....	3
FINC 4412 PC APPLICATIONS FOR MANAGERIAL FINANCE.....	3

## BUSINESS

The Business concentration is designed to give students a fundamental understanding of the

substance and context of business in a world that is continually changing. Students are exposed to a diversified background in the various disciplines necessary for achieving success in the business arena. This concentration is flexible so that students may tailor their programs to particular interests. It gives students a fundamental understanding of the substance and context of business in a highly competitive and dynamic environment. Graduates are prepared to secure positions in insurance companies, banks, retail businesses, personnel and human resource departments, government services, and/or manage their own businesses.

**BACHELOR OF SCIENCE IN BUSINESS**

**ADMINISTRATION: BUSINESS**

(General emphasis) .....	120 SEM. HRS.
Business Core.....	45 SEM. HRS.
General Curriculum (see below).....	18 SEM. HRS.
General Studies Requirements .....	33 SEM. HRS.
Free Electives .....	24 SEM. HRS.

- General Curriculum ..... 18 SEM. HRS.

This emphasis is flexible so that students may tailor their programs to their particular interests. With guidance from a faculty advisor and approval by the Dean of the Business School, students will determine a program of 18 credit hours of 3000 or 4000 level business courses that will fulfill their needs and objectives.

MINOR IN BUSINESS .....	21 SEM. HRS.
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This minor is available to NON-BUSINESS majors only.

**Required Courses**

BSBA 2201 PRINCIPLES OF ACCOUNTING I .....	3
BSBA 3306 BUSINESS LAW I.....	3
BSBA 2200 ECONOMICS .....	3
BSBA 2221 INTRODUCTION TO FINANCIAL MANAGEMENT .....	3
BSBA 2209 PRINCIPLES OF MANAGEMENT .....	3
BSBA 2204 PRINCIPLES OF MARKETING.....	3
MGMT 3350 SMALL BUSINESS MANAGEMENT .....	3

**MANAGEMENT**

The B.S. in Business Administration management concentration fosters the notion that every organization needs a leader, who is competent and able to make effective decisions concerning organizational resources, goals, and plans. This

program is intended to give students the skills necessary to design, operate, and control business systems and procedures. Coursework is geared toward building student understanding of the social, legal, environmental, technological, organizational and international context within which American businesses operate. The numerous management electives allow students to emphasize human resource or business management.

Graduates typically enter an organization in various capacities and eventually move up to middle and top management positions with increasing responsibility. Some of the industries which typically hire graduates with a concentration in management include agriculture, forestry, mining and construction industries, manufacturing industries, transportation, communications and utilities, wholesale and retail trade businesses, state, local and federal governmental units.

**BACHELOR OF SCIENCE IN BUSINESS**

ADMINISTRATION: MANAGEMENT .....	120 SEM. HRS.
Business Core .....	45 SEM. HRS.
Management Curriculum (see below) .....	21 SEM. HRS.
General Studies Requirements .....	33 SEM. HRS.
Free Electives .....	21 SEM. HRS.

- Management Curriculum..... 21 SEM. HRS.

**Required Courses (15 hrs.)**

MGMT 3308 HUMAN RESOURCE MANAGEMENT .....	3
MGMT 3390 ORGANIZATIONAL BEHAVIOR .....	3
MGMT 4402 ORGANIZATIONAL CHANGE & DEVELOPMENT .....	3
MGMT 4405 OPERATIONS MANAGEMENT .....	3
OR MGMT 4409 QUANTITATIVE MANAGEMENT.....	3
BSBA 3330 EMPOWERING LEADERSHIP .....	3

**Electives (6 hrs.)**

Select 6 hours from the following list:

BSBA 2299 SPECIAL TOPICS	
BSBA 3399 SPECIAL TOPICS	
BSBA 3307 BUSINESS LAW II .....	3
ECON 3350 MANAGERIAL ECONOMICS .....	3
MGMT 3350 SMALL BUSINESS MANAGEMENT .....	3
MGMT 3371 EMPLOYEE RELATIONS .....	3
MGMT 3372 HR SELECTION AND EVALUATION.....	3
MGMT 3500 PROJECT MANAGEMENT .....	3

MKTG3305 SUPPLY CHAIN MANAGEMENT.....	3
MGMT 4400 ORGANIZATIONAL THEORY AND DESIGN.....	3

## MARKETING

The Marketing program is designed to develop graduates who possess a strong foundation for many career choices, by offering courses in marketing management, advertising, salesmanship, marketing research, consumer behavior, and supply chain management and new product decisions. The program integrates the marketing training with other relevant disciplines (accounting, management, finance, and economics) to assure that students have the combination of skills that meet management requirements for today's marketing activities. Students completing the B.S. in Business Administration with a concentration in marketing will be able to compete with graduates of most colleges and universities for positions as account supervisors, creative directors, advertising and sales managers, circulation managers, fundraising consultants, marketing directors, marketing program managers, brand managers and product managers.

### BACHELOR OF SCIENCE IN BUSINESS

ADMINISTRATION: MARKETING.....	120 SEM. HRS.
Business Core.....	45 SEM. HRS.
Marketing Curriculum (see below).....	18 SEM. HRS.
General Studies Requirements .....	33 SEM. HRS.
Free Electives	24 SEM. HRS.

- Marketing Curriculum ..... 18 SEM. HRS.

#### Required Courses (6 hrs)

MKTG3340 MARKETING RESEARCH.....	3
MKTG4450 MARKETING MANAGEMENT.....	3

#### Electives (12 hrs.)

(Select 12 out of 16 hours)

MKTG3400 SALESMANSHIP & SALES MANAGEMENT .....	3
MKTG3305 SUPPLY CHAIN MANAGEMENT.....	3
MKTG3310 CONSUMER BEHAVIOR .....	3
MKTG3320 ADVERTISING AND SALES PROMOTION.....	3
MKTG3500 NEW PRODUCT DECISIONS .....	3

## HEALTHCARE MANAGEMENT

This is a comprehensive program, which is designed to provide health professionals with the education to become administrators in health care agencies. The curriculum is directed toward developing the management, problem- solving, finance, and interpersonal skills that are necessary for careers in a variety of health care organizations. An additional intent of the program is to provide career advancement opportunities for those who are already employed in health care organizations.

To be eligible for admission to the Bachelor of Science Program in Healthcare Management, a student must have an associate degree in a healthcare field from an accredited college. Requirements include General Studies courses, degree requirements, and a core curriculum, which encompasses accounting, management, problem solving, and healthcare-related courses.

Students wishing to enroll in Healthcare Management courses are encouraged to complete the General Studies requirements and required support courses prior to enrolling in the HCMG courses.

BACHELOR OF SCIENCE IN HEALTHCARE MANAGEMENT .	120 SEM. HRS.
General Studies Requirements .....	36-37 SEM. HRS.
Allied Health Healthcare Management/Support Curriculum	34 SEM. HRS. (see below)
Associate Degree Credits .....	35 SEM. HRS.
Electives .....	14-15 SEM. HRS.

- Healthcare Management Curriculum..... 4 SEM. HRS.

#### Required Support Courses (18 hrs.)

BISM 1200 INTRO TO COMPUTING.....	3
BISM 2800 CORP COMM AND TECHNOLOGY.....	3
BSBA 2201 PRINCIPLES OF ACCOUNTING I .....	3
BSBA 2209 PRINCIPLES OF MANAGEMENT .....	3
MGMT 3308 HUMAN RESOURCE MANAGEMENT .....	3
MGMT 3390 ORGANIZATIONAL BEHAVIOR .....	3
BSBA 3310 BUSINESS & ECONOMIC STATISTICS .....	3
-OR-	
PSYC 2240 STATISTICS .....	3
-OR-	
MATH1530 APPLIED STATISTICS.....	3

#### Required Healthcare Management Courses (13 hrs.)

HCMG 3301 HEALTHCARE ORGANIZATION.....	3
HCMG 3302 MANAGEMENT PROBLEMS OF THE HEALTHCARE DELIVERY SYSTEMS .....	3

HCMG 3372 LEGAL AND MEDICAL ETHICS .....	3
HCMG 4401 ALLIED HEALTH PRACTICUM AND SEMINAR .....	3

• General Studies and Support Course Requirements

Outcome 1 - Critical Analysis	
ENGL 1102* or any other choice .....	3
Outcome 2 - Quantitative Analysis	
Any choice .....	3-4
Outcome 3 - Written Communication	
ENGL 1101 (Institutional Requirement).....	3
Outcome 4 - Teamwork	
BSBA 2209 (Satisfied in Major) .....	X
Outcome 5 - Information Literacy	
ENGL 1102 (Institutional Requirement).....	X
Outcome 6 - Technology Literacy	
BISM 1200 (Satisfied in Major) .....	X
Outcome 7 - Oral Communication	
COMM 2202 (Satisfied in Major) .....	X
Outcome 8 Citizenship	
Any choice .....	3
Outcome 9- Ethics	
COMM 2200 (Satisfied in Major) .....	X
Outcome 10- Health and Well-being	
Any choice .....	2-5
Outcome 11 Interdisciplinary and Lifelong Learning	
Any choice .....	3-4
Outcome 12 - Fine Arts	
Any choice (3 credits required).....	3
Outcome 13 - Humanities	
Any choice .....	3
Outcome 14 - Social Studies	
Any choice .....	3
Outcome 15 - Natural Sciences	
Any choice .....	4
Outcome 16 - Cultural Awareness and Human Dignity	
Any choice .....	3
Additional General Studies Hours:	
ALLH 4401 (WIC - Satisfied in Major) .....	X

\* Any course(s) marked with an asterisk (\*) above are recommended to complement the program curriculum; however, students may select any other courses from the approved General Studies list.

## INFORMATION SYSTEMS MANAGEMENT

The Information Systems Management degree provides an academic program that balances business management principles and the tools and technologies of computerized information systems. The areas of study include the functional areas of

business, computer hardware and operating systems, network architecture and management, programming concepts, database management techniques, e-commerce and web development strategy, systems analysis and design, and project management.

Students completing the B.S. in Information Systems Management degree will be able to compete for positions related to Information Systems (IS), Information Technology (IT), and Business. Specific job titles may include: IS and IT consultants, information systems managers, database and software consultants, logistics managers, system or project managers, and network support services.

### BACHELOR OF SCIENCE IN INFORMATION

SYSTEMS MANAGEMENT .....	120 SEM. HRS.
Information Systems Management Curriculum (see below).....	63 SEM. HRS.
General Studies Requirements .....	42 SEM. HRS.
Free Electives .....	18 SEM. HRS.

• Information Systems Management

Curriculum 63 SEM. HRS.

Required Courses (63 hrs.)

BSBA 2201 PRINCIPLES OF ACCOUNTING I .....	3
BSBA 2202 PRINCIPLES OF ACCOUNTING II .....	3
BISM 2200 BUSINESS INFORMATION TOOLS .....	3
BISM 2400 OPERATING SYSTEMS CONCEPTS.....	3
BISM 2600 INTRODUCTION TO NETWORKING ADMINISTRATION....	3
BISM 2800 CORPORATE COMMUNICATIONS AND TECHNOLOGY ...	3
BISM 3000 BUSINESS PROGRAMMING LOGIC.....	3
BISM 3200 MANAGEMENT INFORMATION SYSTEMS .....	3
BISM 3400 DATABASE DESIGN AND DEVELOPMENT .....	3
BISM 3600 E-COMMERCE AND WEB DEVELOPMENT STRATEGY .....	3
BISM 3800 OBJECT-ORIENTED BUSINESS APPLICATIONS .....	3
BISM 4200 SYSTEMS ANALYSIS AND DESIGN.....	3
BISM 4800 INFORMATION SYSTEMS PROJECT MANAGEMENT .....	3
BSBA 4420 BUSINESS ETHICS & CORPORATE ACCOUNTABILITY.....	3
BSBA 3306 BUSINESS LAW I.....	3
BSBA 3310 BUSINESS AND ECONOMICS STATISTICS.....	3
BSBA 2211 PRINCIPLES OF MACROECONOMICS .....	3
BSBA 2212 PRINCIPLES OF MICROECONOMICS .....	3
BSBA 2221 INTRODUCTION TO FINANCIAL MANAGEMENT .....	3
BSBA 2204 PRINCIPLES OF MARKETING .....	3
BSBA 2209 PRINCIPLES OF MANAGEMENT .....	3
MGMT 3500 .PROJECT MANAGEMENT.....	3
MATH1530 COLLEGE ALGEBRA (OR HIGHER MATH).....	3

• General Studies Requirements:

Outcome 1 - Critical Analysis:	
BISM 2200 (Satisfied in Major) .....	X
Outcome 2 - Quantitative Literacy:	
MATH 1530 or 1430 or higher (Satisfied in Major) .....	3
Outcome 3 - Written Communication:	
ENGL 1101 (Institutional Requirement) .....	3
Outcome 4 - Teamwork:	
BSBA 2209 (Satisfied in Major) .....	X
Outcome 5 - Information Literacy:	
ENGL 1102 (Institutional Requirement) .....	3
Outcome 6 - Technology Literacy:	
BISM 1200* .....	3
Outcome 7 - Oral Communication:	
COMM 2202 (preferred) or 2200 or 2201* .....	3
Outcome 8 - Citizenship:	
ANY COURSE LISTED IN OUTCOME 8 .....	3
Outcome 9 - Ethics:	
BSBA 4420 (Satisfied in Major) .....	X
Outcome 10- Health:	
ANY COURSE LISTED IN OUTCOME 10 .....	2
Outcome 11- Interdisciplinary:	
ANY COURSE LISTED IN OUTCOME 11 .....	3
Outcome 12 - Arts:	
ANY COURSE LISTED IN OUTCOME 12 .....	3
Outcome 13 - Humanities:	
ANY COURSE LISTED IN OUTCOME 13 .....	3
Outcome 14 - Social Sciences:	
BSBA 2211 (Satisfied in Major) .....	3
Outcome 15 - Natural Science:	
ANY COURSE LISTED IN OUTCOME 15 .....	4
Outcome 16 - Cultural Awareness:	
ANY COURSE LISTED IN OUTCOME 16 .....	3
Additional General Studies Hours:	
BISM 2800 (WIC - Satisfied in Major) .....	X

\* Any course(s) marked with an asterisk (\*) above are recommended to complement the program curriculum; however, students may select any other courses from the approved General Studies list.

# Programs of Study

## School of Education, Health and Human Performance

**Dr. Amanda Metcalf, Interim Associate Dean**  
352 Education Building  
(304) 333-3679  
Amanda.Metcalf@fairmontstate.edu

### FACULTY

DELAWDER, VIRGINIA G. (2018)  
Instructor of Exercise Science and Physical Education

DOS SANTOS, JULIA (2018)  
Assistant Professor of Exercise Science  
Graduate Faculty

HANEY, ANDREA (2019)  
Assistant Professor in Nutrition

HENNING, BONNIE (2018)  
Assistant Professor of Special Education  
Graduate Faculty

KIBLER, KEISHA (2018)  
Assistant Professor of Education

KIEFER, KRISTI A. (1994)  
Associate Professor of Physical Education

KIGER, JAN H. (2013)  
Interim Department Chair, Health & Human  
Performance  
Assistant Professor of Outdoor Recreation

LEARY, JANIE M. (2013)

Associate Professor of Community Health Education  
Graduate Faculty

METCALF, AMANDA (2013)  
Interim Associate Dean, School of Education, Health  
& Human Performance  
Associate Professor of Physical Education  
Graduate Faculty

MICHAEL, BEVERLY (2004)  
Associate Professor of School Health Education

MORPHEW, VALERIE (2000)  
Professor of Education  
Graduate Faculty

NOLAND, JASON (2016)  
Assistant Professor of Digital Media  
Graduate Faculty

OWENS, BARBARA (2005)  
Director, FAIRMONT STATE PDS Partnership and  
Clinical Experiences

PITTMAN, PAMELA (2015)  
Assistant Professor of Reading Education  
Graduate Faculty

PRICE, CATHERINE (2018)  
Assistant Professor of Special Education  
Graduate Faculty

RENEAU, JULIE (2009)  
Associate Professor of Special Education  
Graduate Faculty

RENEAU, PAUL D. (2002)  
Associate Professor of Exercise Science  
Graduate Faculty

ROSS, SUSAN M. (2014)  
Executive Director of Academic Programs &  
Support  
Services; Director of Graduate Studies  
Associate Professor of Physical Education

SAPP, G. H. BUDD (1997)  
Professor of Education  
Graduate Faculty

SMITH, SHARON (2005)  
Professor of Education  
Graduate Faculty

TANNOUS, CAROL A. (2006)  
Director for Strategic Initiative & Student Success

WIERZBICKI, BARBARA (2018)  
Assistant Professor of Education  
Graduate Faculty

## Department of Teacher Education

### Vision Mission and Goals

The vision for the teacher education program is to be renowned for its innovative pedagogical practices and programs and as the first-choice institution for students seeking a transformative educational experience. The EPP values the institution's vision statement by implementing innovative pedagogical practices and programs. The EPP seeks to provide teacher candidates with a transformative educational experience as a first-choice institution renowned for its teacher preparation history. The EPP continually strives to improve all program aspects related to innovations in teaching excellence, conducive learning environments, and supportive services. Furthermore, the EPP develops candidates with the knowledge, skills, and dispositions to be reflective, responsive, and successful educators. The Journey program, the EPP student support system, is student-centered and focuses on providing an environment that facilitates the education of global citizen leaders.

The mission of the teacher education program is to prepare reflective and responsive educators who possess the knowledge, skills, and dispositions to help all students learn, is supportive of the institution's commitment to excellence and transformational impact, but extends the meaning, specifically addressing the success of EPP candidates.

The mission provides the structure and guiding principles that are necessary to prepare reflective and responsive educators. The West Virginia Professional Teaching Standards (WVPTS), the Interstate Teacher and Support Consortium (InTASC) Standards, and

the Council for the Accreditation of Educator Preparation (CAEP) Standards undergird the knowledge, skills, and dispositions that candidates must possess in order to facilitate learning for all students. Diversity and technology are included in the mission, representing cross-cutting themes throughout the Educator Preparation Provider's (EPP) programs. Demonstrated competencies within the Standards empower candidates to function as reflective and responsive educators. The EPP's mission is based on research about effective teaching and best practices that apply to teacher candidates at the initial level as well as accomplished teachers at the advanced level. The mission and the respective standards are also central guiding elements of the Fairmont State School of Education, Health and Human Performance (SoEHHP) Professional Development School (PDS) Partnership. The PDS Partnership provides for an exemplary collaboration with P-12 schools that allows candidates' multiple, quality field experiences/internships as well as professional development opportunities for all stakeholders.

The acronym SOAR represents the institution's core values - Scholarship (to celebrate the joy and wonder of discovery), Opportunity (to grow, learn, engage, and contribute), Achievement (to reach personal and community goals), and Responsibility (to fulfill obligations to the learning community, our society, the future, and ourselves). The EPP embraces Fairmont State's core values.

The EPP goals include but are not limited to:

1. Recruiting candidates who successfully meet all the requirements for program admission and providing scaffolded and sequenced opportunities to support candidates' success.
2. Retention of candidates by providing effective advising and support mechanisms as well as programmatic resources from candidate admission through candidate exit and beyond.
3. Graduating highly qualified teacher candidates who meet or exceed all requirements for program completion, certification, and licensure.
4. Recruiting and retaining exemplary faculty from a broad range of diverse backgrounds who positively impact candidates' learning.

The EPP's Recruitment and Retention Plan describes the recruitment and retention strategies geared toward all undergraduate students, but also specifically addresses the EPP's effort to increase the number of teacher candidates from a broad range of backgrounds and diverse populations.

The EPP's mission mirrors Fairmont State's mission/vision with its shared goal of a commitment to excellence and student success.

## JOURNEY PROGRAM

This unique program provides academic and social/emotional support services for students of all majors in the School of Education and Health & Human Performance. This program includes a discipline-specific summer orientation, welcome week group meetings, town meetings, social activities, and opportunities for creating connections with current students, faculty, and staff. Students are encouraged to participate in this program and other activities that promote their success in college.

## BACHELOR OF ARTS IN EDUCATION

The General Studies requirement for Fairmont State teacher education students differs for elementary and middle/adolescent education programs; however, each consists of a minimum of 30 credit hours distributed over humanities, mathematics, natural sciences, and physical education and health. The General Studies requirements for elementary education also fulfill selected requirements for the Elementary/K-6 specializations and are included with the Elementary and the Early/Middle Specialization in determining the 2.75 grade point requirement for eligibility for the Clinical (Student Teaching) component of the program.

To meet the requirements for the Bachelor of Arts in Education, the candidate must:

1. earn a minimum of 120 hours' credit in approved subjects, with a quality point average of 2.75 or better for all courses attempted;
2. attain a 2.75 average in each teaching specialization and professional education;
3. meet the general and specific requirements for the curriculum and teaching specialization(s) elected;
4. achieve acceptable scores on the CORE and Specialty Area Content tests;

5. achieve a minimum grade of "C" or better in all EDUC classes.

## PRE-ADMISSION REQUIREMENTS TO TEACHER EDUCATION

Any student may enroll in EDUC 2200 Introduction to Education or EDUC 2201, Instructional Technology. While enrolled in EDUC 2200, teacher candidates will complete a "Declaration of Intent" to be used as the initial step in the application process.

In order to be admitted to teacher education a candidate must have:

- Earned passing scores on all three sections of the CORE Academic Skills for Educators Test
- 2.75 overall GPA
- 2.75 education GPA
- 2.75 GPA in each teaching specialization
- Submitted a Declaration of Intent
- Completion of all Early Field Experiences

To apply for the admission to the teacher education program, students are required to submit a portfolio in TaskStream to verify all requirements are met. Students will be notified in writing of the decision to admit or not admit. The SOE Teacher Education Selection Committee reviews all applications. Applications must be submitted by either March 1 or October 1.

## Pre-Admission Field Experience 1

The Teacher Education Program at Fairmont State includes an Early Field Experience (EFE) Field Experience 1 designed to help introduce prospective teacher certification candidates to the teaching profession, work of educators in the school and community settings and program of study. The Early Field Experience is also designed to create a community of pre-education majors by providing increased support, communication, and contact with pre-majors prior to actual admission to Teacher Education.

Focus on Diversity: As much as settings, agencies and contexts for the Early Field Experiences allow, candidates should seek out locations that support interactions, relationship-building and activities with communities who represent diversity. Diversity may represent a broad range of identities, experiences, and

lives that include race and ethnicity, class, gender, and special learning needs. At Fairmont State the School of Education, Health and Human Performance uses CREDE (Center for Research on Education, Diversity, and Excellence) standards to frame how we think about diversity and what it means to be an educator who believes that engagement with and learning for diverse communities is central to being an educator. We believe that experiences such as these for the pre-service teachers are essential to the process of deciding to major in education and becoming a member of the profession. The CREDE standards can be located at <http://crede.berkeley.edu>.

Potential program candidates will complete two field experiences prior to admission to Teacher Education. Both field experiences must be pre-approved by the teacher education program and include:

- EFE - Community. In this requirement, the student self-selects a site. This experience could be paid or volunteer and be completed at home, in high school, in community agencies, over breaks or summer. EFE Community must be a minimum of 30 clock hours scheduled over at least 5 separate visits to the site.
- EFE Professional Development School (PDS). In this second field experience, students are placed in a local PDS school. PDS sites are schools that formally partner with Fairmont State. The PDS-based experiences must total a minimum of 20 clock hours scheduled over at least 5 days. Candidates will be assessed on their dispositions and must keep a time log.
- Students will be asked to complete an evaluation of their experience in each setting. The EFE-PDS experience must be completed during the same semester it was initiated.

## Transfer Students

Transfer students must complete all Fairmont State teacher education admissions requirements. Any substitute experiences completed at another institution must be approved as having met Fairmont State program requirements prior to application for admission to Teacher Education.

Note: During the file review period, a request for information on candidates will be sent to all School of Education, Health & Human Performance faculty,

staff and administrators. Feedback on a candidate's "dispositions" is a significant part of this process. According to the Council for Accreditation of Educator Preparation (CAEP) a disposition is defined as those "professional attitudes, values, and beliefs demonstrated through both verbal and non-verbal behaviors as educators interact with students, families, colleagues and communities." Candidates should be aware of how personal and professional behaviors may reflect on their pursuit of a career in Teacher Education.

## Policy on Criminal Background Checks and TB Testing

Fairmont State does not require a criminal background check or TB test for entrance into the teacher education major. However, the State of West Virginia does have policies related to who may enter public schools and work directly with children. Students will be required to provide documentation of these two procedures prior to entering any public school facility for the purpose of field experiences and student teaching. It is important that pre-majors plan on completing the criminal background check and TB test prior to the start of Early Field Experience PDS. More information about these requirements can be found on the Fairmont State School of Education web site.

## TEACHING CURRICULA

Fairmont State recommends for professional licensure only those persons who have graduated and have satisfactorily completed a teacher education curriculum approved by the West Virginia Board of Education. Students who satisfactorily complete a teaching curriculum in a given area and achieve passing scores on the CORE, PLT, and appropriate content exams will be recommended for a Professional Certificate in one of the following grade areas:

- 1) K-6
- 2) Pre K-Adult
- 3) 5-9
- 4) 5-Adult
- 5) 9-Adult

## TEACHING SPECIALIZATION AREAS

\*requires second specialization for 5-Adult, 9-Adult, or Pre K-Adult

### Elementary

Optional specializations which may be combined with Elementary Education are as follows:

- 1) General Mathematics through Algebra I (5-9)
- 2) Special Education - Multi-Categorical (K-Adult)
- 3) Spanish PreK-Adult

### Pre-K-Adult Programs (Secondary)

Students who pursue a degree in Elementary Education, Physical Education, or Health Education will be assigned an academic advisor by the School of Education, Health, & Human Performance. All other Teacher Education majors will be assigned an academic advisor by the academic college/school that houses their primary specialization area (ex. Theatre Education = School of Fine Arts, Mathematics = School of Science and Technology). In addition, students with majors that are housed in colleges outside the School of Education, Health, & Human Performance are advised to utilize the Journey Program that provides additional support and information specific to Teacher Education Students.

For course requirements in each specialization, refer to the chapter for the desired subject (e.g.: for Art, see the School of Fine Arts catalog section). Secondary special methods and student teaching are required in all areas in order to be licensed. Secondary and Pre K-Adult specializations are also available via the Master of Arts in Teaching program.

- |                                                 |             |
|-------------------------------------------------|-------------|
| 1) Art .....                                    | Pre K-Adult |
| 2) Biology .....                                | 9-Adult     |
| 3) Chemistry .....                              | 9-Adult     |
| 4) Earth, Space and Science .....               | 5-Adult     |
| 5) English .....                                | 5-Adult     |
| 6) General Science .....                        | 5-Adult     |
| 7) Journalism .....                             | 5-Adult     |
| 8) Mathematics.....                             | 5-Adult     |
| 9) General Mathematics through Algebra I* ..... | 5-9         |
| 10) Music .....                                 | Pre K-Adult |
| 11) Physical Education .....                    | Pre K-Adult |
| 12) Physics .....                               | 9-Adult     |
| 13) School Health Education .....               | 5-Adult     |
| 14) Social Studies .....                        | 5-Adult     |
| 15) Spanish.....                                | Pre K-Adult |
| 16) Theatre Education.....                      | Pre K-Adult |

### Special Education

There are multiple paths for pursuing certification or a degree in Special Education at Fairmont State. Students who are seeking Elementary (K-6) certification may add a concentration in Multi-Categorical Special Education (Grades K-12) to their Elementary program. This concentration allows teacher candidates to graduate with an Elementary Multi-Subject (K-6) degree and a Multi-Categorical Special Education (K-12) concentration by taking three additional courses.

Students at Fairmont State who are interested in obtaining certification or a Master of Education degree with an Emphasis in Special Education [Multi-Categorical with Autism (K-Adult)] may do so by linking their undergraduate and master's degrees. Undergraduate students in Education or pursuing majors in other fields have the opportunity to begin the graduate program by applying for concurrent enrollment in a limited number of graduate degree courses during their senior year. For more information about this option, or to request a transcript evaluation for the program, please contact Joyce Rose, School of Education, Health and Human Performance.

### POST ADMISSION REQUIREMENTS

Once a student is admitted to the Teacher Education Program, students are required to complete additional field and clinical experiences. Fairmont State adheres to the requirements of WV State Policy 5100. This policy mandates that each teacher candidate:

Is required to have clinical practice at both the elementary and middle or secondary levels.

Field based experiences and/or clinical practice must be completed at a minimum of three different programmatic levels in the Pre K-Adult degrees.

The third programmatic level will be determined by the institution of higher education.

This sequence is required for all teacher education candidates. At the present time, placements are made at the Professional Development Schools (PDS), which encompass public schools in a six county area. These schools are sites of "best practice" and are schools who work collaboratively with Fairmont State

to ensure quality teacher education and professional development for practicing teachers. All such experiences are cooperatively arranged by university and public school personnel. All assessments are aligned with the new West Virginia Professional Teaching Standards (WVPTS).

## **FIELD EXPERIENCES 2 AND 3**

Progression to the student teaching clinical experience requires the following field experiences and the co-requisite courses:

EDUC 2265 FIELD EXPERIENCE 2.....1 CREDIT

This is a one-credit-hour lab that must be completed as a clinical experience in the public school setting. This clinical experience will be 30 clock hours and allow the teacher candidate the opportunity to apply and reflect on his/her content, professional and pedagogical knowledge, skills, and dispositions. This is a co-requisite with EDUC 2260 Instructional Design I.

EDUC 3365 FIELD EXPERIENCE 3.....2 CREDITS

This is two-credit-hour lab that must be completed as a clinical experience in the public school setting. The clinical experience will be 75 clock hours and allow the teacher candidate the opportunity to apply and reflect on his/her content, professional and pedagogical knowledge, skills and dispositions. In addition, the teacher candidate will be provided with experiences that allow for immersion in the learning community so that s/he is able to demonstrate proficiency in the professional role for which s/he is preparing. This is a co-requisite with EDUC 3340 Instructional Design II and EDUC 3351 Inclusive Practices.

\* Field Experiences 2 and 3 are sequential and cannot be taken in the same term. EDUC 2203 and EDUC 2240 must be completed prior to Field Experience 2.

## **CLINICAL EXPERIENCE - STUDENT TEACHING 16 WEEKS**

Student teaching is required in all programs. Students must complete student teaching or comparable experience at state required developmental levels and in all of the teaching specializations for which they expect to be licensed. At the present time, placements are made at the

Professional Development Schools (PDS), which encompass public schools in a six county area. All such experiences are cooperatively administered by college and public school personnel.

Student teaching is comprehensive immersion into the public school setting at two developmental levels. Teacher candidates apply and reflect on content, professional, and pedagogical knowledge, skills and dispositions required of a teacher. During this experience, teacher candidates will design and implement an action research project to demonstrate its effect on student learning. West Virginia Department of Education Policy 5100 requires that teacher candidates pass the PRAXIS II content area tests prior to placement in the student teacher clinical experience.

Due to the uniqueness of the off-campus student teaching experience, a candidate may be administratively removed if there is cause.

## **ADMISSION REQUIREMENTS TO STUDENT TEACHING**

To participate in student teaching, a teacher candidate must apply for and receive a student teaching permit as required by the West Virginia Department of Education. In addition, the student must meet the requirements listed below:

- All general studies requirements of the University as well as the minimum requirements of the teaching specialization must be completed before student teaching can be scheduled.
- Be officially admitted to teacher education.
- Complete all required hours with a minimum grade point average of 2.75 overall in education foundation and professional education courses, and each teaching specialization. All courses in the teaching specialization (major) must be completed prior to admission to Student Teaching.
- Have a grade of "C" or better in all EDUC classes.
- Adherence to the West Virginia Teacher Code of Conduct with regard to dispositional behaviors.
- Successful completion of the appropriate PRAXIS II Specialty Area Test.

## **PRAXIS II**

Successful completion of the appropriate PRAXIS II Specialty Area test(s) and Principles of Learning and Teaching (PLT) are requirements for licensure. A report of the Specialty Area Test(s) and PLT scores must accompany the application for licensure to the West Virginia Department of Education. If the test scores do not meet the state minimum score, the application must be held pending receipt of acceptable scores. Candidates should keep in mind that a denial of licensure at the time of graduation may subject them to changes in program requirements if they seek licensure later.

**Early/Middle Education.** Candidates expecting to be licensed for Elementary Education K-6 and an academic specialization must achieve acceptable scores in both areas.

**Middle/Adolescent Education.** Candidates expecting to be licensed for teaching in grades 5-Adult or 9-Adult must take the Specialty Area Test consistent with the specialization(s) to be named on the license. If they expect to be licensed in two specializations, they must achieve acceptable scores in both specializations.

**Pre K-Adult Education.** A candidate expecting to be licensed for teaching in grades Pre K-Adult must achieve acceptable scores on the Specialty Area Test consistent with the Pre K-Adult specialization to be named on the license.

In order to identify the appropriate testing dates, times, locations, etc., for any given year, candidates should check the ETS.org website.

## UNIVERSITY RECOMMENDATION PREREQUISITE TO CERTIFICATION

University recommendation shall take into consideration Chapter 18A, Section 3, Article 1, of the West Virginia School Law, which reads “(1) A certificate to teach may be granted only to any person who is: (A) A citizen of the United States, except as provided in subdivision (2) of this subsection; (B) Is of good moral character; (C) Physically, mentally and emotionally qualified to perform the duties of a teacher; and (D) At least eighteen years on or before the first day of October of the year in which his or her certificate is issued.”

The issuance of an original certificate shall require:

1) The recommendation of the Dean of Teacher Education, in consultation with the supervisor of

student teachers and chairperson of the department offering the student’s chosen specialization. This recommendation is expected to reflect, in addition to academic criteria, satisfactory performance on the part of the applicant in a typical classroom situation.  
2) An official statement by the Dean of Teacher Education that the approved program has been completed in full.

## Programs of Study

### ELEMENTARY EDUCATION K-6

Candidates who wish to qualify for certifications and licensure in teaching grades K-6, shall complete the General Studies Requirements, the Elementary Education Program and Professional Education courses as outlined below. Subject specializations are NOT required for this degree, but students may choose to add them if they wish. \*Field experiences and student teaching are required in an approved K-6 classroom, and in an approved classroom for each additional specialization. For specific program requirements and additional specializations, see the section of the catalog for the academic school which offers the program. Ex: for Art Pre K-Adult, see School of Fine Arts.

\*Optional specializations which may be combined with Elementary Education are as follows. See below for requirements.

- 1) General Mathematics through Algebra I (5-9)
- 2) Special Education - Multi Categorical (K-Adult)
- 3) Spanish PreK-Adult

#### BACHELOR OF ARTS IN EDUCATION:

ELEMENTARY EDUCATION K-6 .....	123 SEM. HRS.
General Studies Requirements .....	31 SEM. HRS.
Professional Education Courses .....	39 SEM. HRS.
Elementary Education K-6 Program .....	53 SEM. HRS.

- Professional Education ..... 39 SEM. HRS.

All courses must be completed prior to Student Teaching.

EDUC 2200 INTRODUCTION TO EDUCATION .....	3
EDUC 2201 INSTRUCTIONAL TECHNOLOGY .....	3
EDUC 2203 HUMAN DEVELOPMENT, LEARNING AND TEACHING ...	3
EDUC 2240 HIGH INCIDENCE DISABILITIES FOR EDUCATORS.....	3

EDUC 2260	INSTRUCTIONAL DESIGN I	3
EDUC 2265	FIELD EXPERIENCE 2	1
EDUC 3330	THE READING PROCESS	3
EDUC 3340	INSTRUCTIONAL DESIGN II	3
EDUC 3351	INCLUSIVE CLASSROOM PRACTICES	3
EDUC 3365	FIELD EXPERIENCE 3	2
EDUC 4485	ACTION RESEARCH	1
EDUC 4486	PORTFOLIO	1
EDUC 4491	ELEMENTARY STUDENT TEACHING	10

• Elementary Education K-6 Program.....53 SEM. HRS.

ART 3350	ELEMENTARY ART EDUCATION	3
EDUC 3331	READING IN THE CONTENT AREAS	3
EDUC 3332	PEDAGOGY OF LITERACY	3
EDUC 3350	ELEMENTARY SOCIAL STUDIES METHODS	3
ENGL 3354	CHILDREN'S LITERATURE	3
HIST 1108	US HISTORY II	3
HIST 2211	WORLD CIVILIZATIONS I	3
- OR -		
HIST 2213	WORLD CIVILIZATIONS III	3
HIST 3302	WEST VIRGINIA	3
HLTA 4400	HEALTH EDUCATION FOR THE ELEMENTARY SCHOOL	3
MATH2551	STRUCTURE OF REAL NUMBERS	3
MATH2552	DATA ANALYSIS AND GEOMETRY	3
MATH3553	MATH METHODS FOR ELEMENTARY TEACHERS	3
MUSI 3330	MUSIC IN THE ELEMENTARY CLASSROOM	3
PHED 3326	EARLY PSYCHOMOTOR DEVELOPMENT	3
PHSC 2201	EXOSPHERE	4
PHSC 2202	GEOSPHERE	4
PHSC 4412	SCIENCE IN THE ELEMENTARY SCHOOL	3

• General Studies Requirements .....34 SEM. HRS.

Outcome 1 - Critical Analysis:		
ENGL 1102 (Institutional Requirement)		3
Outcome 2 - Quantitative Literacy:		
MATH 1530 (Required by Major)		3
Outcome 3 - Written Communication:		
ENGL 1101 (Institutional Requirement)		3
Outcome 4 - Teamwork:		
COMM 2200 or 2201*		3
Outcome 5 - Information Literacy:		
EDUC 2201 (Satisfied in Major)		X
Outcome 6 - Technology Literacy:		
EDUC 2201 (Satisfied in Major)		X
Outcome 7 - Oral Communication:		
COMM 2200 or 2201*		X
Outcome 8 - Citizenship:		
POLI 1100 (Required by Major)		3
Outcome 9- Ethics		

ENGL 2220/21 or 2230/31 (Required by Major)		3
Outcome 10- Health:		
EDUC 2203 (Satisfied in Major)		X
Outcome 11- Interdisciplinary:		
GEOG 2210 (Required by Major)		3
Outcome 12 - Arts:		
ART / MUSI / THEA / INTR 1120 (Required by Major)		3
Outcome 13 - Humanities:		
HIST 1107 (Required by Major)		3
Outcome 14 - Social Sciences:		
GEOG 2210*		X
Outcome 15 - Natural Science:		
BIOL 1104 (Required by Major)		4
Outcome 16 - Cultural Awareness:		
Major Course HIST 2211 / 2213 (Required by Major)		X
Additional General Studies Hours:		
Major Course EDUC 3351		X
(Writing Intensive)		

\* Any course(s) marked with an asterisk (\*) above are recommended to complement the program curriculum; however, students may select any other courses from the approved General Studies list.

OPTIONAL SPECIALIZATIONS .....10-25 SEM. HRS.

Subject Specializations Grades

- 1) General Mathematics Through Algebra (5-9) \*See College of Science and Technology for required courses.
- 2) Spanish (Pre K-Adult)
- 3) Special Education - Multi-Categorical (K-Adult)

SPED 2520	LINKING POLICY & PRACTICE IN SPECIAL EDUCATION	3
SPED 3520	BEHAVIOR ANALYSIS, INTERVENTION & SUPPORT	3
SPED 4520	ASSESS AND INSTRUCTION OF INDIVIDUAL W/EXCEPTIONALITIES	4

## PRE K-THROUGH ADULT SPECIALIZATIONS

Candidates who wish to qualify for teaching in an open or self-contained classroom, Pre-K through Adult, shall complete the following program. Candidates electing a comprehensive field must include the Methods and Materials course for that comprehensive area. If electing to complete two single-subject specializations, Methods and Materials must be completed for both specializations. The student teaching assignments must also include teaching experience at each developmental level to be named on the license.

BACHELOR OF ARTS IN EDUCATION: PRE K-ADULT EDUCATION (Hours will vary) ..... 120 MINIMUM

- I. General Studies Requirements (Hours will vary per content area)
- II. Professional Education Courses .....39 SEM. HRS.
- III. Specializations (Hours will vary)

Choose one of the following options.

- a) One comprehensive specialization to teach in grades 5-Adult or 9-Adult the related subjects which comprise the comprehensive specialization.
- b) Two single-subject specializations for grades 5-Adult
- c) One single-subject specialization for grades 5-Adult or 9-Adult and one specialization for grades 5-9
- d) One single specialization for grades 5-Adult or 9-Adult and/or a specialization in either Physical Education or Spanish Pre K-Adult.

• I. General Studies Requirements:

Each content area will have a list of required, recommended or suggested courses to meet the general studies requirements. This information is listed prior to the required program courses for each teaching field.

- II. Professional Education .....39 SEM. HRS.
  - EDUC 2200 INTRO. TO EDUCATION ..... 3
  - EDUC 2201 INSTRUCTIONAL TECHNOLOGY ..... 3
  - EDUC 2203 HUMAN DEVELOPMENT, LEARNING AND TEACHING..... 3
  - EDUC 2240 HIGH INCIDENCE DISABILITIES FOR EDUCATORS..... 3
  - EDUC 2260 INSTRUCTIONAL DESIGN I ..... 3
  - EDUC 2265 FIELD EXPERIENCE 2 ..... 1
  - EDUC 3331 READING IN THE CONTENT AREAS..... 3
  - EDUC 3340 INSTRUCTIONAL DESIGN II ..... 3
  - EDUC 3351 INCLUSIVE CLASSROOM PRACTICES ..... 3
  - EDUC 3365 FIELD EXPERIENCE 3 ..... 2
  - EDUC 4485 ACTION RESEARCH ..... 1
  - EDUC 4486 PORTFOLIO..... 1
  - EDUC 4496 SECONDARY STUDENT TEACHING ..... 10

• III. Specializations

For course requirements in each specialization, refer to the chapter for the desired subject (e.g.: for Art Education, see the School of Fine Arts Catalog Section). Secondary special methods and student teaching are required in all areas in order to be licensed. Secondary

and Pre K-Adult specializations are also available via the Master of Arts in Teaching program.

ART	.....	PRE K-ADULT
BIOLOGY	.....	9-ADULT
CHEMISTRY	.....	9-ADULT
EARTH, SPACE AND SCIENCE	.....	5-ADULT
ENGLISH	.....	5-ADULT
GENERAL SCIENCE	.....	5-ADULT
JOURNALISM	.....	5-ADULT
MATHEMATICS	.....	5-ADULT
GENERAL MATHEMATICS THROUGH ALGEBRA I*	.....	5-9
MUSIC	.....	PRE K-ADULT
ORAL COMMUNICATION	.....	5-ADULT
PHYSICAL EDUCATION	.....	PRE K-ADULT
PHYSICS	.....	9-ADULT
SCHOOL HEALTH EDUCATION	.....	5-ADULT
SOCIAL STUDIES	.....	5-ADULT
SPANISH	.....	PRE K-ADULT
THEATRE EDUCATION	.....	PRE K-ADULT

\*requires second specialization for 5-Adult, 9-Adult, or Pre K-Adult

## MINOR IN EDUCATION FOR B.S., B.A. DEGREE

The School of Education, Health and Human Performance offers a minor for interested bachelor's degree students. It is a valuable option for students who have an interest in teaching in their major field (e.g. math, biology, etc.) in the future but do not wish to pursue teacher certification at this time. Students can complete their major with an education minor during the normal four-year sequence and then return to complete the requirements for becoming licensed to teach in their respective field(s).

Teacher candidates are advised to complete the appropriate Special Methods course in addition to the minor if available, (e.g., Math 4531 for a Math major, ENGL 4431 for an English major, etc.). All course prerequisites, including formal admission to teacher education, are required for the minor. Interested students should contact the Dean of Teacher Education, who serves as the advisor for the minor.

MINOR IN EDUCATION .....24 SEM. HRS.

Required Courses (24 hrs.)

EDUC 2200 INTRODUCTION TO EDUCATION.....3

EDUC 2201 INSTRUCTIONAL TECHNOLOGY.....3  
EDUC 2203 HUMAN DEVELOPMENT, LEARNING AND TEACHING..... 3  
EDUC 2260 INSTRUCTIONAL DESIGN I..... 3  
EDUC 2265 FIELD EXPERIENCE 2 ..... 1  
EDUC 3331 READING IN THE CONTENT AREAS.....3  
EDUC 3340 INSTRUCTIONAL DESIGN II.....3  
EDUC 3351 INCLUSIVE CLASSROOM PRACTICES ..... 3  
EDUC 3365 FIELD EXPERIENCE 3 ..... 2

# Department of Health + Human Performance

## COMMUNITY HEALTH EDUCATION

The School of Education, Health and Human Performance offers a Bachelor of Science in Community Health Education and also a minor for students interested in pursuing a career in this area.

BACHELOR OF SCIENCE IN COMMUNITY HEALTH EDUCATION	120 SEM. HRS.
Community Health Education	56 SEM. HRS.
General Studies Requirements	46-47 SEM. HRS.
Area of Emphasis <b>OR</b> complete a Minor	12-21 SEM. HRS.

- Community Health Education Curriculum .....61 SEM. HRS.

Required Courses (56 hrs.)

PHED 1100	FITNESS AND WELLNESS .....	2
HLTA 1110	NUTRITION .....	3
HLTA 1150	INTRODUCTION TO HEALTH.....	3
HLTA 2202	ENVIRONMENTAL HEALTH .....	3
HLTA 2203	CONTEMPORARY DRUG & BEHAVIOR ISSUES .....	3
HLTA 2210	DISEASE ETIOLOGY .....	3
HLTA 3315	HEALTHY SEXUALITY.....	3
HLTA 3320	BEHAVIOR CHANGE THEORY .....	3
HLTA 3330	INTRODUCTION TO EPIDEMIOLOGY AND BIOSTATISTICS.....	3
HLTA 3345	COMMUNITY NEEDS ASSESSMENT .....	3
HLTA 3350	HEALTH PROMOTION AND PROGRAM PLANNING.....	3
HLTA 3360	COMMUNICATION TECHNIQUES FOR HEALTH PROMOTION .....	2
HLTA 3390	CERTIFIED HEALTH EDUCATION SPECIALIST (CHES) PREPARATION .....	2
HLTA 4410	SEMINAR IN PUBLIC HEALTH EDUCATION (FALL ONLY).....	3
HLTA 4440	HEALTH RESEARCH AND MEASUREMENT DESIGN .....	3
HLTA 4445	HEALTH RESEARCH IMPLEMENTATION .....	3
HLTA 4446	FUNDING & ADMINISTRATION OF HEALTH PROMOTION PROGRAMS .....	3
HLTA 4451	FIELD PRACTICUM IN COMMUNITY HEALTH.....	3
HLTA 4452	FIELD PRACTICUM IN COMMUNITY HEALTH PORTFOLIO.....	1

Community Health majors may complete a minor in any field offered at Fairmont State or an Area of Emphasis in (a) Psychology, (b)

Sociology, (c) Exercise Science, or (d) Nutrition. Students completing the Area of Emphasis must complete 12 hours of courses within the same emphasis area. Pre-requisites may be required for some areas. Listed below are specific courses related to each emphasis area.

**Emphasis in Psychology:** Complete PSYC 1101 and an additional 9-credit hours. Choose any Psychology courses at the 3000 and 4000 levels to meet the 9-credit hour requirements. PSYC/SOCY 2240 - Behavioral Statistics may be completed to meet 3 of the 9 credit hours.

**Emphasis in Sociology:** Complete SOCY 1110 and an additional 9-credit hours. Choose any Sociology courses at the 3000 and 4000 levels to meet these 9-credit hours. PSYC/SOCY-Behavioral Statistics may be completed to meet 3 of the 9 credit hours.

**Emphasis in Exercise Science:** PHED 2214 (4) PHED 3312 Physiology of Exercise (3); PHED 3316 Fitness Assessment (3); PHED 3317 Clinical Applications in Exercise Physiology (3).

**Emphasis in Nutrition:** Students may choose HLTA 1120 Nutrition in Childhood & Adolescence (3); HLTA 1145 Sports Nutrition (3); HLTA 1155 Local Market Agriculture (3); HLTA 2215 Introduction to Foods (3); HLTA 2220 Diet Therapy (3); or HLTA 2250 Applications in Community & Medical Nutrition (3) to meet the required 12 credit hours.

- General Studies Requirements .....46-47 SEM. HRS.

Outcome 1 - Critical Analysis:

Any course in Outcome 1 ..... 3

Outcome 2 - Quantitative Literacy:

MATH 1507 or 1407 or higher in Outcome 2 ..... 3

Outcome 3 - Written Communication:

ENGL 1101 (Institutional Requirement) ..... 3

Outcome 4 - Teamwork:

Any course in Outcome 4 ..... 3

Outcome 5 - Information Literacy:

ENGL 1102 (Institutional Requirement) ..... 3

Outcome 6 - Technology Literacy:

Any Course in Outcome 6 ..... 3

Outcome 7 - Oral Communication:

COMM 2200, COMM 2201, or COMM 2202\* ..... 3

Outcome 8 - Citizenship:

Any Course in Outcome 8 ..... 3

Outcome 9- Ethics:

Any course in Outcome 9 ..... 3

Outcome 10- Health:

PHED 1100(Required by Major) ..... X

Outcome 11- Interdisciplinary:

Any Course in Outcome 11 ..... 3

Outcome 12 - Arts:	
Any course listed in Outcome 12.....	3
Outcome 13 - Humanities:	
Any course listed in Outcome 13.....	3
Outcome 14 - Social Sciences:	
PSYC 1101 or SOCY 1110 (recommended).....	3
Outcome 15 - Natural Science:	
Any course listed in Outcome 15.....	3
Outcome 16 - Cultural Awareness:	
Any Course in Outcome 16.....	3
Additional General Studies Hours:	
HLTA 2203 (Writing Intensive Course).....	X

\* Any course(s) marked with an asterisk (\*) above are recommended to complement the program curriculum; however, students may select any other courses from the approved General Studies list.

**MINOR IN COMMUNITY HEALTH EDUCATION ..... 20-21 SEM. HRS.**

Required Courses

HLTA 1150 INTRODUCTION TO HEALTH .....	3
HLTA 2210 DISEASE ETIOLOGY.....	3
HLTA 3320 BEHAVIOR CHANGE THEORY.....	3
HLTA 3330 INTRODUCTION TO EPIDEMIOLOGY & BIOSTATISTICS ...	3
HLTA 3345 COMMUNITY NEEDS ASSESSMENT .....	3
HLTA 3350 HEALTH PROMOTION AND PROGRAM PLANNING.....	3

Elective (chose one course from below):

HLTA 2202 ENVIRONMENTAL HEALTH .....	3
HLTA 2203 CONTEMPORARY AND DRUG BEHAVIOR ISSUES.....	3
HLTA 3315 HEALTHY SEXUALITY .....	3
HLTA 3360 COMMUNICATION TECHNIQUES FOR HEALTH PROMOTION .....	2
HLTA 3390 CERTIFIED HEALTH EDUCATION SPECIALIST (CHES) PREPARATION . .....	2
HLTA 4446 FUNDING AND ADMINISTRATION OF HEALTH PROMOTION PROGRAMS ... ..	3

**MINOR IN COMMUNITY HEALTH EDUCATION ..... 20-21 SEM. HRS.**

Required Courses

HLTA 1150 INTRODUCTION TO HEALTH .....	3
HLTA 2210 DISEASE ETIOLOGY.....	3
HLTA 3320 BEHAVIOR CHANGE THEORY.....	3
HLTA 3330 INTRODUCTION TO EPIDEMIOLOGY & BIOSTATISTICS ...	3
HLTA 3345 COMMUNITY NEEDS ASSESSMENT .....	3
HLTA 3350 HEALTH PROMOTION AND PROGRAM PLANNING.....	3

Elective (chose one course from below):

HLTA 2202 ENVIRONMENTAL HEALTH .....	3
HLTA 2203 CONTEMPORARY AND DRUG BEHAVIOR ISSUES .....	3
HLTA 3315 HEALTHY SEXUALITY .....	3
HLTA 3360 COMMUNICATION TECHNIQUES FOR HEALTH PROMOTION .....	2
HLTA 3390 CERTIFIED HEALTH EDUCATION SPECIALIST (CHES) PREPARATION . .....	2
HLTA 4446 FUNDING AND ADMINISTRATION OF HEALTH PROMOTION PROGRAMS ... ..	3

**EXERCISE SCIENCE**

A Bachelor of Science degree and minor are offered in Exercise Science for students interested in pursuing careers outside teaching.

The Exercise Science major integrates the theories and practicalities of exercise physiology in preparing graduates for a career in this field. This is achieved through an understanding of the science of human movement and physiology, coupled with essential hands-on experiences that culminate in an internship in a health/fitness facility. Graduates of this major are prepared to pursue careers in athletics programs, exercise/fitness centers, hospital wellness programs, corporate fitness programs, rehabilitation centers, and allied health areas. Additionally, the program prepares students for advanced study in related fields such as exercise physiology, physical therapy, occupational therapy, etc. Students also have the opportunity to actively participate in faculty research projects, thus expanding their professional knowledge and abilities.

**BACHELOR OF SCIENCE IN**

<b>EXERCISE SCIENCE .....</b>	<b>120 SEM. HRS.</b>
Exercise Science Curriculum (see below) .....	52-53 SEM. HRS.
General Studies Requirements .....	36-39 SEM. HRS.
Free Electives .....	28-38 SEM. HRS.
A minor is not required for this major.	

- Exercise Science Curriculum.....52-53 SEM. HRS.

Required Courses (52-53 hrs.)

PHED 1100 FITNESS & WELLNESS.....	2
PHED 1121 INTRO. SEM. IN HUMAN MOVEMENT .....	2
PHED 2200 ACCIDENT ANALYSIS & EMERGENCY CARE.....	2
PHED 2211 ANATOMY AND PHYSIOLOGY.....	4

PHED 3312 PHYSIOLOGY OF EXERCISE.....	3
PHED 3313 BIOMECHANICS .....	3
PHED 3314 GROUP FITNESS .....	2
PHED 3316 FITNESS ASSESSMENT & EXERCISE PRESCRIPTION.....	3
PHED 3317 CLINICAL APPLICATIONS OF EXERCISE PHYSIOLOGY.....	3
PHED 3318 SPORTS SOCIAL PSYCHOLOGY .....	3
PHED 3315 ADVANCED PERSONAL TRAINING.....	3
-OR-	
PHED 3350 PHYSICAL ACTIVITY & FITNESS EDUCATION .....	3
PHED 3360 STRENGTH & CONDITIONING THEORY & PRACTICE .....	3
PHED 4400 RESEARCH METHODS .....	3
PHED 4410 RESEARCH DESIGN SEMINAR .....	3
PHED 4420 EXERCISE SCIENCE INTERNSHIP.....	3
HLTA 1110 NUTRITION .....	3
HLTA 1150 INTRODUCTION TO HEALTH.....	3
CHEM 1101 GENERAL CHEMISTRY I.....	4
-OR-	
CHEM 1105 CHEMICAL PRINCIPLES 1 .....	5

• General Studies Requirements .....36-39 Sem. Hrs.

Outcome 1 - Critical Analysis:

ENGL 1102 (Institutional Requirement) ..... 3

Outcome 2 - Quantitative Literacy:

MATH 1507 or 1407 or higher in Outcome 2 ..... 3

Outcome 3 - Written Communication:

ENGL 1101 (Institutional Requirement)..... 3

Outcome 4 - Teamwork:

COMM 2200 or 2201 or RECR 1141 (Required by Major.Provide foundation for communicating with clients/patients.) ..... 3

Outcome 5 - Information Literacy:

ENGL 1102 (Satisfied in Outcome 1) ..... X

Outcome 6 - Technology Literacy:

Any course listed in Outcome 6..... 3

Outcome 7 - Oral Communication:

COMM 2200 or 2201 (Satisfied in Outcome 4 if COMM 2200 or 2201 taken) If not taking COMM 2200 or 2201, any course listed in

Outcome 7 ..... X-3

Outcome 8 - Citizenship:

Any course listed in Outcome 8..... 3

Outcome 9- Ethics

SOCY 1110 (PR for PHED 3318) ..... 3

Outcome 10- Health:

PHED 1100 (Satisfied in Major) ..... X

Outcome 11- Interdisciplinary:

Any course in Outcome 11 ..... 3

Outcome 12 - Arts:

Any course listed in Outcome 12..... 3

Outcome 13 - Humanities:

Any course listed in Outcome 13..... 3

Outcome 14 - Social Sciences:

PSYC 1101 (PR for PHED 3318) ..... 3

Outcome 15 - Natural Science:

CHEM 1101 or CHEM 1105 (Required by Major)..... X

Outcome 16 - Cultural Awareness:

Any course in Outcome 16 ..... 3

Additional General Studies Hours:

Major Course PHED 4410 ..... X  
(Writing Intensive Course)

\* Any course(s) marked with an asterisk (\*) above are recommended to complement the program curriculum; however, students may select any other courses from the approved General Studies list.

\*Students should complete math requirements early in their academic career. Depending upon their High School preparation and test scores, additional math courses may be required.

\*Due to the number of elective hours available students may wish to consider a second major in lieu of a minor.

MINOR IN EXERCISE SCIENCE ..... 20 SEM. HRS.

Required Courses (20 hrs.)

PHED 1121 INTRODUCTION TO HUMAN MOVEMENT .....	2
PHED 2211 ANATOMY & PHYSIOLOGY .....	4
PHED 3312 PHYSIOLOGY OF EXERCISE.....	3
PHED 3313 BIOMECHANICS .....	3
PHED 3316 FITNESS ASSESSMENT.....	3
PHED 3318 SPORT SOCIAL PSYCHOLOGY .....	2
PHED 4400 RESEARCH METHODOLOGY .....	3

## SCHOOL HEALTH EDUCATION

The Bachelor of Arts in Education degree offers a subject specialization in Health Education, grades 5-Adult. Teacher candidates must meet all requirements for entry into the teacher education program and achieve a 2.75 GPA in the health education coursework prior to student teaching.

## BACHELOR OF ARTS IN EDUCATION:

SCHOOL HEALTH EDUCATION 5-ADULT

TEACHING SPECIALIZATION .....	120 SEM. HRS.
Health Education Curriculum (see below).....	40 SEM. HRS.
General Studies Requirements .....	39-41 SEM. HRS.
Professional Education Courses .....	39 SEM. HRS.
Free Electives 0-2 SEM. HRS.	

• School Health Education Curriculum.....40 SEM. HRS.

Required Courses (40 hrs.)

HLTA 1110	NUTRITION .....	3
HLTA 1150	INTRODUCTION TO HEALTH .....	3
HLTA 2202	ENVIRONMENTAL HEALTH .....	3
HLTA 2203	CONTEMPORARY AND DRUG BEHAVIOR ISSUES.....	3
HLTA 2210	DISEASE ETIOLOGY.....	3
HLTA 3310	SCHOOL HEALTH CONTENT, CURRICULA AND PROGRAMMING .....	3
HLTA 3315	HEALTHY SEXUALITY .....	3
HLTA 3325	INSTRUCTIONAL STRATEGIES AND PLANNING IN SCHOOLHEALTH .....	3
HLTA 3355	READINGS IN HEALTH EDUCATION.....	2
HLTA 3360	COMMUNICATION TECHNIQUES IN HEALTH PROMOTION .....	2
HLTA 4400	HEALTH EDUCATION IN THE ELEMENTARY SCHOOL .....	3
HLTA 4431	METHODS AND MATERIALS IN SCHOOL HEALTH EDUCATION.....	3
PHED 2200	ACCIDENT ANALYSIS & EMERGENCY CARE .....	2
PHED 2211	ANATOMY AND PHYSIOLOGY.....	4

• Professional Education.....39 SEM. HRS.

EDUC 2200	INTRO. TO EDUCATION .....	3
EDUC 2201	INSTRUCTIONAL TECHNOLOGY .....	3
EDUC 2203	HUMAN DEVELOPMENT, LEARNING AND TEACHING. ....	3
EDUC 2240	HIGH INCIDENCE DISABILITIES FOR EDUCATORS.....	3
EDUC 2260	INSTRUCTIONAL DESIGN I.....	3
EDUC 2265	FIELD EXPERIENCE 2 .....	1
EDUC 3331	READING IN THE CONTENT AREAS.....	3
EDUC 3340	INSTRUCTIONAL DESIGN II.....	3
EDUC 3351	INCLUSIVE CLASSROOM PRACTICES .....	3
EDUC 3365	FIELD EXPERIENCE 3 .....	2
EDUC 4485	ACTION RESEARCH.....	1
EDUC 4486	PORTFOLIO.....	1
EDUC 4496	SECONDARY STUDENT TEACHING .....	10

• General Studies Requirements ..... 39-41 SEM. HRS.

Outcome 1 – Critical Analysis:

ENGL 1102 (Institutional Requirement) .....	3
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Outcome 2 - Quantitative Literacy:

MATH 1507/1407 or higher (Required by Major).....	3
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Outcome 3 - Written Communication:

ENGL 1101 (Institutional Requirement).....	3
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Outcome 4 - Teamwork:

COMM 2200 or 2201 (Required by Major. Provide foundation for communicating with clients/patients) .....	3
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Outcome 5 - Information Literacy:

EDUC 2201 (Satisfied in Major) .....	X
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Outcome 6 - Technology Literacy:

EDUC 2201 (Satisfied in Major) .....	X
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Outcome 7 - Oral Communication:

COMM 2200 or 2201* .....	X
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Outcome 8 - Citizenship:

HIST 1107 or HIST 1108*.....	3
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Outcome 9- Ethics

SOCY 1110* .....	3
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Outcome 10- Health:

PHED 1100 (Required by Major) .....	2
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Outcome 11- Interdisciplinary:

GEOG 2210 or GEOG 3315 or GEOG 3330* .....	3-4
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Outcome 12 - Arts:

Any course listed in Outcome 12 .....	3
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Outcome 13 - Humanities:

HIST 1107 or HIST 1108*.....	3
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Outcome 14 - Social Sciences:

SOCY 1110* .....	3
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Outcome 15 - Natural Science:

SCIE 1100 or SCIE 1110*.....	4-5
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Outcome 16 - Cultural Awareness:

GEOG 2210 or GEOG 3315 or GEOG 3330* .....	3
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Additional General Studies Hours:

HLTA 2203 (Satisfied in Major) .....	X
(Writing Intensive)	

\* Any course(s) marked with an asterisk (\*) above are recommended to complement the program curriculum; however, students may select any other courses from the approved General Studies list.

## PHYSICAL EDUCATION

The Bachelor of Arts in Education degree offers a subject specialization in Physical Education, grades Pre K-Adult. The Physical Education Program is designed to stimulate the development of competencies in the application, analysis and syntheses of concepts related to effective performance of sport and human movement activities. Teacher candidates must meet all requirements for entry into the teacher education program and achieve a 2.75 GPA in the physical education coursework prior to student teaching.

See the beginning of this chapter for further information on General Studies Requirements for the BA in Education.

### BACHELOR OF ARTS IN EDUCATION:

TEACHING SPECIALIZATION IN PHYSICAL EDUCATION PRE-K-ADULT .....	120 SEM. HRS.
Physical Education Curriculum .....	50 SEM. HRS.

General Studies Requirements .....30 SEM. HRS.  
 Professional Education Courses .....39 SEM. HRS.  
 Free Electives 1 SEM. HRS.

• Physical Education Curriculum .....43 SEM. HRS.

Required Courses (50 hrs.)

PHED 1100 FITNESS AND WELLNESS ..... 2  
 PHED 1121 INTRO. SEM. IN HUMAN MOVEMENT ..... 2  
 PHED 2211 ANATOMY AND PHYSIOLOGY ..... 4  
 PHED 2200 ACCIDENT ANALYSIS & EMERGENCY CARE ..... 2  
 PHED 2240 OUTDOOR LEISURE ACTIVITIES ..... 2  
 PHED 2241 GYMNASTICS AND DANCE ..... 2  
 -OR-  
 PHED 2242 SOCIAL DANCE ..... 2  
 PHED 2243 TEACHING TEAM PASSING SPORTS ..... 3  
 PHED 2244 TEACHING NET/WALL SPORTS ..... 3  
 PHED 2246 TEACHING STRIKING/TARGET SPORTS ..... 3  
 PHED 3310 MOTOR BEHAVIOR ..... 3  
 PHED 3312 PHYSIOLOGY OF EXERCISE ..... 3  
 PHED 3313 BIOMECHANICS ..... 3  
 PHED 3323 TEACHING ELEMENTARY PHYSICAL EDUCATION ..... 3  
 PHED 3324 PERFORMANCE-BASED ASSESSMENT ..... 3  
 PHED 3325 INSTRUCTIONAL STRATEGIES ..... 3  
 PHED 3343 ADAPTED PHYSICAL EDUCATION ACTIVITIES  
 (SPRING ONLY) ..... 3  
 PHED 3350 PHYSICAL ACTIVITY AND FITNESS EDUCATION ..... 3  
 PHED 4431 METHODS AND MATERIALS IN TEACHING  
 PHYSICAL EDUCATION ..... 3

• Professional Education .....39 SEM. HRS.

EDUC 2200 INTRO. TO EDUCATION ..... 3  
 EDUC 2201 INSTRUCTIONAL TECHNOLOGY ..... 3  
 EDUC 2203 HUMAN DEVELOPMENT, LEARNING AND TEACHING ..... 3  
 EDUC 2240 HIGH INCIDENCE DISABILITIES FOR EDUCATORS ..... 3  
 EDUC 2260 INSTRUCTIONAL DESIGN I ..... 3  
 EDUC 2265 FIELD EXPERIENCE 2 ..... 1  
 EDUC 3331 READING IN THE CONTENT AREAS ..... 3  
 EDUC 3340 INSTRUCTIONAL DESIGN II ..... 3  
 EDUC 3351 INCLUSIVE CLASSROOM PRACTICES ..... 3  
 EDUC 3365 FIELD EXPERIENCE 3 ..... 2  
 EDUC 4485 ACTION RESEARCH ..... 1  
 EDUC 4486 PORTFOLIO ..... 1  
 EDUC 4496 SECONDARY STUDENT TEACHING ..... 10

• General Studies Requirements .....36 SEM. HRS.

Outcome 1 - Critical Analysis:  
 ENGL 1102 (Institutional Requirement) ..... 3  
 Outcome 2 - Quantitative Literacy:  
 MATH 1507 or 1407 or higher in Outcome 2 ..... 3

Outcome 3 - Written Communication:  
 ENGL 1101 (Institutional Requirement) ..... 3  
 Outcome 4 - Teamwork:  
 COMM 2200 or 2201\* ..... 3  
 Outcome 5 - Information Literacy:  
 EDUC 2201 (Satisfied in Major) ..... X  
 Outcome 6 - Technology Literacy:  
 EDUC 2201 (Satisfied in Major) ..... X  
 Outcome 7 - Oral Communication:  
 COMM 2200 or 2201 (Met in Outcome 4) ..... X  
 Outcome 8 - Citizenship:  
 HIST 1107 or 1108\* ..... 3  
 Outcome 9- Ethics  
 Recommended SOCY 1110 ..... 3  
 Outcome 10- Health:  
 PHED 1100 (Satisfied in Major) ..... X  
 Outcome 11- Interdisciplinary:  
 Any course in Outcome 11 ..... 3  
 Outcome 12 - Arts:  
 Any course listed in Outcome 12 ..... 3  
 Outcome 13 - Humanities:  
 HIST 1107-1108\* ..... X  
 Outcome 14 - Social Sciences:  
 SOCY 1110 (Met in Outcome 9) ..... X  
 Outcome 15 - Natural Science:  
 Any Course in Outcome 15 ..... 4  
 Outcome 16 - Cultural Awareness:  
 Any course in Outcome 16 ..... 3  
 Additional General Studies Hours:  
 Major Course PHED 3325 ..... X  
 (Writing Intensive)

\* Any course(s) marked with an asterisk (\*) above are recommended to complement the program curriculum; however, students may select any other courses from the approved General Studies list.

**OUTDOOR RECREATION LEADERSHIP MINOR**

The Outdoor Recreation Leadership minor prepares students for professional opportunities in the field of outdoor recreation and is designed to complement of major taken in another field. Course work is focused on leadership training and lifelong physical activity through experiential learning. Students engage in a combination of classroom and field-based coursework to develop technical skills, theoretical knowledge, leadership and teaching ability needed for successful practice as professionals. Students have the opportunity to learn to organize, lead, and manage people,

programs and events in a variety of outdoor recreation settings. One of the great values of the Outdoor Recreation Leadership minor lies in enhancing employability in other fields.

- 3) Acceptable scores on the CORE Reading, Writing and Mathematics tests
- 4) Public School Practicum

MINOR IN OUTDOOR RECREATION LEADERSHIP.....20 SEM. HRS.

Required Courses (14 hrs.)

RECR 1141 FOUNDATIONS OF OUTDOOR RECREATION.....	3
RECR 1151 BACKCOUNTRY LIVING SKILLS.....	2
RECR 2220 PROGRAM PLANNING AND ORGANIZATION.....	3
RECR 3330 GROUP LEADERSHIP.....	3
RECR 3340 INTERNSHIP/CAMP ADMINISTRATION.....	3

Electives (6 hrs.)

(Choose two courses from Group I and one course from GROUP II.)

**GROUP I**

RECR 1150 INTRODUCTION TO ROCK CLIMBING .....	2
RECR 1177 INTRODUCTION TO ADVENTURE WATER SPORTS.....	2
RECR 1188 INTRODUCTION TO WINTER SPORTS .....	2

**GROUP II**

PHED 1116 CASTING AND ANGLING* .....	1
PHED 2200 ACCIDENT ANALYSIS AND EMERGENCY CARE.....	2
PHED 3365 ACTIVITIES IN OUTDOOR EDUCATION* .....	1-3
PHED 3366 FIELD EXPERIENCE IN OUTDOOR EDUCATION* .....	1-3
RECR 1153 SEMINAR IN OUTDOOR RECREATION* .....	2
RECR 1154 RECREATION FIELD WORK I .....	2
RECR 1155 RECREATION FIELD WORK II* .....	2
RECR 1199 SPECIAL TOPICS IN RECREATION .....	1-6
RECR 2250 SELECT TOPICS IN CERTIFICATIONS .....	2

**SCHOOL NURSE PROGRAM -  
NURSING AND ALLIED HEALTH**

The School Nurse program is open to students who currently possess RN licensure (Bachelor’s Degree) or plan to earn it. This option licenses interested parties to serve as a school nurse in a Pre K-Adult setting. Interested persons should contact the Dean of the School of Education or Dean of the School of Nursing and Allied Health. The requirements are as follows.

- 1) Licensure as a Registered Nurse (Bachelor’s Degree)
- 2) EDUC 2200 - Introduction to Education

# Programs of Study

## School of Fine Arts

Dr. Anne L. Patterson, Interim Dean  
304 Wallman Hall  
(304) 367-4219  
Anne.patterson@fairmontstate.edu

### FACULTY

BOGGESS, JENNIFER H. (2002)  
Professor of Art

DUGAN, JOEL (2018)  
Associate Professor of Art

EICHENBAUM, DANIEL (2011)  
Coordinator, Department of Music  
Associate Professor of Music

FORD, KYLIE (2018)  
Assistant Professor of Art

GRAY, JONI (2015)  
Assistant Professor of Communication Arts

GREENHAM, JEFF S. (2006)  
Coordinator, Department of Art  
Associate Professor of Art

KIRK, FRANCENE (2000)  
Professor of Communication and Theatre Arts  
Abelina Suarez Professor

MORRISON, JOHN (2012)  
Assistant Professor of Music

O'CONNOR, JOHN E. (1998)  
Theatre Arts Program Coordinator  
Professor/Senior Level: Theatre Arts

RICHARDS, AIMEE (2006)  
Communication Arts Program Coordinator  
Associate Professor of Communication Arts  
Debate Coach

SCHRUERS, ERIC (2014)  
Assistant Professor of Art History

SNYDER, TROY (2004)  
Professor of Theatre Arts

SPEARS, SAMUEL (2009)  
Associate Professor of Music

WOTRING-NELSON,  
ELIZABETH (2018)  
Assistant Professor of Theatre Arts  
B.A. Greenville College  
M.M. The Boston Conservatory

WRIGHT, BRIAN (2015)  
Assistant Professor of Music

### INTRODUCTION

All programs in Art, Music, and Communication and Theatre Arts have a strong performance orientation. Students earning a major in these areas of study must periodically demonstrate, through public performance, or exhibitions, mastery of concepts and content studied.

### STUDENTS MUST:

Earn 2.0 overall GPA and, in addition, must earn a "C" or better in all their major courses.

Students applying for admission to Teacher Education must also meet the requirements of the School of Education.

Music majors must pass an end of sophomore year jury or portfolio review to continue in the program.

### ART

The Fairmont State Department of Art provides a program of study for the preparation of teachers in the visual arts, leading to the B.A. degree in Education, a B.A. degree in Studio Art, and minors in studio art and art history. The art curriculum and

activities are designed to provide the highest level of professional education for the art teacher, the creative artist and the scholar of the arts, and to play a major role in the cultural life of the college campus and the community.

For completion of a B.A. degree program in the School of Fine Arts, students must:

- Pass required annual portfolio review;
- Maintain a 2.0 overall GPA; and,
- Earn a “C” or better in every course for the major.

Students continuing in the Department of Art degree programs have a graduation requirement of a 2.0 overall GPA and, in addition, must also earn a “C” or better in all their major courses.

Students applying for admission to Teacher Education must also meet the requirements of the School of Education.

**BACHELOR OF ARTS IN ART EDUCATION:  
TEACHING SPECIALIZATION IN ART GRADES  
PRE K - ADULT 142 SEM. HRS.**

Art Curriculum (see below).....	61 SEM. HRS.
General Studies Requirements .....	36 SEM. HRS.
Professional Education Courses .....	39 SEM. HRS.
Free Electives 6 SEM. HRS.	

- Art Curriculum .....61 SEM. HRS.

**Core Requirements**

ART 1140 DESIGN I: 2-D.....	3
ART 1141 DESIGN II: 3-D.....	3
ART 1142 DRAWING I: FOUNDATIONS OF DRAWING.....	3
ART 2241 DRAWING II: DRAWING FROM LIFE.....	3
ART 2245 E. FOUNDATIONS .....	3
ART 2261 PAINTING I: FOUNDATIONS OF PAINTING .....	3
ART 2283 SCULPTURE I: FOUNDATIONS OF SCULPTURE .....	3

**Art History Requirements**

ART 3374 ART HISTORY FROM PREHISTORY TO 1450 .....	3
ART 3376 ART HISTORY FROM 1450 TO 1750.....	3
ART 3378 ART HISTORY FROM 1750 TO 1950.....	3
ART 3380 ART HISTORY SINCE 1950 .....	3

**Studio Requirements**

ART 2262 PAINTING II.....	3
ART 2284 SCULPTURE II.....	3
ART 3341 PRINTMAKING I.....	3
ART 3363 INTERMEDIATE WATER MEDIA.....	3
ART 3383 POTTERY I.....	3

ART 3384 POTTERY II.....	3
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**Art Education Requirements**

ART 3360 METHODS AND MATERIALS IN TEACHING ART IN ELEMENTARY AND MIDDLE SCHOOL.....	4
ART 4431 METHODS AND MATERIALS IN TEACHING ART IN SECONDARY SCHOOL .....	3
ART 4471 CAPSTONE EXPERIENCE IN ART.....	3

- Professional Education Requirements .....39 SEM. HRS.

EDUC 2200 INTRODUCTION TO EDUCATION .....	3
EDUC 2201 INSTRUCTIONAL TECHNOLOGY .....	3
EDUC 2203 HUMAN DEVELOPMENT, LEARNING AND TEACHING ....	3
EDUC 2240 HIGH INCIDENCE DISABILITIES FOR EDUCATORS.....	3
EDUC 2260 INSTRUCTIONAL DESIGN I.....	3
EDUC 2265 FIELD EXPERIENCE 2 .....	1
EDUC 3331 READING IN THE CONTENT AREAS.....	3
EDUC 3340 INSTRUCTIONAL DESIGN II.....	3
EDUC 3365 FIELD EXPERIENCE 3 .....	2
EDUC 3351 INCLUSIVE CLASSROOM PRACTICES .....	3
EDUC 4485 ACTION RESEARCH.....	1
EDUC 4486 PORTFOLIO .....	1
EDUC 4496 SECONDARY STUDENT TEACHING .....	10

- Required General Studies Courses.....36 SEM. HRS.

**Outcome 1 - Critical Analysis**

ENGL 1102 (Institutional Requirement) .....	3
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**Outcome 2 - Quantitative Literacy**

MATH 1507 or 1407 or higher in Outcome 2(Required by Major) ....	3
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**Outcome 3 - Written Communication**

ENGL 1101 (Institutional Requirement) .....	3
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**Outcome 4 - Teamwork**

ART 1140 or 1141 (Satisfied in Major).....	X
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**Outcome 5 - Information Literacy**

ENGL 1102 (Satisfied in Outcome 1).....	X
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**Outcome 6 - Technology Literacy**

ART 2245(Satisfied in Major) .....	X
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**Outcome 7 - Oral Communication**

COMM 2200 or 2201 or 2202* .....	3
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**Outcome 8 - Citizenship**

HIST 1107 or 1108 or POLI 1100* .....	3
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**Outcome 9- Ethics**

Any course in Outcome 9 .....	3
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**Outcome 10- Health**

Any Course in Outcome 10 .....	3
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**Outcome 11- Interdisciplinary**

Any course in Outcome 11 .....	3
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Outcome 12 - Arts	
ART 3374 (Satisfied in Major).....	X
Outcome 13 - Humanities	
Any course in Outcome 13 .....	3
Outcome 14 - Social Sciences	
Any Course Outcome 14.....	3
Outcome 15 - Natural Science	
Any course in Outcome 15 .....	4
Outcome 16 Outcome 16 - Cultural Awareness	
Any course in Outcome 16 .....	3
Additional General Studies hours	
ART 3374 / 3376 / 3378 / 3380 - (WIC - Satisfied in Major) .....	X

\* Any course(s) marked with an asterisk (\*) above are recommended to complement the program curriculum; however, students may select any other courses from the approved General Studies list.

## STUDIO ART

The Studio Art Program is designed for students who wish to concentrate on a specific studio discipline in the visual arts. The program requires a Foundations level of course work, which focuses on skill-building, exposure to various media, and art history. The Foundations level is followed by intense study in the chosen discipline. Three tracks are available: Drawing/Painting; Pottery/Sculpture; and Cross/Electronic Media. Additionally, the department offers optional gallery management opportunities. The program is appropriate for students who wish to work as independent artists, those who are interested in the M.A.T. with a concentration in Visual Art, and for those who wish to continue their education in Visual Art at the graduate level. Yearly portfolio reviews are required for continuation in the program.

### BACHELOR OF ARTS IN STUDIO ART

Studio Art Curriculum (including Foundations Core Art History, and Studio Track courses).....	51 SEM. HRS.
General Studies Requirements .....	36 SEM. HRS.
Electives At least 33 SEM. HRS.	
Minimum Hours Required for Graduation .....	120 SEM. HRS.

• Foundations Core Requirements.....	21 SEM. HRS.
ART 1140 DESIGN I: 2-D.....	3
ART 1141 DESIGN II: 3-D.....	3
ART 1142 DRAWING I: FOUNDATIONS OF DRAWING.....	3
ART 2245 E. FOUNDATIONS .....	3
ART 2261 PAINTING I: FOUNDATIONS OF PAINTING .....	3
ART 2283 SCULPTURE I: FOUNDATIONS OF SCULPTURE .....	3

ART 3383 POTTERY I.....	3
• Art History Requirements.....	12 SEM. HRS.
ART 3374 ART HISTORY FROM PREHISTORY TO 1450 .....	3
ART 3376 ART HISTORY FROM 1450-1750 .....	3
ART 3378 ART HISTORY FROM 1750-1950 .....	3
ART 3380 ART HISTORY SINCE 1950 .....	3

Students Choose One Track of Concentration from the following:

PAINTING TRACK .....	18 SEM. HRS.
ART 2241 DRAWING II: DRAWING FROM LIFE .....	3
ART 2262 PAINTING II: PROBLEMS IN PAINTING .....	3
ART 3363 INTERMEDIATE WATER MEDIA .....	3
ART 4463 Advanced Painting Concepts .....	3
ART 4467 AREA STUDIES I IN PAINTING .....	3
ART 4471 CAPSTONE EXPERIENCE IN ART.....	3
POTTERY/SCULPTURE TRACK .....	18 SEM. HRS.
ART 2284 SCULPTURE II.....	3
ART 3384 POTTERY II.....	3
ART 4464 POTTERY III .....	3
ART 4465 SCULPTURE III.....	3
ART 4467 AREA STUDIES I: SCULPTURE OR POTTERY .....	3
ART 4471 CAPSTONE EXPERIENCE IN ART.....	3
CROSS-MEDIA TRACK .....	18 SEM. HRS.

The intent of this track is to allow students to design a curriculum that includes traditional and electronic media. Students will work with an advisor to gear choices to the nature of the work to be pursued.

In addition to courses included in the Foundations Curriculum, students may choose from 2-Dimensional, 3-Dimensional or Cross / Electronic media courses in the Art Department:

ART 3341 PRINTMAKING I .....	3
ART 3342 PRINTMAKING II .....	3
ART 3345 E. INTERMEDIATE .....	3
ART 4445 E. ADVANCED .....	3
ART 4467 AREA STUDIES I IN CROSSMEDIA.....	3
ART 4472 VIRTUAL EXHIBITION.....	3

• Required General Studies Courses..... 36 SEM. HRS.

Outcome 1 - Critical Analysis

ENGL 1102 (Institutional Requirement) .....	3
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Outcome 2 - Quantitative Literacy

MATH 1507 or 1407 or higher in Outcome 2 (Required by Major)....	3
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Outcome 3 - Written Communication

ENGL 1101 (Institutional Requirement).....	3
Outcome 4 - Teamwork	
ART 1140 or 1141 (Satisfied in Major) .....	X
Outcome 5 - Information Literacy	
ENGL 1102 (Satisfied in Outcome 1) .....	X
Outcome 6 - Technology Literacy	
ART 2245 (Satisfied in Major).....	X
Outcome 7 - Oral Communication	
COMM 2200 or 2201 or 2202* .....	3
Outcome 8 - Citizenship	
HIST 1107 or 1108 or POLI 1100*	
Outcome 9- Ethics	
Any course in Outcome 9 .....	3
Outcome 10- Health	
Any Course in Outcome 10	
Outcome 11- Interdisciplinary	
Any course in Outcome 11 .....	3
Outcome 12 - Arts	
ART 3374 (Satisfied in Major).....	X
Outcome 13 - Humanities	
Any course in Outcome 13 .....	3
Outcome 14 - Social Sciences	
Any Course Outcome 14.....	3
Outcome 15 - Natural Science	
Any course in Outcome 15 .....	4
Outcome 16 - Cultural Awareness	
Any course in Outcome 16 .....	3
Additional General Studies hours	
ART 3374 / 3376 / 3378 /3380 (WIC - Satisfied in Major)	

\* Any course(s) marked with an asterisk (\*) above are recommended to complement the program curriculum; however, students may select any other courses from the approved General Studies list.

**MINOR IN ART 18 SEM. HRS.**

Choose six hours of art History courses.

ART 3374 ART HISTORY FROM PREHISTORY TO 1450 .....	3
ART 3376 ART HISTORY FROM 1450-1750.....	3
ART 3378 ART HISTORY FROM 1750-1950.....	3
ART 3380 ART HISTORY SINCE 1950 .....	3

Choose 12 hours of studio work courses.

Foundation Course choices:

ART 1140 DESIGN I: 2D.....	3
ART 1141 DESIGN II: 3-D.....	3
ART 1142 FOUNDATIONS OF DRAWING .....	3
ART 2245 E. FOUNDATIONS .....	3
ART 3383 POTTERY 1 .....	3

(PRE-REQUISITE REQUIRED) FOR UPPER LEVEL STUDIO COURSES.

**MINOR IN ART HISTORY..... 18 SEM. HRS.**

Required Courses (6 hrs.)

ART 1140 DESIGN I: 2D.....	3
ART 1142 FOUNDATIONS OF DRAWING.....	3

Select 12 hrs.

ART 2230 GALLERY MANAGEMENT .....	3-6
ART 3374 ART HISTORY FROM PREHISTORY TO 1450 .....	3
ART 3376 ART HISTORY FROM 1450-1750 .....	3
ART 3378 ART HISTORY FROM 1750-1950 .....	3
ART 3380 ART HISTORY SINCE 1950 .....	3

**MUSIC**

The Department of Music offers a Bachelor of Arts in Education Degree in Music (Comprehensive Pre-K-Adult), a Bachelor of Arts Degree in Music, and minors in music and musical theater. The degree programs provide a thorough background for those seeking a career in music. Major applied areas are offered in vocal, instrumental (strings, woodwinds, brass and percussion), and piano.

The department provides excellent musical instruction for its students through a highly qualified professional staff of performing and teaching professors, a varied curriculum, and a series of sequential musical experiences and studies in all music degree programs. The department believes in exposing music students to many new and innovative educational and musical ideas as well as emphasizing the musical heritage of the past. Departmental organizations such as band, choir, small ensembles, and jazz ensemble participate regularly in productions, concerts, and activities of the college, including demonstration performances and educational touring. Opportunities are provided for music students to attend numerous recitals, productions and other musical events on and off campus. Several professional and fraternal organizations are sponsored by the department, including a student chapter of National Association for Music Education, American Choral Directors Association, and Kappa Kappa Psi.

The Department of Music is housed in Wallman Hall. It is well-equipped with musical instruments and materials, and its facilities include an electronic piano classroom, theory room, music education room, technologically equipped classrooms and a computer

lab, instrumental and choral rehearsal rooms, 18 practice rooms with Smartmusic technology, nine studios and Wallman Hall Auditorium.

See the Department of Music Handbook for requirements of concert and recital attendance, piano proficiency, ensemble participation, sophomore evaluation policy, senior recital procedure, instrument checkout policy, and model schedules.

Students must pass an end of sophomore year review to continue in the program.

Students continuing in Department of Music degree program have a graduation requirement of a 2.0 overall GPA and, in addition, must earn a grade of C or better in all their major courses.

Students applying for admission to Teacher Education must also meet the requirements of the School of Education.

**BACHELOR OF ARTS IN EDUCATION:**

**TEACHING SPECIALIZATION IN MUSIC EDUCATION**

GRADES PRE K-ADULT .....	144 SEM. HRS.
Music Curriculum (see below).....	77 SEM. HRS.
General Studies Requirements .....	28 SEM. HRS.
Professional Education Courses .....	39 SEM. HRS.

- Music Curriculum .....77 SEM. HRS.

Required Courses (35 hrs):

MUSI 1100 INTRO TO MUSIC EDUCATION .....	1
MUSI 1101 CONCERTS, RECITALS, AND SEMINARS .....	0
MUSI 1111 INTRO TO MUSIC TECHNOLOGY .....	3
MUSI 1113 THEORY I .....	3
MUSI 1114 AURAL SKILLS I.....	1
MUSI 1115 THEORY II.....	3
MUSI 1116 AURAL SKILLS II.....	1
MUSI 2206 MUSIC APPREC. FOR MAJORS .....	3
MUSI 2223 THEORY III.....	3
MUSI 2224 AURAL SKILLS III.....	1
MUSI 2225 THEORY IV.....	3
MUSI 2226 AURAL SKILLS IV.....	1
MUSI 2245 FUNDAMENTALS OF CONDUCTING .....	2
MUSI 3309 ORCHESTRATION.....	2
MUSI 3313/14 MUSIC HISTORY .....	6
MUSI 3347 ADVANCED CONDUCTING .....	2

**Major Ensemble Participation (7 Semesters.)**

Seven semesters required. Select from the following:

MUSI 1167 COLLEGIATE SINGERS .....	1
MUSI 1168 MARCHING BAND .....	2
MUSI 1169 WIND ENSEMBLE .....	1

**Applied Music (26 hrs.)**

MAJOR INSTRUMENT OR VOICE .....	14
MUSI 1104 FUNCTIONAL PIANO I.....	1
MUSI 1105 FUNCTIONAL PIANO II.....	1
MUSI 2204 FUNCTIONAL PIANO III.....	1
MUSI 2205 FUNCTIONAL PIANO IV.....	1
MUSI 1139 VOICE CLASS.....	1
MUSI 2211 STRING CLASS I-II.....	1
MUSI 2213 BRASS CLASS I-II .....	1
MUSI 2215 WOODWIND CLASS I-II .....	1
MUSI 2217 PERCUSSION CLASS.....	1
MUSI 2219 GUITAR CLASS.....	1
MUSI ELECTIVE INSTRUMENTAL CLASS .....	1
MUSI 4440 SENIOR RECITAL.....	1

**Music Education Methods (9 hrs.)**

MUSI 3328 ELEMENTARY METHODS, MATERIALS, & ADMIN .....	3
MUSI 4429 INSTRUMENTAL METHODS, MATERIALS, & ADMIN .....	2
MUSI 4430 CHORAL METHODS, MATERIALS, & ADMIN .....	2
MUSI 4431 METHODS & MATERIALS IN TEACH. MUSIC, 7-12.....	2

- Professional Education.....39 SEM. HRS.

EDUC 2200 INTRO. TO EDUCATION .....	3
EDUC 2201 INSTRUCTIONAL TECHNOLOGY .....	3
EDUC 2203 HUMAN DEVELOPMENT, LEARNING AND TEACHING ....	3
EDUC 2240 HIGH INCIDENCE DISABILITIES .....	3
EDUC 2260 INSTRUCTIONAL DESIGN I.....	3
EDUC 2265 FIELD EXPERIENCE 2 .....	1
EDUC 3331 READING IN THE CONTENT AREAS.....	3
EDUC 3340 INSTRUCTIONAL DESIGN II.....	3
EDUC 3351 INCLUSIVE CLASSROOM PRACTICES .....	3
EDUC 3365 FIELD EXPERIENCE 3 .....	2
EDUC 4485 ACTION RESEARCH.....	1
EDUC 4486 PORTFOLIO .....	1
EDUC 4495 SEC./PRE-K-ADULT STUDENT TEACH. ....	10

- General Studies Requirements .....28 SEM. HRS.

(When choices are available, see the full General Studies Curriculum in Appendix A.)

**Outcome 1 - Critical Analysis:**

ENGL 1102 (Institutional Requirement) .....	3
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**Outcome 2 - Quantitative Literacy:**

MATH 1507 or 1407 or higher in Outcome 2(Required by Major) ....	3
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**Outcome 3 - Written Communication:**

ENGL 1101 (Institutional Requirement) .....	3
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**Outcome 4 - Teamwork:**

ANY MUSI LISTED (Satisfied in Major) .....	X
Outcome 5 - Information Literacy:	
ENGL 1102 (Satisfied in Outcome 1) .....	X
Outcome 6 - Technology Literacy:	
MUSI 1111 (Satisfied in Major).....	X
Outcome 7 - Oral Communication:	
COMM 2200 or 2201 or 2202* .....	3
Outcome 8 - Citizenship:	
Any course listed in Outcome 8.....	3
Outcome 9- Ethics:	
COMM 2200 or 2201 or 2202*(Satisfied in Outcome 7) .....	X
Outcome 10- Health:	
PHED 1100* .....	2
Outcome 11- Interdisciplinary:	
Any course listed in Outcome 11.....	3
Outcome 12 - Arts:	
MUSI 2206 (Satisfied in Major).....	X
Outcome 13 - Humanities:	
Any course in Outcome 13 that is also in Outcome 16.....	3
Outcome 14 - Social Sciences:	
Any course listed in Outcome 14.....	3
Outcome 15 - Natural Science:	
Any course listed in Outcome 15.....	4
Outcome 16 - Cultural Awareness:	
Any course listed in Outcome 16 that is also in Outcome 13 .....	X
Additional General Studies Hours:	
MUSI 3313 (WIC - Satisfied in Major).....	X

\* Any course(s) marked with an asterisk (\*) above are recommended to complement the program curriculum; however, students may select any other courses from the approved General Studies list.

The Bachelor of Arts in Music degree program offers academic course work in music content areas, balanced with elective and general studies courses selected by individual students based on their career goals. The degree program is organized to provide a thorough background for various careers in music. The department provides excellent musical instruction for its students through a highly qualified professional faculty, a curriculum that includes current trends in the field, and a series of sequential musical experiences and studies. The department believes in exposing music students to many new and innovative educational and musical ideas as well as emphasizing the musical heritage of the past. The B.A. in Music degree requires 120 credit hours for graduation.

BACHELOR OF ARTS IN MUSIC.....	120 SEM. HRS.
Music Curriculum .....	62 SEM. HRS.

General Studies Requirements .....	33 SEM. HRS.
Free Electives .....	25 SEM. HRS.

Students will consult with faculty advisors to discuss their course of study. Students may choose to take courses in any academic subject area in order to prepare them for potential careers.

• Required Music Curriculum ..... 62 SEM. HRS.

Music Theory (18 hrs.)

MUSI 1113 THEORY I.....	3
MUSI 1114 AURAL SKILLS I.....	1
MUSI 1115 THEORY II.....	3
MUSI 1116 AURAL SKILL II .....	1
MUSI 2223 THEORY III.....	3
MUSI 2224 AURAL SKILLS III .....	1
MUSI 2225 THEORY IV.....	3
MUSI 2226 AURAL SKILLS IV .....	1
MUSI 3311 FORM AND ANALYSIS .....	2

Music Appreciation and History (9 hrs.)

MUSI 1101 CONCERTS, RECITALS .....	0
MUSI 2206 MUSIC APPREC. FOR MAJORS .....	3
MUSI 3313 MUSIC IN WEST CIV TO 1750 .....	3
MUSI 3314 MUSIC IN WEST CIV SINCE 1750.....	3

Technology (3 hrs.)

MUSI 1111 INTRO TO MUSIC TECHNOLOGY .....	3
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Conducting (2 hrs.)

MUSI 2245 FUNDAMENTALS OF CONDUCTING .....	2
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Major Ensemble Participation (8 Semesters.)

Eight semesters required. Select from the following:

MUSI 1167 COLLEGIATE SINGERS, OR
MUSI 1168 MARCHING BAND, OR
MUSI 1169 WIND ENSEMBLE, OR

Applied Music (22 hrs.)

MAJOR INSTRUMENT OR VOICE .....	8 SEMESTERS
MUSI 1139 VOICE CLASS.....	1
MUSI 1104 FUNCTIONAL PIANO I.....	1
MUSI 1105 FUNCTIONAL PIANO II.....	1
MUSI 1160 APPLIED MUSIC I .....	8
MUSI 2204 FUNCTINAL PIANO III .....	1
MUSI 2205 FUNCTIONAL PIANO IV.....	1
MUSI 3360 APPLIED MUSIC II .....	8
MUSI 4440 SENIOR RECITAL.....	1

• General Studies Requirements ..... 33 SEM. HRS.

(When choices are available, see the full General Studies

Curriculum in Appendix A.)

Outcome 1 - Critical Analysis:

ENGL 1102 (Institutional Requirement)..... 3

Outcome 2 - Quantitative Literacy:

MATH 1507 or 1407 or higher in Outcome 2(Required by Major)..... 3

Outcome 3 - Written Communication:

ENGL 1101 (Institutional Requirement)..... 3

Outcome 4 - Teamwork:

ANY MUSI LISTED (Satisfied in Major) ..... X

Outcome 5 - Information Literacy:

ENGL 1102 (Satisfied in Outcome 1) ..... X

Outcome 6 - Technology Literacy:

MUSI 1111 (Satisfied in Major)..... X

Outcome 7 - Oral Communication:

COMM 2200 or 2201 or 2202\* ..... 3

Outcome 8 - Citizenship:

HIST 1107 or 1108\* ..... 3

Outcome 9- Ethics:

Any course listed in Outcome 9..... 3

Outcome 10- Health:

PHED 1100\* ..... 2

Outcome 11- Interdisciplinary:

Any course listed in Outcome 11..... 3

Outcome 12 - Arts:

MUSI 2206 (Satisfied in Major)..... X

Outcome 13 - Humanities:

HIST 1107 or HIST 1108\* (Satisfied in Outcome 8)..... X

Outcome 14 - Social Sciences:

Any course listed in Outcome 14..... 3

Outcome 15 - Natural Science:

Any course listed in Outcome 15..... 4

Outcome 16 - Cultural Awareness:

Any course listed in Outcome 16..... 3

Additional General Studies Hours:

MUSI 3313 (WIC - Satisfied in Major)..... X

\* Any course(s) marked with an asterisk (\*) above are recommended to complement the program curriculum; however, students may select any other courses from the approved General Studies list.

MINOR IN MUSIC.....24 SEM. HRS.

The minor in music requires a minimum of four semesters of course work. See the Department of Music Coordinator before registering for Music classes. Music minors are encouraged to enroll in applied lessons and ensembles for eight semesters. See the Department of Music Handbook for more information.

Required Courses (16 hrs.)

MUSI 1101 CONCERTS, RECITALS, AND SEMINARS (4 SEMESTERS). 0

MUSI 1104 FUNCTIONAL PIANO I FALL..... 1

MUSI 1105 FUNCTIONAL PIANO II SPRING..... 1

MUSI 1113 THEORY I..... 3

MUSI 1114 AURAL SKILLS I..... 1

MUSI 1115 THEORY II..... 3

MUSI 1116 AURAL SKILLS II ..... 1

MUSI 1139 VOICE CLASS ..... 1

MUSI 2206 MUSIC APPREC. FOR MAJORS FALL ..... 3

MUSI 2245 FUNDAMENTALS OF CONDUCTING FALL..... 2

Applied Lesson Instruction (4 hrs.)

Four semesters required.

MUSI 1140 VOICE.....OR

INSTRUMENT (SEE COURSES OF INSTRUCTION

FOR INSTRUMENTS OFFERED)..... 1

Ensemble Participation (4 Semesters.)

Four semesters required. Select from the following:

MUSI 1167 COLLEGIATE SINGERS..... 1

MUSI 1168 MARCHING BAND ..... 2

MUSI 1169 WIND ENSEMBLE ..... 1

MINOR IN MUSICAL THEATER.....28 SEM. HRS.

Designed for students interested in performing musical theater, Fairmont State's Musical Theater Minor provides hands-on training and experience that is open to all students regardless of major. Students will take classes in acting, vocal performance, music theory, keyboard, and dance. Then, utilizing these skills, they will perform with our University's award-winning theater department. For students majoring in theater, this program expands their training in musical theater, while students in all other majors can continue to pursue their passion for musical theater.

Required Courses (18 hrs.)

MUSI 1102 INTRODUCTION TO KEYBOARD ..... 1

MUSI 1104 FUNCTIONAL PIANO I FALL ..... 1

MUSI 1108 BEGINNING THEORY..... 2

MUSI 1113 THEORY I..... 3

MUSI 1114 AURAL SKILLS I..... 1

MUSI 1139 VOICE CLASS ..... 1

MUSI 2207 HISTORY OF MUSICAL THEATER ..... 3

THEA 1114 BODY TRAINING & STAGE MOVEMENT ..... 3

THEA 2230 ACTING ..... 3

Applied Lesson Instruction (6 hrs.)

MUSI 1140 VOICE.....	3
THEA 2218 MUSICAL THEATER DANCE.....	3
Ensemble Participation (4 hrs.)	
MUSI 1167 COLLEGIATE SINGERS.....	2
THEA 2238 ACTING WORKSHOP.....	2

## COMMUNICATION AND THEATRE ARTS

The Department of Communication and Theatre Arts faculty has designed a program to provide students with a variety of choices for developing their knowledge and skills through study and performance. By building a base of performance experience through classroom exercises, public performances, and competition, students can develop communication expertise which will prepare them to meet the challenges of the future.

Students in the Department of Communication and Theatre Arts degree programs have a graduation requirement of a 2.0 overall GPA and must earn a "C" or better in all their major courses.

Students applying for admission to Teacher Education must also meet the requirements of the School of Education.

Students may choose a degree program in:

- 1) Bachelor of Arts major in Theatre Arts;
- 2) Bachelor of Arts major in Communication Arts;
- 3) Bachelor of Arts minors in either Communication Arts or Theatre Arts;
- 4) Bachelor of Arts in Education, single field, Pre-K-Adult in Theatre.

The co-curricular activities of this department are open to all students. For detailed information, see Forensics and Theatre under Student Services and Organizations in this catalog.

BACHELOR OF ARTS IN COMMUNICATION ARTS.....	120 CORE SEM. HRS.
Communication Arts Curriculum.....	46 CORE SEM. HRS.
Communication Arts Concentration.....	12 SEM. HRS.
General Studies Requirements.....	37 SEM. HRS.
Free Electives.....	25 SEM. HRS.

• Communication Arts Core Curriculum.....	46 SEM. HRS.
BISM 1200 INTRODUCTION TO COMPUTING.....	3
COMM 1105 VOICE & DICTION.....	3
COMM 2201 INTRODUCTION TO GROUP DISCUSSION.....	3
COMM 2213 INTRODUCTION TO COMMUNICATION THEORY AND RESEARCH PRACTICES.....	3

COMM 2219 LANGUAGE IN COMMUNICATION.....	3
COMM 2241 ARGUMENTATION & DEBATE.....	3
COMM 2250 SOPHOMORE SEMINAR.....	1
COMM 3300 INTERCULTURAL COMMUNICATION.....	3
COMM3330 ORGANIZATIONAL COMMUNICATION.....	3
COMM 3337 PERSUASIVE COMMUNICATION.....	3
COMM 3345 ORATORY.....	3
COMM 4420 DOCUMENTARY STORYTELLING.....	3
COMM 4496 COMMUNICATION IN PRACTICE: INTERNSHIP.....	3
JOUR 2245 REPORTING AND MULTIMEDIA NEWS WRITING.....	3
JOUR 2275 MEDIA LITERACY.....	3
JOUR 3350 PARTICIPATORY JOURNALISM AND SOCIAL MEDIA.....	3

• Concentrations..... 12 SEM. HRS.

### GOVERNMENT COMMUNICATION

PHIL 2275 INTRODUCTION TO LOGIC AND CRITICAL REASONING..	3
POLI 1103 AMERICAN GOVERNMENT.....	3
POLI 2200 INTRODUCTION TO POLITICAL SCIENCE.....	3
POLI 2203 COMPARATIVE GOVERNMENT.....	3

### HEALTH COMMUNICATION

COMM 3310 HEALTH COMMUNICATION.....	3
HLTA 1150 INTRODUCTION TO HEALTH EDUCATION.....	3
HLTA 2202 COMMUNITY AND ENVIRONMENTAL HEALTH.....	3
HLTA 2203 CONTEMPORARY AND DRUG BEHAVIOR ISSUES.....	3

### SALES COMMUNICATION

BSBA 2209 PRINCIPLES OF MANAGEMENT.....	3
BSBA 2204 PRINCIPLES OF MARKETING.....	3
MKTG3320 ADVERTISING AND SALES PROMOTIONS.....	3
MKTG3350 NEW PRODUCT DECISIONS.....	3

### PERFORMANCE COMMUNICATION

THEA 2228/4448 ORAL INTERPRETATION PRACTICUM.....	1-3
AND/OR	
THEA 2238/4432 ACTING WORKSHOP.....	1-3
THEA 2230 ACTING.....	3
THEA 3320 THE ART OF STORYTELLING IN THEORY AND PRACTICE .	3
THEA 3346 CREATIVE PUPPETRY.....	3

### PUBLIC COMMUNICATION

(Select 12 Hours)

COMM 2249 INTERCOLLEGIATE DEBATE.....	1-4
COMM 4449 INTERCOLLEGIATE DEBATE.....	1-4
COMM 4439 PUBLIC SPEAKING PRACTICUM I-VIII.....	1-4
COMM/FOLK/THEA 3320 THE ART OF STORYTELLING.....	3
THEA 2228/4448 ORAL INTERPRETATION PRACTICUM.....	1-4

### MULTIMEDIA COMMUNICATION

JOUR 2280	HISTORY OF AMERICAN JOURNALISM .....	3
JOUR 3315	MULTIMEDIA PUBLISHING .....	3
JOUR 3335	PHOTOJOURNALISM AND DIGITAL EDITING.....	3
JOUR 3344	PUBLICATIONS PRACTICE .....	1-3

\*JOUR 3344 is offered for variable credit. Students in this track must earn 3 credits. This may require up to three semesters.

**VISUAL COMMUNICATION**

ART 1140	DESIGN I: 2D .....	3
ART 1141	DESIGN II: 3D.....	3
ART 2245	E. FOUNDATIONS .....	3
ART 3345	E. INTERMEDIATE .....	3

**CULTURAL OUTREACH COMMUNICATION**

BSBA2204	PRINCIPLES OF MARKETING.....	3
BSBA2209	PRINCIPLES OF MANAGEMENT .....	3
MUSM1100	INTRODUCTION TO MUSEUMS.....	3
MUSM3210	MUSEUM INTERPRETATION and EDUCATION .....	3

• General Studies Requirements .....37 SEM. HRS.

**Outcome 1 - Critical Analysis**

ENGL 1102	(Institutional Requirement).....	3
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**Outcome 2 - Quantitative Literacy**

MATH 1507 or 1407 or higher in Outcome 2 (Required by Major)....	3
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**Outcome 3 - Written Communication**

ENGL 1101	(Institutional Requirement).....	3
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**Outcome 4 - Teamwork**

COMM 2201	(Satisfied in Major) .....	X
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**Outcome 5 - Information Literacy**

ENGL 1102	(Satisfied in Outcome 1) .....	X
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**Outcome 6 - Technology Literacy**

BISM 1200	(Satisfied in Major .....	X
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**Outcome 7 - Oral Communication**

COMM 2201	(Satisfied in Major) .....	X
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**Outcome 8 - Citizenship**

POLI 1100*	.....	3
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**Outcome 9- Ethics**

PHIL 3325*	.....	3
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**Outcome 10- Health**

Any course in Outcome 10 .....	3
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**Outcome 11- Interdisciplinary**

Any course in Outcome 11 .....	3
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**Outcome 12 - Arts**

Any course in Outcome 12 .....	3
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**Outcome 13 - Humanities**

Any course in Outcome 13 .....	3
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**Outcome 14 - Social Sciences**

Any course in Outcome 14 .....	3
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**Outcome 15 - Natural Science**

Any course in Outcome 15 .....	4
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**Outcome 16 - Cultural Awareness**

SOCY 3301* .....	3
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**Additional General Studies hours**

COMM 2213 (WIC - Satisfied in Major).....	X
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**MINOR IN COMMUNICATION ARTS .....24 SEM. HRS.**

COMM 1105 VOICE & DICTION .....	3
COMM 2201 INTRODUCTION TO GROUP DISCUSSION .....	3
COMM 2213 INTRODUCTION TO COMMUNICATION THEORY AND RESEARCH PRACTICES .....	3
COMM 2219 LANGUAGE IN COMMUNICATION .....	3
COMM 2241 ARGUMENTATION & DEBATE .....	3
COMM 3300 INTERCULTURAL COMMUNICATION.....	3
COMM 3337 PERSUASIVE COMMUNICATION .....	3
COMM 3345 ORATORY .....	3

**BACHELOR OF ARTS IN THEATRE ARTS .....120 SEM. HRS.**

Theatre Arts Curriculum .....	48 SEM. HRS.
General Studies Requirements .....	36-37 SEM. HRS.
Free Electives 35-36 SEM. HRS.	

**• Theatre Arts Curriculum .....48 SEM. HRS.**

Required Courses (39 sem. hrs.)	
COMM 1105 VOICE & DICTION .....	3
THEA 1110 INTRODUCTION TO THEATRE .....	3
THEA 1114 BODY TRAINING AND STAGE MOVEMENT .....	3
THEA 1140 THEATRICAL PRODUCTION .....	2
THEA 1148 THEATRE WORKSHOP* .....	1
THEA 1151 TEXT ANALYSIS .....	3
THEA 2212 THEATRICAL MAKEUP .....	1
THEA 2230 ACTING.....	3
THEA 2238/4432 ACTING WORKSHOP .....	1
THEA 2244 INTRODUCTION TO THEATRICAL DESIGN.....	3
THEA 2262/4462 PRODUCTION PRACTICUM .....	1
THEA 3336 DIRECTING .....	3
THEA 3340/41 THEATRE HISTORY I/II.....	6
THEA 3375 DEVELOPMENT OF DRAMATIC ART.....	3
THEA 4438 SENIOR COMPREHENSIVE PROJECT .....	3

\* must be taken concurrently with THEA 1140 (Theatrical Production).

**Theatre Arts Electives (9 sem. hrs.)**

(At least 6 hours must be upper-division.)

THEA 1199 SPECIAL TOPICS IN THEATRE .....	1-3
THEA 2220 ORAL INTERPRETATION .....	3
THEA 2251 PLAYWRITING .....	3
THEA 3305 VOICE FOR THE STAGE.....	3
THEA 3314 ADVANCED THEATRICAL MAKEUP.....	1
THEA 3320 THE ART OF STORYTELLING IN THEORY AND	

PRACTICE.....	3
THEA 3326 PERFORMANCE STUDIES.....	3
THEA 3330 ADVANCED ACTING.....	3
THEA 3344 ADVANCED THEATRICAL DESIGN.....	3
THEA 3346 CREATIVE PUPPETRY.....	3
THEA 3350 CHILDREN'S DRAMA.....	3
THEA 3352 CREATIVE DRAMA.....	3
THEA 3392 COSTUME HISTORY AND DESIGN.....	3
THEA 4480 THEATRE BUS. MANAGEMENT AND PROMOTION.....	3
THEA 4490 DIRECTED STUDY IN THEATRE.....	1-3

Recommended Related Courses for Theatre Arts Majors:

ART 1120 ART APPRECIATION.....	3
ART 1142 DRAWING I: FOUNDATIONS OF DRAWING.....	3
ENGL 3374 SHAKESPEARE.....	3
ENGL 3390 MODERN DRAMA.....	3
MUSI 1120 MUSIC APPRECIATION.....	3
MUSI 1139 VOICE CLASS.....	1
MUSI 1141 VOICE I-IV.....	1-2

• General Studies Requirements 36-37 SEM. HRS.

Outcome 1 - Critical Analysis

ENGL 1102 (Institutional Requirement).....	3
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Outcome 2 - Quantitative Literacy

MATH 1507 or 1407 or higher in Outcome 2(Required by Major).....	3
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Outcome 3 - Written Communication

ENGL 1101 (Institutional Requirement).....	3
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Outcome 4 - Teamwork

COMM 2201*.....	3
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Outcome 5 - Information Literacy

ENGL 1102 (Satisfied in Outcome 1).....	X
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Outcome 6 - Technology Literacy

BISM 1200 or TECH 1100*.....	3
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Outcome 7 - Oral Communication

COMM 2201*.....	X
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Outcome 8 - Citizenship

HIST 1107 or 1108 or POLI 1100*.....	3
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Outcome 9- Ethics

ENGL 2231*.....	3
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Outcome 10- Health

CRIM 2212 or PHED 1100*.....	2-3
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Outcome 11- Interdisciplinary

Any course in Outcome 11.....	3
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Outcome 12 - Arts

Any course in Outcome 12.....	3
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Outcome 13 - Humanities

THEA 3375 (Satisfied in Major).....	X
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Outcome 14 - Social Sciences

Any course in Outcome 14.....	3
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Outcome 15 - Natural Science

Any course in Outcome 15.....	4
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Outcome 16 - Cultural Awareness

ENGL 2231* (met in Outcome 9).....	X
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Additional General Studies hours

THEA 3375 (WIC - Satisfied in Major).....	X
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\* Any course(s) marked with an asterisk (\*) above are recommended to complement the program curriculum; however, students may select any other courses from the approved General Studies list.

MINOR IN THEATRE ARTS..... 31 SEM. HRS.

COMM 1105 VOICE & DICTION.....	3
THEA 1110 INTRODUCTION TO THEATRE.....	3
THEA 1114 BODY TRAINING AND STAGE MOVEMENT.....	3
THEA 1140 THEATRICAL PRODUCTION.....	2
THEA 1148 THEATRE WORKSHOP*.....	1
THEA 1151 TEXT ANALYSIS.....	3
THEA 2212 THEATRICAL MAKEUP.....	1
THEA 2220 ORAL INTERPRETATION.....	3
THEA 2230 ACTING.....	3
THEA 2244 INTRODUCTION TO THEATRICAL DESIGN.....	3
THEA 3340 THEATRE HISTORY I.....	3
-OR-	
THEA 3341 THEATRE HISTORY II.....	3
THEA 3336 DIRECTING.....	3

\* must be taken concurrently with THEA 1140 (Theatrical Production).

Recommended Related Courses for Theatre Arts Minors:

ART 1120 ART APPRECIATION.....	3
ART 1142 DRAWING I: FOUNDATIONS OF DRAWING.....	3
ENGL 3374 SHAKESPEARE.....	3
ENGL 3390 MODERN DRAMA.....	3
MUSI 1120 MUSIC APPRECIATION.....	3
MUSI 1139 VOICE CLASS.....	1
MUSI 1140 VOICE I-IV.....	1-2

BACHELOR OF ARTS IN EDUCATION:

TEACHING SPECIALIZATION IN THEATRE

GRADES PRE K-ADULT.....	121-123 SEM. HRS.
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(Although not required, a second field is recommended.

See your advisor.)

Theatre.....	43 SEM. HRS.
Professional Education Courses.....	39 SEM. HRS.
General Studies Requirements.....	39-41 SEM. HRS.

• Theatre Arts Curriculum..... 43 SEM. HRS.

COMM 1105 VOICE & DICTION.....	3
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THEA 1114 BODY TRAINING AND STAGE MOVEMENT.....	3
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THEA 1140 THEATRICAL PRODUCTION .....	2
THEA 1148 THEATRE WORKSHOP* .....	1
THEA 1151 TEXT ANALYSIS .....	3
THEA 2212 THEATRICAL MAKEUP .....	1
THEA 2230 ACTING .....	3
THEA 2238/4432 ACTING WORKSHOP .....	1
THEA 2244 INTRODUCTION TO THEATRICAL DESIGN .....	3
THEA 2262/4462 PRODUCTION PRACTICUM .....	1
THEA 3336 DIRECTING .....	3
THEA 3340 THEATRE HISTORY I .....	3
THEA 3344 ADVANCED THEATRICAL DESIGN .....	3
THEA 3346 CREATIVE PUPPETRY .....	3
THEA 3350 CHILDREN'S DRAMA .....	3
THEA 3352 CREATIVE DRAMA .....	3
THEA 3354 THEATRE EDUCATION PRACTICUM .....	1
THEA 4431 METHODS AND MATERIALS IN TEACHING COMMUNICATION AND THEATRE .....	3

\* must be taken concurrently with THEA 1140 (Theatrical Production).

• Professional Education ..... 39 SEM. HRS.

EDUC 2200 INTRODUCTION TO EDUCATION .....	3
EDUC 2201 INSTRUCTIONAL TECHNOLOGY .....	3
EDUC 2203 HUMAN DEVELOPMENT, LEARNING & TEACHING .....	3
EDUC 2240 HIGH INCIDENCE DISABILITIES FOR EDUCATORS .....	3
EDUC 2260 INSTRUCTIONAL DESIGN 1 .....	3
EDUC 2265 FIELD EXPERIENCE 2 .....	1
EDUC 3331 READING IN THE CONTENT AREAS .....	3
EDUC 3340 INSTRUCTIONAL DESIGN II .....	3
EDUC 3351 INCLUSIVE CLASSROOM PRACTICES FOR INDIVIDUAL DIFFERENCES .....	3
EDUC 3365 FIELD EXPERIENCE 3 .....	2
EDUC 4485 ACTION RESEARCH .....	1
EDUC 4486 PORTFOLIO .....	1
EDUC 4496 SECONDARY STUDENT TEACHING .....	10

• General Studies Requirements ..... 39-41 SEM. HRS.

Outcome 1- Critical Analysis

ENGL 1102 (Institutional Requirement) .....	3
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Outcome 2 - Quantitative Literacy

MATH 1507 or 1407 or higher in Outcome 2(Required by Major) .....	3
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Outcome 3 - Written Communication

ENGL 1101 (Institutional Requirement) .....	3
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Outcome 4 - Teamwork

COMM 2201* .....	3
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Outcome 5 - Information Literacy

ENGL 1102 (Satisfied in Outcome 1) .....	X
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Outcome 6 - Technology Literacy

BISM 1200* .....	3
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Outcome 7 - Oral Communication

COMM 2200* .....	3
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Outcome 8- Citizenship

Choose from Outcome 8 .....	3
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Outcome 9- Ethics

COMM 2201 (Satisfied in Outcome 4) .....	X
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Outcome 10- Health

PHED 1100 or SCIE 1100* .....	2-4
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Outcome 11- Interdisciplinary

Any course in Outcome 11 .....	3
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Outcome 12 - Arts

THEA 3352 (Satisfied in Major) .....	X
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Outcome 13 - Humanities

THEA 3375* .....	3
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Outcome 14 - Social Sciences

Any course in Outcome 14 .....	3
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Outcome 15 - Natural Science

Any course in Outcome 15 .....	4
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Outcome 16- Cultural Awareness

Any ENGL course in Outcome 16 .....	3
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Additional General Studies hours

THEA 3340 (WIC - Satisfied in Major) .....	X
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# Programs of Study

## School of Nursing

**Dr. Laura Clayton, Associate Dean**  
244 Education Building  
(304) 367-4074  
Lclayton1@fairmontstate.edu

### FACULTY

BOBO, LEIA (2011)  
Associate Professor of Nursing

CLAYTON, LAURA (2019)  
Professor of Nursing

CONDRON, ELLEN (1990)  
Associate Professor of Nursing

DERICO, KIMBERLY (2013)  
Associate Professor of Nursing

GILBERTI, JANET (2015)  
Assistant Professor of Nursing

HICKS, ALEXIS (2009)  
Associate Professor of Nursing

HOAG, DEBRA (2002)  
Professor of Nursing

JONES, THERESA (2012)  
Associate Professor of Nursing

KIRCHOFF, DENICE (1998)  
Professor of Nursing

LOCANTE, BRIANNA (2018)  
Assistant Professor of Nursing

PARK, HAILEY (2018)  
Assistant Professor of Nursing

SATTERFIELD, JENNIFER (2018)  
Assistant Professor of Nursing

SHROYER, ASHLEY (2009)  
Associate Professor of Nursing

WAMSLEY, TRAVIS (2018)  
Assistant Professor of Nursing

WATSON, ERIN (2018)  
Assistant Professor of Nursing

YOUNG, FRANCES T. (1997)  
Professor of Nursing

The mission of Fairmont State University School of Nursing is to serve as a leader in improving the health of West Virginia and the global community through a commitment to excellence and innovation in teaching, scholarship and service. Our vision is to be a center for excellence in nursing education where graduates are capable of providing care for and changing the health of the world. We accomplish our mission and vision through both a Bachelor of Science in Nursing and an Associate of Science in Nursing programs.

### BACHELOR OF SCIENCE IN NURSING DEGREE

The Bachelor of Science in Nursing (BSN) Program is designed for registered nurses who desire a baccalaureate degree in nursing. It provides career mobility for the associate degree and diploma-graduate nurse. The program is designed to prepare nurse generalists to provide safe, ethical, evidenced-based, patient-centered care that reflects critical thinking and inter-professional collaboration. The program aims to provide a foundation for graduate study and to prepare graduates for professional role development by engaging in leadership, scholarship, and practice activities.

A minimum of 120 approved credit hours is required. This includes 28 upper division-nursing credits. The program can be completed in two full-time academic years or one accelerated academic year under certain circumstances. Students may enroll on a

full-time or part-time basis. All Nursing courses are offered online. A grade of “C” or above is required in all courses that count toward the degree, and students must maintain a 2.0.

The Bachelor of Science in Nursing Program at Fairmont State is accredited by the Commission on Collegiate Nursing Education (CCNE). Individuals interested in more information on accreditation may contact: Commission on Collegiate Nursing Education, 655 K Street NW Suite 750, Washington, DC 20001, (202) 887-6791, ccneaccreditation.org.

The expected outcomes of the BSN graduate are to:

1. Integrate a background in the liberal arts with the knowledge, skills, and values in professional nursing in order to improve patient and healthcare outcomes.
2. Prepare nurse generalists to provide safe, ethical, evidenced-based, patient-centered care that reflects critical thinking and inter-professional collaboration.
3. Manage information and technology to enhance clinical decision making for quality patient-centered care in a variety of settings.
4. Apply principles of prevention and health promotion when providing care to patients.
5. Contribute to the profession of nursing by engaging in leadership, scholarship, and practice activities.
6. Prepare nurse generalists for professional role development through lifelong learning, graduate education, and specialization within their chosen career path.

All applicants seeking admission to the Bachelor of Science in Nursing Program are required to:

1. Meet the general admission and course placement requirements of Fairmont State.
2. Submit an application for admission, designating the major as Baccalaureate in Nursing, to the Office of Admissions.
3. Submit official college and/or diploma program transcripts, including graduation date and degree.
4. Fairmont State ASN students who have a composite ACT of 22 or higher (with a minimum of 20 in English, Mathematics, Sciences, and Reading) or a SAT total score of

1100 (with a minimum Math 520 and Evidence based Reading and Writing of 530) and a GPA of 3.0 or higher may be concurrently admitted to the ASN and BSN Programs.

Students interested in the program are encouraged to contact the School of Nursing for advisement purposes. An active, unencumbered registered nursing licensure is required for enrollment in NURS 3350 and above.

The following courses are required for completion of this program. All required courses must be completed prior to or concurrently with Nursing 4440. Active, unencumbered registered nursing licensure is required for enrollment in NURS 3350 and above.

The Bachelor’s Degree in Nursing offers an option of School Nurse Certification. Education 2200 and the School Nurse Practicum 4441 are required for this certificate. Registered nurses who already have a BSN degree would also take Education 2200 and Nursing 4441.

**BACHELOR OF SCIENCE DEGREE**

**IN NURSING 120 SEM. HRS**

Required Nursing Courses ..... 28 SEM. HRS.  
 Required Support Courses ..... 6-7 SEM. HRS.

- Registered Nursing Licensure Credits ..... 35 SEM. HRS.
- General Studies ..... 30 SEM. HRS.
- Free Elective Hours (needed to achieve 120 total semester hours)

**• General Studies and Support Course Requirements**

- Outcome 1 - Critical Analysis  
 NURS 3360, NURS 4440, or any other choice (Satisfied in Major)..... X
- Outcome 2 - Quantitative Literacy  
 MATH 1507 or 1407 or higher in Outcome 2 ..... 3
- Outcome 3 - Written Communication  
 ENGL 1101 AND ENGL 1102 or ENGL 1103 (Institutional Requirement)..... 6
- Outcome 4 - Teamwork  
 NURS 4440, NURS 4400 (Satisfied in Major)..... X
- Outcome 5 - Information Literacy  
 NURS 4400 (Satisfied in Major) ..... X
- Outcome 6 - Technology Literacy  
 NURS 4430 or any other choice (Satisfied in Major) ..... X
- Outcome 7 - Oral Communication  
 COMM 2200, COMM 2201, or COMM 2202 ..... 3

Outcome 8 - Citizenship	
Any choice .....	3
Outcome 9- Ethics	
NURS 3360 (Satisfied in Major) .....	X
Outcome 10- Health and Well-being	
NURS 4410 (Satisfied in Major) .....	X
Outcome 11- Interdisciplinary	
NURS 4440 (Satisfied in Major) .....	X
Outcome 12 - Fine Arts	
Any choice .....	3
Outcome 13 - Humanities	
Any choice .....	3
Outcome 14 - Social Sciences	
Any choice .....	3
Outcome 15 - Natural Sciences	
Any choice .....	3
Outcome 16 - Cultural Awareness	
Any Choice .....	3

**SUPPORT COURSES**

STATISTICS (PR MATH 1407 or 1507)	
PSYC 2240, BSBA 3310, SOCY 2240, OR MATH 1550.....	3-4

<b>MANAGEMENT</b>	
BSBA 2209 OR MGMT 3308.....	3

• Required BSN Nursing Courses .....	28 SEM. HRS.
NURS 3320 HEALTH ASSESSMENT .....	4
NURS 3340 NURSING CARE OF THE OLDER ADULT.....	3
NURS 3350 PROFESSIONAL NURSING CONCEPTS.....	3
NURS 3360 NURSING ETHICS .....	3
NURS 4400 RESEARCH IN NURSING PRACTICE .....	3
NURS 4410 COMMUNITY HEALTH NURSING.....	5
NURS 4430 LEADERSHIP & MANAGEMENT IN NURSING PRACTICE.....	3
NURS 4440 NURSING PRACTICUM.....	4

**• Accelerated BSN**

Students who have completed almost all of the general studies and support courses and those with a previous 4-year degree may opt for the Accelerated BSN Program of Study. The accelerated track allows a student to take 15 nursing credits in the first semester and 13 nursing credits in the second semester and complete the program in one academic year. Advisor permission is required.

**School Nurse Certificate**

The student is required to have an active, unencumbered registered nursing licensure or be in their last semester of the BSN program for enrollment

in NURS 4441 School Nurse Practicum. Courses required for the School Nurse Certificate include:

EDUC 2200 INTRODUCTION TO EDUCATION .....	3
NURS 4441 SCHOOL NURSE PRACTICUM .....	4

**ASSOCIATE OF SCIENCE IN NURSING (ASN)  
DEGREE**

The program is designed to prepare graduates for a challenging and satisfying career as a nurse. The curriculum includes a balance of nursing, General Studies, and support courses. Students have the opportunity to apply nursing theory and skills in the campus simulation laboratories, in clinical settings which may include hospitals, nursing homes, rehabilitation centers, schools, clinics, and physicians' offices. Students are expected to provide their own transportation to all clinical experiences.

Fairmont State's associate degree nursing program is designed to produce a graduate who is able to

1. Provide patient- centered care to patients in response to their changing health needs.
2. Advocate for patients in ways to promote their self-determination and ongoing growth.
3. Apply evidence-based practice, and clinical judgment in the provision of patient-centered care.
4. Use the nursing process, information management systems, teamwork and inter-professional collaboration to provide safe, effective, quality care aimed at promoting the patients' health.
5. Provide compassionate patient-centered care through roles of care provider, manager, educator, leader, and advocate.
6. Communicate professionally and collaboratively with patients and members of the healthcare team.
7. Demonstrates responsibility and accountability for professional nursing practice and lifelong learning.
8. Integrate current best practices to deliver safe and effective patient-centered care aimed at improving quality of care and care outcomes.

Applicants are admitted to the nursing major as they complete the admission process and meet the admission requirements of Fairmont State and the Associate Degree Nursing Program. Accepted students will be admitted into the next admission class for the ASN, ASN Weekend, and LPN-ASN programs. As classes are filled, a waitlist is established. Applicants remaining on the waitlist must reapply for the next academic year. Application and admission requirements can be found on the website at

<https://www.fairmontstate.edu/schoolofnursing/academics/asn-admissions-requirements>

To progress in the nursing program, a student must receive a grade of “C” or higher in each nursing and required support course. Failure to meet either of these requirements will result in a student being re-sequenced in the program according to the Readmission Policy. A student may only be re-sequenced in the program two times. To graduate from the nursing program, a student must have a grade of “C” or above in every nursing and support course and a cumulative 2.0 grade point average.

Graduates of the program are eligible to take the National Council Licensing Examination for Registered Nurses (NCLEX-RN) for licensure as a Registered Nurse. For licensure in West Virginia, candidates must meet the following legal requirements delineated in the West Virginia Code, Chapter 30, Article 7, Section 11. WV Code 30-7-11. Denial, Revocation Or Suspension of License; Grounds For Discipline.

The Board shall have the power to deny, revoke or suspend any license to practice registered professional nursing issued or applied for in accordance with the provisions of this article, or to otherwise discipline a licensee or applicant upon proof that he or she:

- 1) Is or was guilty of fraud or deceit in procuring or attempting to procure a license to practice registered professional nursing; or
- 2) Has been convicted of a felony; or
- 3) Is unfit or incompetent by reason of negligence, habits or other causes; or
- 4) Is habitually intemperate or is addicted to the use of habit-forming drugs; or
- 5) Is mentally incompetent; or

- 6) Is guilty of conduct derogatory to the morals or standing of the profession of registered nursing; or
- 7) Is practicing or attempting to practice registered professional nursing without a license or registration; or
- 8) Has demonstrated abnormal prescribing or dispensing practices pursuant to 30-3A-4 of this code; or
- 9) Has willfully or repeatedly violated any of the provisions of this article

The nursing program is accredited by the West Virginia Board of Examiners for Registered Professional Nurses (WVBOERP) and the Accreditation Commission for Education in Nursing (ACEN).

WVBOERP	ACEN
90 MacCorkle Avenue, SW	3343 Peachtree Road
NE, Suite 850	
South Charleston, WV 25303	Atlanta Georgia 30326
(304) 744-0900	404) 975-5000
<a href="http://www.wvrnboard.wv.gov">www.wvrnboard.wv.gov</a>	<a href="http://www.acenursing.org">www.acenursing.org</a>

Associate Degree Nurses are qualified to work in hospitals, nursing homes, physicians’ offices and clinics. Graduates may also continue in higher education toward Bachelor’s and Master’s degrees in nursing and related fields.

ASSOCIATE OF SCIENCE IN NURSING .....	60 SEM. HRS.
Required Nursing Courses .....	41 SEM. HRS.
Required General Studies	
and Support Courses.....	19 SEM. HRS.

• ASN General Studies and Support Course Requirements

Outcome 1 - Critical Analysis	
ENGL 1102 - Written English II.....	3
Outcome 3 - Written Communication	
ENGL 1101 Written English I .....	3
Outcome 5 - Information Literacy	
ENGL 1102 Written English II .....	3
Outcome 14 - Social Science	
PSYC 1101 Intro to Psychology .....	3
Outcome 15 - Natural Science	
BIOL 1180/81 Anatomy and Physiology .....	4
and BIOL 2205 Technical Microbiology .....	3
Additional Support Courses	
HLTA 1110 Nutrition .....	3

- Required Nursing Courses for the traditional ASN Program

NURS 1101	FUNDAMENTALS OF NURSING .....	7
NURS 1108	NURSING CARE OF ADULTS I .....	6
NURS 1115	MATERNAL-CHILD NURSING I .....	4
NURS 1120	NURSING PHARMACOLOGY I .....	1
NURS 2203	MENTAL HEALTH NURSING .....	4
NURS 2208	NURSING CARE OF ADULTS II .....	6
NURS 2110	NURSING PHARMACOLOGY II .....	1
NURS 2115	MATERNAL-CHILD NURSING II .....	2
NURS 2210	NURSING PHARMACOLOGY III .....	1
NURS 2211	PROFESSIONAL ROLE TRANSITION .....	2
NURS 2212	NURSING CARE OF ADULTS III .....	3
NURS 2215	MATERNAL-CHILD NURSING III .....	2
NURS 2220	NURSING CAPSTONE CLINICAL .....	2

## LPN TO ASN ACCELERATED TRACKS

Once admitted to the Associate Degree Nursing Program, Licensed Practical Nurses are eligible for one of three matriculation processes.

1. An LPN student can chose to matriculate through the program with the generic students starting in the second semester of the first year of the ASN program. LPN students receive credit for NURS 1101 (7 credits) based on possessing a current and unencumbered LPN license. Thus, the nursing courses can be completed in 3 full-time semesters. General Studies and support course requirements will need to be taken prior to and/or concurrently with the nursing courses.  
-OR-
2. An LPN student can choose the Accelerated Non-Traditional Track. The LPN student starts the program in the fall semester. The classes are offered synchronously and asynchronously online in the evenings and the clinical component is conducted two days each month. The student can complete the program in 12 months by completing most of the General Studies and support course requirements prior to starting the fall session.  
-OR-
3. An LPN student can choose to matriculate into the weekend part-time program starting in the second semester of the program. Thus, the student can complete the program in five semesters.

BIOL 1180/81, Anatomy and Physiology and HLTA 1110 Nutrition may be taken for credit hours or the credit hours may be awarded by competency examinations.

Licensed practical nurses who are interested in the Associate Degree Nursing program should review the application process on the School of Nursing Academic home pages at <https://www.fairmontstate.edu/schoolofnursing/academics/associate-degree-program>

- Required Nursing Courses for the Non-traditional LPN-ASN Program:

BIOL 2205	TECHNICAL MICROBIOLOGY .....	3
NURS 1200	NURSING CARE ACROSS THE LIFESPAN I .....	7
NURS 1201	MENTAL HEALTH ACROSS THE LIFESPAN .....	3
NURS 1202	ASSESSMENT ACROSS THE LIFESPAN I .....	1
NURS 1203	TRANSITION FOR LPN .....	1
NURS 1204	PHARMACOLOGY ACROSS THE LIFESPAN I .....	1
NURS 2301	NURSING CARE ACROSS THE LIFESPAN II .....	7
NURS 2302	ASSESSMENT ACROSS THE LIFESPAN II .....	1
NURS 2303	PHARMACOLOGY ACROSS THE LIFESPAN II .....	1
NURS 2401	NURSING CARE ACROSS THE LIFESPAN III .....	5
NURS 2402	ROLE TRANSITION, PROFESSIONALISM, & MANAGEMENT .....	3
NURS 2403	CAPSTONE CLINICAL EXPERIENCE .....	3
NURS 2404	PHARMACOLOGY ACROSS THE LIFESPAN III .....	1

## TRANSFER STUDENTS

Students wishing to transfer into the ASN program must first meet the admission standards for the ASN program. Upon admission, transfer students will be required to provide a transcript from their previous school of nursing and submit, in writing, a request for transfer credit for specific nursing courses. Students must submit with the request, course descriptions, course outcomes, or any other materials requested. If a nursing course is determined to be equivalent to a Fairmont State SON course, the student must then demonstrate competency regarding the course content by scoring an 800 or above on the corresponding HESI exam. Courses must be less than five years old. The full transfer policy is available in the ASN Student Handbook.

## SPECIAL REQUIREMENTS FOR NURSING STUDENTS

1. Submission of completed health data requirement prior to August 1 following acceptance into the program for fall semester and January 1 following acceptance into the program for the spring semester.
2. Submission of yearly PPD results (or chest x-ray, if appropriate) and evidence of American Heart Association Basic Cardiac Life Support for Healthcare Professionals CPR certification prior to August 1 of each year if admitted in the fall and January 1 if admitted in the spring.
3. Adhere to the policies in the School of Nursing Student Handbook.
4. Undergo a criminal background check and drug screen, according to the procedure specified by the School of Nursing.
5. Complete all course work within three years of admission into the nursing program.
6. Pay a required special fee for standardized testing, if enrolled in the ASN program.
7. Meet the core performance standards of the School of Nursing.

Students are required to have a laptop computer for the program. Computer requirements are listed on

## **TRANSPORTATION**

As most of these programs require considerable student attendance at off-campus locations, it is the student's responsibility to provide transportation to all clinical affiliates. The utilization of car pools, when appropriate, is encouraged to help meet the expense of those providing transportation.

## **LIABILITY INSURANCE**

Group liability insurance is provided to the students in all Nursing programs; the liability insurance is handled by the State of West Virginia. Students may be obligated to obtain additional liability insurance based on clinical agency requirements.

## **LAPTOP COMPUTERS**

# Programs of Study

## Interdisciplinary Programs

### WOMEN'S STUDIES (MINOR ONLY)

The Women's Studies minor provides students with an avenue to explore contemporary and historical women's issues as they relate to traditional academic disciplines and human life. Awareness of women's issues has become an asset in any profession. Students wishing to elect this minor will need to work closely with their advisor. Most importantly, all component course selections must be made from the approved list of courses published each semester by the Women's Studies Coordinating Committee.

MINOR IN WOMEN'S STUDIES ..... 18 SEM. HRS.

#### Required Courses (6 hrs.)

INTR 2201 INTRODUCTION TO WOMEN'S STUDIES ..... 3  
 INTR 4402 WOMEN'S STUDIES CAPSTONE ..... 3

#### Electives (12 hrs.)

(Select four courses from the following list.)

BSBA 3325 WOMEN AND WORK ..... 3  
 COMM 4420 CONTEMPORARY STORYTELLING ..... 3  
 CRIM 3304 THE FEMALE OFFENDER ..... 3  
 CRIM 3305 CHANGING ROLES OF WOMEN IN  
 CRIMINAL JUSTICE ..... 3  
 ENGL 3363 AMERICAN NOVEL ..... 3  
 ENGL 3365 AMERICAN MODERNISM ..... 3  
 ENGL 3366 CONTEMPORARY LITERATURE ..... 3  
 ENGL 3379 VICTORIAN LITERATURE  
 3 ENGL 3380 ..... 20TH CENTURY BRITISH  
 LITERATURE 3  
 ENGL 3381 BRITISH NOVEL ..... 3  
 ENGL 3388 WOMEN'S LITERATURE  
 3 ENGL 3389 ..... MINORITY  
 LITERATURE 3  
 ENGL 3391 SHORT STORY

3	ENGL 3393	.....	SOUTHERN
LITERATURE	3		
ENGL 3396	LITERATURE AND FILM	.....	3
FOLK 3301	MATERIAL CULTURE	.....	3
FOLK 3302	REGIONAL CULTURE, GEOGRAPHY, AND HISTORY	..	3
FREN 4426	MAIN CURRENTS IN FRENCH LITERATURE		
	& CULTURE	.....	3
HIST 3333	WOMEN IN AMERICAN HISTORY	.....	3
HIST 3335	WOMEN IN WORLD HISTORY	.....	3
HIST 4450	HISTORY OF AMERICAN SEXUALITIES	.....	3
INTR 1150	WOMEN'S STUDIES COLLOQUIUM	.....	1-3
INTR 1120	EXPERIENCING THE ARTS	.....	3
SOCY 2205	PRINCIPLES OF RACE, CLASS, AND GENDER	.....	3
SOCY 3310	SOCIOLOGY OF THE FAMILY	.....	3
SOCY 4450	RACE AND ETHNICITY	.....	3
THEA 2251	PLAYWRITING	.....	3
THEA 3320	THE ART OF STORYTELLING IN THEORY		
	AND PRACTICE	.....	3

# General Studies

The general studies curriculum ensures that students possess a wide range of skills and knowledge to enhance their lives after graduation. The knowledge, skills, and abilities obtained through general studies transcend specific disciplines and are valued by employers at all levels and by society in general. Fairmont State supports a general studies curriculum so that our students appreciate the diversity of disciplines as they discover possibilities in their interdependence.

The skills and knowledge obtained by completing general studies courses provide students with the necessary tools to be productive employees, leaders, and citizens. The categories were designed to incorporate the foundational knowledge and skills that have enduring societal value and to prepare students to survive and thrive in a complex, diverse, and dramatically changing world. A large portion of the skills and knowledge Fairmont State expects its students to have when they graduate comes from general studies courses.

Students must complete at least one course in each of the following general studies categories:

1. - Critical Analysis
2. - Quantitative Literacy
3. - Written Communication
4. - Teamwork
5. - Information Literacy
6. - Technology Literacy
7. - Oral Communication
8. - Citizenship
9. - Ethics
10. - Health and Well-being
11. - Interdisciplinary and Lifelong Learning
12. - Fine Arts
13. - Humanities
14. - Social Sciences
15. - Natural Sciences
16. - Cultural Awareness and Human Dignity

- Students must complete at least 30 hours of coursework outside of their major as determined by the course prefix. Academic units may select courses for majors to fulfill

certain categories as long as the 30 hours of coursework outside of the major is achievable.

- Students may use a single course to satisfy no more than 2 categories.
- Students must complete 6 hours of Written English (ENGL 1101 and either ENGL 1102 or 1103, as determined by their academic program) with a grade of "C" or higher. These courses may also be used to fulfill any additional category for which they have been approved.
- Students must complete 3 hours (single course or multiple courses) to fulfill Outcome 12 - Fine Arts.

Students should choose courses to fulfill categories by using Fairmont State's degree audit knowledge program DegreeWorks in concert with program requirements and course prerequisites.

Students are encouraged to ALWAYS check with their assigned advisor before registering for courses.

## GENERAL STUDIES COURSE LIST

<b>Outcome 1</b>		<b>CRITICAL ANALYSIS</b>		<b>Prerequisite Requirements</b>
BISM	2200	Business Information Tools	3 hrs.	BISM 1200 and Math Act of 19 or Math 1100 or higher
ENGL	1102	Written English II	3 hrs.	ENGL 1101 with a Grade of "C" or better or 5 on the Writeplacer exam.
ENGL	1103	Technical Report Writing	3 hrs.	ENGL 1101 with a Grade of "C" or better
ENGL	2220	World Literature I	3 hrs.	ENGL 1102
ENGL	2221	World Literature II	3 hrs.	ENGL 1102
ENGL	2230	Introduction to Literature I	3 hrs.	ENGL 1102
ENGL	2231	Introduction to Literature II	3 hrs.	ENGL 1102
HONR	1100	Honors Seminar	1 hr.	Honors Program students only; Instructor approval required
HONR	3301	Honors Study/Travel	3 hrs.	Honors Program students only; Instructor approval req.
MECH	1100	Statics	3 hrs.	MATH 1520 or MATH 1540 or Co-req. w/ MATH 1520
NURS	3360	Ethical Decision Making	3 hrs.	NURS 3340 and NURS 3350; NURS 3340 may be taken concurrently.
NURS	4440	Nursing Practicum	4 hrs.	NURS 4410 and 4430 (may be taken concurrently)
PHIL	2275	Intro to Logic and Critical Reasoning	3 hrs.	None
PSYC	3310	Experimental Psychology	3 hrs.	PSYC 2240
SFTY	1100	Safety & Env. Comp. of Industry	3 hrs.	None
<b>Outcome 2</b>		<b>QUANTITATIVE LITERACY</b>		<b>Prerequisite Requirements</b>
CHEM	1105	Chemical Principles	5 hrs.	MATH ACT of 20 or MATH SAT of 480 or COMPASS score of 42 or CHEM 1101 with a grade of "C" or better.
MATH	1510	Applied Technical Mathematics	3 hrs.	MATH ACT of 19 or MATH SAT of 460 or COMPASS score of 36 or Math 0095 or Math 0088 or MATH 1001 with "C" or better Major Restriction Majors in College of Science and Technology.
MATH	1407	Fundamental Concepts of Math w/ Support	4 hrs.	No Prerequisite.
MATH	1507	Fundamental Concepts of Math	3 hrs.	MATH ACT of 19 or MATH SAT of 460 or COMPASS score of 36 or Math 0095 or Math 0086 or MATH 1007 with "C" or better.
MATH	1430	College Algebra with Support	4 hrs.	MATH ACT 19-20 (or equivalent) or MATH 1011 with a "C" or better.
MATH	1530	College Algebra	3 hrs.	MATH ACT score of 21 or MATH SAT of 500 or COMPASS score of 49 or MATH 1012 with "C" or better.
MATH	1540	Trigonometry & Elementary Functions	3 hrs.	MATH ACT score of 23 or MATH SAT of 540 or COMPASS score of 63 or a C or better in MATH 1112 or C or better in MATH 1430 or C or better in MATH 1530
MATH	1585	Applied Calculus I	4 hrs.	MATH ACT score of 24 or MATH SAT of 560 or COMPASS score of 67 or MATH 1115 or MATH 1540 or MATH 1102 with "B" or better or MATH 1510 with a "C" or better
MATH	2501	Calculus I	4 hrs.	MATH ACT score of 25 or MATH SAT of 570 or COMPASS score of 73 or MATH 1115 or MATH 1540 or MATH 1186 or MATH 1586
<b>Outcome 3</b>		<b>WRITTEN COMMUNICATION</b>		<b>Prerequisite Requirements</b>
ENGL	1101	Written English I.	3 hrs.	ACT score of 18, SAT-Critical Reading of 450 or COMPASS score of 71 or developmental writing course

ENGL	1102	Written English II	3 hrs.	ENGL 1101 with a Grade of "C" or better
ENGL	1103	Technical Report Writing	3 hrs.	ENGL 1101 with a Grade of "C" or better
<b>Outcome 4</b>		<b>TEAMWORK</b>		<b>Prerequisite Requirements</b>
ALLH	1160	Exploration of Healthcare Professions	2 hrs.	ALLH 1150, PSYC 1150, and/or SOCY 1150 as a pre-requisite.
-or-	PSYC 1160			
-or-	SOCY 1160 *			May only choose one as all three are the same course.
ARCH	3300	Design III	4 hrs.	ARCH 2250
ART	1140	Design I: 2D	3 hrs.	None
ART	1141	Design II: 3D	3 hrs.	None
CHEM	4412	Physical Chemistry II	4 hrs.	CHEM 3301, PHYS 1102 or 1106, MATH 1186 or 1586 or 3315
CIVL	2200	Introduction to Surveying	3 hrs.	None
COMM	2200	Introduction to Human Communication	3 hrs.	Completion of ENG 1101 with a C or better grade or a Verbal ACT score of 21 or higher
COMM	2201	Introduction to Group Communication	3 hrs.	Completion of ENG 1101 with a C or better grade or a Verbal ACT score of 21 or higher
CRIM	2295	Ethics in Criminal Justice	3 hrs.	None
CRIM	3330	Group Disturbances	3 hrs.	CRIM 2212
ELEC	3300	Advanced Linear Electronics	3 hrs.	ELEC 2260 and ELEC 2270
MANF	2250	Total Quality & SPC	3 hrs.	None
MECH	4430	Heat Transfer II ...	3 hrs.	MECH 3330
BSBA	2209	Principles of Management	3 hrs.	None
MUSI	1112	Piano Ensemble .	1 hr.	None
MUSI	2247	Jazz Ensemble....	1 hr.	None
MUSI	1167	Collegiate Singers	1 hr.	None
MUSI	1168	Marching Band I-II	2 hrs.	None
MUSI	1169	Wind Ensemble..	1 hr.	None
NURS	4440	Nursing Practicum	4 hrs.	NURS 4410 and 4430. NURS 4430 may be taken concurrently.
NURS	4400	Research in Nursing Practice	4 hrs.	NURS 3360 and statistics. Statistics may be taken concurrently.
RECR	1141	Introduction to Recreation	3 hrs.	None
SFTY	4480	Application of Safety Strategies	4 hrs.	SFTY 4420
SOCY	3301	Cultural Anthropology	3 hrs.	SOCY 1110
SPAN	4400	Survey of Latin American Literature	3 hrs.	SPAN 3301 OR SPAN 3302
TECH	1101	Introduction to Technology	3 hrs.	None
<b>Outcome 5</b>		<b>INFORMATION LITERACY</b>		<b>Prerequisite Requirements</b>
EDUC	2201	Instructional Technology	3 hrs.	None
ENGL	1102	Written English II	3 hrs.	ENGL 1101 with a Grade of "C" or better
ENGL	1103	Technical Report Writing	3 hrs.	ENGL 1101 with a Grade of C or better
HONR	3301	Honors Study Travel	3 hrs.	Honors Program students only; Instructor app required
NURS	4400	Research in Nursing Practice	3 hrs.	NURS 3360 and statistics. Statistics may be taken concurrently.
<b>Outcome 6</b>		<b>TECHNOLOGY LITERACY</b>		<b>Prerequisite Requirements</b>
ARCH	2060	Building Technology I	4 hrs.	Co-requisite - ARCH 2000 Design I: Foundation
ART	2245	E. Foundations ...	3 hrs.	None
BISM	1200	Introduction to Computing	3 hrs.	None

BISM	2200	Business Information Tools	3 hrs.	BISM 1200 AND MATH ACT score of 19 or MATH 1100 or higher
MATH	1550	Applied Statistics	3 hrs	MATH 1102 or higher
CRIM	2250	Cybercrime	3 hrs.	None
CIVL	2210	Light Construction	4 hrs.	Co-requisite - MATH 1510
EDUC	2201	Instructional Technology	3 hrs.	None
MUSI	1111	Introduction to Music Technology	3 hrs.	Pre-Music or Music majors only
NURS	4430	Nursing Leadership/Management	3 hrs.	BSBA 2209 or MGMT 3308 and NURS 4400. BSBA and MGMT may be taken concurrently.
SFTY	3300	Industrial Hygiene Application and Practice	4 hrs.	ENGL 1102 and SFTY 2290
TECH	1100	Technology and Society	3 hrs.	None
TECH	1101	Introduction to Technology	3 hrs	None
<b>Outcome 7</b>		<b>ORAL COMMUNICATION</b>		<b>Prerequisite Requirements</b>
ARCH	4450	Design V	4 hrs.	ARCH 3350
COMM	2200	Intro to Human Communication	3 hrs.	Completion of ENG 1101 with a C or better grade or a Verbal ACT score of 21 or higher
COMM	2201	Introduction to Group Discussion	3 hrs.	Completion of ENG 1101 with a C or better grade or a Verbal ACT score of 21 or higher
COMM	2202	Intro to Communication in World of Work	3 hrs.	Completion of ENG 1101 with a C or better grade or a Verbal ACT score of 21 or higher
<b>Outcome 8</b>		<b>CITIZENSHIP</b>		<b>Prerequisite Requirements</b>
HIST	1107	United States History I	3 hrs.	None
HIST	1108	United States History II	3 hrs.	None
POLI	1103	American Government	3 hrs.	None
<b>Outcome 9</b>		<b>ETHICS</b>		<b>Prerequisite Requirements</b>
ALLH	3341	Death and Dying.	3 hrs.	None
BSBA	4420	Business Ethics and Corporate Accountability	3 hrs.	BSBA 3320 AND BISM 3200
CIVL	4420	Construction Planning & Administration	3 hrs.	CIVL 2230
COMM	2200	Intro to Human Communication	3 hrs.	Completion of ENG 1101 with a C or better grade or a Verbal ACT score of 21 or higher
COMM	2201	Introduction to Group Discussion	3 hrs.	Completion of ENG 1101 with a C or better grade or a Verbal ACT score of 21 or higher
COMM	2202	Intro to Communication in World of Work	3 hrs.	Completion of ENG 1101 with a C or better grade or a Verbal ACT score of 21 or higher
CRIM	2295	Ethics in Criminal Justice	3 hrs.	None
ENGL	2220	World Literature I	3 hrs.	ENGL 1102
ENGL	2221	World Literature II	3 hrs.	ENGL 1102
ENGL	2230	Introduction to Literature: Prose	3 hrs.	ENGL 1102
ENGL	2231	Introduction to Literature: Poetry & Drama	3 hrs.	ENGL 1102
ENGL	3356	Fantasy, Science Fiction, & Magical Realism	3 hrs.	ENGL 2220 or ENGL 2221 or ENGL 2230 or ENGL 2231
HONR	1100	Honors Seminar..	3 hrs.	Honors Program students only; Instructor approval req
INTR	2200	Race, Class & Gender	3 hrs.	ENGL 1101 with a Grade of "C" or better
INTR	2280	Empowering Leadership	3 hrs.	ENGL 1101 with a Grade of "C" or better
MANF	2250	Total Quality & SPC	3 hrs.	None
NURS	3360	Nursing Ethics	3 hrs.	NURS 3340 and NURS 3350; NURS 3340 may be taken concurrently
PHIL	3325	Ethics	3 hrs.	None

SCIE	1221	Evolution and Human Nature	4 hrs.	English ACT score of 18, or SAT-Critical Reading of 450, or Reading of 71 on the COMPASS test or ENGL 0092 and ENG 0097
SOCY	1110	Introductory Sociology	3 hrs.	None
SOCY	2200	Social Problems	3 hrs.	SOCY 1110
SOCY	2205	Principles of Race, Class, and Gender	3 hrs.	None
TECH	1100	Technology and Society	3 hrs.	None

**Outcome 10**

\* ALLH 1150  
-or- \*PSYC 1150  
-or- \*SOCY 1150

**HEALTH AND WELL-BEING**

Intro to Healthcare Professionals	3 hrs.
Deviant Behavior	3 hrs.
Human Development, Learning & Teaching	3 hrs.
Personal Health..	2 hrs.
Contemporary and Drug Behavior Issues	3 hrs.
Community Health Nursing	5 hrs.
Fitness and Wellness	2 hrs.
Human Biology ..	4 hrs.

**Prerequisite Requirements**

None  
\* May only choose one as all three are the same course.

CRIM	2212	Deviant Behavior	3 hrs.	None
EDUC	2203	Human Development, Learning & Teaching	3 hrs.	Admission to Teacher Education
HLTA	1100	Personal Health..	2 hrs.	None
HLTA	2203	Contemporary and Drug Behavior Issues	3 hrs.	ENGL 1102
NURS	4410	Community Health Nursing	5 hrs.	NURS 3360 AND NURS 4400
PHED	1100	Fitness and Wellness	2 hrs.	None
SCIE	1100	Human Biology ..	4 hrs.	None

**Outcome 11**

**INTERDISCIPLINARY AND LIFELONG LEARNING**

ENGL	3386	The Bible as Literature	3 hrs.	ENGL 2220 or ENGL 2221 or ENGL 2230 or ENGL 2231
ENGL	3387	Folk Literature	3 hrs.	ENGL 1102 and ENGL 2220
ENGL	3388	Women 's Literature	3 hrs.	ENGL 2220 or ENGL 2221 or ENGL 2230 or ENGL 2231
ENGL	3389	Minority Literature	3 hrs.	ENGL 2220 or ENGL 2221 or ENGL 2230 or ENGL 2231
ENGL	3394	The Art of the Motion Picture	3 hrs.	ENGL 2220 or ENGL 2221 or ENGL 2230 or ENGL 2231
ENGL	3396	Literature and Film	3 hrs.	ENGL 2220 or ENGL 2221 or ENGL 2230 or ENGL 2231
FOLK	2200/01	Introduction to Folklore & Lab	4 hrs.	None
FOLK	3300	Folk Literature	3 hrs.	ENGL 1102
FREN	3310	Advanced Topics In French	3 hrs.	None
GEOG	2210	Introduction to Geography	3 hrs.	None
GEOG	3305	Economic Geography	3 hrs.	None
GEOG	3315	Urban Geography	3 hrs.	None
GEOG	3330	Geography of North America	3 hrs.	None
HONR	3301	Honors Study Travel	3 hrs.	Honors Program students only; Instructor approval req
INTR	2280	Empowering Leadership	3 hrs.	ENGL 1101 with a Grade of "C" or better
LANG	1110	Introduction to Global Studies	3 hrs.	None
MUSM	1100	Introduction to Museums	3 hrs.	None
POLI	1103	American Government	3 hrs.	None
SFTY	4480	Application of Safety Strategies	4 hrs.	SFTY 4420
SOCY	2200	Social Problems..	3 hrs.	None

**Prerequisite Requirements**

**Outcome 12**

**FINE ARTS (minimum 3 hours)**

ART	1120	Art Appreciation..	3 hrs.	None
ART	3374	Art History: to 1450	3 hrs.	ENGL 1102
ART	3378	Art History: 1750-1950	3 hrs.	ENGL 1102
ART	3383	Pottery I.....	3 hrs.	None
ENGL	3332	Narrative and Descriptive Writing	3 hrs.	ENGL 1102
ENGL	3333	Writing Non-Fiction	3 hrs.	ENGL 1102
ENGL	3344	Writing Poetry....	3 hrs.	ENGL 1102
ENGL	3345	Writing Fiction....	3 hrs.	ENGL 3332

ENGL	3394	The Art of the Motion Picture	3 hrs.	ENGL 1102 and ENGL 2221
INTR	1120	Experiencing the Arts	3 hrs.	None
MUSI	1106	Guitar Class I - II..	1 hr.	None
MUSI	1118	Exploring Music In America	3 hrs.	None
MUSI	1119	Exploring Music In World Cultures	3 hrs.	None
MUSI	1120	Music Appreciation	3 hrs.	None
MUSI	1167	Collegiate Singers	1 hr.	None
MUSI	1168	Marching Band...	2 hrs.	None
MUSI	1169	Wind Ensemble..	1 hr.	None
MUSI	2206	Music Appreciation for Majors	3 hrs.	Pre music or Music Majors only
MUSI	2247	Jazz Ensemble....	1 hr.	Admission is by audition at the discretion of the director
MUSI	2277	Chamber Choir...	1 hr.	Audition at beginning of each semester
MUSI	2279	Advanced Percussion Ensemble	1 hr.	Audition or admission at the discretion of the director
THEA	1120	Theatre Appreciation	3 hrs.	None
THEA	3352	Creative Drama...	3 hrs.	None

**Outcome 13**

**HUMANITIES**

**Prerequisite Requirements**

ENGL	2220	World Literature I	3 hrs.	ENGL 1102
ENGL	2221	World Literature II	3 hrs.	ENGL 1102
ENGL	2230	Introduction to Literature: Prose	3 hrs.	ENGL 1102
ENGL	2231	Introduction to Literature: Poetry & Drama	3 hrs.	ENGL 1102
ENGL	3356	Fantasy, Sci-Fi, & Magic Realism	3 hrs.	ENGL 2220 or ENGL 2221 or ENGL 2230 or ENGL 2231
ENGL	3386	The Bible as Literature	3 hrs.	ENGL 2220 or ENGL 2221 or ENGL 2230 or ENGL 2231
ENGL	3387	Folk Literature ....	3 hrs.	ENGL 1102 and ENGL 2220
ENGL	3388	Women 's Literature	3 hrs.	ENGL 2220 or ENGL 2221 or ENGL 2230 or ENGL 2231
ENGL	3389	Minority Literature	3 hrs.	ENGL 2220 or ENGL 2221 or ENGL 2230 or ENGL 2231
ENGL	3394	The Art of the Motion Picture	3 hrs.	ENGL 1102 and ENGL 2221
ENGL	3396	Literature and Film	3 hrs.	ENGL 2220 or ENGL 2221 or ENGL 2230 or ENGL 2231
FOLK	2200	Introduction to Folklore	3 hrs.	None
FOLK	3300	Folk Literature	3 hrs.	ENGL 1102
FREN	3314	French Civilization and Culture	3 hrs.	FREN 2202
FREN	3326	Media Studies in French	3 hrs.	None
FREN	4426	French Literature and Culture	3 hrs.	FREN 3312
HIST	1107	United States History I	3 hrs.	None
HIST	1108	United States History II	3 hrs.	None
HIST	2211	World Civilizations I	3 hrs.	None
HIST	2212	World Civilizations II	3 hrs.	None
HIST	2213	World Civilizations III	3 hrs.	None
HONR	3301	Honors Study Travel	3 hrs.	Honors Program students only; Instructor approval req
INTR	1120	Experiencing the Arts	3 hrs.	None
PHIL	2250	Great Philosophers	3 hrs.	This course is continuation of PHIL 2200
THEA	3375	Development of Dramatic Arts	3 hrs.	ENGL 1102

**Outcome 14**

**SOCIAL SCIENCE.**

**Prerequisite Requirements**

BSBA	2200	Economics	3 hrs.	None
BSBA	2211	Macroeconomics.	3 hrs.	None
CRIM	2202	Principles of Criminal Law	3 hrs.	None
CRIM	2212	Deviant Behavior	3 hrs.	None
CRIM	3310	Comparative Criminal Justice	3 hrs.	None
GEOG	2210	Introduction to Geography	3 hrs.	None
GEOG	3305	Economic Geography	3 hrs.	None
GEOG	3315	Urban Geography	3 hrs.	None

GEOG	3330	Geography of North America	3 hrs.	None
MANF	2205	Engineering Economy	3 hrs	MATH 1102
POLI	2200	Introduction to Political Science	3 hrs.	None
POLI	2201	Principles of International Relations	3 hrs.	None
POLI	2203	Comparative Government	3 hrs.	None
PSYC	1101	Introduction to Psychology	3 hrs.	None
SOCY	1110	Introduction to Sociology	3 hrs.	None
<b>Outcome 15</b>		<b>NATURAL SCIENCE</b>		<b>Prerequisite Requirements</b>
BIOL	1104	Biosphere	4 hrs.	Elementary Education majors only.
BIOL	2205	Technical Microbiology	3 hrs.	None
BIOL	1105	Biological Principles I	4 hrs.	A score of 21 or better on the ACT Science Reasoning section or SCIE 1000 with a C or better or BIOL 1106 with a C or better.
BIOL	1106	Biological Principles II	4 hrs.	A score of 21 or better on the ACT Science Reasoning section or SCIE 1000 with a C or better or BIOL 1105 with a C or better.
BIOL	1180	Anatomy and Physiology (and 1181 lab)	4 hrs.	None
CHEM	1101	General Chemistry	4 hrs.	ACT math score of 19; or SAT Math score of 460 or Compass score of 36 or Elementary Algebra 0095
CHEM	1105	Chemical Principles	5 hrs.	ACT math score of 20; SAT Math 480, Compass score of 42 or CHEM 1101 with a grade of C or better.
GEOL	1101	Physical Geology	4 hrs.	None
GEOL	1102	Historical Geology	4 hrs.	GEOL 1101
PHYS	1101	Introduction to Physics I	4 hrs.	MATH 1102 or MATH 1420 or 1520 or MATH 1115 or MATH 1540 or MATH 1185 or MATH 1585 or MATH 1190 or MATH ACT 24 or MATH SAT 560 or Compass 67
PHYS	1102	Introduction to Physics II	4 hrs.	PHYS 1101
PHYS	1105	Principles of Physics I	4 hrs.	MATH 1185 or MATH 1585 or MATH 1190 or TECH 2290 or MATH ACT 28 or MATH SAT 630 or Compass 89
SCIE	1100	Human Biology	4 hrs.	None
SCIE	1103	Science That Matters I	4 hrs.	None
SCIE	1105	Environmental Science	4 hrs.	None
SCIE	1107	Geographic Information Systems (GIS)	4 hrs.	None
SCIE	1110	Chemistry of Life	4 hrs.	None
SCIE	1115	Earth and Sky	4 hrs.	None
SCIE	1120	Introduction to Meteorology	4 hrs.	None
SCIE	1130	The Science of Disasters	4 hrs.	None
SCIE	1210	Science in the Heart of Appalachia	4 hrs.	None
SCIE	1220	Geological Heritage in the Field	4 hrs.	None
SCIE	1221	Evolution and Human Nature	4 hrs.	English ACT score of 18, or SAT-Critical Reading of 450, or Reading of 71 on the COMPASS test or ENGL 0092 and ENG 0097
SCIE	2200	Ocean Issues and Society		
<b>Outcome 16</b>		<b>CULTURAL AWARENESS AND HUMAN DIGNITY</b>		<b>Prerequisite Requirements</b>
ALLH	3341	Death and Dying.	3 hrs.	None
BSBA	3320	International Business	3 hrs.	BSBA 2209, BSBA 2204 AND BSBA2211
CRIM	3310	Comparative Criminal Justice	3 hrs.	None
ENGL	2220	World Literature I	3 hrs.	ENGL 1102
ENGL	2221	World Literature II	3 hrs.	ENGL 1102
ENGL	2230	Introduction to Literature: Prose	3 hrs.	ENGL 1102

ENGL	2231	Introduction to Literature: Poetry & Drama	3 hrs.	ENGL 1102
ENGL	3386	The Bible as Literature	3 hrs.	ENGL 2220 or ENGL 2221 or ENGL 2230 or ENGL 2231
ENGL	3388	Women 's Literature	3 hrs.	ENGL 2220 or ENGL 2221 or ENGL 2230 or ENGL 2231
ENGL	3389	Minority Literature	3 hrs.	ENGL 2220 or ENGL 2221 or ENGL 2230 or ENGL 2231
ENGL	3387	Folk Literature ....	3 hrs.	ENGL 1102 and ENGL 2220
FREN	2202	Intermediate French II	3 hrs.	FREN 2201
FREN	3314	French Civilization and Culture	3 hrs.	FREN 2202
FREN	4420	Francophone Cultures of the Americas	3 hrs.	None
FREN	4426	French Literature and Culture	3 hrs.	FREN 2202
GEOG	2210	Introduction to Geography	3 hrs.	None
GEOG	3305	Economic Geography	3 hrs.	None
GEOG	3315	Urban Geography	3 hrs.	None
GEOG	3330	Geography of North America	3 hrs.	None
HIST	2211	World Civilizations I	3 hrs.	None
HIST	2212	World Civilizations II	3 hrs.	None
HIST	2213	World Civilizations III	3 hrs.	None
PHIL	3350	Comparative Religion	3 hrs.	None
POLI	2200	Introduction to Political Science	3 hrs.	None
POLI	2201	Principles of International Relations	3 hrs.	None
POLI	2203	Comparative Government	3 hrs.	None
SOCY	3301	Cultural Anthropology	3 hrs.	SOCY 1110

## WRITING INTENSIVE COURSES (WIC)

The Fairmont State General Studies Curriculum indicates that "Students will be required to complete at least one designated writing intensive course as part of their general studies program or their major field of study. This course will not be in addition to their other courses, but rather a course from those approved as General Studies or majors courses."

## RATIONALE FOR WIC

The purpose of the writing-intensive course requirement is to assist undergraduates in becoming effective writers within their major discipline. Writing intensive courses benefit students by improving writing skills as a means of (a) self-expression, (b) increasing knowledge and understanding of course content, and (c) enhancing critical thinking skills.

## WRITING INTENSIVE COURSES:

ACCT	4410	CASE STUDIES IN ACCOUNTING
ARCH	2020	ARCHITECTURAL HISTORY II
ART	3374	ART HISTORY FROM PREHISTORY TO 1450
ART	3376	ART HISTORY FROM 1450 TO 1750
ART	3378	ART HISTORY FROM 1750 TO 1950
ART	3380	ART HISTORY SINCE 1950
AVMA	3305	GENERAL AVIATION OPERATIONS
BIOL	3390	MOLECULAR BIOTECHNOLOGY
BISM	2800	CORPORATE COMMUNICATIONS AND TECH
BISM	4000	GLOBAL, ECONOMIC, ETHICAL, AND SOCIAL INFORMATION SYSTEMS
CHEM	3301	PHYSICAL CHEMISTRY
CIVL	4400	HIGHWAY DESIGN AND TRANSPORTATION

COMM	4495	SEMINAR IN COMMUNICATION ISSUES
COMP	3395	ETHICAL ISSUES IN COMPUTING
CRIM	4425	EVALUATION OF THE CRIMINAL JUSTICE SYSTEM
CRIM	4412	RESEARCH IN THE SOCIAL SCIENCES
EDUC	3330	THE READING PROCESS
EDUC	3331	READING IN THE CONTENT AREAS
EDUC	3351	INCLUSIVE CLASSROOM PRACTICES
ELEC	4402	SENIOR ELECTRONICS PROJECT II
ENGL	3303	SURVEY OF AMERICAN LITERATURE I
ENGL	3304	SURVEY OF AMERICAN LITERATURE II
ENGL	3313	SURVEY OF BRITISH LITERATURE I
ENGL	3314	SURVEY OF BRITISH LITERATURE II
ENGL	3332	NARRATIVE AND DESCRIPTIVE WRITING
ENGL	3333	WRITING NON-FICTION
ENGL	3344	WRITING POETRY
ENGL	3345	WRITING FICTION
ENGL	3349	ADVANCED TECHNICAL COMMUNICATION
ENGL	3374	SHAKESPEARE
FINC	3385	ANALYZING FINANCIAL STATEMENTS
FREN	4411	ADVANCED FRENCH COMP. & CONVERSATION
GRFX	4141	GRAPHIC DESIGN SENIOR SEMINAR
HCMG	4401	ALLIED HEALTH PRACTICUM AND SEMINAR
HIST	2250	THE HISTORIAN 'S CRAFT
HLTA	2203	CONTEMPORARY AND DRUG BEHAVIOR ISSUES
JOUR	2270	COMMUNICATIONS IN SOCIETY
JOUR	2280	HISTORY OF AMERICAN JOURNALISM
JOUR	3312	THE PUBLICATIONS PROCESS
MATH	4520	ABSTRACT ALGEBRA
MECH	4400	MECHANICAL MEASUREMENTS
MUSI	3313	MUSIC IN WESTERN CIVILIZATION TO 1750
MUSI	3314	MUSIC IN WESTERN CIVILIZATION SINCE 1750
MUSI	4431	METHODS & MAT. IN TEACHING MUSIC, 7-12
NURS	3350	PROFESSIONAL NURSING CONCEPTS
NURS	4440	NURSING PRACTICUM
PHED	3325	INSTRUCTIONAL DESIGN
PHED	3327	SPORT IN SOCIETY
PHED	4201	SPORT FINANCE
PHED	4410	RESEARCH DESIGN SEMINAR
POLI	3340	POLITICAL SCIENCE RESEARCH METHODS
PSYC	3390	RESEARCH CAPSTONE
SFTY	3300	INDUSTRIAL HYGIENE/PRACTICES
SOCY	4470	SOCIOLOGICAL THEORY
SPAN	3301	SPANISH COMPOSITION & CONVERSATION I
THEA	3340	THEATRE HISTORY I
THEA	3341	THEATRE HISTORY II
THEA	3350	CHILDREN 'S DRAMA
THEA	3375	DEVELOPMENT OF DRAMATIC ART

# Courses of Instruction

PR = Prerequisite. These courses must be passed before enrollment in the course in question.

CR = Co-requisite. Must be taken concurrently with the course in question.

~ = Courses are transferable as general studies credit to all other state institutions of higher education in West Virginia for credit with the grade earned.

## ACADEMIC DEVELOPMENT CENTER

ACCS 1110 Online Tutorial Practicum ..... 1 hr.

This course is designed to equip tutors with the necessary skills to effectively communicate with students in an individual and group setting. The course entails an orientation to tutorial procedures and assignments that emphasize specific skills such as tutoring special populations, tutoring study skills, and recognizing diverse response styles. The course is a requirement for all new tutors; instructor permission is required for registration.

## ACCOUNTING

ACCT 3301 Intermediate Accounting I ..... 3 hrs.

Primarily the study of general financial accounting theory as it relates to balance sheet items. Included is a brief review of the accounting cycle and income recognition theory. Current tax regulations are considered where applicable. PR: BSBA 2202, BISM 2200, COMM 2200 COMM 2201 or COMM 2202.

ACCT 3302 Intermediate Accounting II ..... 3 hrs.

A continuation of ACCT 3301, to include the study of corporate ownership equity and the analysis and interpretation of accounting data. PR: ACCT 3301, MATH 1430 or MATH 1530, ENGL 1102.

ACCT 3303 Accounting Internship ..... 3 hrs.

The internship course is designed as a learning experience which requires the integration of accounting theory with actual job experience in an accounting, industrial, or governmental organization. To be eligible for this experience, the student must be enrolled in the 4-year accounting program. The employer is responsible for evaluating and reporting the development of the student. This is a Credit/No Credit course. PR: ACCT 3302

ACCT 3325 Intermediate Accounting III ..... 3 hrs.

A continuation of the study of financial accounting theory and practices. Topics include accounting for income taxes, pensions and other post-retirement benefits, leases, cash flows, and disclosure standards. PR: ACCT 3302.

ACCT 3330 Advanced Accounting I ..... 3 hrs.

Includes accounting for special situations: partnerships, installment and consignment sales, home office-branch relationships, consolidations, and fund accounting. Attention is focused on the current AICPA position relative to these special accounting situations. PR: ACCT 3302.

ACCT 3331 Advanced Accounting II ..... 3 hrs.

A continuation of ACCT 3330; exploration of advanced accounting topics. PR: ACCT 3330.

ACCT 3350 Accounting Information Systems ..... 3 hrs.

This course is designed to introduce students to accounting information systems. It focuses on understanding the different types of accounting systems, their internal controls (including security issues), development, and information systems auditing concepts. PR: BSBA 2202.

ACCT 3399 Special Topics in Accounting ..... 1-6 hrs.

Advanced studies in special selected topics, to be determined by the instructor and approved by the School Dean. Credits earned will be applicable as free electives in degree programs.

ACCT 4404 Cost Accounting ..... 3 hrs.

The relationship of cost accounting to the performance of management's pursuit of company objectives is studied with 4 basic points of view in mind: cost principle, determination, control and analysis. PR: BSBA 2202.

ACCT 4405 Auditing ..... 3 hrs.

A study of the philosophy, environment, and procedures of auditing, and the legal, social and professional responsibilities of the auditor. PR: ACCT 3302, ACCT 3350.

ACCT 4406 Federal Income Tax Accounting:

Individual ..... 3 hrs.

This course covers preparation of income tax returns from the accounts of an individual; exclusions and inclusions for gross income, capital gains and losses, business expenses, and other deductions.

ACCT 4407 Federal Income Tax Accounting: Partnership and Corporation ..... 3 hrs.

Continuation of ACCT 4406, including preparation of income tax returns from accounts of partnerships, estates and trusts and corporations. While previous accounting knowledge or experience will be helpful, no prior accounting training is required. PR: ACCT 4406.

ACCT 4408 Income Tax Return Preparation ..... 3 hrs.

Students will participate in the Volunteer Income Tax Assistance (VITA) program as administered through the Internal Revenue Service. Students must successfully pass the IRS certification exam. Once certified, students will prepare income tax returns primarily for low income and elderly taxpayers who cannot afford to pay for professional tax assistance. This course requires participation at various off-campus locations during arranged hours. This course may be repeated for credit. PR: ACCT 4406.

ACCT 4410 Case Studies in Accounting ..... 3 hrs.

*Writing Intensive*

This course is designed to provide stimulus for critical analysis of accounting, finance, and ethics problems. Emphasis is placed on research, organization of data, critical analysis, communication of conclusions, and presentation skills. Through case studies, students will enhance their problem-solving skills by formulating solutions to problems which are encountered in accounting environments. PR: ENGL 1102, ACCT 3325, ACCT 4405.

ACCT 4998 Undergraduate Research ..... 0-6 hrs.

Undergraduate research is an experiential learning activity that provides an opportunity for a student to engage in the scholarly activities of their major discipline under the guidance of a faculty mentor who will work in close partnership with each student in his or her formulation of a project, the development of a research strategy, and the assessment of a student's progress. The primary goal is for each student scholar to conduct an inquiry or investigation that makes an original, intellectual or creative contribution to their discipline and which is shared in an appropriate venue. Sophomore-Senior Level, Repeatable. Instructor approval required.

## ALLIED HEALTH

ALLH 1150 Introduction to Healthcare Professions ..... 3 hrs.

This course is designed to introduce students to the basic tenets of health and well-being, healthcare settings, and a variety of healthcare professions. Students will learn about different health professions, how health professions impact health and well-being, and the different settings in which healthcare professionals work. Emphasis will be placed on how roles within healthcare settings

intersect to support the goal of personal and public health. (ALLH 1150 is the same course as SOCY 1150 and PSYC 1150; students may receive credit for the course only once).

ALLH 1160 Exploration of Healthcare Professions ..... 2 hrs.

Students will explore healthcare settings through service learning projects. Students will partner with community groups/agencies that provide health-related services to citizens of North Central WV and beyond. Emphasis will be placed on teamwork, collaboration, and the achievement of personal and public health goals. This is a 2 credit course. (ALLH 1160 is the same course as SOCY 1160 and PSYC 1160; students may receive credit for the course only once). PR or CR: ALLH 1150 or SOCY 1150 or PSYC 1150

ALLH 3341 Death and Dying ..... 3 hrs.

This course provides a general overview of death and dying and related concepts. In addition to learning about the physical manifestations of death and dying, students will explore cultural perspectives, grief and bereavement, and ethical and legal issues associated with death and dying. Students will also discuss the role of healthcare professionals when caring for individuals and families experiencing death and dying. IOM recommendations for care of families and individuals at or near end of life are emphasized.

## ARCHITECTURE

ARCH 1000 Design Fundamentals I ..... 4 hrs.

This course addresses the basic graphic communications skills necessary to express architectural form using traditional methods. Topics include freehand, multi-view, paraline, perspective and shade/shadow drawing.

ARCH 1050 Design Fundamentals II ..... 4 hrs.

The focus of this class is on digital media in architectural. Principles of digital image manipulation, composition and Building Information Modeling (BIM) will be introduced. PR: ARCH 1000

ARCH 1199 Special Topics in Architecture ..... 1-6 hrs.

Studies in special selected topics, to be determined by the instructor and approved by the department chairperson. Credits earned will be applicable as free electives in degree and certificate programs. Repeatable.

ARCH 2000 Design I: Foundation ..... 4 hrs.

Introduction to basic principles of architectural design. Areas to be explored include: design theory, methods and processes; presentation drawing techniques; fundamentals of model making; and the application of the above to actual design projects. PR: ARCH 1050, CR: ARCH 2060

ARCH 2010 Architectural History I ..... 3 hrs.  
 This course covers architectural history from prehistoric times through the Gothic period. The emphasis will be on the historical, social and technological factors behind the structures discussed.

ARCH 2020 Architectural History II ..... 3 hrs.  
*Writing Intensive*  
 An overview of the key themes, historical developments, significant structures, and the personalities involved in shaping the world view and built environment from the 14th Century to the present. Emphasis will be given to the trajectory of Western culture while surveying and comparing the diverse thoughts and achievements of other cultures from across the globe during the same time period. PR: ENGL 1102 and ARCH 2010.

ARCH 2050 Design II: Foundation ..... 4 hrs.  
 A continuing study of design methodology as applicable to the design of simple structures. Emphasis on tectonics, as well as the nature of materials and the site. Further development of sketching, graphic and modeling skills as students learn to understand, interpret, and represent spaces and receive further training in presentation skills. Students will develop a first-year design portfolio. PR: ARCH 2000

ARCH 2060 Building Technology I ..... 4 hrs.  
 Students will study practices utilized in the erection of residential buildings including architectural materials, methods and use, and structural, mechanical, and electrical systems. CR: ARCH 1000

ARCH 3000 Design III: Site ..... 6 hrs.  
 This course is a continuation of the design sequence, emphasizing synthesizing pragmatic issues of the site, context, and envelope with basic design theory. PR: ARCH 2050, ARCH 2020

ARCH 3001 Community Design Assistance Center ..... 3 hrs  
 The Community Design Assistance Center is the outreach arm of the Architecture program. Focusing on projects within the small city context, student interns facilitate design and planning assistance for non-profit community organizations and groups.  
 Repeatable. PR: Instructor Approval

ARCH 3010 Sustainable Design ..... 3 hrs  
 This course presents a sustainable approach to architecture considering social and economic issues; resource conservation through design of site, building envelope, and the building systems. PR: Junior Standing

ARCH 3050 Design IV: Urban ..... 6 hrs.  
 This course explores architectural design within the urban setting. Topics Include urban design, historic preservation and the social impact of the built environment. PR: ARCH 3000

ARCH 3060 Architecture Portfolio ..... 3 hrs.  
 This course explores the methodology of creating professional and academic portfolios for Architecture students.

ARCH 3080 Architectural Practice Program ..... 1-3 hrs  
 This course offers students the opportunity for selected practical experience intermingled with an academic background. Students participate in the NCARB intern development program (IDP), working in a professional setting. Students meet with faculty to develop and assess progress toward completing the established learning goals. Repeatable PR: Instructor Approval

ARCH 3085 Architecture Study + Travel ..... 3 hrs  
 Architecture Study + Travel course offers students study in one of the world's great cities. The course's main objective is to facilitate a student's interconnections with architectural design, sustainability, and architectural history that have contributed to the life and culture of the city. This course will allow students to better understand the influence of the past on the present and ponder on the evolving future. In the classroom, students will study the history and culture of the region. In the field, they will visit important architecture, museums and historic sites. This course seeks to develop skills students will need in order to explore cultures and civilizations outside their own and encourage teamwork as they explore. Repeatable. PR: Instructor Approval

ARCH 3399 Special Topics in Architecture ..... 1-6 hrs.  
 This course provides students with further opportunities to study principles and concepts in selected areas of specialization, to be determined by the instructor and to be approved by the department chair. Credits earned will be applicable as free electives in degree and certificate programs. Repeatable.

ARCH 4000 Design V: Technology ..... 6 hrs.  
 This course encompasses integrated design, synthesizing building systems, sustainable principles and a more complete approach to planning and design of commercial buildings. PR: ARCH 3050

ARCH 4001 Community Design Assistance Center-Management ..... 3 hrs  
 This course is a continuation of ARCH 3001. The Community Design Assistance Center is the outreach arm of the Architecture program. Focusing on projects within the small city context, student interns facilitate design and planning assistance for non-profit community organizations and groups. Student interns share

an expanded role in project management and leadership.  
Repeatable. PR: ARCH 3001 and Instructor Approval

ARCH 4030 Mechanical and Electrical Systems ..... 4 hrs.

This course is an introduction to the variety of principles and systems at work in a building. Topics emphasized: environmental resources, environmental control, life safety. CR: ARCH 4050

ARCH 4050 Design VI: Build..... 6 hrs.

This course examines the relationship between the design process and the act of building. Concept and reality are studied, resulting in a built architectural object. PR: 4000

ARCH 4060 Building Technology II ..... 4 hrs.

This course investigates the building envelope, and select building systems explored through the creation of a set of working drawings for a commercial building. PR: ARCH 2060; CR: ARCH 4000

ARCH 4080 Architectural Practice Program II ..... 1-3 hrs

This course offers students the opportunity for selected practical experience intermingled with an academic background. Students participate in the NCARB intern development program (IDP), working in a professional setting. Students meet with faculty to develop and assess progress toward completing the established learning goals. Repeatable. PR: ARCH 3080 and Instructor Approval

ARCH 4998 Special Topics in Architecture ..... 0-6 hrs.

Undergraduate research is an experiential learning activity that provides an opportunity for a student to engage in the scholarly activities of their major discipline under the guidance of a faculty mentor who will work in close partnership with each student in his or her formulation of a project, the development of a research strategy, and the assessment of a student's progress. The primary goal is for each student scholar to conduct an inquiry or investigation that makes an original, intellectual or creative contribution to their discipline and which is shared in an appropriate venue. Sophomore-Senior Level, Repeatable. Instructor approval required.

## ART

~ART 1120 Art Appreciation..... 3 hrs.

This introductory course is a study of art of the Western and non-Western worlds. It explores the emergence of new forms and salient factors contributing to changes in art from prehistoric Europe to the contemporary West. The works of art are presented within their historical contexts.

ART 1140 Design I: 2D ..... 3 hrs.

The elements and principles of two-dimensional design are explored in this Foundations course. Students learn the vocabulary of two-dimensional design, and apply scholarly responses to visual images. Students explore, through visual problem-solving, issues of composition, color theory, content, and presentation. Students work with a variety of two-dimensional media in this studio course. Reading and writing assignments accompany studio coursework.

ART 1141 Design II: 3D ..... 3 hrs.

The elements and principles of three-dimensional design are explored in this Foundations course. Students learn the vocabulary of three-dimensional design, and apply scholarly responses to visual images. Students explore, through visual problem-solving, issues of space, inherent properties of materials, and content in the three-dimensional realm. Students work with a variety of three-dimensional media in this studio course. Reading and writing assignments accompany studio coursework.

ART 1142 Drawing I: Foundations of Drawing ..... 3 hrs.

This introductory course focuses on the traditions of drawing. Space, form, value, proportion, and composition are emphasized for the development of the beginning student's ability to perceive and record forms on a two-dimensional surface. Students use a variety of drawing media as they work toward an understanding of the technical, expressive, and conceptual possibilities of mark-making.

ART 1199 Special Topics in Art ..... 1-12 hrs.

Studies in selected areas of specialization, to be determined by the instructor and approved by the School's Chair. Credits earned will be applicable as free electives in degree or certificate programs. Three hours maximum credit per semester.

ART 2230 Gallery Management ..... 3 hrs.

Gallery Management is a course designed to teach students the basic techniques and practices of a gallery curator or museum assistant. All phases of planning and implementing an exhibition, or a series of exhibitions, will be considered. Students will be involved in all aspects of the day-to-day management of the Brooks Gallery. May be repeated once.

ART 2241 Drawing II: Drawing from Life ..... 3 hrs.

Drawing from the posed model, accompanied by analytical studies of anatomy. PR: ART 1140 and 1142. Spring semester only.

ART 2245 E. Foundations ..... 3 hrs.

This course is designed to introduce students to the elements and principles used in the production of contemporary works of art. Electronically based programs will be explored in conjunction with

theories and practices of selected contemporary artists. Offered Fall and Spring.

ART 2261

Painting I: Foundations of Painting ..... 3hrs.

Painting I is an introductory course in oil painting. Materials, tools, techniques, and stretcher construction are emphasized. Students explore the relationships among paint application, color theory, design elements, representation, and expressive intent. PR ART 1140 and 1142.

ART 2262 Painting II: Intermediate Painting ..... 3 hrs.

Painting II continues concepts taught in Painting I,. Students work to solve more complex formal, technical, expressive and theoretical problems. PR ART 2241 and ART 2261. Studio Art and Art Education majors only. Spring semester only.

ART 2283 Sculpture I: Foundations of Sculpture ..... 3 hrs.

This introductory course in sculpture explores materials, tools, techniques and design principles related to the creation of three dimensional objects. PR ART 1141.

ART 2284 Sculpture II ..... 3 hrs.

Advanced work in various sculptural media: metal casting, carving, constructions, etc. PR: ART 2283.

ART 3341 Printmaking I ..... 3 hrs.

Printmaking I is an introductory course in printmaking in which students learn to use basic tools, techniques, and equipment in the studio. Students explore the possibilities and limitations of the medium while applying design theory to serve an expressive intent. PR ART 1140 and 1142.

ART 3342 Printmaking II..... 3 hrs.

Printmaking II is an intermediate to advanced level printmaking studio course in which students utilize skills and processes learned in Printmaking I to further develop images in various media. PR: ART 3341.

ART 3345 E. Intermediate..... 3 hrs.

This course is designed around the knowledge learned in E. Foundations and is applied at an intermediate level. Students will be expected to use artistic approaches to electronic media and contemporary theory to solve studio problems. Class time will be given to the design and creation of original works of art. PR: ART 2245.

ART 3350 Elementary Art Education ..... 3 hrs.

An introduction to teaching art in the elementary classroom, the course focuses on fundamental principles of artistic development in children, and within that context, provides rationales and

methodology for recognizing, creating and utilizing quality art curricula in elementary classrooms. National Standards in Art Education are used as the framework for content, skills, and materials utilized and applied in the course.

PR: Admittance into the School of Education.

ART 3360 Early and Middle Methods and Materials .....4 hrs.

Students will utilize current Art Education methodologies to examine the use of motivators, technology, management, assessment, and historical art examples in the Art classroom. Quality art lessons and objects will be produced with consideration to media and materials suitable to elementary and middle school situations.

Art Majors only.

ART 3363 Intermediate Water Media I.....3 hrs.

Students use watercolor as the primary medium in this intermediate level course. Materials, techniques, and traditions of the medium are employed as students solve visual problems. Contemporary and traditional uses for water media are explored. PR 1141, 2241 Fall semester only.

ART 3374 Art History from Prehistory to 1450 .....3 hrs.

*Writing Intensive*

The major monuments and periods of the history of art will be discussed within their historical and cultural contexts, from prehistory to the end of the Middle Ages. Students will be expected to understand the religious, political and technical concepts which underpin these ideas as they relate to Western and non-Western cultures. Offered once every year. PR: ENGL 1102.

ART 3376 Art History from 1450 to 1750 .....3 hrs.

*Writing Intensive*

The major movements and artists associated with the Renaissance, Baroque and Rococo movements will be investigated within their historical and cultural contexts. Students will consider the theory and criticism appropriate to these periods, together with primary texts produced by the artists. Offered once every year. PR: ENGL 1102.

ART 3378 Art History from 1750 to 1950 .....3 hrs.

*Writing Intensive*

This course will consider the major movements and artists from the Neo-Classical through the Modern periods. The monuments will be examined within the context of their historical, political and cultural milieu, with the theory and criticism of the various movements given serious study. Offered once every year. PR: ENGL 1102.

ART 3380 Art History since 1950 .....3 hrs.

*Writing Intensive*

The major movements and artists associated with the developments of European and American art since 1950 will form the basis for the course. The issues will be set within their historical, aesthetic and critical contexts. Both the history of art and of theory will be considered. Offered once every year. PR: ENGL 1102.

ART 3383 Pottery I .....2-3 hrs.  
Introduction to basic ceramic techniques such as hand construction, the potter's wheel, and glazing.

ART 3384 Pottery II .....2-3 hrs.  
Advanced work in ceramics, glaze theory, and kiln firing. PR: ART 3383.

ART 4431 Methods and Materials in Teaching Art ..... 3 hrs.  
This course is designed for students preparing to teach Art. Multiple Art Education methodologies will be examined and used to explore teaching Art in the secondary classroom. Students are expected to apply course materials in the writing of unit plans and other related class projects. PR: ART 3360. PPST (passing score)

ART 4445 E. Advanced ..... 3 hrs.  
An advanced E. Media class intended for students to continue ideas conceived in ART 3345 E. Intermediate and culminating in the creation of a body of work for studio or commercial purposes. PR: ART 3345.

ART 4463 Advanced Painting Concepts ..... 3 hrs.  
This advanced course gives students the opportunity to explore subjects and forms that they select. Students work with the professor in the studio to solve technical and formal problems, develop ideas, and research content. This is one of the preparatory courses for students who will be creating a body of work for their senior exhibits and graduate school portfolios. PR: ART 2262. Instructor approval required. Studio Art and Art Education majors only.

ART 4464 Pottery III ..... 3 hrs.  
The student is permitted to select the medium and then explore all the technical and creative possibilities that it permits. PR: ART 3384.

ART 4465 Sculpture III ..... 3 hrs.  
The student is permitted to select the medium and then explore all the technical and creative possibilities that it permits. PR: ART 2284.

ART 4467 Area Studies I ..... 3 hrs.  
Area Studies is an independent study course with options in Drawing, Painting, Ceramics, Sculpture, and Cross Media. Students meet with mentor professors regularly to discuss works. Mandatory

critiques are held with a group of art faculty. PR: Completion of at least one 3000 level course in the medium that the student selects. Instructor approval required. Studio Art, Art Education, majors only.

ART 4468 Area Studies II .....3 hrs.  
Area Studies is an independent study course with options in Drawing, Painting, Ceramics, Sculpture, and Cross Media. Students meet with mentor professors regularly to discuss works. Mandatory critiques are held with a group of art faculty. PR: Completion of at least one 3000 level course in the medium that the student selects. Instructor approval required. Studio Art, Art Education, majors only.

ART 4469 Area Studies III .....3 hrs.  
Area Studies is an independent study course with options in Drawing, Painting, Ceramics, Sculpture, and Cross Media. Students meet with mentor professors regularly to discuss works. Mandatory critiques are held with a group of art faculty. Completion of 3000 level courses in the medium that the student selects. May be taken twice for credit. Instructor approval required. Studio Art, Art Education, majors only. PR: ART 4467 or ART 4468.

ART 4471 Capstone Experience in Art .....3 hrs.  
This course is required of Studio Art and Art Education majors during their senior year. Students organize and present a formal exhibition of selected recent work. For Studio Art majors, research is related to studio practice and preparation of materials for promotion and discussion of their body of work. Art Education majors may select a project based on education theory and studio practice or possible collaboration with a PDS, as appropriate to college courses and experience. Digital images of this work will be retained in the Art Department's archives. Studio Art and Art Education majors only. Instructor approval required.

ART 4472 Virtual Exhibition .....3 hrs.  
Virtual Exhibition is the capstone experience for Contemporary Fine Arts in Technology and Cross-Media majors. Students research current trends in digital media, and present an exhibition of their most recent electronic and/or cross media or multi-media work. Digital images of all work submitted for exhibition will be retained in the Art Department's archives. Cross-Media Studio Art majors only. Instructor approval required.

ART 4998 Undergraduate Research .....0-6 hrs.  
Undergraduate research is an experiential learning activity that provides an opportunity for a student to engage in the scholarly activities of their major discipline under the guidance of a faculty mentor who will work in close partnership with each student in his or her formulation of a project, the development of a research strategy, and the assessment of a student's progress. The primary goal is for each student scholar to conduct an inquiry or investigation that makes an original, intellectual or creative

contribution to their discipline and which is shared in an appropriate venue. Sophomore-Senior Level, Repeatable. Art and Studio Art Majors only. Instructor approval required.

## AVIATION ADMINISTRATION

AVMA 1100 Aircraft Flight Theory ..... 3 hrs.

A study of the subject areas and information needed to operate as a private pilot in the aviation environment. Must have a "C" grade or better to pass.

AVMA 1101 Private Pilot Technology ..... 3 hrs.

The course is designed to provide successful Private Pilot candidates with the basic skills and knowledge necessary for certification as a Private Pilot under Part 141, Appendix B, of the Federal Air Regulations. The course will consist of approximately 45 contact hours of classroom based ground school instruction. Students are expected to immediately take the Private Pilot Knowledge Test upon completion of their Private Pilot Ground School component. This course requires the purchase of an online laboratory experience to accompany and supplement the face-to-face class meetings. The Aviation Fees schedule is published elsewhere in this catalog.

AVMA 1102 Introduction to Air Traffic Control ..... 3 hrs.

This course provides a description of basic air traffic control procedures and phraseology used by personnel providing air traffic control services. Topics include the history of air traffic control, definitions, basic phraseology, airspace utilization, and air navigation and Federal Aviation Administration rules governing air traffic control. Must have a "C" grade or better to pass.

AVMA 1103 Private Pilot Technology Flight Lab ..... 3 hrs.

After successfully completing the lab requirements under Part 141, Appendix B, of the Federal Aviation Regulations, students will be endorsed to take the Private Pilot Practical Flight Exam. Five hours of the Private Pilot flight training may be conducted in the Flight Training Device (FTD). Upon completion of all flight requirements, in accordance with Practical Test Standards, students will be issued a Private Pilot Certificate. This course requires additional fees to be paid for flight instruction and simulator time. The Aviation Fees schedule is published elsewhere in this catalog.

AVMA 1109 Air Rescue Fire Fighting ..... 3 hrs.

This course is designed to provide the beginning student with a basic understanding of the principles and methodology of Air Rescue and Fire Fighting in aircraft incidents both on and off the airfield. It reviews the physics of fire and the different types of fires that are extinguished during the first responders handling of different aircraft emergencies. The student will be able to identify the different types of firefighting retardants and the correct

application of each. The student will be trained in the correct procedures for approaching aircraft in emergency situations, gaining access to crashed aircraft, the safe extraction of survivors, and basic triage procedures. The students will also be able to explain how to secure a crash site and the damaged aircraft. They will also have an understanding of the handling of hazardous materials at the scene of an incident. PR: Major in Homeland Security. Must have a "C" grade or better to pass. Aviation or Homeland Security majors only.

AVMA 1189 Guided Experience I..... VAR 1-4 hrs.

This course will be a guided experience for community college students to explore topics of interest in their field through research, field experience, presentation, computer applications, lab experience, or other project agreed upon between the student and the supervising faculty and is submitted to the director in a written contract. Credits earned may be applied as free electives in degree or certificate programs. May be repeated for up to 4 hours. Instructor approval required.

AVMA 1199 Special Topics..... 1-12 hrs.

A study of special topics of educational, technical or industrial concern. Must have a "C" grade or better to pass.

AVMA 2201 Instrument Pilot Technology..... 3 hrs.

The course is designed to provide successful Instrument Pilot candidates with the basic skills and knowledge necessary for certification as Instrument rated Private Pilot in accordance with the minimum requirements as set forth in Part 141, Appendix C, of the Federal Air Regulations. The course will consist of approximately 45 contact hours of classroom based instrument ground school instruction. Students will be expected to immediately take the FAA approved Instrument Pilot Airman Knowledge Test upon completion of their Instrument Ground School component. This course requires the purchase of an online laboratory experience to accompany and supplement the face-to-face class meetings. The Aviation Fees schedule is published elsewhere in this catalog. PR: Private Pilot certification or Instructor Permission.

AVMA 2204 Instrument Pilot Technology Flight Lab..... 3 hrs.

The lab portion of this course is designed to provide successful Instrument Pilot candidates with the basic skills and knowledge necessary for certification as Instrument rated Private Pilot in accordance with the minimum requirements as set forth in Part 141, Appendix C, of the Federal Aviation Regulations. Students are required to have a minimum of 35 hours of logged instrument flight training (total flight hours may vary depending on individual student ability). Fourteen hours of the instrument flight training may be conducted in a Flight Training Device (FTD). Students will be signed-off to take the Instrument Pilot Practical Flight Exam required for FAA certification upon successful completion of all

flight requirements. This course requires additional fees to be paid for flight instruction and simulator time. The Aviation Fees schedule is published elsewhere in this catalog. PR: Private Pilot certification. Must have a "C" grade or better to pass.

AVMA 2206 Aviation Security..... 3 hrs.

This course is designed to provide the beginning student with a basic understanding of the history of aircraft security in the aviation industry. The changing nature of aviation security over the years and how it has impacted society will be discussed. It will discuss and analyze the different methodologies of aviation security both in domestic and foreign methodologies. The course will also examine the industries responses to the changes in aircraft security in both general, corporate, and transport aviation. It will also address the needs of aviation personnel for security both in the air and on the ground. PR: Major in Homeland Security or Pre-Homeland Security. Must have a "C" grade or better to pass. Aviation or Homeland Security majors only.

AVMA 2210 Aviation Meteorology..... 3 hrs.

A survey of the basic concepts and processes of atmospheric phenomena and their relation to aeronautical conditions. Must have a "C" grade or better to pass.

AVMA 2211 Airport Management ..... 3 hrs.

This course presents a study of airfield operations, and management with a focus on the role of the airport manager, the role of the airport in the community, budgeting, marketing and tenant relationships. Must have a "C" grade or better to pass.

AVMA 2213 Airport Planning and Development ..... 3 hrs.

The principles of airport system planning and airport master planning will be studied. Airport design standards, historical evolution of airports, key airport legislation and environmental impact planning for airports are key course topics. Must have a "C" grade or better to pass.

AVMA 2214 Advanced Air Traffic Control Procedures..... 3 hrs.

This course is designed to prepare the student to successfully complete the FAA Air Traffic Controller screening exams. Topics covered include: Tower procedures, aircraft separation, departures/arrivals, and special procedures. Must have a "C" grade or better to pass.

AVMA 2225 Airline Transport Security ..... 3 hrs.

This course is designed to provide the beginning student with a basic understanding of the airline transport security system currently in use at major airports around the world. The student will be trained in security considerations at both the airport terminal and in the air. The student will be familiar security requirements as set by the Transportation Security Administration.

The student will demonstrate knowledge of security responsibilities of screeners and other security personnel, submission to screening and inspection, procedures security and handling of interference with screening personnel, carriage of weapons, explosives, and incendiaries by individuals. The student will demonstrate knowledge of security of a secured area, security of the air operations area, security of the security identification display area, access control systems, and Law enforcement support. The student will be trained in procedures currently in place to provide in-flight safety of the crew and airline passengers. Must have a "C" grade or better to pass. Aviation or Homeland Security majors only.

AVMA 2230 Certified Flight Instructor..... 3 hrs.

This course provides the Pilot Technology students the basic knowledge required to pass the FAA Fundamentals of Instruction and Flight/Ground Instructor knowledge Exam. Furthermore this course will increase your knowledge of flight operations and allow you to master new skills. The student will gain understanding of the fundamentals of instruction, the Federal Aviation Regulations as well as the principles of teaching, private, commercial, and instrument students.

AVMA 2231 Certified Flight Instructor Flight Lab ..... 3 hrs.

This course lab provides the Pilot Technology students with the basic knowledge required to pass the FAA Fundamentals of Instruction and the Flight/Ground Instructor knowledge exam. Furthermore this course will increase your knowledge of flight operations and enable the student to master new skills required by the Federal Aviation Administration (FAA). The student will gain an understanding of the fundamentals of instruction, the Federal Aviation Regulations as well as the principles of teaching, private, commercial, and instrument students. This course may be taken after completion of CFI Certification by FAA. This course requires additional fees to be paid for flight instruction and simulator time. This course will be completed under FAA Regulations, Part 61. For flight hours and cost, please consult with the Flight Manager or Chief.

AVMA 2289 Guided Experience II..... VAR 1-4 hrs.

This course will be an advanced guided experience for students to explore topics of interest in their field through research, field experience, presentation, computer applications, lab experience, or other project agreed upon between the student and the supervising faculty and is submitted to the director in a written contract. Credits earned may be applied as free electives in degree or certificate programs. May be repeated for up to 4 hours. Instructor approval required.

AVMA 2299 Special Topics..... 1-12 hrs.

A study of special topics of educational, technical or industrial concern. Must have a "C" grade or better to pass.

AVMA 3300 Commercial Pilot Technology ..... 3 hrs.

The course is designed to provide successful Commercial Pilot candidates with the advance skills and knowledge necessary for certification as Commercial Pilot in accordance with the minimum requirements set forth in Part 141, Appendix D, of the Federal Aviation Regulations. The course will consist of approximately 45 contact hours of classroom based Commercial Pilot Ground School instruction. Students will be expected to immediately take the FAA approved Commercial Pilot Airman Knowledge Test upon completion of their Commercial Pilot Ground School component. This course requires the purchase of an online laboratory experience to accompany and supplement the face-to-face class meetings. The Aviation Fees schedule is published elsewhere in this catalog. PR: Private Pilot and Instrument Pilot certifications or Instructor approval required.

AVMA 3301 Aviation History ..... 3 hrs.

This course traces man's effort to achieve and sustain flight, from early mythology to the present. Special emphasis is given to the evolution of the airplane from balloons to space exploration vehicles. PR: ENGL 1102.

AVMA 3302 Aviation Law ..... 3 hrs.

A study of the legal issues and case law/decisions affecting the aviation industry. Topics covered include contracts, liabilities, rights of operators, criminal statutes and the U.S. legal system, as applied to aviation. PR: ENGL 1102.

Course also listed as AVMA 2202 for Homeland Security Aviation Track Majors.

AVMA 3303 Airline Operations ..... 3 hrs.

A study of the administrative aspects of airline operation and management, including a detailed study of airline organization, structure and operational issues. Topics to be covered include airline history, economics, pricing, marketing, fleet planning and labor relations. A case study approach will be used to study individual airlines and/or airline-related issues. Course also listed as AVMA 2203 for Homeland Security Aviation Track Majors. PR: ENGL 1102.

AVMA 3304 Aviation Maintenance Management ..... 3 hrs.

This course provides instruction concerning the functions and responsibilities of the aviation maintenance manager. Maintenance management in general aviation, regional airlines and major and national airlines will be studied. PR: ENGL 1102.

AVMA 3305 General Aviation Operations ..... 3 hrs.

*Writing Intensive*

A study of the general aviation industry, including general aviation aircraft manufacturing, fixed-base operations and corporate flight departments. A basic definition of general aviation, its role and major components will be covered. The course also has a business development assignment during which the students develop and present a business plan for a proposed aviation company. The course is also listed as AVMA 2205 for Homeland Security Aviation Track Majors. PR: ENGL 1102.

AVMA 3306 Commercial Pilot Technology Flight Lab.....3 hrs.

The lab portion of this course is designed to provide successful Commercial Pilot candidates with the basic flight skills and knowledge necessary for certification as Commercial Pilot in accordance with the minimum requirements set forth in Part 141, Appendix D, of the Federal Aviation Regulations. Students are required to have minimum of 120 hours of logged Commercial Pilot Flight Training (total flight hours may vary depending on individual student ability). Twenty-Five hours of the Commercial Pilot flight training may be conducted in a Flight Training Device (FTD). Students will be signed off to take the Commercial Pilot Practical Flight Exam for final FAA certification upon successful completion of all flight requirements. This course requires additional fees to be paid for flight instruction and simulator time. The Aviation Fees schedule is published elsewhere in this catalog. PR: Private Pilot and Instrument Pilot certifications or Instructor approval required.

AVMA 3307 Aviation Safety .....3 hrs.

This course introduces the student to various aspects of aviation safety, including flight safety, ground safety and management and planning for safety in aviation. Case studies of individual aviation incidents, safety studies and accidents will be presented. Baccalaureate majors only. PR: ENGL 1102.

AVMA 3399 Special Topics..... 1-12 hrs.

A study of special topics of educational, technical or industrial concern. PR: Instructor approval required.

AVMA 4401 Aviation Industry Research and Analysis .....3 hrs.

This course presents an analysis of selected contemporary issues, problems and trends facing various segments of the aviation industry (manufacturers, airlines, general aviation and government). Students will apply previously learned principles to practical problems in the aviation industry. PR: Instructor approval required.

AVMA 4402 Fiscal Aspects of Aviation Management.....3 hrs.

This course will provide an introduction to financial management problems encountered in aviation management. Topics include basic accounting, financial management principles, cash

flow analysis, budgeting, and financial statement analysis.

PR: ENGL 1102.

AVMA 4403 Aviation Project ..... 1-4 hrs.

Independent study, primarily for seniors who wish to pursue further studies in special areas. Subject must be arranged with the instructor before enrolling in the course.

AVMA 4404 Advanced Composite Structures..... 3 hrs.

An in-depth study of the inspection and repair of aircraft composite structures. Baccalaureate majors only.

AVMA 4405 Advanced Non-Destructive Testing ..... 3 hrs.

A detailed study of non-destructive testing methods used on aircraft. This course prepares the student for ASNT Level I certification. Baccalaureate majors only.

AVMA 4411 Aviation Industry Internship..... 3 hrs.

An aviation industry internship is a real-world learning activity that provides an opportunity for the student to engage in aviation industry activities in an area of concentration that may assist them in their future career development activities. These activities in their major discipline under the guidance of a senior aviation faculty member will develop a program of study that will acquaint them with industry trends and processes that will be beneficial in their new career plans. The primary goals for this class are to experience the aviation industry on a first hand basis and then shared those experiences in an appropriate venue with their assigned faculty mentor. This class should only be scheduled by juniors or seniors close to graduation after completion of a majority of their core classes. Instructor approval is required and the internship must be scheduled before the start of the semester the student plans to complete the course requirements. Junior or Senior Level attainment. Instructor approval required.

AVMA 4499 Special Topics ..... 1-12 hrs.

A study of special topics of educational, technical or industrial concern. Instructor approval required.

AVMA 4998 Undergraduate Research ..... 0-6 hrs.

Undergraduate research is an experiential learning activity that provides an opportunity for a student to engage in the scholarly activities of their major discipline under the guidance of a faculty mentor who will work in close partnership with each student in his or her formulation of a project, the development of a research strategy, and the assessment of a student's progress. The primary goal is for each student scholar to conduct an inquiry or investigation that makes an original, intellectual or creative contribution to their discipline and which is shared in an appropriate venue. Sophomore-Senior Level, Repeatable. Instructor approval required.

## BIOLOGY

BIOL 1104 Biosphere .....4 hrs.

This course, designed for teacher education candidates, focuses on Earth's living systems. The major topics to be explored include biodiversity and populations (including evolution and systematics), ecosystems (nutrient cycles, trophic levels, biomes) and organisms (including life cycles, genetics, cells, and adaptations). The course includes integration of basic chemistry and atmospheric science. 4 hours of lecture/ discussion/activities per week. PR: Elementary Education majors only.

~ BIOL 1105 Biological Principles I .....4 hrs.

This introductory course in population biology explores the organization and function of populations, including reproduction and transmission genetics, patterns and mechanisms of evolutionary change and the fundamental concepts of ecology. 3 hours of lecture and one 3-hour laboratory per week. Fall semester only.

~ BIOL 1106 Biological Principles II .....4 hrs.

This introductory course in cellular biology emphasizes the organization and functions common to all living cells. The major topics to be explored include cell organelle structure and function, the molecular basis of cell energetics, the cell cycle and basic molecular biology of the cell. 3 hours of lecture and one 3-hour laboratory per week. Spring semester only.

BIOL 1180 Human Anatomy and Physiology (lecture) .....3 hrs.

Human Anatomy and Physiology is single semester examination of the architecture and function of cells, tissues, organs, and organ systems of the human being. This examination will include an intensive and detailed study of the integumentary, skeletal, muscular, cardiovascular, lymphatic, digestive, respiratory, urinary, nervous, reproductive, and endocrine systems as well as their interactions with each other. Three hours of lecture per week.

BIOL 1181 Human Anatomy and Physiology (lab) ..... 1 hr.

Complementary to BIOL 1180, the laboratory focuses on the anatomical study of the human form, including microscopic examination of cells and tissues, and gross examination of organs and organ systems (skeleton, muscles, blood vessels, nerves, and internal organs). Physiological exercises to supplement the material covered in BIOL 1181.

BIOL 1199 Special Topics in Biology.....1-4 hrs.

Studies in special selected topics, to be determined by the instructor and approved by the department chair. Credits earned will be applicable as free electives in degree and certificate programs.

BIOL 2202 General Botany .....4 hrs.

The first part of this course will consist of a survey of the plant kingdom, including the fungi kingdom and selected groups of plant-like protists and bacteria. In the second part, the structure, development, and physiology of angiosperms will be examined. 3 hours of lecture and one 3-hour laboratory per week. PR: BIOL 1105 and 1106 with a C or better. Spring semester only.

BIOL 2203 General Zoology ..... 4 hrs.

A survey of the animal kingdom, this course emphasizes selected invertebrates and vertebrates. The focus will be on diversity and the significance of evolutionary changes. Students will investigate the basic concepts of morphology, anatomy, physiology and behavior as they affect the ecology of the animal. 3 hours of lecture and one 3-hour laboratory per week. PR: BIOL 1105 and 1106 with a C or better. Fall semester only.

BIOL 2205 Technical Microbiology (Lecture)..... 3 hrs.

This course emphasizes the history of microbiology, microbial morphology and structure; microbial growth and physiology; environmental effects on bacteria; inhibition and killing of bacteria; virulence, pathogenicity, and invasiveness of microbes; modes of disease transmission and resistance. 3 hours of lecture per week.

BIOL 2206 Technical Microbiology (lab)..... 1 hr.

This course teaches techniques of isolation; handling, culturing, identifying bacteria and the inhibition of bacterial growth. Safety, cleanliness, and responsibility are taught in the laboratory. One two-hour lab per week.

BIOL 2224 Microbiology ..... 4 hrs.

In this course, microorganisms (primarily bacteria) will be viewed from several perspectives; as pathogens, as components of ecosystems, and as components of industrial processes. Techniques for culturing and identifying bacteria will be presented. The course includes opportunities for students to design and conduct laboratory exercises. 3 hours of lecture and one 3-hour laboratory session per week. PR: BIOL 1105 and 1106 with a "C" or better, and CHEM 1105. Offered on rotation. See Biology program website for rotation schedule.

BIOL 3301 Advanced Human Anatomy and Physiology I..... 4 hrs.

This is the first of a two-semester course focusing on the function and structure of the human body and how it maintains homeostasis. Students will begin with an introduction into the study of human anatomy and physiology, histology, and a focus on systems-based approach in learning the human body. BIOL 3301 will cover the following systems: integumentary, skeletal, muscular, nervous, and endocrine. 3 hours of lecture and one 3-hour laboratory per week.

PR: BIOL 1106 and either BIOL 2203, FORS 3200, or permission of the instructor. Offered on rotation in the Fall semester only. See Biology program website for rotation schedule.

BIOL 3302 Advanced Human Anatomy and Physiology II..... 4 hrs.

This is the second of a two-semester course focusing on the function and structure of the human body and how it maintains homeostasis. Students will begin with a brief review of the introductory material and histology and then focus on a systems-based approach in learning the human body. BIOL 3302 will cover the following systems: cardiovascular, respiratory, lymphatic, digestive, urinary, and reproductive. 3 hours of lecture and one 3-hour laboratory per week.

PR: BIOL 3301 with a C or better or permission of the instructor. Offered on rotation in the Spring semester only. See Biology program website for rotation schedule.

BIOL 3306 Fundamentals of Ecology..... 4 hrs.

This course explores the fundamental principles of modern ecology: the patterns and processes operating in populations, communities and ecosystems. Population growth and regulation, energy flow, population interactions and nutrient cycling will be emphasized. Students will learn quantitative methods, use field techniques, and practice the scientific method. 3 hours of lecture and one 3-hour laboratory per week. PR: BIOL 2202 and 2203, with a C or better, and CHEM 2200. Fall semester only.

BIOL 3312 Advanced Botany I ..... 4 hrs.

This course provides an in-depth study of the plant kingdom. Primary emphasis is placed on the flora of WV, with an understanding of the structural characteristics, evolutionary relationships and ecological distribution of plants. 3 hours of lecture and one 3-hour laboratory per week. Lab activities include several off-campus field trips and each student will be required to complete a plant collection project for the FWWA Herbarium. PR: BIOL 2202 with a C or better. Offered on rotation. See Biology program website for rotation schedule.

BIOL 3315 Invertebrate Zoology..... 4 hrs.

This course surveys the invertebrate phyla as they have evolved from single cell protists to multicellular organisms focusing on the Hexapods. Also considered are the attributes of these organisms that have allowed them to radiate from aquatic to terrestrial environments. As part of the course students are required to collect insects during the summer preceding the course. The course has 3 hours of lecture and 1 three hour lab per week. PR: BIOL 2202 and 2203 with a C or better, and CHEM 2200. Offered on rotation. See Biology program website for rotation schedule.

BIOL 3316 Vertebrate Zoology ..... 4 hrs.

An in-depth investigation of vertebrates, this course focuses on the evolutionary relationships among the major vertebrate groups, with an emphasis on physiological, morphological and behavioral adaptations, especially as they influence the ecology of the animal. 3 hours of lecture and one 3-hour laboratory per week. PR: BIOL 2203 with a C or better. Offered on rotation. See Biology program website for rotation schedule.

BIOL 3330 Aquatic Ecology ..... 4 hrs.  
 This course focuses on physical and biological aspects of freshwater lakes and streams, emphasizing the application of ecological theory. Lectures will cover lentic (lake) and lotic (stream), wetlands and groundwater ecology. The laboratories are field-oriented and allow students the opportunity to use state-of-the-art instrumentation while applying lessons learned in the classroom. 3 hours of lecture and one 3-hour laboratory per week. PR: BIOL 3306 with a C or better. Offered on rotation. See Biology program website for rotation schedule.

BIOL 3331 Terrestrial Ecology ..... 4 hrs.  
 This course will start with the foundation from Fundamentals of Ecology and examine more closely the relationships between organisms and their terrestrial environment. A number of different ecological sampling and research methods will be studied and utilized. 3 hours of lecture and one 3-hour laboratory per week. PR: BIOL 3306 with a C or better. Offered on rotation. See Biology program website for rotation schedule.

BIOL 3360 Biochemistry ..... 4 hrs.  
 A study of general principles of biochemistry. Topics include structure and function of proteins, DNA, and RNA, enzyme kinetics, regulation, carbohydrates, lipids, membranes and metabolism. 3 hours lecture and one 3-hour laboratory per week. PR: MATH 2501. Spring semester only.

BIOL 3368 Animal Physiology ..... 4 hrs.  
 This course explores the fundamental functional processes of animals. Major topics may include energetics, digestion, neurology, endocrinology, immunology, muscle physiology, circulatory physiology, respiratory physiology, osmoregulation and thermoregulation. The emphasis will be on the investigation of physiological processes as evolutionary adaptations. Students will cooperatively design and complete research projects. 3 hours of lecture and one 3-hour lab per week. PR: BIOL 2203 with a C or better, CHEM 2200. Offered on rotation. See Biology program website for rotation schedule.

BIOL 3370 Plant Physiology ..... 4 hrs.  
 Plant physiology is the study of how plants function. Major topics will include transpiration, plant nutrition, photosynthesis, hormone regulation of plant development, plant movement and responses

to environmental stresses. Students will be expected to design and complete physiology research projects. 3 hours of lecture and one 3-hour laboratory per week. PR: BIOL 2202 with a C or better, and CHEM 2200. Offered on rotation. See Biology program website for rotation schedule.

BIOL 3380 Genetics ..... 4 hrs.  
 This course builds upon genetic principles introduced in Biology 105 and 106. Topics covered include extensions of Mendelian genetics, gene mapping, chromosomal structure and mutation, DNA replication, mutation and repair and gene expression and its regulation. 3 hours of lecture and one 3-hour laboratory session per week. PR: CHEM 2200, BIOL 1105 and 1106. Fall semester only.

BIOL 3390 Molecular Biotechnology ..... 4 hrs.  
*Writing Intensive*  
 This course is a study of the theoretical basis of techniques used in biotechnology, and the application of these techniques to biological research in academic and industrial settings. 3 hours of lecture and one 3-hour laboratory per week. PR: ENGL 1102, BIOL 3380, CHEM 2201, and MATH 2501. Spring semester only.

BIOL 3395 Cell Biology ..... 4 hrs.  
 Cell Biology is an upper level biology course designed for students in pre-professional and graduate school tracks. This course focuses on the biology of eukaryotic cells: structure, function, bioenergetics, enzymes, cell membranes and organelles; transport across membranes, chemotrophic energy metabolism, receptors, and the endomembrane system. It consists of three one-hour lectures and one 1-hour activity per week. PR: BIOL 1106 and CHEM 2200. Offered on rotation in the spring semester only. See Biology program website for rotation schedule.

BIOL 4420 Developmental Biology ..... 4 hrs.  
 This course contains a detailed study of gametogenesis, fertilization and embryonic development patterns of organisms. The role of gene expression in these events will be emphasized. 3 hours of lecture and one 3-hour laboratory per week. PR: BIOL 2202 and 2203 with a C or better. Offered on rotation. See Biology program website for rotation schedule.

BIOL 4485 Senior Seminar ..... 2 hrs.  
 This culminating experience requires students to utilize their knowledge of biology, as well as their analytical and critical thinking skills, to explore important topics in the biological sciences in a cooperative learning environment. Students will be expected to read, interpret, moderate discussions and formally present information from current research and review papers to an audience of their peers and biology faculty. Two hours of class meeting per week. PR: Senior standing. Spring semester only.

BIOL 4495 Problems in Biological Sciences ..... 2 hrs.

This course is designed for students who have interest in a specific problem in biology. It should not be used as a means of meeting requirements but rather as a research course that goes beyond the usual courses in developing the student's body of knowledge. PR: 20 hours of biological courses and Instructor approval required.

BIOL 4998 Undergraduate Research ..... 0-6 hrs.

Undergraduate research is an experiential learning activity that provides an opportunity for a student to engage in the scholarly activities of their major discipline under the guidance of a faculty mentor who will work in close partnership with each student in his or her formulation of a project, the development of a research strategy, and the assessment of a student's progress. The primary goal is for each student scholar to conduct an inquiry or investigation that makes an original, intellectual or creative contribution to their discipline and which is shared in an appropriate venue. Sophomore-Senior Level, Repeatable. Instructor approval required.

## (BUSINESS) INFORMATION SYSTEMS MANAGEMENT

BISM 1200 Introduction to Computing ..... 3 hrs.

This course provides an overview of the current state of computing and its social implications. This is intended to be used as a breadth-first introductory course for majors and non-majors. Topics include organization of a computer system, examination of computing disciplines, social implications of computing, problem solving using productivity software applications, and investigations of emerging areas in information systems.

BISM 2200 Business Information Tools ..... 3 hrs.

This course focuses on fluency in computerized information systems technology along with how information is collected, stored, organized, and managed to facilitate effective decision-making. Students will create and use databases and spreadsheets to assist in the setup and resolution of business problems. The functionality within Microsoft Excel will be used to carry out "what-if" business scenarios, sensitivity analysis, statistical analysis, and graphic displays. Microsoft Access will be utilized to design, create, implement, and query databases. PR: BISM 1200, and Math ACT score of 19 or MATH 1100 or higher, or instructor permission

BISM 2400 Operating Systems Concepts Across the Enterprise ..... 3 hrs.

This course explores hardware and software configurations as integrated systems and provides a basic understanding of what an operating system is and how it works in a PC/server and Mainframe environment. Fundamental concepts such as computer architecture are presented along with the execution concepts related to

multiple operating systems. Operating systems, such as MS-DOS and Windows, Linux, UNIX, Linux on System z, z/VM, z/TPF, and the z/Enterprise System will be examined. PR: BISM 1200

BISM 2600 Introduction to Networking Administration ..... 3 hrs.

This course examines detail issues and techniques in computer networking. Emphasis is placed on local area networks, internetworking via TCP/IP and the Internet. The OSI reference model and the TCP/IP protocols form the framework. Topics include the key aspects of networking, interoperability, LAN strategies, WLAN strategies and standards such as shared and switched Ethernet, Token Ring and FDDI; internetworking using bridges and routers; routing strategies and congestion in networks along with how data passes through layers. PR: BISM 1200

BISM 2800 Corporate Communications and Technology ..... 3 hrs.

### *Writing Intensive*

This course will focus on applying technology to support technical writing, oral presentations and online communications. This includes conducting research using the online library resources, developing reports using advanced word processing report features, integrating spreadsheet and database applications within the word processing document to automate data updates, using online document sharing applications for concurrent reviews and configuration management, and preparing and giving formal presentations, and formal reports. In addition, the course will introduce teamwork concepts and online networking through the development of business communications. PR: BISM 1200 and ENGL 1102

BISM 3000 Business Programming Logic ..... 3 hrs.

This course introduces problem-solving and programming logic for business applications. Students will learn fundamental problem-solving techniques that are necessary to develop computer applications to solve business problems. Students will also be introduced to the Visual Basic programming language. PR: BISM 2200

BISM 3200 Management Information Systems ..... 3 hrs.

This course focuses on the fundamentals associated with the management of information systems and technology in a dynamic business environment. Special emphasis is placed on managerial issues that are relevant to selection, application, and usage of computerized information systems in a business enterprise. Topics covered include the MIS framework, ethics, technology, information systems collaboration, decision-making, competitive advantage, telecommunications, databases, data communication, E-commerce, Supply Chain, and information systems management. PR: BISM 2200

BISM 3400 Database Design and Development ..... 3 hrs.

This course covers information systems design and implementation within a database system environment. Students will be introduced to relational database technology through the use and application of terminology, technical concepts, data modeling, structured query language (SQL), and database implementation. The course includes hands-on experience with data modeling and SQL. PR: BISM 2200

BISM 3600 E-commerce and Web Development Strategy ... 3 hrs.

This course covers emerging online technologies and trends and their influence on the electronic commerce marketplace. Students will learn building blocks of web technology and various revenue. This course will also explore current issues surrounding electronic commerce and electronic business including security, privacy, and search engine optimization. Finally, students will learn how to plan for electronic commerce. PR: BISM 3000, BISM 3200, BISM 3400

BISM 3800 Object-oriented Business Applications..... 3 hrs.

This course introduces multitier programming in Visual Basic. Students will apply object-oriented programming techniques for developing the presentation, business, and data tiers for database application projects. The emphasis of projects is on business applications. PR: BISM 3000

BISM 4000 Global, Economic, Ethical, and Social Information Systems ..... 3 hrs.

*Writing Intensive*

This course explores the tools students will need when confronted with ethical decisions in their role as global technology professionals. Students will address a variety of economic, ethical, and social frameworks in a global context. Case studies are used to foster discussions on subjects specifically related to computers and information systems. The course explores information technology in its social, economic, ethical, and global contexts. The student will be required to participate in class discussions, cases studies, and present a research paper on the issues surrounding computing and a national and international society. PR: BISM 2800, BISM 3200

BISM 4200 Systems Analysis and Design ..... 3 hrs.

Students are introduced to the theory and application of systems analysis and design techniques for computerized information systems. Topics covered include requirements collection and analysis, logical and physical information flow modeling, a variety of system development methodologies, data modeling, object-oriented analysis and modeling, prototyping, project control, sampling techniques, project feasibility, cost/benefit analysis, time value of money, and the hands-on application of systems design techniques through a course project. PR: BISM 2600, BISM 3600, BISM 3800

BISM 4300 Business Intelligence ..... 3 hrs.

This course is an overview of the business intelligence process including information collection, intelligence analysis, and intelligence process assessment. According to the Gartner Group, "In a data-rich world, businesses are inundated with information. Yet used strategically, it can guide decision making and boost performance. That's why Business Intelligence is on every CIO's must-have list." This course is not based merely on learning concepts, but also applying those concepts to facilitate business processes in a team effort. PR: Instructor Approval

BISM 4400 Current Topics in Information Systems .....3 hrs.

This course investigates current topics in information systems. Current topics of interest in information systems will be selected by the instructor and approved by the department. Examples of topics include telecommunications, grid computing, health informatics, data visualization, etc. PR: BISM 3200

BISM 4800 Information Systems Project Management .....3 hrs.

This course explores best practices in formal project management concepts and techniques. Students will learn the Project Management process areas and Knowledge Management areas as defined by the Project Management Body of Knowledge (PMBOK). The project outputs and required documentation for each process area are emphasized. The project management concepts and techniques presented in the course will be applied to group projects. Students will apply project management software to manage an information systems-related project. PR: MGMT 3500, BISM 4200

BISM 4900 Internship in Information Systems .....3 hrs.

This internship course is designed as a learning experience which requires the integration of information systems theory with actual job experience. The student must be enrolled in the Information Systems Management program. The employer will be responsible for evaluating and reporting the performance of the student. PR: Instructor Approval

BISM 4998 Undergraduate Research .....0-6 hrs.

Undergraduate research is an experiential learning activity that provides an opportunity for a student to engage in the scholarly activities of their major discipline under the guidance of a faculty mentor who will work in close partnership with each student in his or her formulation of a project, the development of a research strategy, and the assessment of a student's progress. The primary goal is for each student scholar to conduct an inquiry or investigation that makes an original, intellectual or creative contribution to their discipline and which is shared in an appropriate venue. Sophomore-Senior Level, Repeatable. Instructor approval required.

## BUSINESS ADMINISTRATION

~ BSBA 2200 Economics ..... 3 hrs.

Economics is a General Studies course for non-business majors, which provides the student with a broad background in the field. The student will be exposed to micro- and macroeconomic theory and international economics, and should develop adequate knowledge to understand the role of economic systems and the application of economic principles in modern society.

BSBA 2201 Principles of Accounting I ..... 3 hrs.

This course covers fundamental accounting theory and procedures: organization of accounts, the accounting cycle, working papers and the preparation of financial and operating statements for proprietorships.

BSBA 2202 Principles of Accounting II ..... 3 hrs.

The second semester of this course is a further study of the accounting process as applied to various business organizations. The two semesters of this course are designed to give students an adequate understanding of the recording, classifying and summarizing of business transactions in order to proceed with the interpretation and analysis of accounting data. This is a basic course for accounting majors, majors in other areas of business administration, and those whose major interest is in economics, political science, law or other professional areas. PR: BSBA 2201.

BSBA 2204 Principles of Marketing ..... 3 hrs.

A study of those business activities that direct the flow of goods and services from producers to consumers.

BSBA 2209 Principles of Management ..... 3 hrs.

The emphasis in this course is on the modern approach to the field of management. Theoretical and practical approaches are presented, along with analytical techniques that are applicable in the various management and production areas.

~ BSBA 2211 Principles of Macroeconomics ..... 3 hrs.

This course approaches the subject from the point of view of macroeconomics, studying the nature and method of economics and describing how the capitalist system functions. Further study is made of the business cycles, fiscal policy, monetary policy, gross national product, and similar concepts. Some time is devoted to the study of competing economic systems.

BSBA 2212 Principles of Microeconomics ..... 3 hrs.

This course is devoted to microeconomics. It follows the analysis of the firm and the decisions made by the managers of the firm, and includes the analysis of demand and supply and price and output determination. It is also concerned with the important problems in the field of economics: monopoly, agriculture,

international trade, labor, economic development and similar issues. PR: BSBA 2211

BSBA 2221 Introduction to Financial Management ..... 3 hrs.

This course is intended to give the student a background in the field of financial management, with emphasis on cost of capital, cost of external capital, cost of retained earnings, and similar concepts. It will also cover material investment decisions and financial decisions. PR: BSBA 2211.

BSBA 3306 Business Law I ..... 3 hrs.

A study of the nature and function of our legal system, courts, and procedures as they relate to business, including the law of contracts and sales.

BSBA 3307 Business Law II ..... 3 hrs.

Continuation of BUSN 3306. Substantive investigation of the law regarding corporations, commercial paper, agency, partnership and the legal basis of property as applied to business situations. Business 3307 will not satisfy the 3-hour requirement in the teaching fields in Business Education. PR: BSBA 3306.

BSBA 3310 Business and Economic Statistics ..... 3 hrs.

The course provides students with an introductory survey of business statistics. It covers three main units: descriptive statistics and data analysis, foundations of inference and inferential statistics. PR: MATH 1100 or higher.

BSBA 3320 International Business ..... 3 hrs.

This is an introductory course, designed to expose students to the nature of international business and the cultural, social, political, economic and technological forces that make up its environment. Students will study the importance of international trade and organizations, as well as the international monetary system and its impact on businesses, current international business developments, projected long-term global trends, unique opportunities, problems, ethical issues, characteristics and demands facing entrepreneurs and business personnel engaged in international business. PR: BSBA 2209, BSBA 2204, BSBA 2211.

BSBA 3322 Managing Business in Europe ..... 3 hrs.

This course is designed to focus on European markets. It will discuss issues that American firms have to deal with while doing business in Europe. With the European Union slated for expansion, enlarging an already large unified market, the European markets offer tremendous opportunities and challenges for businesses. The course will discuss the salient differences between the European and domestic management practices. To study the nature of the European markets first hand, students will go on a trip to Europe during the semester. PR: With Instructor Approval

BSBA 3325 Women and Work ..... 3 hrs.

This course will analyze the social organization of women's work in the United States today and in the past. Students will examine the relationship between women's socialization, sense of self, family roles and the social, economic, and political forces which shape women's work. Topics will include affirmative action and comparable work, unionization, sexual harassment and traditional and nontraditional roles. PR: ENGL 1102, COMM 2201, COMM 2202 or COMM 2200.

BSBA 3330 Leadership ..... 3 hrs.

The purpose of this course is to help prepare students to assume increasingly responsible leadership roles of empowerment in their personal, professional and academic lives. This interdisciplinary, student-centered course focuses not only on significant theories of empowering leadership and their applicability to leaders of the past and present, but also includes substantial hands-on, experiential learning opportunities in which students practice empowering leadership. PR: ENGL 1102(with a grade of a "C" or better) and BSBA 2209 .

BSBA 3399 Special Topics in Business ..... 1-6 hrs.

Advanced studies in special selected topics, to be determined by the instructor and approved by the School Dean. Credits earned will be applicable as free electives in degree programs. PR: Instructor approval required.

BSBA 4408 Business and Economics Field Studies ..... 3 hrs.

This field experience, designed for business majors, actively engages students in a monitored work experience related to their major. Students may work independently or in teams, with guidance from a supervising faculty member on a specific project that benefits both the student(s) and the participating business. PR: Instructor approval required, with approval of the School Dean.

BSBA 4415 Strategic Management and Policy ..... 3 hrs.

This course allows the student to integrate the concepts and principles offered in the various disciplines of study within the School of Business. Through the process of case analysis, students will enhance their analytic and problem-solving skills by formulating the policies and strategies that are used in modern business organizations. PR: BSBA 3310 and BSBA 3320, BISM 3200 and senior standing.

BSBA 4420 Business Ethics and Corporate Accountability ... 3 hrs.

The course will explore business ethics emphasizing a responsible decision-making approach in personal and professional contexts to best prepare students for ethical challenges and issues of contemporary corporate accountability. Topics to be addressed

include: personal integrity; philosophical ethics; corporate culture and social responsibility; governance and conflicts of interest; workplace, marketing and employment ethics; sustainability and environmental responsibilities. PR: BSBA 3320 and/or BISM 3200 and senior standing.

BSBA 4440 Hospitality Management Internship ..... 3 hrs.

This internship course is designed as a learning experience which integrates food service and business theory with actual job experience in a hospitality management-related work environment. The student must be enrolled in the four-year Hospitality Management program. The employer is responsible for evaluating and reporting the development of the student. PR: Instructor approval required, with approval of School Dean. Graded Credit/No Credit.

BSBA 4450 Business Internship ..... 3-6 hrs.

This business internship is designed to provide the business major with supervised work experience in a sponsoring organization. The student is expected to complete a minimum of 200 hours in a meaningful and challenging position. PR: Instructor approval required, with approval of School Dean. Graded Credit/No Credit.

BSBA 4998 Undergraduate Research ..... 0-6 hrs.

Undergraduate research is an experiential learning activity that provides an opportunity for a student to engage in the scholarly activities of their major discipline under the guidance of a faculty mentor who will work in close partnership with each student in his or her formulation of a project, the development of a research strategy, and the assessment of a student's progress. The primary goal is for each student scholar to conduct an inquiry or investigation that makes an original, intellectual or creative contribution to their discipline and which is shared in an appropriate venue. Sophomore-Senior Level, Repeatable. Instructor approval required.

## CHEMISTRY

~ CHEM 1101

General Chemistry ..... 4 hrs.

A study of the theoretical concepts needed to understand typical chemical phenomena. The course addresses the nature of science, matter and measurements, the stoichiometry of chemical reactions, solutions and the calculation of concentration, energy relationships in chemistry, modern atomic theory, chemical bonding and molecular structure and the classification of reactions. 3 lectures and one 3-hour laboratory per week. PR: ACT math score of 19; or old SAT Math score of 460; or new SAT Math score of 510; or ACCUPLACER Elementary Algebra score of 76 or new ACCUPLACER

OAS score of 250 or College Level Math score of 40; or MATH 1507, MATH 1530.

~ CHEM 1102

General Chemistry II ..... 4 hrs.

This course is an extension of CHEM 1101. It covers acid-base theory, chemical equilibrium, oxidation-reduction and an introduction to organic chemistry which includes the various classes of organic compounds, their nomenclature, structure, properties and reactions. The synthesis of polymers and their uses are included. The course consists of 3 hours of lecture and one 3-hour laboratory per week. PR: CHEM 1101. Spring semester only.

CHEM 1105

Chemical Principles ..... 5 hrs.

This course constitutes an introduction to modern chemistry and its applications to society, including structure, nomenclature, properties and simple reactivity of inorganic chemicals, spectroscopy, stoichiometry involving solids, gases and solutions, chemical equilibrium, introductory kinetics and thermodynamics, electrochemistry and nuclear chemistry. CHEM 1105 and CHEM 2200 satisfy the first-year chemistry requirements for science majors and students pursuing pre-professional studies (e.g., pre-medical, pre-dental, pre-pharmacy, etc.). 4 hours of lecture and one 3-hour laboratory per week. PR: ACT math score of 20; old SAT Math 480, new SAT Math 520; ACCUPLACER Elementary Algebra score of 78 or College Level Math score of 45 or new ACCUPLACER QAS score of 255 or CHEM 1101 with a grade of C or better. Fall semester only.

CHEM 1199 Special Topics in Chemistry ..... 1-12 hrs.

Studies in special selected topics, to be determined by the instructor and approved by the department chair. Credits earned will be applicable as free electives in degree and certificate programs.

CHEM 2200 Foundational Biochemistry ..... 4 hrs.

An introduction to biochemistry with emphasis on the role of basic general chemistry principles, including molecular structure and intermolecular forces, periodic properties, acid-base chemistry, diffusion and osmosis, kinetics and energetics, structural models and visualization. Introduces biochemical reaction mechanisms, cell components and their functions, and a chemical view of proteins, lipids, and cell membranes. CHEM 1105 and CHEM 2200 satisfy the first-year chemistry requirements for science majors and students pursuing pre-professional studies (e.g., pre-medical, pre-dental, pre-pharmacy, etc.). 3 hours of lecture and one 3-hour laboratory per week. PR: CHEM 1105. Spring only.

CHEM 2201 Organic Chemistry I ..... 4 hrs.

This course presents an overview of the properties and reactivity of all major classes of organic compounds and functional groups.

Selected reactions and mechanisms, particularly those with a biochemical connection, are also discussed. 3 hours of lecture and one 3-hour laboratory per week. PR: CHEM 2200. Fall semester only.

CHEM 2202 Organic Chemistry II ..... 4 hrs.

This course builds on the foundation from CHEM 2201 to provide a systematic study of the structure and reactivity of all major classes of organic compounds and functional groups with an emphasis on synthesis, mechanisms and structural relationships. 3 hours of lecture and one 3-hour laboratory per week. PR: CHEM 2201. Spring Semester only.

CHEM 2205 Analytical Chemistry ..... 4 hrs.

Classical methods of chemical analysis, with an emphasis on quantitative techniques and statistical analysis. Topics include error propagation, median, mean and standard deviation, t-test, q-test, hypothesis testing, linear regression analysis, creation of appropriate graphs and use of calibration curves, equilibrium, precipitation, acid-base theory, acid-base and redox titrations, activities, electrochemistry and potentiometry. 3 hours of lecture and one 3-hour laboratory per week. PR: CHEM 1105. Spring semester only.

CHEM 3301 Physical Chemistry I ..... 4 hrs.

*Writing Intensive*

A systematic treatment of chemical kinetics and thermodynamics, based on calculus and physics. The application of partial differentiation and mathematical software to chemical problems is specifically addressed. This course serves as an introduction to writing in the discipline, particularly in the laboratory component. 3 hours of lecture and one 3-hour laboratory per week. PR: CHEM 2200, ENGL 1102, MATH 2501, PHYS 1101 or 1105. Fall semester only.

CHEM 3304 Inorganic Chemistry ..... 4 hrs.

This course covers the synthesis, reactions, and properties of elements and inorganic compounds. Topics include atomic and molecular structure; ionic bonding, crystals, and intermolecular forces; redox chemistry; acids, bases, and nonaqueous solvents; the main group elements; the transition metals; structure, bonding, synthesis and reactions of coordination compounds. 3 hours of lecture and one 3-hour laboratory per week. PR: CHEM 2200. Fall semester only.

CHEM 3315 Instrumental Analysis ..... 4 hrs.

Basic concepts of instrument design and construction, operation of chemical instrumentation, use of standard procedures of analysis (including forensic and environmental methods), and method development for specific analyses. Spectroscopic and chromatographic methods of analysis are emphasized. The course

consists of two hours of lecture and one four-hour laboratory per week. PR: CHEM 2200, 2205, PHYS 1102 or 1106. Fall semester only.

CHEM 4401 Independent Study ..... 1-3 hrs.  
Students elect to learn about a topic in greater depth than usual, or one not covered in the regular curriculum, under the supervision of a faculty member. PR: Instructor approval required.

CHEM 4402 Internship..... 1-3 hrs.  
Students undertake a practical work experience with oversight from the chemistry department. At least two hours' work experience is expected for every credit. A paper describing the experience is required. PR: Instructor approval required.

CHEM 4403 Independent Research ..... 1-3 hrs.  
Independent research under the direction of a faculty member. Course is repeatable up to three times. At least two hours in the laboratory are expected for every credit. A paper describing the research is required. PR: Instructor approval required.

CHEM 4404 Synthetic Methods and Materials..... 4 hrs.  
This laboratory-intensive course is a study of synthetic methods and materials used in organic and inorganic chemistry, including green approaches to synthesis. Topics include organometallic compounds, metal catalysis, inert gas techniques, characterization techniques including electrochemistry, and the synthetic chemical literature. 2 hours of lecture and one 4-hour laboratory per week. PR: CHEM 2202, CHEM 3304. Fall semester only, even years.

CHEM 4412 Physical Chemistry II ..... 4 hrs.  
This heavily web-supported course deals with the development of quantum chemistry and its applications to spectroscopy. Elements of linear algebra, differential equations and mathematical software will be applied to chemical problems. 3 hours of lecture and one 3-hour laboratory per week. PR: CHEM 3301, MATH 2502, PHYS 1102 or 1106. Spring semester, even years only.

CHEM 4998 Undergraduate Research ..... 0-6 hrs.  
Undergraduate research is an experiential learning activity that provides an opportunity for a student to engage in the scholarly activities of their major discipline under the guidance of a faculty mentor who will work in close partnership with each student in his or her formulation of a project, the development of a research strategy, and the assessment of a student's progress. The primary goal is for each student scholar to conduct an inquiry or investigation that makes an original, intellectual or creative contribution to their discipline and which is shared in an appropriate venue. Sophomore-Senior Level, Repeatable. Instructor approval required.

## CIVIL ENGINEERING TECHNOLOGY

CIVL 1100 - Introduction to Civil Engineering Technology ..... 1 hr.  
This course is designed to expose the students to the broad field of Civil Engineering Technology and the various options at their disposal during their academic tenure, and after graduation. It will explore the many design tools required, and writing techniques necessary to foster academic success, and provides an introduction to professional societies, internships, and their role as professionals in the work force. It is highly recommended students take this course freshman year. PR: None. CR: CIVL 2210.

CIVL 1199 Special Topics in Civil Engineering Technology ..... 1-12 hrs.  
Studies in special selected topics, to be determined by the instructor and approved by the department chairperson. Credits earned will be applicable as free electives in degree and certificate programs.

CIVL 2200 Introduction to Surveying ..... 3 hrs.  
Topics in this course include theory of linear distance measurement, proper note keeping, transit/tape surveying techniques, leveling procedures, measurement of horizontal and vertical angles, stadia, bearings and azimuths, rectangular coordinates, topography and mapping techniques. Students will learn to use all types of surveying equipment, including levels, transits, theodolites, total stations, and Electronic Distance Measurements (EDM) devices. CR: MATH 1510 or math equivalent.

CIVL 2210 Light Construction ..... 4 hrs.  
Students will be instructed in practices utilized in the erection of residential and industrial buildings, with technical information involving problems from ground to roof.

CIVL 2220 Construction Materials and Methods..... 4 hrs.  
Identification, properties and standard test methods for steel, concrete, timber, masonry products, bituminous products, soils and aggregate. Heavy construction methods are also discussed. PR: CIVL 2210, MATH 1510 or math equivalent.

CIVL 2230 Construction Estimating ..... 3 hrs.  
This course covers construction cost-estimating techniques for various types of construction projects. Included are certain related topics such as production, bidding and specifications as they affect the contractor during the cost estimation process. PR: CIVL 2220.

CIVL 2240 Construction, Land and Route Surveying..... 3 hrs.  
This course will cover horizontal and vertical control, building location and layout, pipeline layout, construction staking procedures, earth quantity measurements, triangulation, horizontal and vertical curves, plan and profile, area and cross sections, volume calculations, mass diagrams, boundary control and deed descriptions. PR: CIVL 2200, COMM 2202, ENGL 1103.

CIVL 2275 Civil Engineering Graphics ..... 3 hrs.

This course will provide students with an introduction to computer-assisted civil engineering drafting and design. Includes coverage of graphics techniques, drawing organization, dimensioning, orthographic projection, and specific applications of civil engineering drafting and design. Typical applications include coordinate geometry, contours, topics in highway design, concrete, steel and structural wood drafting. PR: TECH 1108.

CIVL 2280 Environmental Engineering Technology I ..... 3 hrs.

This introductory course will provide an overview of the environmental field, including laws and regulations, water quality, hydraulic and hydrologic fundamentals, water and wastewater treatment, groundwater contamination, and solid waste management. PR: CHEM 1101.

CIVL 2290 Introduction to Structures..... 3 hrs.

This is an introductory course focusing on the analysis and design of structures. It will provide an elementary overview of the analysis, design, and detailing of both steel and wood structures, with primary emphasis on steel. Course coverage will include design of beams, columns and connections. PR: MECH 2200.

CIVL 3305 Hydraulics and Hydrology ..... 3 hrs.

Topics in hydraulics will include closed conduit flow, networks, reservoirs, hydraulic machinery, pumps in series and parallel and hydraulic structures. Topics in hydrology will include statistics and probability, hydrologic cycle and data, open channel flow, flood control and discharge, and culvert and detention pond design. PR: TECH 2290 or MATH Equivalent, and CIVL 2280.

CIVL 3340 Introduction to Soil Mechanics ..... 4 hrs.

This course covers soil origin and composition, index properties and classification, permeability, capillary, seepage, drainage, frost heave, combined stresses, total and effective stresses, compressibility and consolidation. PR: MECH 2200, MECH 2220, TECH 2290 or math equivalent.

CIVL 4400 Highway Design and Transportation ..... 4 hrs.

*Writing Intensive*

This course addresses basic transportation theory and design, traffic flow, capacity analysis, level of service, flexible and rigid pavement design, and geometric design. A Writing Intensive capstone experience is included in this course, aligned with the general transportation planning model, which includes industry collaboration. PR: CIVL 3340, ENGL 1103, TECH 3300 or MATH Equivalent. Baccalaureate majors only.

CIVL 4410 Advanced Structural Analysis..... 3 hrs.

This course provides an analysis of structures including cables, beams, columns, trusses and frames. Also included are buckling, shear, moment and deflection in statically determinate structures. PR: CIVL 2290, TECH 3300 or math equivalent. Baccalaureate majors only.

CIVL 4420 Construction Planning and Administration .....3 hrs.

Introduction to construction management. Topics include construction planning and scheduling, economics, contracts, administration, health and safety, productivity and performance. PR: CIVL 2230.

CIVL 4440 Structural Design .....3 hrs.

A continuation of CIVL 2290, with more in-depth design of reinforced concrete and steel structures. PR: CIVL 2290.

CIVL 4450 Structures.....3 hrs.

Introduction to the structural design of typical building components using steel, timber and concrete. The course will include design of laterally supported and unsupported beams, one and two-way slabs, columns, beam-columns, tension members, connections and wall and column footings. PR: CIVL 2220, MECH 2200.

CIVL 4460 Environmental Engineering Technology II .....3 hrs.

This course will cover theories and practices in water and wastewater treatment systems, including physical, chemical and biological treatment processes. Other topics include surface water quality characteristics, modeling and permitting. PR: CIVL 2280 and TECH 3300 or math equivalent. Baccalaureate majors only.

CIVL 4470 Advanced Soil Mechanics and Foundation Design.....3 hrs.

This course is a continuation of CIVL 3340 and includes shear strength, laboratory and field test methods and their use in design. It also provides an introduction to shallow and deep foundations, including bearing capacity and settlement analysis, the study of earth pressure for use in design of retaining walls, sheet piles, and excavating bracing, and an introduction to earth structure design and slope stability analysis. PR: CIVL 3340. Baccalaureate majors only.

CIVL 4998 Undergraduate Research .....0-6 hrs.

Undergraduate research is an experiential learning activity that provides an opportunity for a student to engage in the scholarly activities of their major discipline under the guidance of a faculty mentor who will work in close partnership with each student in his or her formulation of a project, the development of a research strategy, and the assessment of a student's progress. The primary goal is for each student scholar to conduct an inquiry or

investigation that makes an original, intellectual or creative contribution to their discipline and which is shared in an appropriate venue. Sophomore-Senior Level, Repeatable. Instructor approval required.

## COMMUNICATION

COMM 1105 Voice & Diction ..... 3 hrs.  
This course covers the theory and practice of speech science, provides the basic information necessary for further speech and drama study and helps students improve their speaking skills. Open to communication and theatre arts and music students only. Fall semester only.

COMM 1199 Special Topics in Communication ..... 1-12 hrs.  
Studies in special selected topics, to be determined by the instructor and approved by the School's Dean. Credits earned will be applicable as free electives in degree and certificate programs. Maximum credit allowed is 3 hours per semester, up to 12 hours total.

~ COMM 2200 Introduction to Human Communication ..... 3 hrs.  
Examines the theoretical foundations of human communication through definitional analysis and examination of communication models, code elements and ethical considerations pertinent to communication in our society. This course provides the opportunity for each student to participate in interpersonal and public speaking presentations to develop his/her skills in interacting with others in both the personal and professional arenas. PR: Completion of ENGL 1101 with a "C" or better or a Verbal ACT score of 21 or higher. Satisfies General Studies category ID, IG, and IV requirement.

COMM 2201 Introduction to Group Discussion ..... 3 hrs.  
This course focuses on the theories, concepts and skills necessary to function effectively in a variety of group settings. Students will use research, organization, critical thinking and presentational skills when participating in groups to investigate social problems and create potential solutions for those problems. Topics include group norms, rules, roles, conflict management, leadership, problem solving, decision-making and team building. PR: Completion of ENGL 1101 with a "C" or better grade or a Verbal ACT score of 21 or higher. Satisfies General Studies category ID, IG, and IV requirement.

COMM 2202 Introduction to Communication  
in the World of Work ..... 3 hrs.  
This course focuses on personal and professional communication. It examines the nature of communication in the world of work. Students will exam and practice individual, group and presentational communication skills necessary to work effectively with peers, supervisors, supervisees and constituents. Topics

addressed will include interpersonal communication, socialization, organizational culture, group dynamics, leadership, power and status, meeting facilitation, problem solving, presentation research, organization and delivery. PR: Completion of ENGL 1101 with a "C" or better or a Verbal ACT score of 21 or higher. Satisfies General Studies category IG and IV requirement.

COMM 2213 Introduction to Communication Theory and Research Practices 3 hrs.  
Writing Intensive

This course provides an overview of the concepts and methods used to design, conduct, interpret and evaluate communication research. The aim of the course is for students to become informed consumers of research as well as producers of it on a basic level. The course will develop the skills necessary to design, organize, conduct, report and present research competently and ethically. In order to satisfy the Writing Intensive requirement, students will be required to complete a comprehensive written literature review analyzing the work of other researchers on a chosen topic related to communication theory. PR: ENGL 1102.

COMM 2219 Language in Communication ..... 3 hrs.  
A study of verbal coding for communication, this course focuses on the function of language in oral communication, theories of oral language acquisition and behavior and the special problems involved in oral language coding for audiences. PR: COMM 2200, 2201, or 2202. Spring semester only.

COMM 2241 Argumentation & Debate ..... 3 hrs.  
A study of the principles of argumentation, logic and reasoning, evidence and decision-making. A practical application of these principles is emphasized through the study of current controversies and oral class debates. PR: COMM 2200, 2201, or 2202. Fall semester only.

COMM 2249 Intercollegiate Debate I-IV ..... 1-4 hrs.  
This course provides training for and participation in intercollegiate debate tournaments at colleges and universities throughout the eastern United States. Credit is also given for researching the intercollegiate debate proposition for the current academic year. Maximum credit allowed is 1 hour per semester, up to 4 hours total. Open to freshmen and sophomores. (Juniors and seniors, see COMM 4449.).

COMM 2250 SOPHOMORE SEMINAR ..... 1 hr.  
In this course, students will explore the role of the communication professional in a variety of fields such as media, non-profit, government, business, and health. Students will participate in a mid-program review with communication faculty and the class will culminate in a paper/presentation on a communication profession

or field of study. Open to communication arts majors and minors only.

COMM 3300 Intercultural Communication ..... 3 hrs.

This course examines the meaning, significance and impact of intercultural communication as it applies individually, nationally and globally as well as in groups and organizations. The course will explore the meaning of "culture" and its effects on perception and understanding. Both macro and micro cultural differences will be examined and the danger of cultural misunderstanding will be explored. The course will also examine the ever growing need for intercultural communication competence and introduce ways to increase that competence. PR: COMM 2200, 2201, or 2202.

COMM 3320 The Art of Storytelling in Theory and Practice ..... 3 hrs.

The emphasis of the course will be on both the theory and research related to storytelling and the art of storytelling as performance. In this performance-based course, students will select, craft, rehearse and perform stories suitable to a variety of audiences. Students enrolled in this course are required to attend the National Storytelling Festival in Jonesborough, Tennessee. Also listed as FOLK 3320 and THEA 3320. Fall semester, odd-numbered years.

COMM 3330 Organizational Communication ..... 3 hrs.

This course is the study of the role communication plays in organizations. Major theories of organizational communication will be examined via the identification, definition, and application of primary concepts such as corporate culture, ethics, teamwork, and the role of technology, leadership, and diversity. Organizational communication systems will also be examined. PR: COMM 2200, 2201, or 2202.

COMM 3337 Persuasive Communication ..... 3 hrs.

This course is an in-depth study of the speaker, audience and environmental factors influencing the persuasive process. It is designed to give advanced communication students training in the preparation, presentation and critical analysis of persuasive speeches. Various delivery styles, including impromptu and extemporaneous, will be used. PR: COMM 2241. Fall semester only.

COMM 3345 Oratory ..... 3 hrs.

Students will study the role of rhetoric/public discourse as an agent of change in a free society, and prepare a persuasive manuscript to be delivered to a public audience. This class prepares students for participation in the M. M. Neely Persuasive Speaking Contest. PR: COMM 3337. Spring semester only.

COMM 4420 Contemporary Storytelling ..... 3 hrs.

This course is an introduction to the study of images as a communicative phenomenon and ethnographic storytelling. Students will explore the use of digital images to communicate specific information in a variety of contexts such as public relations, journalism, or web-based publication and the use of ethnographic research as a tool for audio documentary. PR: COMM 2241 and BISM 2800.

COMM 4439 Public Speaking Practicum I-VIII ..... 1-8 hrs.

Preparation for and participation in public performances and intercollegiate competitions and festivals in public speaking, i.e., after-dinner, extemporaneous, oratory, etc. Maximum credit allowed is 1 hour per semester, up to 8 hours total.

COMM 4449 Intercollegiate Debate I-IV ..... 1-4 hrs.

This course provides training for and participation in intercollegiate debate tournaments at colleges and universities throughout the eastern United States. Credit is also given for researching the intercollegiate debate proposition for the current academic year. Maximum credit allowed is 1 hour per semester, up to 4 hours total. Open to juniors and seniors. (Freshmen and sophomores, see COMM 2249.)

COMM 4491 Directed Study in Communication ..... 1-3 hrs.

The student may elect directed study in any area of communication which is not treated in the communication course offerings. Coursework is designed by the student and selected faculty, with approval of the School's Dean. Maximum credit allowed is 3 hours per semester, up to 12 hours total. PR: Instructor approval.

COMM 4496 Communication in Practice : Internship ..... 3 hrs.

The communication internship is designed to provide students with a supervised opportunity to apply their communication skills in a business or organization. Students are expected to complete a minimum of 100 hours in a meaningful and challenging placement. This placement should be made in cooperation with a member of the communication arts faculty or a faculty member teaching in a communication arts track. Students will attend course orientation sessions at the beginning of the semester and course reflection and evaluation sessions at the end of the semester. The final reflection will include a portfolio presentation that demonstrates students' understanding of communication in theory and practice as well as their own strengths and weaknesses as a communicator. This placement, the reflection, and the portfolio presentation make up the capstone experience for students majoring in communication arts. PR: Open to communication arts majors only.

COMM 4998 Undergraduate Research ..... 0-6 hrs.

Undergraduate research is an experiential learning activity that provides an opportunity for a student to engage in the scholarly

activities of their major discipline under the guidance of a faculty mentor who will work in close partnership with each student in his or her formulation of a project, the development of a research strategy, and the assessment of the student's progress. The primary goal is for each student scholar to conduct an inquiry or investigation that makes an original, intellectual or creative contribution to their discipline and which is shared in an appropriate venue. Maximum credit allowed is 3 hours per semester, up to 9 hours total. PR: Sophomore standing and above, instructor approval.

## COMPUTER SCIENCE

COMP 1100 Introduction to Computing..... 3 hrs.

This course provides an overview of the current state of computing and its social implications. This is intended to be used as a breadth-first introductory course for majors and non-majors. Topics include organization of a computer system, discussion of a broad range of software systems, problem solving, database systems, networking, computer security, ethical issues, and emerging areas in computer science.

COMP 1110 Introduction to Programming ..... 3 hrs.

This course provides an introduction to problem solving using a suitable high-level programming language (e.g., Python), with applications in engineering technology and science. Topics include basic hardware and software concepts, data types, input/output, control structures, and modularization. Several programming projects are assigned to provide the students with experience in program development. This course will not count towards the requirements for a Computer Science/Cybersecurity degree and may not be substituted for COMP 1120. Computer Science/Cybersecurity majors may take this course as a free elective if they do not meet the prerequisite for COMP 1120. PR: MATH ACT score of 19 or MATH SAT score of 500.

COMP 1120

Principles of Programming I ..... 3 hrs.

A study of the foundations of computer programming. Students are introduced to computer organization, data representation, the software development cycle, and programming concepts including data types, input/output, control structures, functions, and text file processing. Programming projects in C++ are assigned to provide students with experience in program development. PR: MATH ACT score of 21 or MATH SAT score of 530 or MATH 1430 or a grade of C or better in COMP 1110.

COMP 1130

Principles of Programming II ..... 4 hrs.

This course is a continuation of COMP 1120 and covers arrays, searching/sorting, pointers, classes, recursion, and advanced file

I/O. The concept of object oriented programming is introduced. Projects in C++ are assigned to provide students with experience implementing multi-part applications using these concepts. The course consists of three hours of lecture and three hours of lab per week. PR: A grade of C or better in COMP 1120.

COMP 1199 Special Topics in Computer Science..... 1-12 hrs.

Studies in special selected topics, to be determined by the instructor and approved by the department chair. Credits earned will be applicable as free electives in degree and certificate programs.

COMP 2200 Object-Oriented Programming .....3 hrs.

This course covers concepts of object-oriented programming using the Java programming language. Topics include objects and classes, encapsulation, inheritance, polymorphism, generic programming, exception handling, graphical user interface, and event-handling. PR: A grade of C or better in COMP 1130.

COMP 2201 Machine Organization .....3 hrs.

This course provides an overview of computer organization. Topics include assembly language, data representation, subroutine calling conventions, the OS kernel, interrupt handling, and an introduction to digital logic. Programming projects are assigned to exemplify the topics covered in class. PR: A grade of C or better in COMP 1130.

COMP 2203 Introduction to Game Principles .....3 hrs.

This course is an introduction to basic principles of interactivity and game design. Asset creation, event handling, scores, displays, and sequencing are covered. Cross-listed as GRFX 2203. PR: GRFX 1113

COMP 2220 Fundamentals of Computer Security .....3 hrs.

Topics to be covered in this course include access control, hacking, malicious code, intrusion detection, countermeasures, firewalls, network security, cryptography, forensics, ethical issues and other current issues. The course consists of three hours of lecture per week. PR: COMP 1100 or COMP 1120 or BISM 1200

COMP 2230 Network Programming .....3 hrs.

This course covers the design and implementation of software applications in a networked environment. Topics include a broad overview of network technology, the OSI model, socket programming, multithreading, and web programming. PR: COMP 2200.

COMP 2270 Data Structures .....3 hrs.

This course covers linear and non-linear data structures and their associated algorithms. Topics include analysis of algorithms using Big-O notation, linear data structures (linked lists, stacks, and

queues), non-linear data structures (trees and graphs), and hash tables. PR: A grade of C or better in COMP 1130.

COMP 3300 Computer Graphics..... 3 hrs.

This course provides an introduction to interactive graphics programming. Topics include algorithms for generating graphics output primitives, two- and three-dimensional geometric transformations, drawing windframe and solid objects in a three-dimensional scene, line and polygon clipping, and basic animation techniques. PR: COMP 2270 and MATH 2562.

COMP 3310 Artificial Intelligence ..... 3 hrs.

This course provides an introduction to the fundamental topics in artificial intelligence as well as application of artificial intelligence in real-world problems. Topics include intelligent agents, problem solving using searching, game playing, knowledge representation and reasoning, uncertainty and probabilistic reasoning, and learning. PR: COMP 2270 and MATH 2562.

COMP 3330 Analysis of Algorithms..... 3 hrs.

This course covers complexity of algorithms and algorithm design techniques. Topics include analysis of algorithm correctness, analysis of algorithm efficiency using asymptotic notations, algorithm design techniques including brute-force, divide-and-conquer, greedy, and dynamic programming approaches. PR: COMP 2270 and MATH 2562.

COMP 3340 Operating Systems ..... 3 hrs.

This is an introduction to historical and current operating system principles and operation. Topics include the function and operation of the major areas of the operating system such as user interfaces, process control, concurrent processes and synchronization, primary and secondary memory management, file systems, I/O, and security issues. PR: COMP 2201 and COMP 2270.

COMP 3380 Introduction to Cryptography ..... 3 hrs.

This course provides an introduction to cryptography. Major topics to be covered include the history of cryptography and single and public key encryption. Students will develop various cryptographic applications implementing or using digital certificates, digital signatures, IPSec, Kerberos, PGP, PKI, Rijndael, secure e-mail, SSL and TLS. PR: COMP 2270 and MATH 2562.

COMP 3390 Network Security ..... 4 hrs.

This course combines classroom and laboratory work to explore network security attacks and solutions. Commercial-Off-The-Shelf (COTS) network devices such as servers, routers, bridges, switches, hubs, firewalls, scanners and intrusion detection systems will be configured to demonstrate network security solutions for selected real-world scenarios. PR: COMP 2220, COMP 2270, and BISM 2600.

COMP 3395 Ethical Issues in Computing ..... 3 hrs.

*Writing Intensive*

This course provides an introduction to various legal and ethical issues in computing. Topics to be covered include privacy rights, intellectual property rights, electronic transactions and liabilities, hacking, computer crime, encryption policies, offensive speech, anonymity, employee monitoring and e-mail policies, censorship, AI/expert systems, codes of ethics (ACM, IEEE, ISC(2) and NSPE) and political freedom. PR: COMP 1100 and ENGL 1102.

COMP 4400 Automata Theory..... 3 hrs.

This course covers the theoretical foundations of computer science and the abstractions of computational processes. Topics include finite automata, regular languages and grammars, context-free languages and grammars, pushdown automata, and Turing machines. PR: COMP 2270 and MATH 2562.

COMP 4410 Database Management..... 3 hrs.

Students will develop familiarity with database terminology and will study database design and implementation. The primary focus will be on the relational model, relational algebra and SQL, and application development. Issues of functional dependencies, normal forms, indexing, and query optimization will also be discussed. PR: COMP 2270 and MATH 2562.

COMP 4415 Vulnerability Assessment ..... 4 hrs.

This course provides theoretical and practical instruction for assessing computer vulnerabilities and countermeasures. Topics to be covered include firewalls, hacking, intrusion detection, incident response, penetration testing and security policies. The laboratory portion of the course will provide hands-on experiments connected with various vulnerability assessment and countermeasures topics. The course consists of three hours of lecture and two hours of lab per week. PR: COMP 3390.

COMP 4420 Selected Advanced Topics ..... 3 hrs.

This course will address current topics of interest in computer science, to be determined by the instructor and approved by the department chair. PR: Instructor approval required.

COMP 4421 Computer Science Special Project..... 3 hrs.

Each student enrolled in this course will develop an independent project under supervision of the instructor. The project will be a practical application of computer science. The student and instructor will agree on the nature of the project necessary to satisfy the course requirement. PR: Instructor approval required.

COMP 4440 Software Engineering ..... 4 hrs.

This course covers the key aspects of software engineering principles and practice. Topics include software life cycle/process

models, software requirements, software design, software testing, team management, and project management. This course also provides a capstone experience, integrating the knowledge students have acquired in previous courses, as they work on a team-based software development project. PR: COMP 2200 and COMP 2270.

COMP 4450 Introduction to Data Mining.....3 hrs.  
 This course introduces the fundamental topics in data mining, as well as application of data mining in real-world problems. Topics include data preprocessing, classification, clustering, association mining, web mining, etc. PR: COMP 2270 and MATH 2562.

COMP 4460 Game Design and Implementation.....4 hrs.  
 This comprehensive course in game design and implementation covers an analysis of the game engine technology and the implementation of artwork and custom computational structure within a game engine framework. Cross-listed with GRFX 4460. PR: COMP 1130, COMP/GRFX 2203.

COMP 4495 Cybersecurity Senior Project.....3 hrs.  
 This course allows students to obtain real-world cybersecurity work experience through an internal project or through an internship with government or private organization. PR: Instructor approval required.

COMP 4998 Undergraduate Research.....0-6 hrs.  
 Undergraduate research is an experiential learning activity that provides an opportunity for a student to engage in the scholarly activities of their major discipline under the guidance of a faculty mentor who will work in close partnership with each student in his or her formulation of a project, the development of a research strategy, and the assessment of a student's progress. The primary goal is for each student scholar to conduct an inquiry or investigation that makes an original, intellectual or creative contribution to their discipline and which is shared in an appropriate venue. Sophomore-Senior Level, Repeatable. PR: Instructor approval required.

## CRIMINAL JUSTICE

CRIM 1100 Introduction to Criminal Justice.....3 hrs.  
 This course introduces the student to the three principal components of the criminal justice system: law enforcement, the judiciary and corrections. It will examine the history, structure, functions and issues of each component, and introduce the student to the measurement of crime, criminological theories, criminal law, justice perspectives and the juvenile justice system.

CRIM 1101 Police Operations .....3 hrs.

The student will be introduced to the day-to-day duties of a police officer. Emphasis will be placed on community and human relations, patrol and traffic functions, order maintenance, report writing, investigations, communications, interviewing, search and seizure and arrest. Police stress and survival skills will also be discussed.

CRIM 2202 Principles of Criminal Law .....3 hrs.  
 Structure, definitions and interpretations of criminal statutes of particular interest. The course will cover the scope, purpose and definition of criminal law in general, including the study of crimes against individuals and property and other offenses.

CRIM 2206 Introduction to Corrections .....3 hrs.  
 A survey of the current correctional process in America, including the origin and legal procedures of the present system and its effects on the individuals as well as on our society. Special emphasis is given to current theories of rehabilitation in the institution and in probation and parole. Students will also be introduced to the administration of the adult and juvenile institutions and the alternatives to and future of the present system.

CRIM 2209 Firearms.....3 hrs.  
 This course addresses safety precautions, legal provisions, moral aspects, principles of decision shooting and restrictions in the use of firearms. Nomenclature and the firing process of the sidearm and shotgun will be demonstrated. PR: CRIM 1100.

CRIM 2212 Deviant Behavior .....3 hrs.  
 A study of the recognition and handling of abnormal persons with emphasis on those mental conditions most often encountered by the criminal justice practitioner. Methods of crisis intervention, basic conflict management and referral and diversion will also be discussed.

CRIM 2226 Crime Scene Investigation .....3 hrs.  
 This course will examine all aspects of performing a thorough and methodical crime scene investigation. This course will address a variety of crime scene ranging from crimes of violence to property crime scenes. Various types of physical evidence such as latent prints, trace evidence, biological fluids will be examined. The methods and procedures utilized for the collection of evidence will be demonstrated and examined. PR: CRIM 1100.

CRIM 2236 Criminal Investigation .....3 hrs.  
 This course will survey the fundamental techniques of criminal investigation. Students will be exposed to the history of criminal investigation and criminalistics, interviewing and interrogation, physical evidence, crime scene procedures, crime analysis,

investigation techniques, report writing, case preparation and courtroom testimony. PR: CRIM 1100.

CRIM 2240 Adjudication Process ..... 3 hrs.  
Topics include the role and structure of prosecution, public defense, and the courts; basic elements of the substantive criminal law and procedural law and its relation to constitutional guarantees. PR: CRIM 1100.

CRIM 2246 Criminal Evidence ..... 3 hrs.  
This course covers constitutional and procedural considerations affecting arrest, search and seizure, post-conviction treatment; the origin, development, philosophy and constitutional basis of evidence; kinds and degrees of evidence and rules governing admissibility; and judicial decisions interpreting individual rights and case studies. The primary focus is on the case study approach. PR: CRIM 1100.

CRIM 2250 Cybercrime ..... 3 hrs.  
This course is an introductory course in cyber crime and criminal justice. This course will focus on cyber crime perpetrated via computers and/or other electronic means. This course also addresses the legal issues involved in cyber crime investigations.

CRIM 2295 Ethics in Criminal Justice..... 3 hrs.  
This course introduces the student to ethical decision making. The student will analyze the major ethical perspectives and then incorporate them into the social and criminal justice context as it relates to law, police, courts, and corrections. The course also addresses the future development of ethics in everyday life.

CRIM 3302 Criminal Justice Spanish ..... 3 hrs.  
The need for law enforcement personnel who can communicate in Spanish is ever increasing. The purpose of this course is to introduce and refine skills in Spanish to facilitate communication between criminal justice personnel and Spanish-speaking clients. In this course students learn and practice survival-level words, phrases, questions and commands necessary to effectively communicate with Spanish speakers in law enforcement and corrections settings.

CRIM 3304 The Female Offender ..... 3 hrs.  
Designed to introduce the student to the largest-growing inmate population in the United States. It will introduce the students to the history of women in prison, the profiles of women entering our penal system, and how corrections professionals have responded to the unique needs of women in this male-dominant system. This class also examines the effects on our society of incarcerating females, many of whom are mothers. The course uses a combination of lectures, films, outside readings, and actual visits to facilities housing female inmates. PR: CRIM 2206.

CRIM 3305 Changing Roles of Women in Criminal Justice..3 hrs.  
The course will examine issues concerning women within the contemporary criminal justice system. Students will explore theories and current research of the historical role of women as practitioners, offenders and victims.

CRIM 3306 Scientific Basics of Fingerprints .....3 hrs.  
This course will introduce students to the basic fingerprint pattern types and classification formulas: The Henry System and the NCIC classification. Students will receive comparison training, which consists of determining if a current fingerprint submission is Ident with the master fingerprint card, and provide hands-on training in the proper procedures for recording legible fingerprints.

CRIM 3310 Comparative Criminal Justice.....3 hrs.  
The objective of this course is to provide materials that will allow students to understand and respect the institutions and procedures of other countries, and to familiarize them with international efforts to control and investigate crime. The study of other countries' criminal justice systems will also provide students with a foundation of knowledge that will lead to an understanding of foreign visitors' and immigrants' world view based on their experiences of criminal justice systems and procedures prior to their arrival in the United States.

CRIM 3311 Juvenile Justice .....3 hrs.  
This course addresses definitions of delinquent behavior, contributing social problems, adolescence as a subculture, the philosophy and practice of adjudication process for juveniles and treatment procedures.

CRIM 3320 Criminology .....3 hrs.  
The study of deviant behavior as it relates to the definition of crime. Topics include crime statistics theories of crime causation and crime typologies. PR: CRIM 1100.

CRIM 3325 Analysis of Security Operations.....3 hrs.  
This course is designed to foster an advanced understanding of private and public security. A historical and philosophical perspective will help students better understand risk analysis, physical and procedural controls, intelligence gathering and the principles on which private security is founded,. Other current security issues will be addressed.

CRIM 3335 Analysis of Police Operations.....3 hrs.  
This is a seminar in major police issues. The topics will vary according to the interests of the instructor and students but will focus on current issues in police operations. Topics may include officer selection and promotion processes, academy and field

training, corruption and brutality, minorities and women in police work, crime prevention, community relations and community policing. The emphasis will be on determining practical and effective policies and procedures. PR: CRIM 1101.

CRIM 3340 Criminal Procedure ..... 3 hrs.

This course will deal with constitutional law relating to the police function. Focus will be on the Fourth, Fifth, Sixth and Fourteenth Amendments, which include reasonable suspicion and probable cause, warrant requirements and exceptions, field stops and interviews, interrogations, right to counsel, pretrial identifications, the exclusionary rule and due process. There will be detailed discussion on the reasons for constitutional protections to engender an understanding of and respect for the rights of all people involved in the criminal justice process. PR: CRIM 1100, 1101.

CRIM 3355 Analysis of Correctional Operations..... 3 hrs.

Topics include problems of management in the correctional process; programming, security, information systems, reports, case management and evaluation progress; custody and discipline as they relate to rehabilitative efforts; community adjustment facilities; and problems of probation and parole. PR: CRIM 2206.

CRIM 3360 Community-Based Corrections..... 3 hrs.

This course is designed to instruct the student in the study of diversion, pretrial release programs, probation, restitution, community service programs, temporary release programs, halfway houses and parole. Emphasis will be placed upon the special problems and needs of females, juveniles and drug-and-alcohol-abusing offenders. The preparation of the pre-sentence investigation report will also be covered. PR: CRIM 2206.

CRIM 3365 Licit and Illicit Drugs..... 3 hrs.

This course is designed to instruct the student in the understanding of street drugs and their effects on the individual. The course will also examine specialized techniques in drug investigation and the legislation that applies directly to the defenses. PR: CRIM 1100.

CRIM 3370 Economic Crime..... 3 hrs.

The course content will provide students with an overview of economic/white-collar crime in America. Students will examine definitional problems, difficulties in establishing the scope and extent of economic crime, theories of causation, law enforcement effectiveness, efforts of technology, and a number of related topics.

CRIM 3375 Victimology ..... 3 hrs.

This course will introduce students to the issues and legislation regarding victims of crime. Topics include theories of victimology, victim-witness compensation and future directions in identifying and treating victims.

CRIM 3380 Mock Trial ..... 3 hrs.

This course is designed to teach students of the American trial process through a participatory study of trial practice in the United States. Students will learn legal ethics and courtroom decorum, substantive law, trial procedures and advocacy skills through practice sessions and courtroom simulation. The development of speaking and critical thinking skills will be a focus of the course. The culminating event for the class will be the trial of a hypothetical case in a courtroom.

CRIM 3385 Racial Profiling..... 3hrs.

In this class students will examine race and bias-based profiling. This course will cover various aspects of such prejudices, and how officers can operate effectively without being influenced by local prejudices. This course will examine state and federal laws that prohibit racial profiling. In addition, the negative impact of race and bias-based profiling on the community and the police will be examined.

CRIM 3390 Forensic Psychology ..... 3 hrs.

This upper level elective course will introduce students to the interactions between psychology and the law. The course will include coverage of criminal thinking patterns, current and historical issues in adult and adolescent mental health and the law, and relevant case law and legal standards.

CRIM 3395 Constitutional Law ..... 3 hrs.

This course examines the development, interpretation and application of basic principles of constitutional law in the United States. The course will be concerned with the definition, extents and limitations of governmental powers and rights of Americans. PR: POLI 1100.(Same as POLI 3395)

CRIM 3399 Special Issues in Criminal Justice ..... 3-12 hrs.

Forum for special course offerings, focusing upon special issues in criminal justice, by visiting instructors or regular faculty. (3 credit hours, repeatable up to 12 hours.)

CRIM 4400 Research in the Social Sciences..... 3 hrs.  
Writing Intensive

Students will explore the interaction of theory, research, and practice; the purposes and limits of research; introduction to research design, data collection, analytic techniques, data processing resources and preparation of research reports. PR: ENGL 1102. Junior or Senior status.(Same course as POLI 4400 and NSIS 4400)

CRIM 4401 Independent Study ..... 1-12 hrs.

Students involved in this course will conduct surveys and applied research projects as approved and supervised by a Criminal Justice

faculty member. Junior or Senior status. (1 credit hour, repeatable up to 12 hours.)

CRIM 4404 Civil Liberties in the United States..... 3 hrs.

A study of the nature and substance of civil liberties in the United States. The philosophy underlying the Bill of Rights will be analyzed and students will discuss the development of each of the great freedoms protected therein, such as free speech, free press, and free religion among others. Particular attention will be given to how the Supreme Court has interpreted and applied guarantees contained within the Bill of Rights in specific instances. PR: POLI 1100. (Same course as POLI 4404).

CRIM 4405 Terrorism ..... 3 hrs.

A course designed to promote understanding of the problem of terrorism and political violence. The course will define terrorism; examine its origins, characteristics, nature and trends; analyze in detail various terrorist organizations and address selected problems in the response to terrorism. (Credit in Criminal Justice or Political Science)

CRIM 4411 Internship.....3-12 hrs.

A supervised professional study conducted in the criminal justice field setting. Junior or Senior status and a 2.5 GPA. (3 credit hours, repeatable up to 12 credit hours.)

CRIM 4413 Inside-Out: Prison Exchange Program ..... 3 hrs.

The "Inside-Out" Prison Exchange Program is an opportunity for a small group of students from Fairmont State and a group of residents of the Hazelton United States Correctional Complex (HCC) to exchange ideas and perceptions about the correctional system, families, communities, victimization, and prisoner re-entry. It is a chance for participants to gain a deeper assessment of the correctional system through the combining of theoretical knowledge and practical experience achieved by weekly meetings throughout the semester.

CRIM 4415 Community Policing ..... 3 hrs.

This course provides a detailed analysis of community policing, which is the dominant philosophy for providing police services in the twenty-first century. Topics include the history of community policing, definitions of "community," current strategies for the implementation of this philosophy and the impact community policing will have on crime, disorder and fear. Also included in the course will be a thorough description of the new role of a police officer as a Community Policing Officer and the requirements for success. PR: CRIM 1101. Junior or Senior status.

CRIM 4420 Legal Research..... 3 hrs.

This course is designed to introduce students to the process of legal research, and to aid the student in attaining proficiency in finding, interpreting according to established legal principles, and

applying the law to a given set of facts and circumstances. The goals of the course will be achieved through successful completion of a series of research projects and assessments of fundamental knowledge. Junior or Senior Status.

CRIM 4425 Evaluation of the Criminal Justice System .....3 hrs.

*Writing Intensive*

This is the capstone seminar in criminal justice, with a focus on policy analysis. Students in this course will examine controversial criminal justice issues. Topics of study will vary according to the interests of the instructor and students, but may include capital punishment, gun control, drug policy, crime myths, racism and discrimination in the justice process, white collar crime and corruption. Students will be required to write a major research paper. PR: ENGL 1102, CRIM 1100, 2206. Junior or Senior status.

CRIM 4435 Intelligence Law.....3 hrs.

This course will explore and examine the U.S. Intelligence Community and the legal framework governing the actions taken by the U.S. government. The course will provide students with an overview of the Intelligence Community and the key legal authorities that support and guide the Intelligence Community.(Same course as NSIS 4435 and POLI 4435)

CRIM 4440 National Security Law.....3 hrs.

This course will explore the distribution of national security powers amongst the three coordinate branches of government – Legislative, Executive & Judicial and engage students in understanding the laws and policies that govern important critical issues in the national security arena.(Same course as NSIS 4440 and POLI 4440)

CRIM 4998 Undergraduate Research .....0-6 hrs.

Undergraduate research is an experiential learning activity that provides an opportunity for a student to engage in the scholarly activities of their major discipline under the guidance of a faculty mentor who will work in close partnership with each student in his or her formulation of a project, the development of a research strategy, and the assessment of a student's progress. The primary goal is for each student scholar to conduct an inquiry or investigation that makes an original, intellectual or creative contribution to their discipline and which is shared in an appropriate venue. Sophomore-Senior Level, Repeatable. Instructor approval required.

## ECONOMICS

ECON 3310: Intermediate Macroeconomics .....3

This course is designed to extend the student's knowledge of the basic macroeconomic principles. The objective of the course is for students to develop competence in using macroeconomic models

to explain the determination of aggregate output, prices, employment, and growth. In addition, students should learn to analyze the impact of monetary and fiscal policy on the macroeconomy. (PR: BSBA 2211 and BSBA 2212)

**ECON 3340: Public Economics .....3**

This course provides students with an introductory understanding of public finance/economics. Students will learn about the economic basis for government activities. Upon successful completion of the course, students should be able to understand: the impact of government expenditures, regulations, taxes, and borrowing on incentives to work, invest, and spend income. (PR: BSBA 2211, BSBA 2212, POLI 1100)

**ECON 3350: Managerial Economics .....3**

This course uses a problem-solving approach to demonstrate how economic theory can help managers make good decisions. Successful managers make extensive use of economic tools when making important decisions. They use these tools to produce at minimum cost, to choose and output level to maximize profit, and for many other managerial decisions.(PR: BSBA 2211, BSBA 2212)

**ECON 4410: Game Theory .....3**

This course will introduce students to the basic concepts and tools of game theory. Students will learn the fundamentals of game theory starting with basic terms and then will progress from the analysis of simple games to more complex games. Upon successful completion of the course, students should be able to analyze a situation, frame it in terms of the tools discussed, and understand the strategies used in the interaction.(PR: ECON 3350 (currently BSBA 3350), ECON 3310 Intermediate Macro)

**ECON 4406 Guided Economic Study ..... 1-3 hrs.**

Intensive reading, research, and study in current literature and documents in regard to a selected economic problem or group of problems. The field of study will be one in which the student has a special interest. All work will be done individually and the class will be conducted by conferences with each student. PR: Instructor approval required.

**ECON 4998 Undergraduate Research .....0-6 hrs.**

Undergraduate research is an experiential learning activity that provides an opportunity for a student to engage in the scholarly activities of their major discipline under the guidance of a faculty mentor who will work in close partnership with each student in his or her formulation of a project, the development of a research strategy, and the assessment of a student's progress. The primary goal is for each student scholar to conduct an inquiry or investigation that makes an original, intellectual or creative contribution to their discipline and which is shared in an

appropriate venue. Sophomore-Senior Level, Repeatable. Instructor approval required.

**EDUCATION**

**EDUC 1105 Basic Skills for Instructional Support .....3 hrs.**

This course will cover learning strategies and study skills for the paraprofessional, including strategies for remembering information, reading and taking notes, interpreting graphic aids, improving time management, preparing for and taking tests and finding and using information. In addition, math strategies and learning problems in mathematics, plus reading skills, phonics, sight words, and reading comprehension will be covered.

**EDUC 1199 Special Topics in Education ..... 1-12 hrs.**

The topic to be studied will be determined by the instructor and approved by the Dean of Teacher Education. Credits earned will be applicable as free electives in degree and certificate programs.

**EDUC 2200 Introduction to Education .....3 hrs.**

This course provides the teacher candidate with an overview of the profession. Its primary purpose is to offer information necessary for an informed career decision and a professional commitment to teaching. It also includes an analysis of the historical, philosophical and sociological basis for programs, instructional strategies and teaching behaviors in American education.

**EDUC 2201 Instructional Technology .....3 hrs.**

Designed to introduce teacher candidates (Pre K-adult) to computer technology and its applications to the classroom and curriculum. The major focus of the course will be interactive technology via the computer, although other forms of technology will be explored. Special emphasis will be placed on customizing instruction to meet learning styles of a diverse student population and evaluation of current software applications.

**EDUC 2203 Human Development, Learning & Teaching .....3 hrs.**

This course is an analysis of human development from birth through adolescence. Students will examine the influence of heredity and environment on the development of personality and behavior and their implications for educators. Admission to Teacher Education.

**EDUC 2206 Instructional Support Strategies .....3 hrs.**

This course will cover legislation affecting special education laws and the learning experience, the difference between mainstreaming and inclusion, the IEP and the self-contained classroom for the paraprofessional. Students will also learn about implementation of effective classroom management. Behavioral support in a positive learning environment and the role of the

family, for encouraging and including parental input in an educational plan, will be included.

EDUC 2220 Introduction to Special Education..... 3hrs.

This course is a guided survey of the areas of exceptionality in the field of Special Education (emotionally/behaviorally disturbed, physically handicapped, speech and language, visually impaired, hearing impaired, mentally impaired, gifted, and learning disabled), and the historical, philosophical, political and sociological foundations related to exceptional children. The laboratory component of the course is designed to provide experience in the areas of exceptionality through observation and limited participation in these areas.

EDUC 2225 Computer Education..... 3 hrs.

In this course, students study the history of computers in society and education. The focus of the course is on understanding the theories supporting computer use in schools, the ways computers are used, and the effects of computer-based instruction on student learning. Admission to Teacher Education.

EDUC 2226 Technology in Instruction ..... 3 hrs.

This course prepares the pre-service teacher to fully plan, implement and evaluate statewide technology plans. Content includes technology standards, resources, and planning; online education and curriculum integration and design. Admission to Teacher Education.

EDUC 2240 High Incidence Disabilities for Educators ..... 3 hrs.

This course is a survey course designed to provide teacher education majors with an understanding of the areas of exceptionality with an emphasis on the inclusion of students with high incidence disabilities such as mild mental impairments, learning disabilities, ADHD, and behavior disorders in the regular classroom. The historical, philosophical, political and sociological foundations of the education of students with exceptional learning needs will be presented, as well as current best practices and instructional approaches for each of these high incidence categories within the regular classroom. Students will gain an introductory understanding of the role of the regular educator in the IEP process and co-teaching within the inclusive classroom. Admission to Teacher Education.

EDUC 2260 Instructional Design I ..... 3 hrs.

This course is designed to integrate the theory and practice of how planning, instruction, assessment, and management are synthesized to address Pre K-Adult student learning. Teacher candidates will be provided opportunities to design instructional materials and activities that address differences in learning styles, socio-economic, cultural, and developmental characteristics. The use of media and information technologies to design and deliver instruction that promotes self-direction, problem solving, and

collaboration are emphasized. At the end of this course, teacher candidates will understand and apply the learning theories that underpin their instructional choices and understand the importance of using a variety of assessments for learning and of learning. The content of the course is organized to reflect and reinforce the WV Professional Teaching Standards, which are built on expectations of practice by organizations such as National Board, Charlotte Danielson's Framework for Teaching, CAEP, INTASC, and ISTE standards. PR: Admission to Teacher Education, EDUC 2203 and EDUC 2240, CR: EDUC 2265

EDUC 2265 Field Experience 2 ..... 1 hr.

This field-based semester long experience must be completed in a Professional Development School / public school setting. This field experience will allow the teacher candidate the opportunity to apply and reflect on his/her content area as well as pedagogical knowledge, skills, and dispositions in a classroom setting with a certified teacher. This experience will allow for immersion in the learning community so the teacher candidate can demonstrate proficiencies in the role for which s/he is preparing which includes: observing, assisting, tutoring, instructing, collecting and using assessment data to inform teaching decisions in the classroom setting. CR: EDUC 2260, PR: EDUC 2203 & EDUC 2240

EDUC 2995

Behavior Support Strategies..... 3 hrs.

This course presents basic principles and practices in the use of applied behavior management with both normal and exceptional learners for the paraprofessional. Students will gain firsthand experience in using behavior analysis and other behavioral support strategies in field settings. Capstone course.

EDUC 3307 Instructional Technology II ..... 3 hrs.

This course prepares the pre-service teacher to utilize school-wide classroom technology applications. Hardware, software, advanced applications, computer lab operations and school-wide assistance are the major areas of intent in the course. Admission to Teacher Education.

EDUC 3330 The Reading Process ..... 3 hrs.

*Writing Intensive*

This course examines the components of reading, with emphasis placed upon word attack skills, reading comprehension and factors which affect reading progress. Admission to Teacher Education. PR: ENGL 1102.

EDUC 3331 Reading in the Content Areas ..... 3 hrs.

*Writing Intensive*

This is a reading methods course designed to provide content teachers with background information and instructional competencies necessary for teaching the reading and study skills

essential to learning other subjects. This course also provides a rationale and practical applications for integrating instruction in the reading process across all content areas. Admission to Teacher Education. PR: ENGL 1102.

EDUC 3332 Pedagogy of Literacy (Reading and Language Arts Methods) ..... 3 hrs.  
 Designed to address the curriculum, content, methods, materials, and assessment of effective literacy and language arts instruction in the elementary classroom. This course emphasizes analysis of developmentally appropriate standards and objectives, instructional models, active learning strategies, and evaluation methods for reading, handwriting, grammar, spelling, writing, oral communication, and listening. Attention is given to lesson and unit planning, selection of materials and resources needed to implement those plans, and assessment of learning at the age and grade level appropriate to the learner. PR Admission to Teacher Education and EDUC 3330. May be taken concurrently with EDUC 3331.

EDUC 3340 Instructional Design II ..... 3 hrs.  
 This course is designed to prepare teacher candidates to articulate and apply the standards of good assessment, design accurate assessments and be able to communicate results that maximize student learning success. The use of media and information technologies are emphasized to design learning activities/ lesson plans, assessment tools and the management of assessment data. Teacher candidates will understand the importance of using a variety of assessments for learning and of learning. This course integrates theory and practice in designing sequenced learning activities that address differences in learning styles, socio-economic, cultural, and developmental characteristics from Pre-K to adult student learning. Students will understand the basic tenets of positive intervention and supports in maintaining a safe and orderly classroom. The content of the course is organized to reflect and reinforce the WV Professional Teaching Standards, which are built on expectations of practice by organizations such as National Board, Charlotte Danielson's Framework for Teaching, CAEP, INTASC, and ISTE standards. Must be taken the semester prior to Student Teaching. PR: EDUC 2260, EDUC 2265, CR: EDUC 3365, EDUC 3351.

EDUC 3350 Elementary Social Studies Methods ..... 3 hrs.  
 This is a methods course in which prospective K-6 teachers translate content specific skills to the developmental levels, intellectual, emotional and social needs and learning styles of students. Activities focus on the acquisition of knowledge, skills, and dispositions through practice in selecting appropriate content, goals, and strategies for K-6 students and designing effective teaching and evaluation procedures. PR: Admission to Teacher Education and EDUC 2260.

EDUC 3351 Inclusive Classroom Practices for Individual Differences ..... 3 hrs.  
*Writing Intensive*

This course is designed to prepare teacher candidates with a foundation for educating students with special needs in inclusive public school settings K-12. It provides information about the spectrum of students: those considered low and high incidence disabilities, those from culturally diverse backgrounds, and those at risk for school failure. It presents strategies for differentiating instruction, instructional adaptations and approaches to responding to students' behavior, and building social relationships. Approaches to analyzing, assessing and evaluating student needs and learning are addressed. Admission to Teacher Education. Must be taken the semester prior to Student Teaching. PR: ENGL 1102, EDUC 2260, EDUC 2265, CR: EDUC 3340, EDUC 3365.

EDUC 3365 Field Experience 3 ..... 2 hrs.  
 This course builds on cumulative experiences in previous field-based practica and is a semester long experience which must be completed in a Professional Development School / public school setting. The third clinical experience will allow the teacher candidate the opportunity to apply and reflect on his/her content area as well as pedagogical knowledge, skills, and dispositions in a classroom setting with a certified teacher. This experience will allow for immersion in the learning community so the teacher candidate can demonstrate proficiencies in the role for which s/he is preparing which include: assisting, tutoring, instruction and classroom management. The teacher candidate will identify and develop a focus, review the literature and explore the context for the action research project that will be implemented in the student teaching clinical experience. CR: EDUC 3340 & EDUC 3351.

EDUC 4485 Action Research ..... 1 hr.  
 This course is taken concurrently with student teaching and consists of completing a capstone action research project. During the course, students will finalize a proposal for their project and implement their approved action research in the public school setting. At the completion of implementation, the teacher candidate will provide a final comprehensive analysis of the data, write and submit final reports, prepare and present the presentation of the project to peers and faculty. PR: EDUC 3365, CR: EDUC 4491 or EDUC 4496, and EDUC 4486.

EDUC 4486 Portfolio ..... 1 hr.  
 This course is taken concurrently with student teaching and consists of creating a five-part portfolio which showcases the students' best work based on the WV Teaching Standards. There is an emphasis on authentic artifacts that show evidence that the student can collect and select standard-based artifacts, and reflect

on his/her professional growth in order to improve teaching practice and student learning. The teacher candidates will present the portfolio to peers and faculty. PR: EDUC 3365, CR: EDUC 4491 or EDUC 4496, and EDUC 4485.

EDUC 4491 Elementary Student Teaching..... 10 hrs.  
Full-time involvement in the teaching/learning process in a Professional Development School/public elementary school setting at the PreK-4/PreK-6 level is required for successful completion of this course. Student teachers will observe, assist, teach and manage a classroom under the supervision of a host public school teacher and college liaison. PR EDUC 3365, CR: EDUC 4485 & EDUC 4486

EDUC 4496 Secondary Student Teaching ..... 10 hrs.  
Full-time involvement in the teaching/learning process in a Professional Development School/public school setting at the PreK-Adult level is required for successful completion of this course. Student teachers will observe, assist, teach and manage a classroom under the supervision of a host public school teacher and college liaison. PR: EDUC 3365, CR: EDUC 4485 & EDUC 4486.

EDUC 4998 Undergraduate Research .....0-6 hrs.  
Undergraduate research is an experiential learning activity that provides an opportunity for a student to engage in the scholarly activities of their major discipline under the guidance of a faculty mentor who will work in close partnership with each student in his or her formulation of a project, the development of a research strategy, and the assessment of a student's progress. The primary goal is for each student scholar to conduct an inquiry or investigation that makes an original, intellectual or creative contribution to their discipline and which is shared in an appropriate venue. Sophomore-Senior Level, Repeatable. Instructor approval required.

## ELECTRONICS ENGINEERING TECHNOLOGY

ELEC 1100 Circuit Analysis I ..... 3 hrs.  
Introduction to the concepts of voltage, current, resistance, capacitance and inductance. Also covered are Kirchoff's Laws, with applications in basic DC-AC, series-parallel circuits. Basic electromechanical devices and transformers and three phase electrical circuits are studied.

ELEC 1120 AC/DC Electronics Analysis ..... 3 hrs.  
This course introduces students to the concepts of measuring voltage, current, and resistance of various ac and dc circuits. Students will build electronic circuits on a breadboard using discrete and integrated circuit components. The student will be introduced to electronic instruments, such as the digital

multimeter, oscilloscope, function generator, and power supplies utilized extensively in a lab setting. The student will learn how to use simulation software and make comparisons between theoretical and real-world results.

ELEC 1199 Special Topics in Electronics Engineering Technology ..... 1-12 hrs.  
Studies in special selected topics, to be determined by the instructor and approved by the department chairperson. Credits earned will be applicable as free electives in degree and certificate programs.

ELEC 2200 Shop Practices.....3 hrs.  
The student will learn to breadboard fundamental circuits, which is a building block for all subsequent lab based courses. Breadboarding will be accompanied with voltage, current, resistance measurements using a multimeter. An introduction to oscilloscopes and function generators is also included. Note: Extra costs are associated with this course, as the student will be purchasing equipment that will be used in several subsequent courses.

ELEC 2210 Circuit Analysis II .....3 hrs.  
Continuation of ELEC 100, including the theory and application of circuit analysis theorems. Also covered are nonsinusoidal waveforms, three-phase circuits and the use of computers in solving problems. PR: ELEC 1100

ELEC 2225 Electronic Devices .....3 hrs.  
Devices studied will include diodes, transistors, Op Amps, PLL's, and timers. The circuitry studied will include power supplies, basic amplifier types, power amplifiers, switching circuits, voltage regulators, comparators and active filters. PR: ELEC 1100.

ELEC 2230 Digital Electronics .....3 hrs.  
Theory and experimentation with SSI, MSI, and LSI devices and systems, including gates, flip-flops, counters, decoders, timers, displays, memories, etc., and such systems as thermometers, tachometers, meters, etc. PR: ELEC 1100,.

ELEC 2240 Industrial Electronics .....3 hrs.  
Study of the operation of industrial power control systems, including power devices and control circuits. Power devices covered include relays, contactors, transistors, SCRs and TRIACs. Control circuits include UJTs, PUTs, DIACs, photo-devices, timers and control ICs. PR: ELEC 2225

ELEC 2250 AC-DC Machinery and Controls.....3 hrs.  
Practical aspects in the use and maintenance of AC-DC machinery and power distribution, including motors, generators, starters, speed controllers, breakers, transformers, etc. PR: ELEC 1100,

ELEC 2260 Communication Systems..... 3 hrs.  
Theory, operation, and maintenance of AVMA, FM, PM and digital communications systems. PR: ELEC 2225

ELEC 2270 Microcomputers ..... 3 hrs.  
Project-based learning using a multi-core microcontroller with A/D and D/A converters utilized and integrating an array of sensors, control high-speed stepper motors, and program a mini robot to navigate autonomously. PR: ELEC 1100.

ELEC 2280 Programmable Controllers ..... 3 hrs.  
An introduction to programmable controllers and their application to sequential process control. Topics include basic operating characteristics, relays, timers, counters, sequencers, editing and on-line data control. Practical laboratory experiences will be provided in controller applications, programming, installation and maintenance. PR: ELEC 2230.

ELEC 3300 Advanced Linear Electronics ..... 3 hrs.  
A study of linear devices including OP AMPS, comparators, timers, filters, voltage references and current references. The course will include analysis and design concepts covering a wide range of linear circuits. This course satisfies the general studies "teamwork" requirement. PR: ELEC 2230,

ELEC 3310 Advanced Microcomputer Systems ..... 3 hrs.  
This course is a continuation of ELEC 2270 utilizing multiple microcontrollers. The student will develop a combination of hardware/software skills and problem solving abilities to create, control and monitor various systems. PR: ELEC 2270.

ELEC 3360 Communication Systems..... 3 hrs.  
Covers the elementary electronic communication concepts such as AM, FM, and digital modulation for radio and TV applications. Discusses the theory and operation of modern communication techniques including multiplexing, spread spectrum, wired and wireless networks, satellite communications, telemetry, and Internet. PR: ELEC 2240,

ELEC 4401 Senior Electronics Project I ..... 4 hrs.  
Instructor-approved capstone project. This course will allow the student to pursue specialized interests and show that s/he can manage and complete an individual project. This is a two course sequence (along with ELEC 4402) where the student will select a project with faculty approval; design the project, and perform preliminary testing of the project. Project management techniques will be utilized throughout the course. Baccalaureate majors only. PR: ELEC 3310.

ELEC 4402 Senior Electronics Project II ..... 3 hrs.  
Writing Intensive

This is a Writing Intensive Course coordinated with the technical development within ELEC 4401. While completing ELEC 4401 capstone project; students will demonstrate, prepare and deliver an oral presentation, and submit a final report and presentation. PR: ELEC 3310.

ELEC 4410 Data Acquisition and Control Systems .....4 hrs.  
Theory and use of data acquisition and control systems, including transducers, signal conditioning circuits, multiplexing, A/D and D/A converters, computers and control devices. Baccalaureate majors only. PR: ELEC 3300.

ELEC 4420 Advanced Automation Controller Systems.....3 hrs.  
Advanced Programmable Logic Controller Course where the student will complete detailed applications for Allen-Bradley and Siemens PLC-HMI systems. This course is a combination of lecture and lab exercises to develop practical automation design applications. PR: ELEC 2280

ELEC 4998 Undergraduate Research .....0-6 hrs.  
Undergraduate research is an experiential learning activity that provides an opportunity for a student to engage in the scholarly activities of their major discipline under the guidance of a faculty mentor who will work in close partnership with each student in his or her formulation of a project, the development of a research strategy, and the assessment of a student's progress. The primary goal is for each student scholar to conduct an inquiry or investigation that makes an original, intellectual or creative contribution to their discipline and which is shared in an appropriate venue. Instructor approval required.

## ENGLISH

~ ENGL 1101 Written English I ..... 3-4 hrs.  
This course offers process-oriented practice in drafting, revising, and editing texts. Students learn the principles of expository writing, thesis formulation, organization, paragraph development, audience analysis, appropriate diction, and sentence structure. The course also includes an introduction to reading for content in texts selected from across the disciplines. Following WV state mandates, students scoring below 18 on the English section of the ACT, 450 in Critical Reading on the SAT-1, or 5 on the WritePlacer of ACCUPLACER, or the equivalent will be required to take an additional credit hour of supplemental instruction in English 1101, which will reinforce the skills necessary to generate college level essays. A "C" in English 1101 is a graduation requirement for all degrees.

~ ENGL 1102 Written English II .....3 hrs.  
A continuation of Written English I that provides experience in analyzing and writing argument and persuasive prose. A central

feature of the course is a library research project that is intended to develop familiarity with reference sources and skill in summarizing the diverse points of view of multiple sources. PR: A C or better in ENGL 1101. A "C" in English 1102 or English 1103, as determined by the academic department, is a graduation requirement for all degrees.

ENGL 1103 Technical Report Writing ..... 3 hrs.

This course provides practice in writing expository documents and technical reports. In addition to scientific/technical reports and proposals, students also write business letters, memoranda, and other types of written communication common to the industrial and business worlds. PR: A C or better in ENGL 1101. A "C" in English 1102 is a graduation requirement for all degrees.

ENGL 2007 Shakespeare Road Trip ..... 1 hr.

The Shakespeare Road Trip provides students with a critical introduction to productions of plays by Shakespeare and others. Fees for tickets and travel expenses will apply. This course may be repeated for credit. PR: ENGL 1102.

~ ENGL 2220 World Literature I: Origins to 1650 ..... 3 hrs.

A survey of literary masterpieces from around the world. Readings will include religious texts (such as the Bible, the Koran and the writings of Confucius); the epic (Gilgamesh, Homer and Dante); poetry (Li Po, Ovid and Petrarch); drama (Sophocles, Shakespeare and non-Western traditions such as Japanese Noh theater); and narrative fiction (tales from The Thousand and One Nights, The Tale of Genji and Don Quixote). PR: ENGL 1102 or ENGL 1103.

~ ENGL 2221 World Literature II: 1650 to the Present..... 3 hrs.

English 2221 offers a study in literary masterpieces, some in translation, from around the world, including satire (works by authors such as Moliere, Swift and Voltaire); drama (K'ung Shan-Jen, Ibsen, Chekhov, and Al-Hakim); poetry (Basho, Keats, Dickinson, and Eliot); the short story (Flaubert, Ichiyo, Lu Xun, and Gordimer); and the novel (Yasunari, Achebe and Desai). PR: 1108 or 1109.

~ ENGL 2230 Introduction to Literature I: Prose Narratives ..... 3 hrs.

A study of narrative art both in fictional forms (the short story, the novel, allegory) and non-fictional forms (autobiography, personal essay), with readings from many cultures within a world context, giving substantial exposure to important works written in the last 100 years and to those written by women and minorities. PR: ENGL 1102 or ENGL 1103.

~ ENGL 2231 Introduction to Literature II: Poetry & Drama .... 3 hrs.

A study of the forms and conventions of the genres through close reading, discussion, and written response. Students will survey representative works from fifth-century Athens to the most

contemporary voices. Relevant exposure will be given to poems and plays by and about women and minorities. PR: 1108 or 1109.

ENGL 2251 Introduction to Literary Studies ..... 3 hrs.

An introduction to the formal study of literature focusing on reading and interpretation of texts from a variety of analytical approaches. The course highlights the wide range of literary critical methodologies and challenges students to articulate and reflect upon their own critical assumptions. Offered in the fall only.

ENGL 3301 Theories of Language and their

Application to English I ..... 3 hrs.

This course covers the linguistic subjects of syntax, morphology, phonology, semantics and pragmatics, which provide concepts and techniques for understanding languages, with special emphasis upon English. Topics will include descriptive versus prescriptive grammar, dialect and register, synchronic and diachronic language variation, the history of English, language acquisition, the leading theories of language, language theory and the art of composition. Required of all prospective teachers of English; to be taken before Clinical III. PR: ENGL 1102.

ENGL 3302 Theories of Language and their

Application to English II ..... 3 hrs.

Continuation of ENGL 3301, emphasizing practical applications to teaching writing and grammar in grades 5-12. Required of all prospective teachers of English; to be taken before Clinical III. PR: ENGL 3301.

ENGL 3303 Survey of Amer Lit I: Beginnings to the 1850s ..3 hrs.

*Writing Intensive*

A study of American literary traditions, from the poets, diarists and chroniclers of the seventeenth and eighteenth centuries to the writers of imaginative and autobiographical prose and poetry of the early/mid 1800s. PR: ENGL 2220.

ENGL 3304 Survey of Amer Lit II: The 1850s to the Present .3 hrs.

*Writing Intensive*

A study of America's literary traditions from the 1850s to the present, including the poets, "local color" writers, naturalists and realists of the late 1800s; the experimental poetry and fiction of the early 1900s; the major dramatists; and a large sampling of the writers from the last half of the century. PR: ENGL 2221.

ENGL 3313 Survey of British Literature I..... 3 hrs.

*Writing Intensive*

This course offers a study of British literature beginning with Beowulf and continuing through the eighteenth century, including Chaucer, Shakespeare, Donne, Milton, Swift, and Pope. Recent recovery of female writers such as Lanyer, Cavendish, Whitney, and Behn and scholarship on them is also reflected in the design of the course. PR: English 2220.

ENGL 3314 Survey of British Literature II ..... 3 hrs.  
*Writing Intensive*

This course offers a study of British literature from the early Romantic period through the present day, including such writers as Blake, Wordsworth, Austen, Tennyson, Dickens, Yeats, Shaw, Woolf, Joyce, Eliot, Beckett, and Auden. The purpose of this course is to give students an overview of the major literary and historical movements in Britain and its colonies in the last two hundred years, while introducing students to a basic vocabulary of literary terms and critical theory. PR: English 2221.

ENGL 3320 Literary Criticism..... 3 hrs.  
A study of past and present critical methods and of the theoretical assumptions upon which they are based. PR: ENGL 3303 or 3313.

ENGL 3332 Narrative and Descriptive Writing ..... 3 hrs.  
*Writing Intensive*

Narrative and Descriptive Writing provides intensive practice in narrative and descriptive techniques in fictional, non-fictional, dramatic and poetic modes of writing. Utilizing a workshop format promotes reciprocity in the classroom between professor and students and among students. The course does not require experience in writing creatively but rather provides instruction and practice in the craft of writing. Students work in several creative modes for different audiences and purposes. PR: ENGL 1102.

ENGL 3333 Writing Non-Fiction ..... 3 hrs.  
*Writing Intensive*  
Study and practice of the various kinds of expository writing. PR: ENGL 1102.

ENGL 3344 Writing Poetry ..... 3 hrs.  
*Writing Intensive*

A workshop-based, individual-centered course in which students examine the tradition of poetry and poetics and how their own interest in writing poems may work within and against that tradition. The emphasis is on writing, revising and presenting poems in workshop format and potentially professionally. Students will also read and respond to modern poems and essays on poetics. Students are advised to first take ENGL 3332. PR: ENGL 1102.

ENGL 3345 Writing Fiction..... 3 hrs.  
*Writing Intensive*

A workshop-based, individual-centered course in which students examine the tradition of fiction and how their own interest in writing stories may work within and against that tradition. The emphasis is on writing, revising and presenting stories in workshop format and potentially professionally. Students will also read and respond to modern stories and essays on fiction. Students are advised to first take ENGL 3332. PR: ENGL 1102.

ENGL 3349 Advanced Technical Communication ..... 3 hrs.  
*Writing Intensive*

This course places special emphasis on the preparation and implementation of the extensive, formal report in business, industry and public service organizations. As such, it will feature an introduction and orientation to source materials for advanced technical research and presentation, and it will also address the use of technical language for informed and uninformed audiences. PR: ENGL 1102 or ENGL 1103.

ENGL 3354 Children's Literature ..... 3 hrs.

This course seeks to acquaint students with a number of major works in the field of children's literature, while providing approaches to appreciate and evaluate such texts. Offered Fall semester only. PR: ENGL 1101.

ENGL 3355 Young Adult Literature..... 3 hrs.

This course seeks to acquaint students with a number of major works in the field of young adult literature, while providing approaches to appreciate and evaluate such texts. PR: ENGL 2220 or ENGL 2221 or ENGL 2230 or ENGL 2231.

ENGL 3356 Fantasy, Science Fiction, and Magical Realism .. 3 hrs.

This course seeks to acquaint students with a number of major works of highly imaginative literature by such writers as George MacDonald, J.R.R. Tolkien, H. P. Lovecraft, Angela Carter, Ray Bradbury, Philip K. Dick, Franz Kafka, Gabriel Marquez, Salman Rushdie, and Jorge Luis Borges. While providing approaches to appreciate and evaluate such texts, the course will also address cultural/literary assumptions about the value of fantasy, both in fiction and in human development. PR: ENGL 2220 or ENGL 2221 or ENGL 2230 or ENGL 2231.

ENGL 3361 American Romanticism ..... 3 hrs.

This course studies the works of three or four writers most closely associated with nineteenth-century American Romanticism. Among the writers who may be chosen for study are Irving, Poe, Hawthorne, Emerson, Thoreau, Melville, Whitman, and Dickinson. PR: ENGL 3303. ....

ENGL 3362 American Realism and Naturalism..... 3 hrs.

This course offers a study of the work of four or five realist and naturalist writers and the intellectual and historical context in which they worked. Such writers may include James, Twain, Crane, Dreiser, Norris, Howells, Cather, Wharton, Chopin, Jewett, and Garland. PR: ENGL 3304.

ENGL 3363 The American Novel ..... 3 hrs.

This course traces the development of the American novel from the late eighteenth century to the present. Important American

novels will be analyzed in a chronological sequence. PR: ENGL 3303 or 3304.

ENGL 3364 Appalachian Literature ..... 3 hrs.

This course identifies and analyzes representative examples of writers and their literature (poetry and prose) that have grown out of the Appalachian Region. Major emphasis is placed on the cultural, historical, geographical, and social elements that have influenced the themes and points of view of the literature. Selected nonprint (film) interpretations of both the region and its literature are a part of the course content and serve as important learning strategies for projecting the tone and atmosphere of the region and in establishing, and reinforcing, its stereotypes and imagery both inside and outside the region. PR: ENGL 2221.

ENGL 3365 American Modernism ..... 3 hrs.

This course will examine the artistic and literary movements in the early 20th century that continue to shape ideas of literature, reading, art, and taste. With attention to the avant-garde, readings will include high-modernists like Eliot, Hemingway, and Pound, as well as those writers less obviously participating in the aesthetic directives posed by the era. PR: ENGL 3304.

ENGL 3366 Contemporary Literature ..... 3 hrs.

This course examines the ways in which visual and written texts have illustrated shifts in political and linguistic thought since mid-century. Students will need patience and a good sense of humor and must be prepared to encounter assaults to their most precious assumptions with an open mind. The graphic novel, performance art, experimental poetry, and other hybrid texts will be studied alongside familiar literary forms revised for current concerns. PR: ENGL 3304 or 3314.

ENGL 3370 Literature of the Middle Ages ..... 3 hrs.

This course presents a study of English and continental European literature of the Middle Ages. Genres covered include the chronicle, romance, fabliau, beast fable, lyric, saint's legend and drama. PR: ENGL 3313.

ENGL 3373 Chaucer ..... 3 hrs.

Our primary objective is to read and understand Chaucer's *Canterbury Tales* in the language in which he wrote. We will learn a bit about the Middle Ages in general, and we will learn that the study of a great medieval poet may teach us something about ourselves. PR: ENGL 3313.

ENGL 3374 Shakespeare ..... 3 hrs.

*Writing Intensive*

A study of Shakespeare's poetry and plays. PR: ENGL 3313.

ENGL 3375 Later Renaissance British Literature ..... 3 hrs.

A study of British literature and culture during a century of great change. From the death of Elizabeth I to the Civil War, from the

Interregnum to the Restoration, from England's national boundaries to its explorations and colonialist origins, we will survey poets, their protagonists, and their subjects; the drama as it shifts from court masque to city comedy, from boys playing women to women taking to the stage and writing for the stage; the rise of women taking up the pen in support of their faith, their families, and themselves. Our major figure for the period is John Milton. PR: ENGL 3313.

ENGL 3377 Literature of the Enlightenment ..... 3 hrs.

This course examines social and intellectual developments of the European Enlightenment through writers representing the perspectives of both the "Ancients" (such as Dryden, Behn, Pope, and Swift) and the "Moderns" (such as Congreve, Defoe, Haywood, and Voltaire). PR: ENGL 3313

ENGL 3378 British Romanticism ..... 3 hrs.

A concentrated study of the works of such writers as Blake, Wordsworth, Coleridge, Byron, Shelley and Keats. PR: ENGL 3314.

ENGL 3379 Literature of the Victorian Period ..... 3 hrs.

A concentrated study of the works of such writers as Tennyson, Browning, Rossetti, Arnold, Swinburne, Mill, Ruskin and Carlyle. PR: ENGL 3314.

ENGL 3380 Twentieth-Century British Literature ..... 3 hrs.

A study of the major texts in 20th-century British literature that reflect the cultural, social and literary issues of the time. Among the writers who may be studied are poets, from Yeats and Eliot to Heaney and Larkin, playwrights such as Beckett and Stoppard and fiction writers, from Joyce and Waugh to Fowles and Drabble. PR: ENGL 3314.

ENGL 3381 The British Novel ..... 3 hrs.

A historical and critical study of significant British novels of the eighteenth, nineteenth, and twentieth centuries. PR: ENGL 3313 or 3314.

ENGL 3382 The World Novel ..... 3 hrs.

This course offers a study of the enduring accomplishments of the novelists of Europe, Latin America, and other regions. Novels to be read may include those of Cervantes in the 1600s; Voltaire and Goethe in the 1700s; Flaubert, Tolstoy, and Dostoevsky in the 1800s; and Kafka, Camus, Kundera, and Marquez in the 1900s. PR: ENGL 2220.

ENGL 3383 Epic Tradition ..... 3 hrs.

In this course we will study the evolving epic tradition, covering 4000+ years of history, and draw our reading selections from a wide range of places, cultures, and perspectives. Our focus will be on the canonical western tradition (Homer, Virgil, Milton, et. al.)

but we will also make forays into the literatures of the Near East, India, and Africa. PR: ENGL 2220 or ENGL 2221.

ENGL 3385 The Arthurian Tradition ..... 3 hrs.  
This course surveys Arthurian literature from its 12th-century origins to the present day. It will include analysis of the archaeological evidence for a historical Arthur, as well as the Celtic background from which the legends spring. PR: ENGL 1102.

ENGL 3386 The Bible as Literature ..... 3 hrs.  
This course focuses on the literary history, interpretation and genres of the Bible, as well as significant biblical tropes, metaphors and narratives. PR: ENGL 2220 or ENGL 2221 or ENGL 2230 or ENGL 2231.

ENGL 3387 Folk Literature ..... 3 hrs.  
This course is an analysis of the components and genres of oral folk literature through poetry (the folk song, ballad and instrumentation), narrative (myths, legends, folktales, fables, morals, anecdotes, personal narratives and other forms of folk narrative), and language (verbal lore, such as dialect/accents, beliefs and superstitions, proverbs, sayings, riddles and jokes) within the contextual process of perpetuation (storytelling) and preservation (collecting and motifying). Emphasis will be placed on the Appalachian cultural perspective. A field study will be part of the course. Also listed as FOLK 3300. PR: ENGL 2220.

ENGL 3388 Women's Literature ..... 3 hrs.  
A study of classic texts in women's literature, including works by writers such as Aphra Behn, Jane Austen, Kate Chopin, Virginia Woolf, and Amy Lowell. Students will also study works by contemporary female writers, representing American, British, and other world literatures. PR: ENGL 2220 or ENGL 2221 or ENGL 2230 or ENGL 2231.

ENGL 3389 Minority Literature ..... 3 hrs.  
A study of writers and forms traditionally omitted from the American literary canon, this course tracks the writing of people unacknowledged by conventional versions of American history with attention to their experimentation with literary genre and disciplinary boundaries. PR: ENGL 2220 or ENGL 2221 or ENGL 2230 or ENGL 2231.

ENGL 3390 Modern Drama ..... 3 hrs.  
This course examines world drama from the nineteenth-century to the present. PR: ENGL 2221.

~ ENGL 3391 The Short Story ..... 3 hrs.  
This course offers a critical study of this art form based upon the work of authors from around the world. PR: ENGL 2221.

ENGL 3392 Contemporary Poetry ..... 3 hrs.  
This course focuses on roughly ten poets from around the world whose works have been published in the last thirty years. Discussions of poetic movements and strategies shaped by and influencing the writers and their audiences accompany study of the primary texts. PR: ENGL 2221.

ENGL 3393 Southern Literature ..... 3 hrs.  
This course offers a study of representative Southern authors and works from colonial times to the present, emphasizing characteristically Southern themes and the diverse points of view that have made up the American South, including those of women, African-Americans, and other minorities. The experience of defeat and experience of colonization are studied. Included are such figures as Harris, Chesnut, Twain, Chopin, Hurston, Toomer, Wolfe, Faulkner, Welty, Ransom, and O'Connor. PR: ENGL 3303 or 3304.

ENGL 3394 The Art of the Motion Picture ..... 3 hrs.  
A course designed to trace the evolution of the motion picture from its beginnings to the achievements of the present. Such aspects of the film as genre (the western, the horror film), techniques (sound, editing, photography), themes (forbidden knowledge, vengeance), and character types (cops, comics, crooks) will be considered. Although this course is intended for serious students of the verbal and visual arts, it is also designed to accommodate (as an elective) interested students who are avid filmgoers and desire to improve their appreciation of the films they see. PR: ENGL 2220 or ENGL 2221 or ENGL 2230 or ENGL 2231.

ENGL 3395 Journeys in Comparative Mythology ..... 3 hrs.  
A cross-cultural study of cosmic myth, investigating explanations offered by various peoples to questions that have been asked since the dawn of time. The course includes mythological traditions such as Greco-Roman, Norse, Mesopotamian, African, Celtic, Indian, Chinese, South American and Native American. PR: ENGL 2220.

ENGL 3396 Literature and Film ..... 3 hrs.  
By comparing literary texts to cinematic versions of those texts, this class explores the differences between the modes of verbal and visual representation. The selection of texts will focus on an author or theme selected by the professor, such as Shakespeare, Jane Austen, London, the Western Hero, or Desiring Women. PR: ENGL 2220 or ENGL 2221 or ENGL 2230 or ENGL 2231.

ENGL 3399 Special Topics in English ..... 1-12 hrs.  
Studies in special selected topics, to be determined by the instructor and approved by the chairperson. Credits earned will be applicable as free electives in degree and certificate programs. PR: ENGL 1102.

ENGL 4400 Senior Seminar ..... 3 hrs.

This advanced course will introduce English majors to the rigors of graduate-level work. The subject matter, which will vary, will be tightly focused on a specific area of study. Students will use advanced research skills and demonstrate a thorough understanding of the relevant scholarship in the field. Because the subject matter will change from semester to semester, this course may be taken more than once. PR: ENGL 3320.

ENGL 4431 Methods and Materials in Teaching English ..... 3 hrs.  
Study and practice in the techniques of teaching the fundamentals of grammar, mechanics, composition and the varied types of literature; taken as part of the Initial Performance Practicum. PR: ENGL 3355 and 3374.

ENGL 4441 Independent Study ..... 1-4 hrs.  
Intensive study in the work of one or more significant authors. Subject area to be suggested by the student and approved by the instructor. The student may conduct an independent investigation in an area of interest and represent the results in one or more research papers. Instructor approval required.

ENGL 4489 Writing for Literary Conferences..... 1 hr.  
This course prepares students for presenting their literary papers at academic conferences. PR: Instructor approval required.

ENGL 4491 Writing Internship ..... 3 hrs.  
Writing internships allow students to apply their communication (verbal and written) and critical thinking skills in writing for business and non-profit organizations. A GPA of 3.25 and completion of 18 hours toward the English major are required. This course may be repeated for credit. Instructor approval required.

ENGL 4998 Undergraduate Research ..... 0-6 hrs.  
Undergraduate research is an experiential learning activity that provides an opportunity for a student to engage in the scholarly activities of their major discipline under the guidance of a faculty mentor who will work in close partnership with each student in his or her formulation of a project, the development of a research strategy, and the assessment of a student's progress. The primary goal is for each student scholar to conduct an inquiry or investigation that makes an original, intellectual or creative contribution to their discipline and which is shared in an appropriate venue. Sophomore-Senior Level. This course may be repeated for credit. Instructor approval required.

## ENGLISH AS A SECOND LANGUAGE

\*Registration restricted to ESL students only.

ESLG 0051 Elementary Academic Reading ..... 3hrs.

In the class, students develop and practice it in context. Reading as a central means of processing forms and ideas will help establish academic skills of critical thinking in English. The skills of prediction, the comprehension of main ideas and details, and the importance of inferences are all required. In addition, students will become familiar with parts of speech, prefixes, suffixes, and roots as aids in understanding new vocabulary. Repeatable.

ESLG 0052 Elementary Composition ..... 3 hrs.  
Students develop sentence, paragraph, and essay writing skills. Students focus on learning grammatical structures and use this knowledge within the writing context. Students also develop strategies to improve their organizational skills and to expand and practice new vocabulary. Repeatable.

ESLG 0053 Elementary Speaking and Listening ..... 3 hrs.  
This course introduces international students to a variety of speaking and listening exercises that will improve their academic success in the university setting. Each week, a new topic or subject will be introduced and discussed informally in a classroom discussion. Every two weeks, students will be assigned additional speaking assignments to continue more-in-depth formal discussions or presentations on the assigned topics. Repeatable.

ESLG 0054 Elementary Grammar Studies ..... 3 hrs.  
This is a beginning level content-based grammar course designed for students who are preparing to enter American colleges and universities. The class will focus on improving English grammar through listening, speaking, reading, and writing activities. Additionally, some emphasis will be placed on Test of English as a Foreign Language (TOEFL) grammar. Repeatable.

ESLG 0055 Elementary Vocabulary and Pronunciation ..... 3 hrs.  
This course focuses on the ability to express oneself clearly, with maximum comprehensibility. Students practice the important skills of pronunciation stress, vowel reduction, length, phonetics, rhythm, timing, and intonation. Vocabulary development, facility with idiomatic expressions, and thematic coherence are emphasized. Each participant's particular needs are evaluated regularly as part of the course, and strategies for improvement are provided through daily assignments, drills, presentations, listening practice, discussion, and peer-evaluations. Repeatable.

ESLG 0056 Elementary TOEFL Strategies ..... 3 hrs.  
This course provides international students with a better grasp of English to help them succeed in the TOEFL. The course focuses on techniques related to various sections of the TOEFL. The class aims to prepare for the test so that they will have language skills and the familiarity with the university setting to be successful at the University.

ESLG 0057 Elementary American Culture..... 3 hrs.

This course assists new and experienced ESL students in achieving a positive experience of study in a new culture. Class topics in American culture focus on the practical aspects of day-to-day life in the United States. Repeatable.

ESLG 0061 Intermediate Academic Reading ..... 3 hrs.

Students develop skills in prediction, comprehension of main ideas and details, and inferences.¾ Reading comprehension activities include, in addition to writing and texts, independent, small-group, and whole class activities.¾ Both short reading passages and more extensive texts, such as abridged novels, provide sustained practice and content.¾¾¾Repeatable. PR: ESLG 0051.

ESLG 0062 Intermediate Composition ..... 3 hrs.

Students develop sentence, paragraph, and essay writing skills necessary to write a coherent effective academic essay.¾ These skills include the development of organization skills, expansion of vocabulary, and grammatical structures. Students will be assigned in-class and out-of-class reading and writing activities. Repeatable. PR: ESLG 0052.

ESLG 0063 Intermediate Speaking and Listening ..... 3 hrs.

This course builds on ESLG 0053 to help students improve their speaking and listening abilities in English. The course continues the informal discussion of topics and the speaking assignments students were introduced to in ESLG 0053.Repeatable. PR: ESLG 0053.

ESLG 0064 Intermediate Grammar Studies..... 3 hrs.

This content-based grammar course, designed for students who are preparing to enter American colleges and universities, builds on ESLG 0054. The class centers on deepening students' grasp of English grammar through listening, speaking, reading, and writing activities. Students are introduced to complexity, such as the perfect tenses. Additionally, students focus on TOEFL grammar. Repeatable. PR: ESLG 0054.

ESLG 0065 Intermediate Vocabulary and Pronunciation..... 3 hrs.

This course develops the spoken communication skills necessary for college-level study. Students improve the important skills of pronunciation -- stress, vowel reduction, length, phonetics, rhythm, timing, and intonation.¾ Vocabulary studies build upon those from ESLG 0055. Speaking topics are designed to allow students to apply the content, language, grammar, and style they have practiced in their texts and cassettes. Repeatable. PR: ESLG 0055.

ESLG 0066 Intermediate TOEFL Strategies ..... 3 hrs.

This course continues the building of skills begun in ESLG 0056 to prepare international students for TOEFL. The course strengthens the

techniques students learned in ESLG 0056 for TOEFL. The class aims to consolidate students' language skills so that they will be successful at the University. Repeatable. PR: ESLG 0056.

ESLG 0067 Intermediate American Culture .....3 hrs.

This course builds on ESLG 0057 to help new and experienced ESL students become more comfortable with American culture focus. Topics focus on the psychosocial aspects of coping with a new culture and language. Repeatable. PR: ESLG 0057.

ESLG 0071 Advanced Academic Reading.....3 hrs.

Students learn the skills necessary to comprehend academic texts, news articles, and essays.¾ They also read two full-length novels for sustained practice and development.¾ Discussions, vocabulary dynamics and writing develop skills in: the comprehension of main ideas, details, and inferences. Repeatable. PR: ESLG 0061.

ESLG 0072 Advanced Composition .....3 hrs.

This is a continuation of ESLG 0062. The course covers all aspects of subordination for improved clarity of ideas and stylistic variation in writing. The course includes an introduction to research and documentation. Students are encouraged to bring to class for "workshopping" specific problems in writing from other courses. Repeatable. PR: ESLG 0062.

ESLG 0073 Advanced Speaking and Listening .....3 hrs.

This course reinforces the speaking and listening skills students developed in ESLG 0063. The course aims to have international students ready to participate in college-level courses with native speakers of English. Repeatable. PR: ESLG 0063.

ESLG 0074 Advanced Grammar Studies .....3 hrs.

This content-based grammar course, designed for students who are preparing to enter American colleges and universities, completes the ESL grammar sequence. The class strengthens students' grasp of English grammar through listening, speaking, reading, and writing activities. The course reinforces and builds on skills students gained in ESLG 0064. Additionally, students focus on TOEFL grammar. Repeatable. PR: ESLG 0064.

ESLG 0075 Advanced Vocabulary and Pronunciation

Vocabulary development, facility with idiomatic expressions, and thematic coherence are emphasized. The course focuses on the ability to express oneself clearly, with maximum comprehensibility continues from ESLG 0065 with advanced study in stress, vowel reduction, length, phonetics, rhythm, timing, and intonation.¾ Vocabulary development, facility with idiomatic expressions, and thematic coherence are emphasized. Repeatable.PR: ESLG 0065.

ESLG 0076 Advanced TOEFL Strategies .....3 hrs.

This course helps international students consolidate skills acquired ESLG 0066 so that they can be successful on TOEFL. Using techniques related to various sections of TOEFL, the course prepares students to be successful in study at the University. Repeatable. PR: ESLG 0066.

ESLG 0077 Advanced America Culture ..... 3 hrs.  
 This course builds on ESLG 0067 to help new and experienced ESL students to consolidate their familiarity with American culture. Both practical and psychological aspects of adjusting and assimilating to American culture are reinforced. Repeatable. PR: ESLG 0067.

## FINANCE

FINC 3307 Personal Finance ..... 3 hrs.  
 A study of the problems a consumer must face in his or her day-to-day buying and living. It includes a brief survey of budgets, life insurance, investments, managing personal finance, buying services and other consumer issues. PR: BSBA 2221, BSBA 2212.

FINC 3315 Venture Finance ..... 3 hrs.  
 A study of capital markets and sources, with particular emphasis on the development of skills and resources required to obtain the financial capital for entrepreneurial ventures. Major topics include attracting seed and growth capital from sources such as individuals, venture capitalists and institutional financiers. Case analyses present various ways that entrepreneurial companies have creatively identified, negotiated and structured financing. Students will prepare a financial proposal for the funding of an entrepreneurial venture. PR: MGMT 3350.

FINC 3350 Investments..... 3 hrs.  
 This is an introductory survey course covering the broad field of investments, with a descriptive rather than quantitative approach. There is substantial emphasis on terminology and vocabulary, and the course covers fixed- and variable-return investments, options and futures, markets and brokerage operations, portfolio theory and analysis and real estate investments. PR: BSBA 2221.

FINC 3384 Bank Management..... 3 hrs.  
 This course examines the principles and practices of contemporary bank management. It covers the various aspects of bank organization and operation, capital formation and utilization, asset/liability management, planning, law and regulation, internal control, competition and deregulation, the evolution of banking and some selected current issues in banking. PR: BSBA 2221.

FINC 3385 Analyzing Financial Statements ..... 3 hrs.  
*Writing Intensive*  
 This course provides the student with the necessary techniques and tools to evaluate the financial condition and operating

performance of a modern business. It will cover the terminology of financial analysis, horizontal and vertical analysis, financial ratios, pro-forma statements, funds flow analysis, break-even analysis and other analytical tools. PR: ENGL 1102, BSBA 2221, BISM 2200.

FINC 4410 Managerial Finance .....3 hrs.  
 This advanced course is designed to extend the coverage of the field of corporate finance, with emphasis on capital budgeting, risk, capital structure and dividend policy and financing decisions. Special topics covered will include mergers and acquisitions, financial distress and international corporate finance. PR: BSBA 3310, , FINC 3350.

FINC 4412 PC Applications for Managerial Finance .....3 hrs.  
 This course is designed to enable students to master the concepts and techniques of corporate finance using PC applications. The course will be taught in the computer lab, making extensive use of spreadsheet models and templates. The effect of policy will be measured and analyzed, and problems solved through the use of multiple case studies. Topics to be covered include financial analysis, financial forecasting and planning, capital budgeting and cost of capital. PR: FINC 4410.

FINC 4998 Undergraduate Research .....0-6 hrs.  
 Undergraduate research is an experiential learning activity that provides an opportunity for a student to engage in the scholarly activities of their major discipline under the guidance of a faculty mentor who will work in close partnership with each student in his or her formulation of a project, the development of a research strategy, and the assessment of a student's progress. The primary goal is for each student scholar to conduct an inquiry or investigation that makes an original, intellectual or creative contribution to their discipline and which is shared in an appropriate venue. Sophomore-Senior Level, Repeatable. Instructor approval required.

## FOLKLORE STUDIES

FOLK 2200 Introduction to Folklore.....3 hrs.  
 This course is an introduction to conceptual foundations in folklore, such as its social base, tradition, folklore and cultural history, folklore as projection, genre, function, structure, text and context, through a historical and philosophical survey of approaches to folklore topics. Emphasis will be placed on the Appalachian cultural perspective. A field study lab of one hour will accompany this course.

FOLK 2201 Lab Field Research/Oral History Techniques ..... 1 hr.  
 This lab must be taken along with Introduction to Folklore before any of the other courses in the program. It is a study of the theories, techniques and procedures of field research as they apply to all folk

study genres, along with the legal and ethical considerations, uses and planning of local oral history projects.

FOLK 2150 Folk Arts..... 3 hrs.

This studio course is designed to give students a hands-on learning approach to the historical understanding and making of traditional/historical folk arts. Various materials will be used including fiber, wood, metal, paper, natural materials, and more to explore weaving/quilting, carving, tinsmithing/metal tooling, marbling/book binding/band box construction, doll making, and other traditional folk arts and crafts. An element of research will also be included in this course. This course, as a component of the Museum Studies program, will emphasize the application of folk art making skills to that of museum interpretation. Also listed as MUSM 2150.

FOLK 3300 Folk Literature ..... 3 hrs.

This course is an analysis of the components and genres of oral folk literature through poetry (the folk song, ballad and instrumentation), narrative (myths, legends, folktales, fables, morals, anecdotes, personal narratives and other forms of folk narrative), and language (verbal lore, such as dialect/accent, beliefs and superstitions, proverbs, sayings, riddles and jokes) within the contextual process of perpetuation (storytelling) and preservation (collecting and motifying). Emphasis will be placed on the Appalachian cultural perspective. A field study will be part of the course. Also listed as ENGL 3387. PR: ENGL 1102.

FOLK 3301 Material Culture ..... 3 hrs.

A study of the tangible evidence of civilization, through the perspective of the Appalachian culture. Material culture is presented within the context of folklife and traditional craftsmanship, including crafts, art, traditional foodways, clothing, tools and technology. Students will examine the study of material folk culture from various methodological and theoretical perspectives, including artifactual analysis and fieldwork. Also listed as MUSM 3301.

FOLK 3302 Regional Cultural Geography and History ..... 3 hrs.

A study of regional personality through the relationship and attitudes of people to land and land use, along with migration patterns, archaeological perspectives, behavior and popular customs. In a field study, archival techniques and research will be examined.

FOLK 3320 The Art of Storytelling in Theory and Practice .... 3 hrs.

The emphasis of the course will be on both the theory and research related to storytelling and the art of storytelling as performance. In this performance-based course, students will select, craft, rehearse and perform stories suitable to a variety of audiences. Students enrolled in this course are required to attend

the National Storytelling Festival in Jonesborough, Tennessee. Also listed as THEA 3320 and COMM 3320.

FOLK 3350 Roads to Appalachia Study Abroad .....3 hrs.

"Roads to Appalachia Study Abroad" is one of our primary educational programs that offers college students, educators, and community members opportunities to study and travel to parts of the world from which the populations of Central Appalachia has taken its cultural roots. "Roads to Appalachia" has featured research, study, and travel to such areas as Scotland and Ireland, Italy, England and Wales, Eastern Europe, and the Germanic Regions of Belgium/Southern Germany/Northern Switzerland. "Roads to Appalachia Study Abroad," FOLK 3350, is a course is designed to support an approximate two-week travel study to a selected cultural region. The course will study the historical and cultural context, geographical / geological and natural features, architectural landmarks and historical monuments, regions and cities, museums and galleries. Cultural and historical awareness (classical and traditional) will be emphasized through the study of the selected countries' folklore / folklife; regional, social, political, and religious history; geography, folk arts and crafts; costumes and dress; traditional life living museums; sources of the folk tales; architecture; traditional food; and folk music (song, instruments, and dance). Study will rely on texts, films, guided discussions, guest lectures, culinary tastings, and student research and presentations.

FOLK 3361 Introduction to Folk Music .....3hrs.

Introduction to Folk Music is an elective course focused on the combination of historical events that resulted in the major early settlement of the Appalachian Mountains, the music and instruments connected with the people who lived in those mountains, the interaction of their music styles and cultures, and the unique music that emerged and eventually birthed much of the music heard today. It is an interactive class that uses traditional oral methods to learn and play songs on a heritage instrument in both individual and jam sessions. No prior experience or musical knowledge is required and mastery of the instrument is not difficult. Cross-listed as MUSI 3361.

FOLK 4400 Directed Folklore Study .....3-6 hrs.

This course provides intensive study, reading, and research of a folklore topic selected by a student with an opportunity to mentor with a specialist in the field. Topics will be interdisciplinary, such as the following: Appalachian (Regional/Written) Literature, Ethnography and Process of Storytelling, Urban and Popular Culture, Children's Folklore, Traditional Folk Music (Vocal and Instrumental), Appalachian African-American Lore, Rural Education, Arthurian Legend: Comparative Folk Literature Study, and Vintage Clothing Preservation. Note: If an existing course is available on campus reflecting any of these topics, a student may opt to take it,

with the approval of the Folklore Studies advisor. The West Virginia Folklife Center at Fairmont State and the Folklore Studies advisor will also help students to network with specialists in the community. This course is for seniors only.

FOLK 4401 Folklore Applications..... 3 hrs.

An analysis of the various areas of folklore application, ranging from teaching/pedagogy, museum interpretations, and publications to the care, interpretation and presentation of artifacts. An internship and/or individual project will conclude the course. PR: All other courses in the minor program. This course is for seniors only.

FOLK 4998 Undergraduate Research..... 0-6 hrs.

Undergraduate research is an experiential learning activity that provides an opportunity for a student to engage in the scholarly activities of their major discipline under the guidance of a faculty mentor who will work in close partnership with each student in his or her formulation of a project, the development of a research strategy, and the assessment of a student's progress. The primary goal is for each student scholar to conduct an inquiry or investigation that makes an original, intellectual or creative contribution to their discipline and which is shared in an appropriate venue. Sophomore-Senior Level, Repeatable. Instructor approval required.

## FORSENSIC SCIENCE

FORS 2201 Introduction to Forensic Science. .... 4 hrs.

This activities-based course is designed to engage students in the scientific study of collecting and analyzing physical evidence. Students will be involved in 3 hours of lecture/discussion and a 3 hr lab session each week. Students will experience a variety of comparison science procedures to analyze such things as fingerprints, blood, ink, soils, textiles, glass, drugs, tool marks, and ballistics. The culminating experience will engross students in solving a mock crime using techniques learned during the course. Fall semester only.

FORS 2225 Trace Evidence and Microscopy. .... 3 hrs.

This course is designed to teach students how to properly evaluate and compare impression evidence and apply forensic microscopy of unknown materials. Students will analyze various hair, fibers, glass, paint, and soil using microanalysis. This course is hands-on providing extensive experience with microanalysis. PR: CHEM 2200 and MATH 1540 or higher.

FORS 3201 Forensic Biology ..... 4 hrs.

This course will expose the student to the procedures of searching and processing crimes scenes and analyzing biological evidence in the field and in the lab. Examples of evidence examined in this

class will include blood typing, toxicology, antigen/antibody reactions, blood spatter, entomology, bone, body fluids, and basic DNA fingerprinting. The culminating lab experience will engross students in solving a mock crime using biological techniques learned during the course.

PR: FORS 2201 with a C or better.

FORS 3215 Fingerprint Analysis..... 2 hrs.

Fingerprints play a large role in forensic science. The course explores different techniques and methods to capture and analyze fingerprints. Students will learn advanced techniques in latent fingerprints, lifting fingerprints, and preparation of fingerprints in a forensic setting, as well as factors that may affect fingerprint analysis. PR: FORS 3200 with a C or better or permission.

FORS 3225 Forensic Taphonomy..... 2 hrs.

This 8-week course investigates human taphonomy with an emphasis on forensics. We will focus on the process of decomposition, burial, and re-exposure of individuals. This course will look at how taphonomy alters evidence during forensic investigations. FORS 3200 with a C or higher.

FORS 3301 Human Osteology..... 4 hrs.

This course introduces methods and concepts used to analyze human skeletal remains in forensic and archaeological contexts. Osteology is a hands-on course providing a basis for advanced studies such as: comparative anatomy, forensic anthropology, bioarchaeology, paleoanthropology, and gross anatomy. Students will learn standard osteological analyses using real human remains. The course will consist of hands-on lectures and mostly independent laboratory activities. In this course students will learn: 1) how to identify whole and fragmentary human skeletal remains, 2) how to distinguish between human and non-human bone, and 3) how to estimate age, sex, ancestry, and stature of an individual. PR: BIOL 1106 with a C or higher

FORS 3305 Forensic Anthropology..... 4 hrs.

This course provides a broad overview of the sub-discipline forensic anthropology. Forensic anthropology applies human osteology to a legal setting. In this course students will build on previously learned human osteology by applying it to scenarios such as, mass disasters, human rights, and trauma. Students will learn how to differentiate between comingled remains and fragmentary remains. This course will also give a brief overview of human decomposition as it leads to skeletal identification and time since death. This course will consist of hands-on laboratory activities. PR: FORS 3200 with a C or higher.

FORS 3310 Forensic Toxicology..... 4 hrs.

This course focuses on aspects of drug chemistry with an emphasis in forensics. Students will learn standard analytical testing techniques. This course will also focus on how forensic toxicology

relates to pharmacokinetics and metabolism, drug abuse, postmortem toxicology, and driving under the influence of alcohol and drugs. We will address mechanisms of drugs and toxins with their physiological and pathological consequences. PR: CHEM 2200, FORS 3200 with a C or higher.

FORS 3385 Research in Forensic Science ..... 3 hrs.  
 This course is designed for students to explore a subdiscipline of forensic science of their choosing in more detail. Students will work with the instructor to design a relevant independent project that they will conduct. Students will write a summary report of their research project that includes a thorough literature review of the investigated topic. PR: Junior or Senior status

FORS 4401 Capstone Seminar in Forensic Science. .... 3 hrs.  
 Designed to help students synthesize and apply, in a forensic science context, the approaches, knowledge and skills acquired in criminal justice, biology, chemistry, mathematics and physics courses. The course structure consists of student-driven case studies and discussions from recent literature, student presentations describing internship experiences and an explicit formal introduction to established professional and laboratory practices in forensic sciences, including ethics. PR: INTR 4411.

FORS 4411 Forensic Science Internship..... 2 hrs.  
 This course provides a practical experience for junior or senior forensic science majors who are planning on careers in forensic science or related fields. The internship program offers the student an opportunity for observation of practitioners at work, as well as involvement in the day-to-day operation of a forensic science agency. Students participate in guided observation and activities and complete a reflection paper and log of the internship hours as well as other course requirements. Students will be engaged for a minimum of 85 hours with the participating agency that has been approved by the Forensic Science Program Coordinator. PR: Junior status or Senior status.

## FRENCH

FREN 1101 Elementary French I..... 3 hrs.  
 This introductory course covers pronunciation, oral comprehension and speaking, reading and written drill and composition and elements of grammar. Laboratory.

FREN 1102 Elementary French II ..... 3 hrs.  
 Continuation of 1101, completing the basic grammatical principles. PR: FREN 1101.

FREN 1199 Special Topics in French..... 1-12 hrs.

Studies in special selected topics, to be determined by the instructor and approved by the chairperson. Credits earned will be applicable as free electives in degree and certificate programs.

FREN 2201 Intermediate French I.....3 hrs.  
 A course designed to reinforce and increase knowledge of vocabulary and grammar. The course consists of extensive reading, review of grammar and continued attention to pronunciation and speaking. Engaging reading materials, such as short stories, are emphasized. Laboratory. PR: FREN 1102.

FREN 2202 Intermediate French II .....3 hrs.  
 The continuation of FREN 2201. PR: 2201.

FREN 2220 Intermediate Topics in French .....3 hrs.  
 A diversified study of the daily life and environment of present-day France and French-speaking peoples, placed in relation to the language. Emphasis is on a realistic, practical approach to language use. Work is individualized to fit the language-level and interest of the student.

FREN 3310 Advanced Topics in French .....3 hrs.  
 Supervised independent study reflecting the student's needs and interests.

FREN 3311 French Composition and Conversation I .....3 hrs.  
 This course covers writing, conversation and aural comprehension, with extensive use of audio-visual aids. Emphasis on practical proficiency, grammar, vocabulary building, and phonetics. PR: FREN 2202.

FREN 3312 French Composition and Conversation II .....3 hrs.  
 Parallel course to FREN 3311, with content emphasizing French civilization and culture. PR: FREN 2202 or equivalent. Note: 3311 and 3312 may be taken in any order.

FREN 3314 French Civilization and Culture.....3 hrs.  
 A study of France's basic historical development and significant contributions to civilization, its outstanding figures, its geography, traditions, contemporary social patterns, legends, songs, and influence on the United States. The instructional method emphasizes French conversation and extensive use of tapes, slides, and motion pictures. PR: FREN 2202.

FREN 3321 Contemporary Literature.....3 hrs.  
 This course focuses on outstanding writers of the twentieth century, such as Camus, Ionesco, Proust and Sartre. Emphasis is on reading comprehension. PR: FREN 2202.

FREN 3326 Media Studies in French .....3 hrs.

This upper-level course is taught in French to increase proficiency in language and culture. Students examine main currents in media from the Francophone world, building to develop a comparative study of a particular topic and related ideas expressed through media in different countries. Suitable for French minors and those with previous experience in French. See instructor for questions

FREN 4411 Advanced French Composition and Conversation ..... 3 hrs.  
*Writing Intensive*

In this course, students will develop writing and conversational skills and aural comprehension on an advanced level, with extensive use of audio-visual aids. Emphasis is on attaining a high level of proficiency in grammar, vocabulary and pronunciation. This should be taken as late as possible in the sequence of courses. PR: ENGL 1102, FREN 3312.

FREN 4420 Francophone Cultures in the Americas..... 3 hrs.

Students work to understand the cultural and social context of regions of North and South America and the Caribbean where French is spoken, through a study of creative productions from these regions, such as film, music, and storytelling. This course provides a frame of reference to build meaningful relationships with and within Francophone communities in the Americas. Suitable for students in a wide variety of majors, and for students with no previous French experience. Taught in English.

FREN 4426 Main Currents of French Literature and Culture 3 hrs.

A coordinated study of French literature and culture from a thematic and unitary standpoint. The main and unique currents of French contribution to world civilization are distinguished. Texts are taken from the Middle Ages to the Modern period, with selections from all genres. PR: FREN 2202.

FREN 4431 Methods and Materials in Teaching French..... 3 hrs.

Study and practice in teaching French language and literature, grades 5-Adult.

FREN 4998 Undergraduate Research ..... 0-6 hrs.

Undergraduate research is an experiential learning activity that provides an opportunity for a student to engage in the scholarly activities of their major discipline under the guidance of a faculty mentor who will work in close partnership with each student in his or her formulation of a project, the development of a research strategy, and the assessment of a student's progress. The primary goal is for each student scholar to conduct an inquiry or investigation that makes an original, intellectual or creative contribution to their discipline and which is shared in an appropriate venue. Sophomore-Senior Level, Repeatable. Instructor approval required.

## GEOGRAPHY

GEOG 1199 Special Topics in Geography ..... 1-12 hrs.

Studies in special selected topics, to be determined by the instructor and approved by the chairperson. Credits earned will be applicable as free electives in degree and certificate programs.

GEOG 2210 Introduction to Geography ..... 3 hrs.

An introduction to the physical and cultural elements of geography, with a study of major geographical regions of the world.

GEOG 3305 Economic Geography ..... 3 hrs.

A geographic study of the production, consumption and exchange of goods by people throughout the world. Consideration is also given to spatial variations and influences of the natural environment and culture.

GEOG 3315 Urban Geography ..... 3 hrs.

A study of urbanization process, including origin, growth, function, spatial patterns, structure and hierarchical arrangement of urban centers. Students will also examine urban problems, with special references to American cities.

GEOG 3330 Geography of North America ..... 3 hrs.

A course in regional economic geography, primarily of the United States and Canada, from the standpoint of humanities activities in relation to their natural surroundings and resources.

## GEOLOGY

~ GEOL 1101 Physical Geology..... 4 hrs.

This course is an introductory study of the materials, structures and forces in the earth. Topics include weathering, hydrology, glaciers, earthquakes, landslides, and volcanoes; students will also examine the physical and chemical processes that contribute to the earth's changing form and shape. Both surface and internal processes are covered, with emphasis on the interaction between these processes, including the theory of plate tectonics. Three hours of lecture and two hours of lab per week. Lab includes field trips.

~ GEOL 1102 Historical Geology..... 4 hrs.

An introduction to the history of the earth from its origins to the present day. The evolution of the earth's oceans, ocean basins, atmosphere and life forms are also studied. The study of past life and continental position in geologic time is based on the interpretation of fossils, rocks, continental drift and plate tectonics. Three hours of lecture and two hours of lab per week. PR: GEOL 1101.

GEOL 2300 Environmental Geology..... 4 hrs.

This course explores the application of geologic principles to everyday environmental problems. The three segments of the course cover geological hazards, including landslides and earthquakes; the effects of geology and geochemistry on human health; and effects of human activities such as mining and energy production on Earth and its inhabitants. Three hours of lecture and two hours of lab per week. PR: GEOL 1101.

GEOL 1199 Special Topics in Geology ..... 1-12 hrs.

Studies in special selected topics, to be determined by the instructor and approved by the department chair. Credits earned will be applicable as free electives in degree and certificate programs.

## GEOSCIENCE

GEOS 1199 Special Topics in Geoscience..... 1-12 hrs.

Studies in special selected topics, to be determined by the instructor and approved by the department chair. Credits earned will be applicable as free electives in degree and certificate programs.

GEOS 2200 Oceans and Climate..... 4 hrs.

The Oceans and Climate course uses relevant ocean issues to teach oceanography and climate concepts. Teacher candidates are exposed to the integrated nature of the science involved in understanding ocean issues. Project-based learning modules explore student understanding of ocean issues, promote ocean science literacy, explore impacts on the ocean and/or terrestrial environment, and require application of content knowledge to complete authentic assessments designed to suggest solutions for societal needs. (Students completing this course may not receive credit for both SCIE 2200 and GEOS 2200). PR: GEOL 1101, BIOL 1105

GEOS 2201 Exosphere..... 4 hrs.

This course is designed to provide elementary education majors with an understanding of the interrelationships of matter and energy, and the earth in space. The Exosphere theme will focus primarily on astronomy and physics, while incorporating topics in earth science and biology. Class periods will be structured around the three-stage learning cycle, modeling constructivist teaching methods. Four hours of lecture/ discussion/activities per week. PR: BIOL 1104 with a C or better and admission to Elementary Education. Fall semester only.

GEOS 2202 Geosphere..... 4 hrs.

This course is designed to provide elementary education majors with an understanding of the dynamic earth and its matter.

Students will primarily focus on earth science and chemistry topics, while integrating biology concepts and physics topics such as balanced and unbalanced forces, magnetism, friction, wave propagation and structure. Four hours of lecture/discussion/activities per week. PR: BIOL 1104 with a C or better and admission to Elementary Education. Spring semester only.

GEOS 3100 Informal Science Field Experience..... 1 hr.

The informal science field experience course provides students with the opportunity to teach as informal science educators to provide unique learning environments to increase appreciation and understanding of science. Students will participate in informal science training, deliver science presentations designed to deepen K-12 student understanding of science, showcase West Virginia science & engineering, and encourage K-12 students to pursue future careers in STEM fields.

## GRAPHICS TECHNOLOGY

GRFX 1111 Imaging I Foundations ..... 3 hrs.

This is an introductory course that presents vector and raster graphics as the two primary formats for developing imagery for visual communication. The course focuses on the use of current industry software to create finished artwork that is suitable for use in professional visual design/communication pieces. Students are expected to work in the computer lab outside of class hours to develop their skills. PR: NONE

GRFX 1113 Multimedia Concepts ..... 3 hrs.

Basic techniques of computer presentation and multimedia will be covered. Students will use introductory software for the creation of digital animation, motion, and multimedia. Activities include exercises using Microsoft PowerPoint, Apple QuickTime, and still and motion digital video capturing.....

GRFX 1199 Special Topics in Graphic Communications . 1-12 hrs.

Special topics will be studied, to be determined by the instructor and approved by the school's dean. Credits earned will be applicable as free electives in degree and certificate programs.

GRFX 1220 Master Document / Design ..... 3 hrs.

Master Document / Design emphasizes visual problem-solving skills and personal productivity concepts using industry standard computer software. Course includes an introduction to computer graphics software using the following Adobe Creative Suite software: InDesign as a "master document," Photoshop, and Illustrator. PR: GRFX 1111

GRFX 1222 Internet Animation ..... 3 hrs.

This course is an introduction to basic techniques of computer animation and presentation for multimedia and internet and interactive training applications. PR: None.

GRFX 2121 Graphic Design I Foundations ..... 3 hrs.

This introductory course develops fundamental visual concepts through a series of assignments that include visual analysis and development of two-dimensional media for communicating information. Course includes an introduction to computer graphics software. PR: GRFX 1220

GRFX 2123 Photography I Foundations ..... 3 hrs.

This is an introductory photography course with an emphasis on digital media. The basic tenants of photographic composition and technical development will be presented and students will be assigned work to demonstrate their use of these techniques. Photography as a multi-media tool to communicate visual meaning applied to print, journalism, and web design will be explored. PR: NONE

GRFX 2125 History of Graphic Design ..... 3 hrs.

This course is a broad survey of the history of graphic design to develop a fundamental understanding of the subject through presentation and discussion. Open to graphic design technology majors and permission of instructor. PR: NONE

GRFX 2203 Introduction to Game Principles ..... 3 hrs

This course is an introduction to basic principles of interactivity and game design. Asset creation, event handling, scores, displays, and sequencing are covered. Cross-listed as COMP 2203. PR: GRFX 1113

GRFX 2220 Information Graphics ..... 3 hrs.

This course is an intermediate course that develops a systematic approach to translating raw data into clearly understandable information. Typographic and/or visual elements such as icons will be organized structurally for the viewer to "read" the information with the intended visual meaning. The typographic organization of diagrams, charts and graphs are used to translate data into images with understandable visual meaning. Open to graphic design major students only. PR: GRFX 1111

GRFX 2222 Typography I Foundations ..... 3 hrs.

Typography, as a broad study, has been defined as "the art of printing from moveable type, including the skilled planning of typeface and size, composition, and layout, to make a balanced and attractive whole." This course is an introductory to intermediate course that develops a fundamental understanding of typographic organization through the exploration of assigned studies and professional applications. PR: GRFX 1220

GRFX 2299 Special Topics in Graphic Communications . 1-12 hrs.

This course will provide an opportunity for students to further their study of principles and concepts in the field and to apply their knowledge in a variety of applications both in the traditional classroom setting and in work/job related experiences. The class will be an individualized, arranged course, with learning outcomes determined by the instructor in consultation with the student and permission of the school's dean.

GRFX 3131 Motion Graphics I .....3 hrs.

This course introduces the fundamentals of 3D modeling and related technology, along with application specific to the design of content for entertainment, gaming and character development. PR: GRFX 1222

GRFX 3133 Typography II Branding & Identity Design.....3 hrs.

This is an intermediate to advanced course that develops a systematic approach to typographic organization through the exploration of assigned studies and professional applications. A review of historical developments and current applications are included as well as the use of systems in typographic communication. Open to graphic design major students only. PR: GRFX 2222

GRFX 3230 Interactive and Multimedia Design .....3 hrs

Introduction to multimedia authoring. Students will design and publish interactive content employing a variety of native file formats. PR: GRFX 1222

GRFX 3232 Photography II Studio & Video Tech .....3 hrs.

This is an intermediate to advanced photography course that will include commercial setups of products and portraits, studio lighting in a photo room with professional backdrops, photo-retouching techniques with industry-standard software, and the introduction of video and video-editing capabilities with computer software. PR: GRFX 2123

GRFX 3234 Multipage Documents and Design .....3 hrs.

Through lectures, demonstrations and studio work students develop and implement designs for multipage documents such as annual reports, magazines and view books. The relevance of typography to multipage documents will also be explored. PR: GRFX 2222

GRFX 4141 Graphic Design Senior Seminar .....3 hrs.

*Writing Intensive*

This course revolves around an examination of current topics in graphic design with conceptual and theoretical approaches for analyzing visual communication. Emphasis is placed on critical

reading, research and writing in a seminar atmosphere. Open to Graphic Design majors only. PR: ENGL 1102

GRFX 4143 Motion Graphics II ..... 3 hrs.  
An intermediate to advanced course in graphic motion that includes investigation of technology applications for current topics. Assignments are to be based on current graphic design topics in fields such as education, entertainment, science, or sports. PR: GRFX 3131

GRFX 4145 Exhibition Design & Development / Senior Show ..... 3 hrs.  
This course requires students to create a presentation suitable for installation at a museum venue. This may necessitate additional production processes and software dependent on the students' selection of presentation. Installations may include: interactive experiences, exhibitions, and e-learning. Students must mount a senior show. PR: GRFX 3230

GRFX 4240 Graphic Design. Applied Theory ..... 3 hrs.  
This course is a visual communications concept and production course based on the individualized research results from GRFX 4141 Graphic Design Senior Seminar. Emphasis is placed on appropriate selection of media, development of written and visual content, selection (with or without manipulation) or original creation of imagery, use of appropriate typographic approach, thoughts on intended audience and possible venue for the final product. PR: GRFX 4141

GRFX 4242 Career & Portfolio Development ..... 3 hrs.  
This course assists students with preparation and documentation of their work for assembling physical and digital portfolios. Emphasis will be placed on organizational and presentation skills in writing and designing their verbal and visual information into a cohesive portfolio. PR: GRFX 3230

GRFX 4244 Senior Internship ..... 3 hrs.  
This required course for the graphic design major is intended to afford each student the opportunity to gain practical work experience in the field. Each student needs to secure a working "contract" with a "client/sponsor" that will provide graphic design-related business activities. The client/sponsor should have a work environment that is suitable for a student to learn and contribute to his/her educational enrichment. PR: Instructor Approval, and GRFX 3230, and GRFX 4143

GRFX 4460 Game Design and Implementation ..... 4 hrs  
This comprehensive course in game design and implementation covers an analysis of the game engine technology and the implementation of artwork and custom

computational structure within a game engine framework. Cross-listed with COMP 4460. PR: COMP 1130, COMP/GRFX 2203.

GRFX 4998 Undergraduate Research .....0-6 hrs.  
Undergraduate research is an experiential learning activity that provides an opportunity for a student to engage in the scholarly activities of their major discipline under the guidance of a faculty mentor who will work in close partnership with each student in his or her formulation of a project, the development of a research strategy, and the assessment of a student's progress. The primary goal is for each student scholar to conduct an inquiry or investigation that makes an original, intellectual or creative contribution to their discipline and which is shared in an appropriate venue. Sophomore-Senior Level, Repeatable. Instructor approval required.

## HEALTH EDUCATION

HLTA 1100 Personal Health .....2 hrs.  
This course examines the meaning and significance of the physical, mental, social and environmental factors of health and safety as related to the individual and to society. Students will focus on important phases of related national problems, with an emphasis on college students and their current needs.

HLTA 1110 Nutrition .....3 hrs.  
This course is a study of the nutrients, their sources, and their relationship to body functions. Each stage of the life cycle will be studied as it relates to changing nutritional requirements for individuals and family groups of varying cultural and economic levels. Students will evaluate their daily nutritional intake against recommended daily allowances.

HLTA 1120 Nutrition in Childhood & Adolescence.....3 hours.  
This course will provide an overview of basic nutrition as well as nutrient standards used to evaluate nutrition status among Americans. Specific focus will include nutrition needs from pre-pregnancy through adolescence. Students will evaluate dietary guidelines, conduct a diet analysis, and complete a menu planning assignment for an individual between the ages of 2-18.

HLTA 1145 Sports Nutrition. ....3 hours  
This course will provide an introduction to sports nutrition including definitions of sports nutrition and general nutrition concepts, a review of digestion and energy metabolism, a thorough explanation of macronutrients, micronutrients, and water as they relate to athletic performance. The course will also review the most current research as it relates to the energy systems and specific nutrition needs of athletes in three categories - endurance, strength/power, and team sports.

HLTA 1150 Introduction to Health Education ..... 3 hrs.

This course provides an in-depth study of the varied content areas relating to health, contemporary health problems and reciprocal relationships involving man, disease and the environment focusing on developing the future health professional's ability to meaningfully convey it. Students will explore the significance/interrelationship of the dimensions of wellness. of the physical, intellectual, social, emotional, spiritual, and environmental domains of health.

HLTA 1155 Local Market Agriculture. .... 3 hours.

This course will cover topics in small farm viability and will explore the collaboration between farmers and chefs in supporting and promoting the local food market. In addition, students will examine local farmers' most common direct marketing opportunities. The student will be able to develop a farm to restaurant model, which will illustrate the importance of sharing the value of local foods.

HLTA 1199 Special Topics in Health..... 1-12 hrs.

Special topics will be studied, to be determined by the instructor and approved by the Department Chair or Associate Dean. Credits earned will be applicable as free electives in degree and certificate programs.

HLTA 2202 Environmental Health ..... 3 hrs.

This focuses on current environmental health issues such as population dynamics and interventions designed to modify the environment in order to improve human health in schools and communities as well as the impact of humans on their environment. An examination of the ramifications of decisions regarding management of environmental resources (i.e. air, water, forests, etc.), their impact on quality of life and the role of organizations/governmental agencies involved with pollution control will be undertaken.

HLTA 2203 Contemporary Drug and Behavior Issues ..... 3 hrs.

*Writing Intensive*

This course covers the identification, analysis, and evaluation of the most critical health problems confronting our society, including drug abuse and addiction. PR: ENGL 1108 with a letter grade of C or better.

HLTA 2210 Disease Etiology ..... 3 hrs.

This course is designed to provide students with content knowledge about the social and behavioral causes of disease and relationships to health. Disease types, diagnosis, methods of transmission, prevention, and treatment will be introduced. PR: HLTA 1150

HLTA 2215 Introduction to Foods. .... 3 hrs.

This course is a study in the selection, storage, preparation, and presentation of food. This three-credit hour course will investigate each of the following categories of food and apply knowledge gained to laboratory applications: Milk & Dairy Products; Meat, Poultry & Shellfish; Fruits & Vegetables; Grains & Starches; Breads; Desserts; & Beverages. Emphasis will be placed on meal planning, food safety, nutrient value, and quality in taste and appearance.

HLTA 2220 Diet Therapy..... 3 hrs.

This course discusses the nutritional needs of different age groups, the special nutritional requirements in various diseases and the planning of menus to meet these various nutritional needs. PR: HLTA 1110

HLTA 2250 Applications in Community & Medical Nutrition ..... 3hrs

This course will provide students with methods and practices necessary to access nutritional needs in client-oriented dietetic systems and community-oriented nutrition programs. Students will apply nutrition knowledge to the following: patient education, screening for nutritional risk, determining nutrient requirements across the lifespan, translating nutritional needs into food and menu choices, calculating body composition, and calculating diets for specific health conditions. PR: HLTA 2220.

HLTA 3310 School Health Content, Curricula & Programming ..... 3 hrs.

This course facilitates development of health education lesson building skills based on sound curricular design, contemporary needs and issues. Health education's diverse pedagogical content areas will be investigated; instructional strategies will be rehearsed. Development and expansion of students' professional health education teaching philosophy will include the impact of Whole School, Community, Child Program implementation in the school setting. PR: HLTA 2202, HLTA 2210, and Admission to Teacher Education.

HLTA 3315 Healthy Sexuality ..... 3 hrs.

This course is designed to help students examine the many facets of human sexuality including the design and physiology of the human reproductive systems and the biological and emotional motivations associated with the sexual aspects of life. Learning opportunities will require students to consider the sociological factors involved in defining and adopting sex-roles, their relationship and impact on marriage and family planning, and trends, issues, and content necessary to effectively evaluate and utilize sexuality education methods and materials. PR: HLTA 1150, sophomore standing or instructor approval.

HLTA 3320 Behavior Change Theory ..... 3 hrs.

Students in this course will examine theories, models, and constructs related to personal, environmental, and population-based health risk and health enhancing behaviors. PR: HLTA 2210.

HLTA 3325 Instructional Strategies and Planning in School Health .....3hrs.

This course is designed to cultivate the student's abilities to develop, plan and evaluate existing curricula, and to organize and plan an effective health education program based on the eight component Whole School Community, Child Programming model. Emphasis is placed on the development of Pre K-Adult curriculum and the design of outcomes-based, developmentally appropriate instructional units. PR: HLTA 3310.

HLTA 3330 Introduction to Epidemiology & Biostatistics .... 3 hrs.

This course is designed to introduce students to disease patterns in human populations. Basic statistical and data collection methods in health research will be identified. PR: HLTA 2210

HLTA 3345 Community Needs Assessment .....3 hrs.

Students will assess needs, assets, and capacity for health education in a community or public health setting. PR: HLTA 2210

HLTA 3350 Health Promotion & Program Planning..... 3 hrs.

Students will understand how health promotion enables people to maintain or improve health by: involving stakeholders, developing goals and objectives, designing strategies or interventions, creating an appropriate scope and sequence, and analyzing implementation factors. PR: HLTA 3345

HLTA 3355 Readings in Health Education .....2 hrs.

This course introduces the student to literature on current School Health research, issues, strategies, and problems in the K-12 public school setting. During this course, students will investigate, discuss and synthesize findings from current research useful in developing ideas for their culminating "action research" project. PR: HLTA 2202, HLTA 2210, and Admission to Teacher Education

HLTA 3360 Communication Techniques for Health Promotion .....2 hrs.

This course will prepare students to communicate and advocate for school and community health education by analyzing informational needs and available resources using a variety of communication tools and techniques. PR: HLTA 2210

HLTA 3390 Certified Health Education Specialist (CHES) Preparation. ....2 hrs.

This course serves as a review for the Certified Health Education Specialist (CHES) examination. Students will participate in class discussions, reflect on assigned readings, and take practice exams to access knowledge of the Areas of Responsibility for Health

Educators and application of the Seven Areas of Responsibility for Health Education Specialist. Co-requisite or Pre-requisite HLTA 3350.

HLTA 4400 Health Education in the Elementary School.....3 hrs.

This course is designed for senior education majors completing teaching specializations in Elementary Education or School Health Education. It focuses on specific health content areas and complementary teaching strategies related to the health and developmental needs of elementary school children. PR: EDUC 2260.

HLTA 4410 Public Health Seminar. ....3 hours.

The purpose of this course is to provide a framework for identifying public health policy issues. Practice-oriented tasks will be identified including: engagement in advocacy for health education/promotion by identifying current and emerging health issues; influencing policy and/or systems change to promote health and health education; and, promoting the health education profession. PR: Junior or Senior-level standing.

HLTA 4431 Methods & Materials in School Health Instruction .....3 hrs.

This course is designed for senior education majors completing a teaching specialization in School Health Education. It focuses on the application of instructional strategies, classroom management techniques, and performance-based assessment across different developmental levels in the public school setting. Students are encouraged to examine teaching scenarios, foresee potential stumbling blocks and problem-solve in a variety of ways. Practical experience in the public school setting is required. PR: HLTA 3310, HLTA 3325, and Admission to Teacher Education.

HLTA 4440 Health Research and Measurement Design .....3 hrs.

Principles of research and measurement including research ethics, instrument construction, designing a study and an examination of concepts and strategies involved with health education assessment. PR: HLTA 3320

HLTA 4445 Health Research Implementation ..... 3 hrs.

Students learn concepts of project management, data collection, analysis methods, and designs used in health promotion programs. PR: HLTA 4440

HLTA 4446 Funding & Administration of Health Promotion Programs. ....3 hrs.

Students will receive an introduction to securing and managing a health promotion grant. Students will practice writing a grant proposal and other administrative activities. Pre-requisite: senior standing, ENGL 1102 or higher, and MATH 1107 or higher.

HLTA 4451

Field Practicum in Community Health ..... 3 hrs.

This course is a semester-long experience working directly with a community agency during the student's last semester. Specific goals should meet the needs of the agency in collaboration with the student and the University coordinator. Expectations include: implementing, administering, or managing a health education project, and/or serving as a health education resource person. PR: HTLA 3345. This course is taken concurrently with HLTA 4452

HTLA 4452 Field Practicum in Community Health Portfolio ..1 hr.

This course is taken concurrently with HLTA4451 and consists of developing a portfolio which showcases the students' best work during the Field Practicum. The portfolio will be aligned with National Commission for Health Education Credentialing Areas of Responsibility. PR: HLTA 3345. This course is taken concurrently with HLTA 4451

HLTA 4998 Undergraduate Research.....0-6 hrs.

Undergraduate research is an experiential learning activity that provides an opportunity for a student to engage in the scholarly activities of their major discipline under the guidance of a faculty mentor who will work in close partnership with each student in his or her formulation of a project, the development of a research strategy, and the assessment of a student's progress. The primary goal is for each student scholar to conduct an inquiry or investigation that makes an original, intellectual or creative contribution to their discipline and which is shared in an appropriate venue. Sophomore-Senior Level, Repeatable. Instructor approval required.

## HEALTHCARE MANAGEMENT

HCMG 3301 Healthcare Organizations.....3 hrs.

Organization, current legislation and the roles and relationships of the health care professions are discussed in detail. Emphasis is placed upon roles of hospital management with emphasis on comprehensive health care in hospitals and extended care facilities. Responsibility of the health care agency regarding competent and responsible care of patients is defined. Organization patterns in health care agencies, as well as, contributions of health professionals and paraprofessionals in meeting human needs will be emphasized.

HCMG 3302 Management Problems of the Healthcare Delivery Systems.....3 hrs.

Health care system processes including outpatient and primary care services, inpatient facilities and services, managed care and integrated organizations, long-term care, and health services for special populations are defined and discussed. Regulations, legislation, growth, and decline of each health care service are emphasized. The future of health services delivery and related opportunities and issues are also discussed in detail.

HCMG 3372 Legal and Medical Ethics.....3 hrs.

This course is designed to acquaint the student with the legal and ethical responsibilities of the administrator involved in health care. Emphasis is placed upon legal issues, as well as, legal responsibilities and liabilities.

HCMG 3331 Health Information Exchange.....3 hrs.

This course introduces health information exchange (HIE), the electronic transfer of administrative and clinical information among healthcare organizations. Students examine strategic, organizational, legal, technical, and sociopolitical aspects of HIE initiatives in the U.S. and abroad, including their impact on healthcare quality, safety, efficiency, and financial sustainability. Emphasis will be placed on the organizational demands and healthcare user needs. It is designed to address issues related to the exchange of clinical data across multiple healthcare environments. Special focus is placed on current Federal and State health information technology standards, privacy and security regulations specifically related to the protection of patient information. Students will work in teams to discuss current trends and challenges, best practices for health information systems, and health information standards pertinent to the field of healthcare in order to create an HIE model. Student group work will include a submission of a detailed plan for a regional Health Information Exchange model as well as a PowerPoint or similar presentation summarizing the plan highlights. PR: HCMG 2201, HCMG 2221, and HCMG 2231.

HCMG 2221 Healthcare Finance.....3 hrs.

Financial management challenges are not just the responsibility of a chief financial officer in an organization. It is shared among managers and directors due to the increasingly complex environment of healthcare delivery in the U.S. This course provides an introduction to financial management, operating revenue, managing working capital, tax status, third-party payors and reimbursement methodologies, financial planning and capital budgeting in healthcare organizations. It also provides analysis of current healthcare reform and trends that will affect healthcare organizations in the future.

HCMG 2231 Population Health.....3 hrs.

This course provides an overview of health outcomes of geographic populations (communities, countries, etc.) as well as group populations (workforce, schools, ethnic groups, people with disabilities, prisoners, or others categorized by shared traits or issues). The health outcomes of such groups are of relevance to policy makers in both the public and private sectors. Population Health examines a diverse range of environmental, physical and cultural conditions that occur within populations. It considers the

outcomes influenced by these conditions and seeks policy or interventions to improve health and minimize health inequities in an efficient and affordable manner.

HCMG 2201 U.S. Healthcare Systems.....3 hrs.  
 This course is a survey of the major components that comprise the current U.S. healthcare system. It focuses primarily on historical perspectives, basic terminology describing settings and levels of care, utilization of services, how services are funded, vulnerable populations and future challenges for delivery of coordinated healthcare services. Students will evaluate current trends in management and delivery at various levels of the healthcare continuum from acute care hospital to medical home models. The course includes an understanding of major characteristics of U.S. health care delivery including Managed care and integrated systems, cost, access, and quality. The status and impact of the Affordable Care Act on all parts of the health care delivery system are reviewed.

HCMG 3333 Quality Management in a Regulatory Environment.....3 hrs.  
 Regulation shapes all aspects of America's health care industry, from the flow of tax dollars to the communication between physicians and patients. It is the engine that translates public policy into action. While the health and lives of patients, as well as almost one-sixth of the national economy depend on its effectiveness, health care regulation in America is ever-changing and complex. Government agencies at the federal, state, and local levels direct regulatory oversight of the industry, but other private organizations do so as well. This course focuses on the importance of quality management to achieve compliant regulatory, safety and efficiency goals in healthcare delivery. PR: HCMG 2201, HCMG 2221, and HCMG 2231.

HCMG 4400 Healthcare Policy.....3 hrs.  
 Health Care Policy is designed to provide an introduction to policy issues in healthcare including state and federal roles, the policy process and integration into healthcare systems management. This course explores underlying concepts, critical health policy issues, values and the American political process as they influence policy. Discussion will focus on four substantive areas that form the analytic basis for many of the issues in Health Policy Formulation and Management: need and demand; economics and financing; politics/ethics/law; and quality/effectiveness. PR: HCMG 2201, HCMG 2221, and HCMG 2231.

HCMG 4401 Healthcare Practicum and Seminar ..... 3 hrs.  
*Writing Intensive*

This capstone course includes both theory and clinical components. Students, in conjunction with their instructor and preceptor, will design an administrative field experience which will culminate in completion of the programs graduate outcomes. During the practicum experience the students will further develop management and leadership skills while interacting with middle managers in their selected fields and by conducting a change project within their agency. This Writing Intensive course includes journaling, online discussions, research papers, and PowerPoint poster presentation.

## HISTORY

~ HIST 1107 United States History I .....3 hrs.  
 Examines the major developments in American history, from pre-Columbian native American cultures to the end of the Civil War, with emphasis on the Colonial, Revolutionary, Early Republic and Civil War eras.

~ HIST 1108 United States History II.....3 hrs.  
 Examines the major developments in American history, from Reconstruction to the present with emphasis on the political, social, cultural, economic and diplomatic forces that contributed to America's emergence as the world's leading industrial democracy.

~ HIST 2211 World Civilizations I .....3 hrs.  
 An intermediate-level survey of worldwide historical developments, emphasizing major civilizations in pre-historic times, ancient empires and the early Middle Ages. Recommended for sophomores and well-prepared freshmen.

~ HIST 2212 World Civilizations II .....3 hrs.  
 An intermediate-level survey of worldwide historical developments, emphasizing major civilizations from the Middle Ages to the social, political, and industrial revolutions of the eighteenth century. Recommended for sophomores and well-prepared freshmen.

~ HIST 2213 World Civilizations III.....3 hrs.  
 An intermediate-level survey of worldwide historical developments from the French Revolution of 1789 to the present era, emphasizing major civilizations and the modern growth of global interdependence. Recommended for sophomores and well-prepared freshmen.

HIST 2250 The Historian's Craft.....3 hrs.  
*Writing Intensive*  
 The Historian's Craft is a Writing Intensive course designed to provide history majors with the skills necessary to write effectively and persuasively in the field of history, including familiarization with the Chicago-style of citation. Utilizing a workshop format, the

course will introduce students to different styles of historical writing and it will give students the opportunity to practice and hone their skills in identifying and summarizing historical arguments, engaging in critical analysis and review, conducting original historical research, and writing argument-based, research-driven papers. Restricted to History and Social Studies Education majors, or must have instructor's approval to register. PR: ENGL 1102 and sophomore standing.

HIST 3302 West Virginia ..... 3 hrs.  
This course covers West Virginia history, government and geography from the first settlements to the present time. PR: HIST 1107, 1108.

HIST 3305 History of National Security and Intelligence ... 3 hrs.  
An intermediate-level course on the origins, developmental milestones, important events and policies that shaped the United States' intelligence infrastructure. There will be discussion of national security policy and actions that have been implemented, and analysis of their effectiveness. This course will develop skills in research, editing, writing and presentation. Students will be required to research assigned topics, collect documentation, edit references, write an analysis of a proposed course of action, and support a recommended course of action in an oral briefing with graphic slides. The format of this course is designed to acquaint the student to the time-sensitive and volatile nature of collection, analysis, production and dissemination of intelligence information. (Same course as NSIS 3305).

HIST 3310 Diplomatic and Military History of the United States...3 hrs.  
Addresses the relations between the United States and other countries, and the development of basic American foreign policies from the colonial background to the super-power status of the present day. Students will pay special attention to war and its foreign-policy consequences. PR: HIST 1107, 1108.

HIST 3315 Colonial America ..... 3 hrs.  
Covers the American colonies from their beginnings to the end of the Revolutionary War. PR: HIST 1107.

HIST 3316 The Early Republic ..... 3 hrs.  
Covers United States history from the Revolutionary War to the close of the Mexican War. PR: HIST 1107.

HIST 3317 Civil War and Reconstruction ..... 3 hrs.  
This course examines the myriad causes of the Civil War, the social, economic, and political changes in the North and the South during the war, highlights key battles and campaigns, and explores the complex and difficult reunification and reconstruction of the

Union and the defeated Confederacy following the war. PR: HIST 1107.

HIST 3318 The Gilded Age to the Great Crash .....3 hrs.  
A history of the U.S. from 1877 to the attack on Pearl Harbor. Major topics include the Industrial Revolution, the labor movement, the New South, the Old West and Native Americans, the spoils system, populism, progressivism, World War I and the League of Nations, the Roaring Twenties, the Great Depression, the New Deal and the diplomatic crises of the inter-war years. PR: HIST 1108.

HIST 3319 Recent America Since 1941 .....3 hrs.  
Examines America's emergence as the leading world power. Topics to be explored will include World War II at home and overseas, the origins, rise and fall of the Cold War, the rise and fall of the liberal consensus, civil rights, feminism, Vietnam War and the anti-war movement and the new conservatism of the post-Nixon years. PR: HIST 1108.

HIST 3333 Women in American History .....3 hrs.  
Women in American History focuses on the pivotal roles women have played in American history from the pre-colonial era up to the present day. By placing women at the center of American history, the course demonstrates how the experiences of American women have decisively shaped American society, culture, politics, and economics throughout the nation's history in order to offer a more complete and complicated vision of the American past. With particular attention to the ways in which gender roles are historically constructed, students will investigate how women have worked within, and pushed against, various boundaries in order to exercise control over their lives and to gain greater equality in American society. PR: HIST 1107 or 1108.

HIST 3335 Women in World History .....3 hrs.  
This course examines the history of women around the globe by using a dual lens of gender and women's experiences from the ancient world to the present. Going beyond the fragmentary inclusion of women in world history this course focuses on women's experiences as central. Because women's lives have been defined by socially constructed ideas of gender this course includes an examination of how gender has defined women's experiences. Additional topics include, the roles and contributions of women around themes of family life, political engagement, their role in religion, economic production, education, and sexuality.

HIST 3340 Popular Culture in Modern American History ....3 hrs.  
With the guiding premise that popular culture illuminates underlying tensions and currents of thought in American society, Popular Culture in Modern American History utilizes revealing examples of commercial entertainments, including film, television,

music, radio, sports, comics, and literature in order to analyze key developments in modern American history. Viewing popular culture as a dialogical process between producers and consumers of entertainment, this course focuses on the interactions between marginal, subversive, and mainstream forms of popular culture in order to demonstrate how popular culture has been a democratic medium that has offered openings for cultural representation to marginalized groups in American history. PR: HIST 1107 or 1108.

HIST 3344 African-American History and Culture ..... 3 hrs.  
A survey of African-American experience in the United States, from the African cultural background and slavery through the present-day urban experience. PR: HIST 1107 or 1108.

HIST 3351 History of England ..... 3 hrs.  
This course covers England's history from Roman rule to the present day. PR: HIST 2211 or 2212 or 2213.

HIST 3352 History of Russia ..... 3 hrs.  
Development of the Russian people from the time of their appearance as a national entity, through the tsarist, imperial, revolutionary and Soviet eras to the present. PR: HIST 2211 or 2212 or 2213.

HIST 4405 History of Africa ..... 3 hrs.  
This course examines the history of Africa from ancient times to the present analyzing contending ideas about the history of Africa and Africans. Topics covered include the origin of humans, early empires, and religion in Africa. The impact of outside influences from the African Diaspora to Imperialism and the Cold War are an integral part of the course. Additionally, an examination of African art, literature, music, and food provide a balanced picture of the rich history of the African continent and its people. PR: HIST 2211 or 2212 or 2213.

HIST 4410 History of Asia ..... 3 hrs.  
This survey course examines the history of East Asia including the areas that comprise modern day China, Japan, Korea, Vietnam, and parts of Southeast Asia from antiquity to the present. The course addresses the complex development of early East Asian cultures in relation to each other, as well as how commercial, military, religious, diplomatic and cultural relationships combined with internal processes to influence the development of East Asian societies and their connection to the rest of the world. PR: HIST 2211 or 2212 or 2213.

HIST 4415 History of the Middle East: Muhammad to the Present ..... 3 hrs.  
History of the Middle East from Muhammad to the Present, surveys political and religious change in the Middle East from the time of Muhammad to the present. The course examines the

origins and tenets of Islam, military and political realities of Islamic empires, the structure of families, religious interaction, and Middle Eastern models of just rule. Embedded in these topics are examinations of religious sectarianism, intellectualism, philosophy and spirituality. Additional major topics include relations between the Ottoman Empire and Europeans; World War I and the peace settlement which defined states in the Middle East; Western-Middle Eastern perceptions of one another; the historical roots of the Israeli-Palestinian struggle; and the rise of nationalism and religious fundamentalism. The course puts current events in the Middle East in context and considers how the history of the Middle East speaks to what the future may hold for the global community. PR: Sophomore Standing, HIST 2211 or 2212 or 2213.

HIST 4420 History of Latin America ..... 3 hrs.  
Topics include conquest and colonial developments in South America, from Columbus to Latin America's role in contemporary perspectives. PR: HIST 2212 or 2213.

HIST 4425 Medieval Europe ..... 3 hrs.  
This course covers change and continuity in Medieval Europe from the fall of Rome in the 5th century to the Renaissance of the early 16th century. PR: HIST 2211 or 2212.

HIST 4429 Early Modern Europe ..... 3 hrs.  
Early Modern Europe will cover the history of Europe from 1500 to 1789, stretching from the Protestant Reformation to the beginning of the French Revolution. PR: HIST 2212.

HIST 4430 19th Century Europe ..... 3 hrs.  
This course will trace the history of Europe from the French Revolution in 1789 to the outbreak of the Great War in 1914. PR: HIST 2213.

HIST 4431 Recent Europe ..... 3 hrs.  
Recent Europe covers the history of Europe from the beginning of World War I in 1914 through to the present. Spring semester only. PR: HIST 2213.

HIST 4450 History of American Sexualities ..... 3 hrs.  
History of American Sexualities provides students with a comprehensive overview of how and why ideas related to sex and sexuality have evolved from the pre-colonial era in America up until the present. In exploring sexuality as a historically contingent sociocultural category of analysis, the course will focus on how ideas about sexuality have been historical linked to ideas about gender, biology, race, and class; how and why modern categories of "homosexuality" and "heterosexuality" came into existence; and, the impact of efforts to reform, regulate, or challenge societal perceptions of sexuality and sexual behavior. PR: HIST 1107 or 1108.

HIST 4455 Revolutions in History ..... 3 hrs.

A study of revolutionary thought and action as a force in world history since ancient times. Major topics include the American and French Revolutions of the eighteenth century, the Chinese and Russian Revolutions of the early twentieth century, and a sampling of more recent revolutionary movements in representative regions of the world. PR: HIST 2211 or 2212 or 2213.

HIST 4475 Philosophy of History ..... 3 hrs.

A survey of the philosophical systems, both speculative and analytical, that have been advanced to evaluate humanity's historical experience. Credit in either philosophy or history. PR: HIST 2211 or 2212 or 2213 or Philosophy 2200.

HIST 4498 Senior Seminar..... 3 hrs.

An identification, review, and historically-oriented synthesis of major concepts in the fields of geography, history, political science, psychology, sociology and economics. Required of history and Social Studies Comprehensive Education majors, but open to all. PR for history majors: senior standing. Fall semester only.

HIST 4499 Selected Topics ..... 3 hrs.

Advanced study of topics specially selected by members of the history faculty according to student demand. PR: Sophomore Standing and one (1) of the following courses: HIST 1107, 1108, 2211, 2212, or 2213.

HIST 4998 Undergraduate Research ..... 0-6 hrs.

Undergraduate research is an experiential learning activity that provides an opportunity for a student to engage in the scholarly activities of their major discipline under the guidance of a faculty mentor who will work in close partnership with each student in his or her formulation of a project, the development of a research strategy, and the assessment of a student's progress. The primary goal is for each student scholar to conduct an inquiry or investigation that makes an original, intellectual or creative contribution to their discipline and which is shared in an appropriate venue. Sophomore-Senior Level, Repeatable. Instructor approval required.

## HONORS

HONR 1100 Honors Seminar..... 1 hr.

This seminar introduces students to critical thinking in a number of disciplines and initiates them into the standards required by the Honors Program.

HONR 3301 Honors Study/Travel ..... 3 hrs.

The Honors study-travel course offers students the study of one of the world's great cities with a week-long immersion in that city.

Topics vary by instructor, but the course aims to show students the interconnections of art, language, literature, theatre, history, geography, geology, music, and economics that have contributed to the life and culture of the city. In class, students study the history, culture, and mass transit system of city. In city, they see plays and concerts, visit museums and historic sites, and learn to navigate their way through the city. The course helps students to see the influence of the past on the present and the evolving future. It seeks to develop in them skills they will need in order to explore first-hand cultures and civilizations outside their own. It encourages teamwork among those taking the course as they explore the city.

HONR 3330 Empowering Leadership ..... 3 hrs.

The purpose of this course is to help prepare students to assume increasingly responsible leadership roles of empowerment in their personal, professional and academic lives. This interdisciplinary, student-centered course focuses not only on significant theories of empowering leadership and their applicability to leaders of the past and present, but also includes substantial hands-on, experiential learning opportunities in which students practice empowering leadership. PR: ENGL 1101 (with a grade of a "C" or better).

## HUMAN SERVICES

HUSV 1100 Freshman Seminar..... 3 hrs.

This course is designed to acquaint entering freshmen with various academic, economic, and social aspects of college life and to teach students the skills necessary to succeed in college. In addition, this course would focus on building genuine relationships with people on campus by providing opportunities to engage in various college activities and to work with a Freshman Seminar facilitator, peer leaders and mentors.

HUSV 1103 Community Service Learning..... 1 hr.

Community Service Learning provides opportunities for students to perform meaningful service to the community while engaging in conscious reflection and critical analysis activities which meet service learning objectives. Students are required to complete a minimum of 20 hours of quality service for a non-profit agency. The hours are completed over the course of the semester with credit given for 2 hours a week. The course is based upon an experiential learning format which includes the college, the student, and the community.

Students may enroll in Community Service Learning three semesters, completing a total of 3 credit hours toward graduation requirements. Three sections of Community Service Learning are offered. Enrollment in the general section does not require instructor permission; however, enrollment in the honor's section and the America Counts' sections do require instructor permission.

HUSV 1199 Special Topics in Human Services..... 1-12 hrs.  
Students in special selected topics. The topic to be studied will be determined by the instructor and approved by the School's chairman. Credits earned will be applicable as free electives in degree and certificate programs.

## INTERDISCIPLINARY STUDIES

~ INTR 1120 Experiencing the Arts ..... 3 hrs.  
Introduction to appreciation of the arts through lectures/demonstrations by teachers in the visual arts, music and theatre. Organized thematically, the course offers an opportunity to explore relationships between various artistic media, as well as their relationships with other disciplines. The course will also consider the circumstances which have shaped these relationships and the ways in which contemporary culture conditions how we respond to and interpret art and performance today.

INTR 1150 Women's Studies Colloquium ..... 1-3 hrs.  
The Women's Studies Colloquium introduces students to issues and concerns surrounding women and women's studies through talks by invited experts on a broad range of topics. Repeatable for credit.

INTR 2200 Race, Class and Gender in Popular Culture ..... 3 hrs.  
This course examines the role and function of consumer and leisure life in the construction, interaction, and management of race, class, and gender identities within the United States. By identifying and analyzing how race, class, and gender positions inscribe and inform the values, ideas, and beliefs embodied by pop cultural productions and their consumption, students will learn to recognize and critique the politicized features that impact such everyday phenomena as TV shows, films, commercials, videogames, music videos, sports spectacles, magazine advertisements, fashion, toys, and the Internet. This course, therefore, will enable students to understand with greater clarity why we make the choices we do when acting as consumers of popular culture and how these choices reflect the race, class, and gender identities and values we knowingly or unknowingly ascribe to ourselves and others. PR: ENGL 1101 (with a grade of a "C" or better).

INTR 2201 Introduction to Women's Studies ..... 3 hrs.  
This interdisciplinary course focuses on a variety of topics in women's studies, such as gender and science, the body, reproductive technologies, public policy and feminist theory. Class discussions will examine positions among feminist ethicists on the implications of gender definition and explore the construction of gender in our society.

INTR 3330 Empowering Leadership ..... 3 hrs.  
The purpose of this course is to help prepare students to assume increasingly responsible leadership roles of empowerment in their personal, professional and academic lives. This interdisciplinary, student-centered course focuses not only on significant theories of empowering leadership and their applicability to leaders of the past and present, but also includes substantial hands-on, experiential learning opportunities in which students practice empowering leadership. PR: ENGL 1101 (with a grade of a "C" or better).

INTR 3331 Great Ideas of Leaders ..... 3 hrs.  
This interdisciplinary humanities course explores some of the most significant ideas of leaders and the questions they have posed to humankind. Topics include the intersection of leadership with the heroic myth, the nature of government, justice, wealth, culture, the mind, poetics, ethics, good and evil, power and authority, concepts of nature, issues of faith and values-based leadership. PR: INTR 3330.

INTR 2995 Interdisciplinary Practicum ..... 3 hrs.  
This course will provide opportunities to observe and interact in appropriate work environments at specific sites in each of the core disciplines: Aviation, Criminal Justice, EMS, and Safety. Sites to be included will be chosen by the program coordinators of the various disciplines, and may vary from time to time. PR: Major in Homeland Security or Pre-Homeland Security. Required core class for the Homeland Security Degree Program. Capstone course.

INTR 4402 Capstone Seminar in Women's Studies ..... 3 hrs.  
Students minoring in Women's Studies will design and execute their own research project on women's studies topics of personal interest. PR: INTR 2201. Instructor Approval.....

INTR 4998 Undergraduate Research ..... 0-6 hrs.  
Undergraduate research is an experiential learning activity that provides an opportunity for a student to engage in the scholarly activities of their major discipline under the guidance of a faculty mentor who will work in close partnership with each student in his or her formulation of a project, the development of a research strategy, and the assessment of a student's progress. The primary goal is for each student scholar to conduct an inquiry or investigation that makes an original, intellectual or creative contribution to their discipline and which is shared in an appropriate venue. Sophomore-Senior Level, Repeatable. Instructor approval required.

## ITALIAN

ITAL 1101 Elementary Italian I ..... 3 hrs.

Italian I is designed for students who have no previous instruction in Italian. The course focuses on enabling students to communicate effectively in Italian and to develop an appreciation of the Italian culture.

ITAL 1102 Elementary Italian II ..... 3 hrs.

Italian II is a continuation of Italian I, completing the basic grammatical principles of that language and concentrating on enabling students to speak in formal and informal contexts.

ITAL 1199 Special Topics in Italian ..... 1-12 hrs.

Studies in special selected topics, to be determined by the instructor and approved by the chairperson. Credits earned will be applicable as free electives in degree and certificate programs.

ITAL 2201 Intermediate Italian I..... 3 hrs.

This course focuses on enabling students to communicate effectively in Italian, by consolidating and expanding the vocabulary and grammar they learned in Italian 1101 and 1102, as well as introducing more sophisticated grammatical structures. The course emphasizes language as a means of understanding culture in the increasingly global world. The course also seeks a heightened understanding of everyday Italian life. The course will be taught in Italian. PR: ITAL 1102.

ITAL 2202 Intermediate Italian II ..... 3 hrs.

This course is a continuation of Italian 2201. Students actively use language and conversational skills acquired in 2201 as they examine Italian housing, environment, music, theater, art, and literature. The course will be taught in Italian. PR: ITAL 2201.

ITAL 2299 Special Topics in Italian ..... 1-12 hrs.

Studies in special selected topics, to be determined by the instructor and approved by the chairperson. Credits earned will be applicable as free electives in degree and certificate programs.

ITAL 3399 Special Topics in Italian ..... 1-12 hrs.

Studies in special selected topics, to be determined by the instructor and approved by the chairperson. Credits earned will be applicable as free electives in degree and certificate programs.

## JOURNALISM

JOUR 1199 Special Topics in Journalism ..... 1-3 hrs.

Studies in special selected topics, to be determined by the instructor and approved by the chairperson. Credits earned will be applicable as free electives in degree and certificate programs. PR: ENGL 1102.

JOUR 2245 Reporting and Multimedia News Writing ..... 3 hrs.

This course teaches students the basics of news reporting and writing for a variety of media forms. Students will review basic grammar, learn AP Style, and learn how to apply them to news writing for media from print, broadcasting, and online forums. PR: ENGL 1102.

JOUR 2275 Media Literacy.....3 hrs.

### *Writing Intensive*

This course teaches students not only the historical background of media, but to critically analyze media content and how it affects society as a whole. Issues addressed are media conglomeration and deregulation, media bias, stereotypes in the media, media as it relates to democracy, as well as other major concepts in the field. PR: ENGL 1102.

JOUR 2280 History of American Journalism.....3 hrs.

### *Writing Intensive*

This course offers a comprehensive chronological presentation of the development of American mass media, by showing the relationship of the past to the events of today and delineating their impact on the American way of life. Examines the American press from the seventeenth century to date and freedom of press and its present implications. PR: ENGL 1102.

JOUR 3315 Multimedia Publishing.....3 hrs.

This course will teach students the basics of digital media design. It will familiarize students with a variety of software related to print design, photography, logo design, and web design. Terminology related to all forms of media will be addressed. PR: ENGL 1102.

JOUR 3330 Writing for Multimedia.....3 hrs.

This course provides students the skills to write in a variety of media formats as well as to create other multi-media projects. In addition to writing for websites, students will learn to embed video, audio, animation, and other platforms as their stories are published. PR: JOUR 2245.

JOUR 3335 Photojournalism and Digital Imaging .....3 hrs.

Students will not only be taught the basics of photography, but will also learn the ethical conflicts and often the dangers facing photojournalists. Since film is no longer used, students also learn how to upload and manipulate photos digitally.

JOUR 3343 Journalism Internship .....3 hrs.

This is the capstone course of the journalism. In this course, students are required to perform on-the-job duties during a 100-hour internship, gaining experience in a particular area of journalism, in accordance with the stated goals of the journalism program. Assessment of student achievement of these goals will occur through both a submitted portfolio and the employer's report

on the quality of the intern's work. Seniors only. Repeatable.  
Instructor approval required.

JOUR 3344 Publications Practice ..... 1-3 hrs.

This course provides experience with student publications. Students can work on the student newspaper, the yearbook, or the student literary and art journal.

JOUR 3350 Participatory Journalism and Social Media ..... 3 hrs.

This course develops students' abilities to report stories in a professional journalistic manner for use on the electronic media sites, including social media, blogs, and new mobile media applications. Students will learn to incorporate user-generated content (UCG).

JOUR 3390 Multimedia Ethics and Law..... 3 hrs.

This course provides a comprehensive overview of legal and ethical issues pertaining specifically to journalism and media. In addition to case studies, students will be asked to critically analyze "real-world" dilemmas using legal and philosophical concepts.

## TEACHING ENGLISH TO SPEAKERS OF OTHER LANGUAGES (TESOL)

LANG 3300 Intercultural Communication ..... 3 hrs.

This course examines the meaning, significance and impact of intercultural communication as it applies individually, nationally and globally as well as in groups and organizations. The course will explore the meaning of "culture" and its effects on perception and understanding. Both macro and micro cultural differences will be examined and the dangers of cultural misunderstanding will be explored. The course will also examine the ever-growing need for intercultural communication competence and introduce ways to increase that competence. Also listed as COMM 3300. PR: COMM 2200 or 2201 or 2202.

LANG 3301 Theories of Language and their Application to English I ..... 3 hrs.

This course covers the linguistic subjects of syntax, morphology, phonology, semantics and pragmatics, which provide concepts and techniques for understanding languages, with special emphasis upon English. Topics will include descriptive versus prescriptive grammar, dialect and register, synchronic and diachronic language variation, the history of English, language acquisition, the leading theories of language, language theory and the art of composition. Required of all prospective teachers of English; to be taken before Clinic III. Also listed as ENGL 3301. PR: ENGL 1102.

LANG 3302 Theories of Language and their Application to English II ..... 3 hrs.

Continuation of ENGL 3301, emphasizing practical applications to teaching writing and grammar in grades 5-12. Required of all prospective teachers of English; to be taken before Clinic III. Also listed as ENGL 3302. PR: LANG 3301.

LANG 4431 Teaching English to Speakers of Other Languages .....3 hrs.

The study and practice in teaching the English language to non-native speakers, grades 5-Adult. Also listed as FREN 4431 and SPAN 4431. PR: FREN 2202 or SPAN 2202 or ITAL 2202 and LANG 3300 and 3302.

LANG 4432 Teaching English to Speakers of Other Languages Practicum .....3 hrs.

Student will prepare lessons and teach English to speakers of other languages under the supervision of college personnel for a minimum of 60 hours. Emphasis will be on speaking, reading, writing, and listening skills. PR: LANG 4431.

## MANAGEMENT

MGMT 3308 Human Resource Management .....3 hrs.

A study of the field of personnel management and industrial relations, including its background, development and modern practices. PR: BSBA 2209.

MGMT 3350 Small Business Management .....3 hrs.

This course is an integrated course designed to familiarize students with small business dynamics involving accounting, finance, marketing, and management disciplines. Students analyze personal strengths and weaknesses relative to launching an entrepreneurial career. Attention is given to planning, financing, starting, and managing a new business. Students will be required to develop and present a business plan for a new venture either individually or as a member of a team. PR: BSBA 2204; BSBA 2209; BSBA 2221.

MGMT 3371 Employee Relations .....3 hrs.

This course examines the dynamics of employee-management relations, with emphasis on unions. Emphasis on methods of reducing employee-management conflict, understanding the grievance process and the role of arbitration and the role of government in the employee-relations process. PR: MGMT 3308.

MGMT 3372 Human Resource Selection and Evaluation .....3 hrs.

An in-depth study of legal, methodological, and substantive issues related to selection and performance appraisal of employees. Focus areas include concepts of job analysis, validation, test development and administration, adverse impact analysis and affirmative action. PR: MGMT 3308.

MGMT 3500 Project Management..... 3 hrs.

This course provides an introduction to formal project management concepts and techniques. Students will learn the Project Management process areas and Knowledge Management areas as published by the Project Management Institute (PMI) within the Project Management Body of Knowledge (PMBOK). The project outputs and required documentation for each process area are emphasized. The project management concepts and techniques presented in the course will be applied to manage a project within a business context. (Pre-requisite: BSBA 2209 Principles of Management)

MGMT 3390 Organizational Behavior..... 3 hrs.

The purpose of this course is to introduce the student to the problems of human behavior in the organizational setting and the approaches available for solving these problems. Students will examine theories of individual, interpersonal and group behavior in organizations, and will follow this with considerations of how organizations may be designed to utilize the talents of the individuals, and how managers may make use of the theories of motivation, communication and interaction in accomplishing the objectives of the organization. PR: BSBA 2209, BISM 2800.

MGMT 4400 Organizational Theory and Design ..... 3 hrs.

This course is designed to provide students with an awareness of how organizations are designed and structured. Emphasis is placed on structural characteristics of organizations, how to shape those characteristics and understanding their influences on the organization. PR: BSBA 2209.

MGMT 4402 Organizational Change and Development ..... 3 hrs.

The course uses an experiential learning approach that provides potential and practicing managers with behavioral science intervention theory and methods for improving organizational performance. The students' work will focus on planned change of organizational cultures and processes such as communication, team building, roles, conflict and structure, with the aim of enhancing management behavior, human resources and productivity. PR: MGMT 3308, MGMT 3390.

MGMT 4405 Operations Management ..... 3 hrs.

This course introduces students to various elements in the field of operations management. It covers the most common production and operations concepts encountered in modern production systems. Students will learn certain quantitative and statistical techniques that help evaluate the management of the firm's operations and performance. PR: BSBA 3310, BSBA 2209.

MGMT 4409 QUANTITATIVE MANAGEMENT

This course introduces mathematical models and quantitative skills important for analysis-driven decision-making in business

and management. Example topics include: probability concepts and applications, decision analysis, regression models, forecasting, linear optimization, and decisions under uncertainty. (PR: BISM 2200, BSBA 3310)

MGMT 4998 Undergraduate Research .....0-6 hrs.

Undergraduate research is an experiential learning activity that provides an opportunity for a student to engage in the scholarly activities of their major discipline under the guidance of a faculty mentor who will work in close partnership with each student in his or her formulation of a project, the development of a research strategy, and the assessment of a student's progress. The primary goal is for each student scholar to conduct an inquiry or investigation that makes an original, intellectual or creative contribution to their discipline and which is shared in an appropriate venue. Sophomore-Senior Level, Repeatable. Instructor approval required.

## MANUFACTURING ENGINEERING TECHNOLOGY

MANF 1100 Materials and Processes.....3 hrs.

This course covers the scientific concepts underlying the basic, procurement, process, fabrication and finishing industries while studying the physical and chemical properties of the organic and inorganic materials utilized in today's industrial complex.

MANF 1199 Special Topics in Manufacturing Engineering Technology ..... 1-12 hrs.

Studies in special selected topics, to be determined by the instructor and approved by the department chairperson. Credits earned will be applicable as free electives in degree and certificate programs.

MANF 2205 Engineering Economy.....3 hrs.

Techniques of engineering economy as related to cost, design and selection of materials. PR: MATH 1520 or math equivalent.

MANF 2250 Total Quality & SPC .....3 hrs.

The purpose of this course is to introduce students to concepts related to total quality management and statistical process control. Topics include the total quality concept, the contributions of W. Edwards Deming, quality and competitiveness, establishing a customer focus, leadership and teamwork, decision-making and problem solving, foundations of statistical process control and continuous improvement.

## MARKETING

MKTG 3305 Supply Chain Management.....3 hrs.

The purpose of this course is to help students understand specific issues involved in distribution and logistics management. Systematic approaches to the formulation of distribution and logistical strategies will be discussed. PR: BSBA 2204.

**MKTG 3310 Consumer Behavior**..... 3 hrs.  
A study of the activities, behaviors and processes exhibited by consumers, directly involving the selection, procurement, consumption and disposition of products and services. PR: BSBA 2204.

**MKTG 3320 Advertising and Sales Promotion** ..... 3 hrs.  
This is a survey course of social, psychological and some technical aspects of advertising and sales promotion for both business and journalism students. PR: BSBA 2204.

**MKTG 3340 Marketing Research**..... 3 hrs.  
This course is designed to introduce students to the nature and scope of market research and its role in designing and implementing successful market programs. Among the topics covered are the market research process, research design, data collection and analysis. Basic and advanced statistics techniques will be discussed in detail, with emphasis on explaining the procedures, interpreting the results and uncovering the managerial implications. PR: BSBA 3310, BSBA 2204.

**MKTG 3399 Special Topics in Marketing** ..... 1-6 hrs.  
This is an advanced studies course in special select marketing topics, to be determined by the instructor and approved by the Dean. PR: 12 credit hours in Marketing.

**MKTG 3400 Selling and Sales Management**..... 3 hrs.  
This course is a study of techniques appropriate to personal selling and managing salespeople, both retail and contract. Students are given opportunities to construct and give presentations. PR: BSBA 2204, COMM 2202.

**MKTG 3500 New Product Decisions** ..... 3 hrs.  
This course is designed to introduce students to the issues, strategies, and approaches related to developing, evaluating, and introducing new products (goods and services). Among the topics covered are; identifying and evaluating market opportunities, assessing the values of products to potential customers, forecasting market demand, and preparing new product launch strategies and plans. PR: BSBA 2204.

**MKTG 4450 Marketing Management** ..... 3 hrs.

This course is designed to provide a more in-depth study of marketing theory and processes. Emphasis will be placed on the analysis and decision-making processes required of marketing managers. PR: MKTG 3310, MKTG 3320, MKTG 3340.

**MKTG 4998 Undergraduate Research** .....0-6 hrs.  
Undergraduate research is an experiential learning activity that provides an opportunity for a student to engage in the scholarly activities of their major discipline under the guidance of a faculty mentor who will work in close partnership with each student in his or her formulation of a project, the development of a research strategy, and the assessment of a student's progress. The primary goal is for each student scholar to conduct an inquiry or investigation that makes an original, intellectual or creative contribution to their discipline and which is shared in an appropriate venue. Sophomore-Senior Level, Repeatable. Instructor approval required.

## MATH

**MATH 1199 Special Topics in Mathematics** ..... 1-12 hrs.  
Studies in special selected topics, to be determined by the instructor and approved by the department chair. Credits earned will be applicable as free electives in degree and certificate programs.

**MATH 1407 Fundamental Concepts of Mathematics with Support** .....4 hrs.  
This course fulfills the same requirements as MATH 1507: Fundamental Concepts of Mathematics and is intended for students who do not meet the pre-requisites for MATH 1507. The course will cover all content included in MATH 1507, as well as provide integrated academic support. This introductory survey course is specifically designed to fulfill General Studies requirements for quantitative literacy. It is designed to strengthen computational skills while focusing on real-world problems. Topics may include critical thinking skills, sequences, set theory, logic, probability, statistics, and consumer mathematics. The course will also review pre-requisite topics, such as order of operations, exponents, and linear equations, as deemed necessary. In addition to lecture and discussion, this course will utilize computer-assisted work, group activities, and math manipulatives to reinforce concepts and engage students. This course meets for five hours each week. PR: Admission into Fairmont State. There are no minimum test score requirements for this course.

**MATH 1430 College Algebra with Support** ..... 4 hrs.  
This course fulfills the same requirements as MATH 1530: College Algebra and is intended for students who do not meet the pre-requisites for MATH 1530. The course will cover all content included in MATH 1530, as well as provide integrated academic

support. This course includes the study of real numbers, complex numbers, algebraic expressions, equations and inequalities, functions and function operations, composition of functions, inverse functions, graphing and transformation of functions, exponents and radicals, quadratic, exponential, and logarithmic functions, and applications. It will also reinforce fundamental algebraic concepts and review pre-requisite topics, such as evaluating expressions, graphing and functions, linear equations, factoring, and geometric concepts, as deemed necessary. This course will utilize lectures, discussions, computer-assisted work, group activities, and math manipulatives to reinforce concepts and engage students. This course meets for five hours each week. PR: MATH ACT 19-20 (or equivalent) or old MATH SAT 460, or new MATH SAT 500, or ACCUPLACER Elementary Algebra 76 or College Level Math 40, or MATH 1011 with a "C" or better.

MATH 1507 Fundamental Concepts of Mathematics .....3hrs.

This introductory survey course is specifically designed to fulfill the General Studies requirements for quantitative literacy. It is designed to strengthen computational skills while focusing on real-world problems. Topics may include critical thinking skills, sequences, set theory, logical reasoning, probability, descriptive statistics, number sense, and consumer mathematics. No student may receive credit for both MATH 1407 and MATH 1507. PR: Math ACT 19 or old Math SAT 460 or New Math SAT 500 or ACCUPLACER Arithmetic 85 or MATH 1011 or MATH 0095 or MATH 0086 or Math 1007 with a "C" or better.

MATH 1510 Applied Technical Mathematics I ..... 3 hrs.

This course is an introduction to fundamental mechanics and techniques for performing operations with algebraic expressions, and subsequently solving linear equations, systems of linear equations and quadratic equations. The course also introduces trigonometric functions and is designed to develop methods of solving right angles and oblique triangles using trigonometry. PR: MATH ACT 19 or MATH SAT 460 or new Math SAT 500 or ACCUPLACER Elementary Algebra 76 or College Level Math 40, or MATH 0095 or MATH 0088 or MATH 1001 with a "C" or better. MAJOR RESTRICTION  $\text{D}$  MAJORS in the College of Science and Technology.

MATH 1520 Applied Technical Mathematics II..... 3 hrs.

This course is a continuation of Math 1510. Topics include solving radical equations and polynomial equations, complex numbers, exponential and logarithmic functions, inequalities and trigonometry. PR: MATH 1510 with a "C" or better or MATH 1101 with a C or better. MAJOR RESTRICTION  $\text{D}$  MAJORS in the College of Science and Technology.

MATH 1530 College Algebra ..... 3 hrs.

This course includes the study of real numbers, complex numbers, algebraic expressions, equations and inequalities, linear systems of equations, functions and function operations, composition of functions, inverse functions, graphing and transformations of functions, exponents and radicals, quadratic, exponential, and logarithmic functions, and applications. No student shall receive credit for both MATH 1430 and MATH 1530. PR: MATH ACT 21 or old MATH SAT 500 or New Math SAT 530 or ACCUPLACER Elementary Algebra 80 or College Level Math 50, or Pierpont MTH 1200

MATH 1540 Trigonometry and Elementary Functions .....3 hrs.

This course includes a study of circular and trigonometric functions and applications, trigonometric identities, equations and graphs of circular functions, functions and inverse functions, vectors, and other related topics. PR: MATH ACT score of 23 or old MATH SAT of 540 or New Math SAT 570 or ACCUPLACER Elementary Algebra 85 or ACCUPLACER College Level Math 55 or a C or better in MATH 1112 or a "C" or better in MATH 1430 or a "C" or better in MATH 1530 or C or better in Pierpont MTH 1212.

MATH 1550 Applied Statistics .....4 hrs.

This course is an introduction to statistics with appropriate applications. Topics covered include descriptive statistics, probability, binomial distribution, normal distribution, sampling, hypothesis testing and regression and correlation. A problem-solving approach and modern software will be used. PR: MATH ACT score of 21 or old MATH SAT of 500 or NEW Math SAT 530 or ACCUPLACER Elementary Algebra 80 or ACCUPLACER College Level Math 50 COMPASS score of 49 or MATH 1102 or MATH 1112 or MATH 1520 or MATH 1430 or MATH 1530.

MATH 1561 Introduction to Mathematical Reasoning .....3 hrs.

This course is designed to help students transition into upper level college mathematics. Students will learn how to reason mathematically by reading and writing using technical mathematical terminology. Topics covered include basic set theory, mathematical logic, basic methods of proof including mathematical induction, properties of the field of real numbers, basic number theory and function notions, as well as sequences and series. PR: C or better in MATH 1115 or C or better in MATH 1540 OR MATH ACT score of 24 or old MATH SAT 560 or NEW MATH SAT 580, or ACCUPLACER College Level Math 65 OR (MATH 2251/2551 and 2252/2552).

MATH 1585 Applied Calculus I .....4 hrs.

A study of calculus with an emphasis on its applications to science, business, technology and social science. Topics covered using the derivative: functions and their graphs, max/min problems, related rates, approximation of change, and curvilinear motion. Topics covered using the integral: area, volume, and

accumulation functions. Graphing calculators and mathematical software will be introduced and used throughout the course. PR: MATH ACT score of 24 or old MATH SAT 560 or New Math SAT 580 or ACCUPLACER College Level Math 65 or MATH 1115 or MATH 1540 or MATH 1102 with "B" or better or MATH 1520 with a "B" or better. This course will not be offered after fall 2018.

MATH 2501 Calculus I ..... 4 hrs.

This course is the calculus of one variable, beginning with an intuitive study of limits and a geometric interpretation of the derivative. Topics include differentiation of functions and the application of the derivative to graphing functions, approximating functions, solving max/min problems and related rate problems, anti-differentiation and its link to the signed area under a curve, the fundamental theorem of calculus and applications of the definite integral. PR: MATH ACT score of 25 or old MATH SAT 570 or New Math SAT 590 or ACCUPLACER College Level Math 75 or MATH 1115 or MATH 1540 or MATH 1186 or MATH 1586.

MATH 2502 Calculus II ..... 4 hrs.

This course is a continuation of MATH 2501. Topics include applications of the definite integral, exponential and logarithmic functions, inverse trigonometric functions, techniques of integration, conic sections, plane curves and polar coordinates, limits involving indeterminate forms, improper integrals, sequences, and infinite series. PR: MATH 1190 or MATH 2501.

MATH 2510 Mathematical Logic ..... 3 hrs.

This course covers sentential and general theory of inference, theory of proof and definition and elementary intuitive set theory. PR: MATH 1170 or MATH 1561 or MATH 1125. Spring semester only.

MATH 2520 Introduction to the Theory of Numbers ..... 3 hrs.

Topics include prime numbers, the unique factorization theorem, congruences, Diophantine equations, primitive roots and the quadratic reciprocity theorem. PR: MATH 1190 or MATH 2501. Spring Semester Even Years Only.

MATH 2551 Structure of the Real Numbers ..... 3 hrs.

This course starts with basic concepts of sets and continues with properties of operations and a logical development of the set of real numbers. Beginning number theory concepts and an introduction to probability are also included. This course connects structure to prior math knowledge and real-world applications. PR: Math 1112 or MATH 1430 or MATH 1530 or Math ACT of 23 or old Math SAT of 540 or new MATH SAT of 570 or ACCUPLACER Elementary Algebra 85 or College Level Math 55, and admission to Teacher Education.

MATH 2552 Data Analysis and Geometry ..... 3 hrs.

This course offers an introduction to data analysis and statistics and the study of geometry. Included is descriptive statistics, a discussion of matrices, standard and non-standard measurement, a formal and informal approach to geometry, van Hiele levels, and the use of dynamic geometry software, and real-world applications of these topics. PR: Math 1112 or MATH 1430 or MATH 1530 or Math ACT of 23 or old Math SAT of 540 or new MATH SAT 570 or ACCUPLACER Elementary Algebra 85 or College Level Math 55, and admission to Teacher Education.

MATH 2554 Topics in Math History ..... 2 hrs.

This course is designed to provide students with an overview of the historical development and perspectives of number, number systems, quantity, algebra, geometry, trigonometry, statistics, probability, calculus, and discrete mathematics, including contributions of significant figures and diverse cultures. PR: MATH 2562 OR concurrent enrollment in MATH 2562. Spring semester only.

MATH 2562 Introduction to Discrete Mathematics ..... 3 hrs.

This course is designed to provide a survey of the reasoning and objects of study found in discrete mathematics. Topics considered include sets, relations, functions, combinatorics, graphs, trees, discrete probability, algorithms, and recurrence relations. Interspersed throughout the course will be material on the nature of proofs. PR: MATH 1170 or MATH 1125 or MATH 1561

MATH 2563 Transition to Higher Mathematics ..... 3 hrs.

The goal of this course is to transition the student into the more formal and proof-oriented world of advanced mathematics. The focus of the course will be developing the requisite skills needed to write an effective and elegant proof. The course will use as its means of approaching proofs the subjects of number theory, relations, and functions. PR: MATH 1170 or MATH 1561 or (MATH 1125 and MATH 1190/2501). Fall semester only.

MATH 3503 Calculus III ..... 4 hrs.

This course is a continuation of Math 2502 and covers the calculus of two or more independent variables. Topics include basic vector properties, partial derivatives, double and triple integration, and vector calculus. PR: MATH 3315 or MATH 2502. Fall semester only.

MATH 3504 Differential Equations ..... 3 hrs.

A study of first-order and simple higher-order ordinary differential equations and their applications, linear differential equations with constant coefficients and their application, simultaneous differential equations and their applications, the numerical solution of differential equations and solution of differential equations by use of series. PR: MATH 3315 or MATH 2502. Spring Semester Odd Years Only.

MATH 3520 Linear Algebra ..... 3 hrs.

This course covers vector spaces abstractly defined, linear dependence and independence, bases and subspaces, dimension of linear space, linear mappings, kernel and image of maps, rank of maps, linear maps as vector spaces, composition of mappings and multiplication of matrices, the relation between linear mappings and systems of linear equations, row reduced echelon matrix, invertible matrices, calculation of inverse, linear inequalities and half spaces. PR/CR: MATH 3315 or MATH 2502. Fall Semester Only.

MATH 3540 Numerical Analysis ..... 3 hrs.

In this course, students will investigate solutions of equations, functional iteration of equations, analysis of special methods such as the methods of false position and of Newton, iteration for systems of equations, reduction to first order systems, Gaussian elimination and some iterative methods for inversion. PR: COMP 1120 and (MATH 3315 or MATH 2502). Fall Semester Odd Years Only.

MATH 3550 Probability ..... 3 hrs.

This course will cover undergraduate probability theory from both discrete and calculus perspectives. Topics will include basic combinatorics, the axioms of probability, conditional probability, discrete and continuous random variables (including numerous examples of each), joint distributions, and limit theorems. PR: MATH 2502 OR concurrent enrollment in MATH 2502. Spring semester only.

MATH 3553 Math Methods for Elementary Teachers ..... 3 hrs.

This course is designed to prepare pre-service elementary school teachers to teach mathematics. Students will study tools for teaching mathematics, math teaching strategies, current topics in math education, problem solving and reasoning, and assessment. Numerous laboratory experiences are required such as micro-teaching and construction of a NCTM Standards-based unit. PR: (MATH 2251 or MATH 2551) and (MATH 2252 or MATH 2552) and EDUC 2260 with a C or better in each. Major Restriction: Admission to Teacher Education.

MATH 3570 Modern Geometry ..... 3 hrs.

A brief review of informal Euclidean geometry, including areas and volumes. The course will also include a formal development of Euclidean geometry using a transformation approach; concepts such as incidence, non-Euclidean geometry and finite geometries are introduced. PR: MATH 1125 or MATH 1561 and (MATH 1190 or MATH 2501). Fall Semester Even Years Only.

MATH 4400 Seminar ..... 1-3 hrs.

PR: Instructor approval required.

MATH 4520 Abstract Algebra ..... 3 hrs.

*Writing Intensive*

Topics include sets, relations, functions, operations, algebraic systems such as integers, rationals and matrices, isomorphism and examples. Students will examine equivalence classes, groups, subgroups, cyclic groups, basic theorems, Lagrange's theorem, homomorphism, normal subgroups, quotient group, the isomorphism theorems, rings, integers, matrices, polynomials, integral domains, and fields. The course will also cover various topics of rings. PR: ENGL 1102, (MATH 1190 or MATH 2501) and (MATH 2212 or MATH 2563). Spring Semester Only.

MATH 4531 Methods and Materials in Teaching Mathematics ..... 3 hrs.

This course is designed for senior education majors with a math teaching specialization in either grades 5-Adult or 5-9. The study of mathematics curricula and methods at the middle and high school levels includes topics in number, algebra, geometry, trigonometry, statistics, probability, calculus, and discrete mathematics, as well as the historical development of these topics. Numerous laboratory experiences such as microteaching and math tutoring are required. 5-9 and 5-Adult must complete this course prior to enrolling in Secondary Student Teaching/Clinical III. Fall Semester Only. Major Restriction: Admission to Teacher Education.

MATH 4580 Topology ..... 3 hrs.

This course consists of the study of topological spaces and notions, including continuity, convergence, separation, compactness and connectedness. PR: (MATH 2212 or MATH 2563) and (MATH 3316 or MATH 3503). Spring Semester Odd Years Only.

MATH 4590 Real Analysis ..... 3 hrs.

Covers real numbers, topology of the reals, infinite series, continuous functions, sequences and series of functions, differentiation, integration and power series. PR: (MATH 2212 or MATH 2563) and (MATH 3316 or MATH 3503). Spring Semester Even Years Only.

MATH 4998 Undergraduate Research ..... 0-6 hrs.

Undergraduate research is an experiential learning activity that provides an opportunity for a student to engage in the scholarly activities of their major discipline under the guidance of a faculty mentor who will work in close partnership with each student in his or her formulation of a project, the development of a research strategy, and the assessment of a student's progress. The primary goal is for each student scholar to conduct an inquiry or investigation that makes an original, intellectual or creative contribution to their discipline and which is shared in an appropriate venue. Sophomore-Senior Level, Repeatable. Instructor approval required.

## MECHANICAL ENGINEERING TECHNOLOGY

MECH 1100 Statics ..... 3 hrs.

The study of force systems that act on rigid bodies in static equilibrium. Topics of study include the analysis of coplanar and noncoplanar force systems using analytical and graphical methods. PR: MATH 1520 or math equivalent.

MECH 1199 Special Topics in Mechanical Engineering  
Technology ..... 1-12 hrs.

Studies in special selected topics, to be determined by the instructor and approved by the department chairperson. Credits earned will be applicable as free electives in degree and certificate programs.

MECH 2200 Strength of Materials..... 4 hrs.

The analysis of stress and deformation of deformable bodies under the action of forces. Students will examine the design and selection of tension and compression members, shafts and beams, stress and strain, Hook's Law, mechanical properties of engineering materials, torsion, bending and buckling theory. PR: MECH 1100 with a C or better in both.

MECH 2210 Thermodynamics I ..... 3 hrs.

An introduction to the thermodynamic laws of conservation of mass and energy. Students will explore applications in the analysis of energy sources, transformations and utilizations. PR: MECH 1100 with a C or better.

MECH 2220 Fluid Mechanics ..... 3 hrs.

A study of the mechanics of fluid systems. Topics include fluid statics and dynamics, dimensional analysis and similitude, steady flow of incompressible fluids in pipes, ducts, and open channels, steady flow of compressible fluids over surfaces and about immersed bodies and turbomachinery. PR is one of the following: PR: TECH 2290 or math equivalent.

MECH 2240 Machine Design I ..... 3 hrs.

Application of the principles of mechanics to the design and selection of machine components. Topics of study include beams, columns, shafts, gears, bearings, belts, brakes, and springs. Design projects will be assigned and computer solutions will be utilized. PR: MECH 2200,

MECH 3300 Thermodynamics II ..... 3 hrs.

A continuation of the study of thermodynamics, with special emphasis on equations of state, calorimetry, processes, heat engines and the Second Law of Thermodynamics. Topics include PVT relationships of pure substances, caloric equations of state, properties of multi-phase substances, processes of compressible

and incompressible gases, liquids, solids, and multi-phase substances, the Carnot heat engine, entropy, refrigeration and heat pump cycle, the Third Law of Thermodynamics and the analysis of Carnot cycles. PR: MECH 2210.

MECH 3320 Dynamics ..... 3 hrs.

The study of Newtonian dynamics of particles and rigid bodies in plane motion. Topics include Kinematics, Newton's Laws, work and energy principles and impulse momentum. Baccalaureate majors only. PR: MECH 1100 and TECH 3300 or math equivalent.

MECH 3330 Heat Transfer I ..... 3 hrs.

A study of heat energy interactions in solids, liquids, and gases. Topics include fundamental laws of conduction, convection and radiation heat transfer. Baccalaureate majors only. PR: PHYS 1102, TECH 3300 or math equivalent.

MECH 3340 Heating, Air Conditioning and Ventilation ..... 3 hrs.

A study of the principles of fluid mechanics, thermodynamics and heat transfer as applied to HVAC systems. Topics include: heating and cooling load calculations, heating, air conditioning and refrigeration systems; automatic controls; heat pumps for heating and cooling; solar heating and cooling systems. PR: MECH 2220, MECH 3300, and MECH 3330.

MECH 3350 Numerical Methods ..... 3 hrs.

A study of numerical methods, with application to the formulation and solution of engineering problems. Topics include mathematical modeling, engineering problem solving, roots and equations, curve fitting, numerical integration and ordinary differential equations. Digital computers and software are used extensively. PR: COMP 1110, PHYS 1101, and either TECH 2290 or math equivalent.

MECH 4400 Mechanical Measurements ..... 3 hrs.

*Writing Intensive.*

This course is a study of the measurement of motion, force, torque, power, temperature, pressure, fluid flow, and strain. Topics include direct and indirect measurement, sensor theory of operation and selection, curve fitting and data analysis. A Writing Intensive experience will be included in this course through multiple writing assignments including laboratory and design reports. PR: ENGL 1103, PR: MECH 3320 or CR: MECH 3320.

MECH 4410 Thermodynamics III ..... 3 hrs.

A continuation of the study of thermodynamics, with special emphasis upon application to heat, power and refrigeration systems. Topics include energy availability and irreversibility in open and closed thermodynamic systems, mixtures of gases and vapors, reactive systems, internal and external combustion power

cycles, reversed cycles and flow through nozzles and diffusers. PR: MECH 3300.

MECH 4430 Heat Transfer II ..... 3 hrs.

A continuing study of conduction, convection, and radiation heat transfer, with emphasis on application to residential, commercial and industrial and heat exchanger design. Topics include steady-stated transient heat conductions, free and forced heat convection, condensing and boiling heat transfer, radiation, transfer by combined mechanisms, numerical and analog methods. PR: MECH 3330.

MECH 4440 Engineering Systems Design Laboratory..... 3 hrs.

A study of analog, digital and mixed engineering systems, similitude of mechanical and electrical engineering systems, dimensional analysis and theory of models. PR: MECH 3300, MECH 3320.

MECH 4998 Undergraduate Research.....0-6 hrs.

Undergraduate research is an experiential learning activity that provides an opportunity for a student to engage in the scholarly activities of their major discipline under the guidance of a faculty mentor who will work in close partnership with each student in his or her formulation of a project, the development of a research strategy, and the assessment of a student's progress. The primary goal is for each student scholar to conduct an inquiry or investigation that makes an original, intellectual or creative contribution to their discipline and which is shared in an appropriate venue. Sophomore-Senior Level, Repeatable. Instructor approval required.

## MUSEUM STUDIES

MUSM 1100 Introduction to Museums..... 3 hrs.

This course will introduce students to the various types of museums (historical, art, historic site/house, representational, etc.), as well as presenting a general overview of museum operations (programming, fundraising, grant writing, volunteer management, interpretation, exhibit design and construction, personnel training and management, collections management and museum networking).

MUSM 2150 Folk Arts..... 3 hrs.

This studio course is designed to give students a hands-on learning approach to the historical understanding and making of traditional/historical folk arts. Various materials will be used including fiber, wood, metal, paper, natural materials, and more to explore weaving/quilting, carving, tinsmithing/metal tooling, marbling/book binding/band box construction, doll making, and other traditional folk arts and crafts. An element of research will also be included in this course. This course, as a component of the

Museum Studies program, will emphasize the application of folk art making skills to that of museum interpretation. Also listed as FOLK 2150.

MUSM 3210 Museum Interpretation and Education.....3 hrs.

This course will explore the various avenues by which the context of a given museum may be interpreted to the public visitor, researcher, and school children groups, as well as training and mission statement interpretation to the museum staff, administration, volunteer organization students, interns, etc. that may be involved with the museum operation. Various avenues of actual interpretation will include the use of the museum facilities (buildings, artifacts, publications, etc.), as well as the various aspects of oral interpretation (first person role play, costumed interpreter/demonstrator, third person/costumed or not, etc.). The course will also allow students to explore all types of museum educational programming and concepts with special emphasis on children's visitation, special events, adult programming, lecture series, fairs and festivals, visiting presenters, outreach education, etc. Special attention will be drawn to the various educational techniques and tools used as well as evaluation processes. The design and publication of museum materials (handbooks, exhibit cards, exhibition catalogues, research and information books, journals, newsletters, etc.) will be covered in this course also. A major goal of this course will be to establish understandings of museum/school relationships as well as an enhancement of general public lifelong learning experiences. PR: MUSM 1100.

MUSM 3220 Museum Collections Management.....3 hrs.

This course will address all of the various issues regarding museum collections both those of two and three dimension (paper memorabilia, three dimensional artifacts, buildings, grounds, other structures, etc.). The various technical aspects of managing collections (acquiring, identifying, processing, cataloging, storing, displaying, preserving, conserving, researching, etc.) will be the focus of this course. PR: MUSM 1100.

MUSM 3230 Exhibit Design and Construction .....3 hrs.

This course will be the most technical of the museum studies program and will be concerned with museum exhibit planning, research, text writing, design, construction, and installation of various types of storyline exhibits and presentations. Techniques used will include computer graphics, photography, silk-screening, dry mounting, fixture and kiosk construction, lighting/ventilation/audio visual application, and other processes. PR: MUSM 1100.

MUSM 3301 Material Culture.....3 hrs.

A study of the tangible evidence of civilization, including through the perspective of Appalachian culture. Material culture is presented within the context of folk life and traditional

craftsmanship, including crafts, arts, traditional foodways, clothing, tools and technology. Students examine material folk culture from various methodological and theoretical perspectives, including artifact analysis and fieldwork.

MUSM 4290 Museum Practicum/Internship/Capstone..... 3 hrs.  
 [1 credit repeated three times for a total of 3 required credits or 3 credits taken at one time.]

This practicum/internship/capstone course will situate the student in actual hands-on museum(s) located experience. Students will be placed in the museum(s) type (historical, art, etc.) of their choice and will have as many "real" application experiences with interpretation, exhibit design and construction, collections management, public museum educational programming, administrative management, as well as museum administration, fundraising, grant writing, disaster management, volunteer management, and other issues that can be arranged with the museum(s) of choice. Pre-internship conferencing between the student, museum representative, and the program coordinator will be expected. Conferencing will continue during the experience as well. Course may be taken during regular semester or summer terms. Expected clock hours, 120 total. This course may be taken 1 credit at a time beginning after 9 credits have been accumulated or all at once when all other courses of the program have been completed.

OPTION A: (For students completing MUSM 4290 using the 1 credit at a time option) PR: MUSM 1100 and MUSM 2150 and one of the following: MUSM 3210 or MUSM 3220, or MUSM 3230 with Program Coordinator/Instructor approval.

OPTION B: (For students completing MUSM 4290 taking 3 credits at one time) PR: All other courses in the program: MUSM 1100, MUSM 2150, MUSM 3210, MUSM 3220 and MUSM 3230 with Program Coordinator/Instructor approval.

## MUSIC

MUSI 1100 Introduction to Music Education ..... 1 hr.

This course is a seminar-style overview of the field of music education. Topics of discussion include philosophies, teaching methods, administration, technology and historical background. PR: Music majors and Music Education majors only. Fall, odd years only.

MUSI 1101 Concerts, Recitals, and Seminars..... 0 hrs.

This course is designed to provide concert attendance experience and performance opportunities for music majors and minors, as well as professional information that may not be covered in class. This course is required of all music students each semester except when student teaching. Repeatable. Consult the Department of Music Handbook for specific information. PR: Music, Music Education majors and Music minors

MUSI 1102 Introduction to Keyboard I..... 1 hr.

This course in beginning piano is designed as an elective for the student not majoring or minoring in music. It is conducted in a piano lab setting which allows both individual and group participation.

MUSI 1103 Introduction to Keyboard II..... 1 hr.

This course in early intermediate piano is designed as an elective for the student not majoring or minoring in music. It is conducted in a piano lab setting which allows both individual and group participation. PR: MUSI 1102 or instructor approval required.

MUSI 1104 Functional Piano I..... 1 hr.

This course is required of all students majoring or minoring in music. Piano majors and minors with a piano emphasis may substitute Keyboard Accompanying or other applied electives. Music majors only. Fall semester only. PR: Music, Music Education Major, Music minor

MUSI 1105 Functional Piano II..... 1 hr.

This course is required of all students majoring or minoring in music. Piano majors and minors with a piano emphasis may substitute Keyboard Accompanying or other applied electives. Spring semester only. PR: MUSI 1104. Music, Music Education majors and Music minors only.

MUSI 1106 Guitar Class..... 1 hr.

This is a course in beginning guitar and is open to all students. Students will be introduced to staff notation for the guitar and chord chart notation. Basic guitar playing techniques from a variety of styles will be explored. The class is conducted in group format. Students must own a guitar to participate.

MUSI 1108 Beginning Theory (on demand)..... 2 hrs.

This course is designed for beginning music students who need additional background in theory.

MUSI 1111 Introduction to Music Technology ..... 3 hrs.

This course is designed for current music majors to give a basic laboratory-style overview of music technology and computer-aided instruction that can be used in the public school classroom. It is conducted in a lecture/laboratory workshop setting so that students can gain the maximum exposure to music technology in a practical setting. Topics of discussion include: The need for music technology in the classroom, Software programs for elementary general music, Programs for secondary choral music classrooms, Programs for secondary instrumental music classrooms, Miscellaneous Music Education software programs, Music Administration software, music notation software, and recording technology. Required for all music majors. Elective for music

minors with permission of instructor. Spring semester only. Music, Music Education majors, Music minors only.

MUSI 1112 Piano Ensemble.....1 hr.

Open to students with some piano experience, this course is designed to provide students an opportunity to play in a small ensemble setting. Students will experience a wide variety of styles of literature including arrangements of historically well-known and contemporary orchestral and vocal pieces for keyboard ensemble. Ensemble meets on a regular rehearsal schedule under faculty direction. Repeatable. Instructor approval required.

MUSI 1113 Theory I.....3 hrs.

This course will review music fundamentals including fluency in treble and bass clef, major and minor scales, key signatures, time signatures, and intervals. The class will then focus on the principles of voice leading, harmonic progression, melody harmonization, non-chord tones, cadences, and simple tonal analysis. This course will run concurrently with MUSI 1114, Aural Skills I. Fall semester only.

MUSI 1114 Aural Skills I.....1 hr.

This course will introduce students to the fundamentals of aural skills including solfege singing in major and minor, simple rhythm chanting in duple and compound meters, interval recognition from major and minor scales, triad and seventh chord recognition, and melodic dictation. Specific emphasis is placed on proper intonation. This course uses a moveable "do" solfege system. This course will run concurrently with MUSI 1113, Theory I. Fall semester only.

MUSI 1115 Theory II.....3 hrs.

This course is a continuation of MUSI 1113. Students will briefly review skills learned in MUSI 1113 and then continue their studies of tonal music with a focus on triad inversions, seventh chords, applied/secondary chords, and introduction to chromaticism in tonal analysis. Students will also compose simple pieces in the common practice style utilizing techniques learned in class. This course will run concurrently with MUSI 1116, Aural Skills II. Spring semester only. PR: MUSI 1113 and MUSI 1114 with a grade of "C" or higher.

MUSI 1116 Aural Skills II.....1 hr.

This course is a continuation of MUSI 1114. Students will briefly review skills learned in MUSI 1114 and then continue to expand their skills in melodic dictation, harmonic dictation, solfege singing, and error detection. Students will also use their aural skills to criticize and react to professional music recordings. This course will run concurrently with MUSI 1115, Theory II. Spring semester only. PR: MUSI 1113 and MUSI 1114 with a grade of "C" or higher.

MUSI 1117 Rhythmic Reading (on demand).....1 hr.

This course is designed for all students to improve reading rhythms in music. Spring semester.

MUSI 1118 Exploring Music in America .....3 hrs.

An exploration of the vernacular traditions within the United States. Students are encouraged to develop their own perspectives, talents, listening/critiquing skills, and appreciation for the musical interests of others. Regular use of sound and video recordings of music will play an integral part in the class.

MUSI 1119 Exploring Music in World Cultures .....3 hrs.

An exploration of the various styles of music throughout the world. Students are encouraged to develop their own perspectives, talents, listening/critiquing skills, and appreciation for the musical interests of others.

~ MUSI 1120 Music Appreciation .....3 hrs.

An introduction to Western music, the music of other cultures and styles of popular music. Students are encouraged to develop their own perspectives, talents, listening/critical skills, and appreciation for the musical interests of others. Attendance at live performances outside of class time will be required.

MUSI 1139 Voice Class .....1 hr.

A study of the fundamentals of voice production: breathing, resonance, articulation, and style.

MUSI 1140 Music Private Lessons .....1 hr. (repeatable)

This is a course providing one-on-one private music lessons to the non-music major and Music minors. It is an elective course which is open to all students and may be repeated. Music minors will enroll in this course. Music majors may enroll in this course on a secondary instrument in addition to enrolling in MUSI 1160 for their primary instrument. One credit hour equals one half-hour private lesson per week. Students must consult with the instructor for an assigned lesson time during the first week of classes.

MUSI 1160 Applied Music I .....2 hrs. (repeatable)

This is a repeatable freshman/sophomore-level required course providing one-on-one private music lessons to the music major. Two credit hours equal one one-hour private lesson per week. Students must consult with the instructor for an assigned lesson time during the first week of classes. Music majors who have not passed the Sophomore Evaluation in the Music program will continue to take lessons at this level until they have passed the Sophomore Evaluation. Music, Music Education Majors; music minors with permission of the instructor.

- MUSI 1167  
Collegiate Singers ..... 1 hr.  
A large mixed chorus open to all students. The Collegiates perform literature from the Renaissance to modern and popular styles. Activities include one or two performances per semester and a spring tour in odd years. Repeatable.
- MUSI 1168  
Marching Band..... 2 hrs.  
Open to students who play a band instrument or have the necessary skills to participate in one of the auxiliary units such as flags, rifles, or twirlers. The Marching Band performs at all home football games during the fall semester and at various marching band activities such as parades and festivals. Repeatable. Fall semester only.
- MUSI 1169  
Wind Ensemble..... 1 hr.  
The Wind Ensemble is a group of wind and percussion students performing the highest quality literature for the wind band medium in order to develop individual aesthetic sensitivity and awareness. Emphasis is on the development of individual and ensemble musicianship and performance skills through the study of diverse and fine literature for wind instruments. Wind Ensemble is a one-credit course and performs two concerts a semester. Open to all students who play wind or percussion instruments. Repeatable. Spring semester only.
- MUSI 1176 Guitar Ensemble..... 1 hr.  
This is the chamber ensemble for music and music education majors and minors in guitar. Repeatable. Admission is by audition and at the discretion of the director.
- MUSI 1199 Special Topics in Music..... 1-12 hrs.  
Studies in special selected topics, to be determined by the instructor and approved by the Department Coordinator and School's Dean. Credits earned will be applicable as free electives in degree and certificate programs.
- MUSI 2204 Functional Piano III ..... 1 hr.  
This course is required of all students majoring or minoring in music. Piano majors and minors with a piano emphasis may substitute Keyboard Accompanying or other applied electives. Fall semester only. PR: MUSI 1105.
- MUSI 2205 Functional Piano IV..... 1 hr.  
This course is required of all students majoring or minoring in music. Successful completion is required to pass the piano proficiency requirement for music education and the music minor. Piano majors and minors with a piano emphasis may substitute Keyboard Accompanying or other applied electives. Spring semester only. PR: MUSI 2204.
- MUSI 2206 Introduction to Music Literature and Research Methods ..... 3 hrs.  
A chronological survey of the history and literature of Western art music, designed for the music major and minor, covering major developments in music history from antiquity to present. The purpose of the course is to provide a broad understanding of key styles and forms, as well as to introduce contemporary music research methods. Fall Semester only. Music majors and minors only.
- MUSI 2207 HISTORY OF MUSICAL THEATRE..... 3 hrs.  
A chronological survey of the development and history of musical theatre from the mid-nineteenth century to the present. Emphasis will be placed on influential composers, lyricists, directors, choreographers, and performers from musical theatre history with special focus on major periods and works. The class will also discuss the ways that the musical both forms and reflects ideas about American and personal identity, as well as attitudes towards race, ethnicity, gender, and interpersonal relationships. Students will be expected to listen to/watch assigned recordings outside of class.
- MUSI 2211 String Class I-II ..... 1 hr.  
This course is open to all students with sufficient background in music. A working knowledge of string instruments is attained through class instruction. Fall semester only.
- MUSI 2213 Brass Class I-II ..... 1 hr.  
This course is open to all students with sufficient background in music. A working knowledge of brass instruments is attained through class instruction. Fall semester only.
- MUSI 2215 Woodwind Class I-II ..... 1 hr.  
This course is open to all students with sufficient background in music. A working knowledge of woodwind instruments is attained through class instruction. Spring semester only.
- MUSI 2217 Percussion Class ..... 1 hr.  
Open to all students with sufficient background in music. A working knowledge of percussion instruments is attained through class instruction. Spring semester only.
- MUSI 2219 Guitar Class for Music Majors..... 1 hr.  
This course is in the fundamentals of playing the guitar. It designed to address the needs of the music education major. Music education majors only. Spring semester only.
- MUSI 2223 Theory III..... 3 hrs.  
This course is a continuation of MUSI 1115. Students will briefly review skills learned in MUSI 1115 and then delve into the

chromatic harmonies of common practice music. Topics will include secondary function chords, Neapolitan chords, augmented sixth chords, and modulatory techniques. Students will analyze longer musical excerpts and be expected to compose pieces in the common practice style utilizing techniques learned in class. Fluency in alto and tenor clef will also be a requirement. This course will run concurrently with MUSI 2224, Aural Skills III. Fall semester only. PR: MUSI 1115 and MUSI 1116 with a grade of "C" or higher.

MUSI 2224 Aural Skills III ..... 1 hr.  
 This course is a continuation of MUSI 1116. Students will briefly review skills learned in MUSI 1116 and then continue advancing their skills in solfege singing, dictation, and aural analysis. Chromaticism, including applied and borrowed chords, will be added to the expectations of students along with simple modulation. This course will run concurrently with MUSI 2223, Theory III. Fall semester only. PR: MUSI 1115 and MUSI 1116 with a grade of "C" or higher.

MUSI 2225 Theory IV..... 3 hrs.  
 This course is a continuation of MUSI 2223. Students will briefly review skills learned in MUSI 2223 and then finish their studies in chromatic harmony as exemplified by composers from the end of the Romantic era. Students will then begin to learn 20th century techniques of composition and analysis including extended tertian harmony, atonality, twelve-tone theory, pitch-class technique, exotic scales, and minimalist technique. The class will conclude with a survey of contemporary music composition practices including postmodernism, postminimalism, and neoclassicism. Students will be expected to compose short pieces in various contemporary styles to learn these techniques. This course will run concurrently with MUSI 2226, Aural Skills IV. Spring semester only. PR: MUSI 2223 and MUSI 2224 with a grade of "C" or higher.

MUSI 2226 Aural Skills IV..... 1 hr.  
 This course is a continuation of MUSI 2224. Students will briefly review skills learned in MUSI 2224 and then continue advancing their skills in solfege singing, dictation, and aural analysis. Students will sing simple octatonic, exotic scale, and atonal melodies. Students will also chant rhythms in mixed or asymmetric meters, polyrhythms, mixed beat divisions, and perform simple metric modulations. This course will run concurrently with MUSI 2225, Theory IV. Spring semester only. PR: MUSI 2223 and MUSI 2224 with a grade of "C" or higher.

MUSI 2245 Fundamentals of Conducting ..... 2 hrs.  
 This course is designed to acquaint the student with standard conducting techniques, including a working knowledge of all standard beat patterns, various types of articulation, preparatory beats, cutoffs, and various types of fermatas.<sup>3/4</sup> Students will also

study conducting terminology and transposition.<sup>3/4</sup> These skills will be practiced and applied by conducting musical works in class. PR: MUSI 2225 or by instructor approval. Fall semester only.

MUSI 2247 Jazz Ensemble ..... 1 hr.  
 Open to saxophonists, trombonists, trumpeters, percussionists, guitarists, bassists and pianists regardless of academic major. The ensemble involves study, rehearsal, and performance of selected literature of all styles and more specifically explores a variety of big-band, jazz, jazz-rock, Latin, funk and other styles of jazz music. The jazz ensemble works with a variety of soloists from vocalists to instrumentalists. Jazz combos may be selected from the Jazz Ensemble membership. The ensemble performs a minimum of two concerts per year. Repeatable.

MUSI 2248 Jazz Improvisation .... 1 hr. (approved Jan. 16, 2018)  
 Jazz Improvisation is an elective, course whose repertoire is focused on the music of blues and swing rhythms. This course introduces the fundamentals of jazz improvisation. Beginning jazz skills include scales, song forms, melodic patterns, and repertoire development is a primary focus. Works learned throughout the course will be featured in a culminating performance. Prior instrumental experience recommended. No prior experience in improvisation required. Repeatable.

MUSI 2249 Advanced Woodwind Ensemble ..... 1 hr.  
 Open to advanced woodwind students. Includes various Woodwind ensembles. Repeatable. Audition or admission at the discretion of the director.

MUSI 2251 Instrument Repair and Maintenance ..... 2 hrs.  
 A survey of the simple instrument repair problems that are commonly encountered in a school music program. Practical repair experiences are included where appropriate. Offered on demand.

MUSI 2275 Advanced Brass Ensemble ..... 1 hr.  
 Open to advanced instrumental students, this course is designed to give students an opportunity to participate in small ensembles. Groups meet on a regular weekly rehearsal schedule under faculty direction. Repeatable. Audition or admission at the discretion of the director.

MUSI 2277 Chamber Choir..... 1 hr.  
 Open to all students. Designed to give students experience in small ensemble participation. This group performs a wide variety of a cappella music. Repeatable. Audition at beginning of each semester.

MUSI 2279 Advanced Percussion Ensemble ..... 1 hr.  
 Open to advanced percussion students and students with percussion experience. Designed to give students experience in

small ensemble participation: Groups meet on a regular rehearsal schedule under faculty direction. Repeatable. Audition or admission at the discretion of the director.

MUSI 2280 African Drum and Dance Ensemble ..... 1 hr.

African Drum and Dance Ensemble is an elective, experimental ensemble whose repertoire is focused on the music of non-western traditions. Taught primarily through oral tradition, this course allows members to experience the learning process without written music. While the focus of the ensemble is musical, the cultural context relevant to the music studied is naturally incorporated, giving the participants a deeper understanding of the music performed. Works learned throughout the course will be featured in a culminating performance. No prior experience required. Repeatable.

MUSI 3309 Orchestration ..... 2 hrs.

A survey of the technical abilities and limitations of the instruments of the orchestra and band with an emphasis on the practical fundamentals of score preparation.

MUSI 3310 Counterpoint (on demand) ..... 2 hrs.

A study of the style and technique involved in the writing of sixteenth century polyphonic music. PR: MUSI 2225.

MUSI 3311 Form and Analysis ..... 2 hrs.

A study of form and the analysis of music, as found in the literature from the seventeenth to the twentieth centuries. PR: MUSI 2225 with a grade of "C" or higher.

MUSI 3312 Composition (on demand) ..... 2 hrs.

This course is designed to teach, through the study of various types of music, a basic and accepted approach to creative composition. PR: MUSI 2225.

MUSI 3313 Music in Western Civilization to 1750 ..... 3 hrs.

*Writing Intensive*

This course is a study of music history and literature from antiquity through the Baroque period. Students will develop their listening and score-reading skills through study of the compositions of these eras. Music Majors only. PR: ENGL 1102

MUSI 3314 Music in Western Civilization since 1750 ..... 3 hrs.

*Writing Intensive*

This course is a study of music history and literature from the Classical period to the present. Students will develop their listening and score-reading skills through study of the compositions of these eras. Music Majors only. PR: ENGL 1102

MUSI 3320 Techniques of Keyboard Accompanying ..... 1 hr.

A course designed to acquaint music majors with the techniques involved in playing keyboard accompaniments for performing groups, soloists and chamber music. Students will have regularly scheduled laboratory experiences in playing accompaniments for vocal and instrumental soloists and ensembles. Sight-reading, transposition, and various technical exercises will also be included. Recommended for piano majors. Offered on demand.

MUSI 3328 Elementary Music Methods and Materials for Majors ..... 3 hrs.

An in-depth introduction to various teaching methods and materials that can be used by the elementary general music teacher. Methods introduced will include Dalcroze, Gordon, Kodaly and Orff. Materials will be derived from numerous sources and will include music from many countries and cultures. Students will practice and demonstrate basic skills in voice, recorder, autoharp, and Orff instruments, and will practice writing and teaching lesson plans at the Pre-K- 8 grade level. PR: MUSI 1139 and 2219. Fall semester only.

MUSI 3330 Music in the Elementary Classroom ..... 3 hrs.

This course investigates fundamentals of music which can be utilized by the non-music teacher. The goal is to present pedagogical techniques that develop singing, listening, rhythm, movement, and other musical skills. The course will equip future elementary teachers with the skills to apply a variety of musical techniques in the classroom, both to teach musical content and to enhance other subject matter. Required for all Elementary Education majors. PR: Admission to Teacher Education.

MUSI 3347 Advanced Conducting ..... 2 hrs.

This course is a continuation of the techniques studied in MUSI 2245, with an emphasis on refinement of the manual technique as well as basic analytical and marking techniques required for score preparation. Spring semester only. PR: MUSI 2245.

MUSI 3360 Applied Music II ..... 2 hrs.

This is a repeatable junior/senior-level course providing one-on-one private music lessons to the music major. Two credit hours equal one one-hour private lesson per week. Students must consult with the instructor for an assigned lesson time during the first week of classes. Music majors must have passed the Sophomore Evaluation in the Music program. Music Majors and Secondary Education Music Majors only.

MUSI 3361 3 hrs. Introduction to Folk Music ..... 3hrs.

Introduction to Folk Music is an elective course focused on the combination of historical events that resulted in the major early settlement of the Appalachian Mountains, the music and instruments connected with the people who lived in those

mountains, the interaction of their music styles and cultures, and the unique music that emerged and eventually birthed much of the music heard today. It is an interactive class that uses traditional oral methods to learn and play songs on a heritage instrument in both individual and jam sessions. No prior experience or musical knowledge is required and mastery of the instrument is not difficult. Cross-listed as FOLK 3361.

**MUSI 4425** Marching Band Techniques (on demand) ..... 2 hrs.  
 This course is designed to explore the various components needed to direct a successful marching band program. Topics will include philosophies, administration, basic marching techniques, show design, accurate charting, music selection, auxiliary units, uniforms and rehearsal techniques.

**MUSI 4429** Instrumental Methods, Materials and Administration ..... 2 hrs.  
 Students in this course will learn advanced and practical applications of instrumental conducting techniques, methods, administration and materials used in teaching instrumental music in the secondary schools. Music Education majors only.

**MUSI 4430** Choral Methods, Materials and Administration 2 hrs.  
 Advanced and practical application of choral conducting techniques, methods, administration, materials used in teaching choral music in the middle and secondary schools. Music Education Majors only.

**MUSI 4431** Methods and Materials in Teaching Music ..... 2 hrs.  
 Techniques, methods and materials used in teaching and administering general music classes and high school music classes. Music Education Majors only. Fall semester.

**MUSI 4432** Choral Workshop (on demand) ..... 2 hrs.  
 This course is designed to upgrade choral instructors' teaching techniques and administration. Includes experiences in conducting choral groups, interpretation, participating in choral rehearsals and performances and the study of problems related to choral teaching and administration.

**MUSI 4433** Instrumental Workshop (on demand) ..... 2 hrs.  
 Offered to help students improve their instrumental teaching techniques and administration. Includes experiences in conducting instrumental groups, interpretation, participating in instrumental rehearsals and performances and the study of problems related to instrumental teaching and administration.

**MUSI 4434** Composition Workshop (on demand) ..... 2 hrs.  
 Study of the composition of choral and instrumental works. Students will hear works performed by live groups.

**MUSI 4435** Music Production Workshop ..... 1-3 hrs.  
 A laboratory experience in music theater. The course culminates in a public presentation of opera or musical comedy. PR: Instructor approval required.

**MUSI 4437** Area Studies in Music Literature I ..... 1-3 hrs.  
 Concentrated study of selected areas of music, to be determined by the instructor. Instructor approval required. Repeatable

**MUSI 4440** Senior Recital ..... 1 hr.  
 See Department of Music Handbook. All music majors are required to present a senior recital or its equivalent in public. Requires pre-recital hearing by the faculty jury. See Handbook.

**MUSI 4442 & 4443** Theory Workshop (on demand) ..... 2-3 hrs.  
 Identification of suitable materials for the teaching of theory in the high schools, as well as methodology and pedagogical procedures for theory instruction. May be repeated for additional credit, with a maximum of six hours.

**MUSI 4444** Elementary Workshop (on demand) ..... 1-2 hrs.  
 Identification of suitable materials for the teaching of elementary music, as well as new and innovative methodology. May be repeated for additional credit, with a maximum of four hours. PR: MUSI 3328. Instructor approval required. Offered on demand.

**MUSI 4998** Undergraduate Research ..... 0-6 hrs.  
 Undergraduate research is an experiential learning activity that provides an opportunity for a student to engage in the scholarly activities of their major discipline under the guidance of a faculty mentor who will work in close partnership with each student in his or her formulation of a project, the development of a research strategy, and the assessment of a student's progress. The primary goal is for each student scholar to conduct an inquiry or investigation that makes an original, intellectual or creative contribution to their discipline and which is shared in an appropriate venue. Sophomore-Senior Level, Repeatable. Instructor approval required.

## NATIONAL SECURITY AND INTELLIGENCE

**NSIS 3300** Intelligence Research ..... 3 hrs.  
 This course will integrate lecture and applications designed to develop basic skills in writing, research, analytical and presentations skills. The course will include lectures, discussions, and computer research design projects.

**NSIS 3305** History of National Security and Intelligence ..... 3 hrs.  
 An intermediate-level course on the origins, developmental milestones, important events and policies that shaped the United

States' intelligence infrastructure. There will be discussion of national security policy and actions that have been implemented, and analysis of their effectiveness. This course will develop skills in research, editing, writing and presentation. Students will be required to research assigned topics, collect documentation, edit references, write an analysis of a proposed course of action, and support a recommended course of action in an oral briefing with graphic slides. The format of this course is designed to acquaint the student to the time-sensitive and volatile nature of collection, analysis, production and dissemination of intelligence information. (Same course as HIST 3305)

NSIS 3315 National Security and Intelligence ..... 3 hrs.  
 This course provides an overview of issues impacting US national security and intelligence. The first half of this course examines the workings of the US national security apparatus by explaining the missions, roles, and functions of the various instruments of national power. The second half of the course offers a survey of issues around the world impacting US national security such as regional conflict, weapons proliferation, terrorism, organized crime, access to energy, economic stability, and environmental degradation. (Same course as POLI 3315)

NSIS 3325 Politics of Intelligence ..... 3 hrs.  
 This course examines the means and methods for setting intelligence priorities and ensuring that the activities of the United States Intelligence Community are conducted in a way that is constitutional, lawful, and consistent with American values. This course examines how intelligence oversight has evolved over time. This course explores intelligence oversight mechanisms within the Executive and Legislative Branches, as well as the informal oversight role played by the press and by public interest groups. (Same course as POLI 3325)

NSIS 3330 U.S. National Security Policy ..... 3 hrs.  
 This course will address the topic of U.S. national security policy from a historical-analytical, as well as contemporary perspective. The course begins with the National Security Act of 1947, proceeds through the impact of the 1986 Goldwater-Nichols reforms and ends with post-9/11 security considerations. The course will also focus on the policy process and current challenges in security policy including the Global War on Terror. (Same course as POLI 3330)

NSIS 3331 Intelligence and Covert Action ..... 3 hrs.  
 This course discusses the role the Intelligence Community plays in shaping and executing US national security policy, and how events since the end of the Cold War, 9/11, and the Iraq War have blurred the lines between analysis, operations, and policymaking. This course examines the role of the Intelligence Analyst, and examines how decision makers use and sometimes misuse Intelligence Community analysis - specifically addressing the issues of

politicization of intelligence and policy prescriptive analysis. In addition, the course explores how the changing nature of intelligence operations (both collection and covert action) has given the Intelligence Community a more direct role in national security policymaking. (Same course as POLI 3331)

NSIS 3332 Insurgency and Counterinsurgency ..... 3 hrs.  
 This course examines the theoretical basis of modern insurgency and counterinsurgency warfare. It explores the "fathers" of insurgency as a political strategy - Mao, Guevara, and Giap - as well as the modern interpretation of insurgency as propounded by Zawahiri. This course reviews the underpinnings of counterinsurgency theory. A series of case studies will provide examples of how these theories play out in "real world" scenarios. (Same course as POLI 3332)

NSIS 3333 Espionage, Counterintelligence and Strategic Deception ..... 3hrs  
 This course examines the role that espionage, counterintelligence, and strategic deception play in US national security. It will define these terms, examine their "tradecraft" and explore their strengths and weaknesses. The course will address issues such as why people commit treason, the psychological relationship between the Case Officer and Asset, and the moral implications of using these tools to advance US national security. (Same course as POLI 3333)

NSIS 3334 Fundamentals of Defense Intelligence ..... 3 hrs.  
 This course explores the fundamentals of defense intelligence as they apply to the United States. This course examines where defense intelligence fits into the larger U.S. intelligence community. All aspects of the intelligence cycle will be examined including planning, collection, processing, analysis, production and dissemination. This course will also explore multiple collection disciplines that support U.S. military operations and how the large defense intelligence apparatus supports national strategic, operational and tactical level decision-making by everyone from the President down to the company commander. (Same course as POLI 3334)

NSIS 3335 Congress and National Security ..... 3 hrs.  
 This course will examine the role of Congress in developing and shaping American national security policy. It will discuss Congress' formal and informal national security powers; the interplay among Congress, the presidency, and the courts; the impact of domestic and partisan politics on Congress' national security role; as well as the impact of special interest groups. (Same course as POLI 3335)

NSIS 3365 Homeland Security ..... 3 hrs.  
 This course examines critical homeland security knowledge domains, including strategy, history, terrorism, fear management,

crisis communication, conventional and unconventional threats, network leadership, weapons of mass destruction, lessons learned from other nations, civil liberties and security, intelligence and information, homeland security technology, and analytics. (Same course as POLI 3365)

NSIS 3380 Propaganda and Politics..... 3 hrs.

This course presents a critical analysis of the development, principles, strategies, media, techniques, and effects of propaganda campaigns from ancient civilizations to the modern technological society. The course focuses on propaganda in the context of government, religion, revolution, war, politics, and advertising, and explores implications for the future of propaganda in the cybernetic age. (Same course as POLI 3380)

NSIS 4400 Research in the Social Sciences ..... 3 hrs.

*Writing Intensive*

Students will explore the interaction of theory, research, and practice: the purposes and limits of research; introduction to research design, data collection, analytic techniques, data processing resources and preparation of research reports. PR: ENGL 1102. Junior or Senior status. (Same course as POLI 4400 and CRIM 4400)

NSIS 4411, 4412, 4413 Area Studies..... 3 hrs.

Studies of selected areas or regions of the world, conducted on an interdisciplinary basis. The area selected and the time span studied will be determined by the instructor. PR: Instructor approval required if offered as an arranged class; no prerequisite required if class meets regularly. (Same as POLI 4411, 4412 and 4413)

NSIS 4425 Military Justice ..... 3 hrs.

This course examines and evaluates current military legal practice and issues relevant to the Armed Forces of the United States. This course provides an examination of the history and principles of military justice and comparison of the military and civilian justice systems. Topics include the Uniform Code of Military Justice, military crimes, non-judicial punishment, jurisdiction of general and special military courts, military judges and panels, self-incrimination, search and seizure, pretrial confinement and restraint, plea bargaining, sentencing and appellate review in military courts. (Same course as POLI 4425)

NSIS 4435 Intelligence Law ..... 3 hrs.

This course will explore and examine the U.S. Intelligence Community and the legal framework governing the actions taken by the US government. The course will provide students with an overview of the Intelligence Community and the key legal authorities that support and guide the Intelligence Community. (Same course as CRIM 4435 and POLI 4435)

NSIS 4440 National Security Law.....3hrs.

This course will explore the distribution of national security powers amongst the three coordinate branches of government – Legislative, Executive & Judicial and engage students in understanding the laws and policies that govern important critical issues in the national security arena. (Same course as CRIM 4440 and POLI 4440)

NSIS 4445 Law of Armed Conflict/International Humanitarian Law ..... 3 hrs.

This course provides students with a general understanding of the international legal regulation of armed conflict – including humanitarian law, human rights law and international criminal law. The aim of the course is to enable students to understand the legal challenges of current and future armed conflicts, as well as enable them to critically analyze and evaluate concrete cases using both legal and political analysis. This is achieved by applying knowledge from readings and classes to a number of contemporary case studies with a specific emphasis on the role of international organizations such as the ICRC and U.N. (Same course as POLI 4445)

NSIS 4455 Model United Nations..... 1-12 hrs.

Model UN provides an academic learning experience through the simulation of the structures, processes, and issues of the member nations of the United Nations Organization. The Model UN class offers students a unique opportunity to learn about international relations while role-playing United Nations delegates. (Repeatable up to four times not to exceed 12 hrs.; Same course as POLI 4455)

NSIS4460 National Security and Intelligence Practicum ..... 1-12 hrs.

A supervised professional study conducted in the National Security and Intelligence field setting. Instructor approval required.

NSIS 4490 Capstone Seminar in National Security and Intelligence ..... 3 hrs.

A capstone course which requires students to explore in depth case studies related to national security and intelligence in the areas of national security, intelligence, law enforcement, industrial security, and cyber (information technology) security. Students will be required to collect information, assess vulnerabilities, develop sources, analyze data, write reports, maintain case files, prepare and give oral briefings, and defend recommended courses of action. Students will be supervised in the performance of a directed research project in conjunction with field work at a sponsoring agency. The objective will be an individual project which leads to a publishable intelligence product, enhances intelligence skills, or provides a unique service to a project mentor or organization. Student performance will be evaluated by a committee of faculty members. Input regarding the student's performance will be

invited and encouraged from the sponsoring agency. Senior standing or Instructor approval required.

NSIS 4499 Special Topics in National Security and Intelligence ..... 1-12 hrs.

Studies in special selected topics to be determined by the instructor and approved by the program advisor. Individual students with specific interests work on a tutorial basis with an appropriate professor. Repeatable up to 12 hrs.

NSIS 4998 Undergraduate Research ..... 0-6 hrs.

Undergraduate research is an experiential learning activity that provides an opportunity for students to engage in the scholarly activities of their major discipline under the guidance of a faculty mentor who will work in close partnership with each student in his or her formulation of a project, the development of a research strategy, and the assessment of a student's progress. The primary goal is for each student scholar to conduct an inquiry or investigation that makes an original, intellectual or creative contribution to their discipline and which is shared in an appropriate venue. Sophomore-Senior Level, Repeatable. Instructor approval required.

## NURSING

NURS 1101 Fundamentals of Nursing ..... 7 hrs.

This course is designed to introduce the beginning student to nursing, concepts essential to the practice of nursing, and the role of the nurse as a care provider. The clinical, laboratory, and simulation experiences involve the implementation of the nursing process and utilization of assessment and communication skills related to basic needs and life processes of individual patients. Factors, such as developmental levels, sociocultural differences, and mental & emotional status are included. (5 hours class, 6 hours lab per week) PR: Admission to the ASN Nursing Program, HLTA 1110, BIOL 1180 and 1181. HLTA 1110 and BIOL 1180 and BIOL 1181 may be taken concurrently.

NURS 1108 Nursing Care of Adults I ..... 6 hrs.

Nursing Care of Adults I is designed to assist students to use the nursing process to address common health problems of adults. The nursing roles of care provide, communicator, and teacher, are explored to assist individuals to promote and attain health. Clinical, laboratory, and simulation experiences enable the student to implement evidence-based patient-centered care using nursing judgement. The student is expected to integrate and use knowledge and skills acquired in prerequisite courses (4 hours class, 6 hours lab per week). PR: Admission to the ASN program, NURS 1101, NURS 1120, BIOL 2205. NURS 1120 and BIOL 2205 may be taken concurrently.

NURS 1115 Maternal-Child Nursing I ..... 4 hrs.

Maternal-Child Nursing I focuses on care of the mother in all states of pregnancy and care of the healthy newborn, infant, child, and adolescent. Clinical, laboratory, and simulation experiences will give students the opportunity to implement patient-centered care for the selected population. (3 hour class, 3 hours lab per week) PR: Admission to the ASN Program, NURS 1108, NURS 1120, and PSYC 1101. NURS 1108, NURS 1120, and PSYC 1101 may be taken concurrently.

NURS 1120 Nursing Pharmacology I ..... 1 hr.

The first pharmacology course is designed to introduce basic concepts of pharmacokinetics, classifications, indications, contraindications, actions, adverse effects, interactions, and nursing considerations related to common medications and their administration. Content is organized to correspond with concurrent nursing courses in a systems approach. (1 hour class per week). PR: Admission to the ASN program, NURS 1101.

NURS 1199 Special Topics in Nursing ..... 1-12 hrs.

This course is concerned with special studies in selected topics, to be determined by the instructor and approved by the School's Dean. Credits earned will be applicable as free electives in degree and certificate programs. Offered as needed.

NURS 1200 Nursing Care Across the Lifespan ..... 7 hrs.

This course provides LPN to ASN students the opportunity to build on prior knowledge of common health problems in patients across the lifespan. Emphasis is placed on the nursing process, patient-centered care, teamwork and collaboration, evidence-based practice, quality improvement, and safety. Content covered in this course begins with basic nursing concepts, fluid and electrolytes, the reproductive system including normal pregnancy, and immunity. Nursing care of patients with disorders of the integumentary, gastrointestinal, and renal systems is also presented including health promotion and maintenance. Selected skill and simulation labs on campus and clinical experiences in the hospital and community settings enable LPN to ASN students to build on knowledge and skills by incorporating clinical judgment in meeting patient needs. (5 hours class, 4 hours lab per week). PR: Admission to the LPN to ASN program.

NURS 1201 Mental Health Nursing Across the Lifespan ..... 3 hrs.

This course provides LPN to ASN students with information that builds on prior knowledge. The focus is on common mental health problems of patients across the lifespan, with an emphasis on patient-centered care, teamwork and collaboration, evidence-based practice, quality Improvement, and safety. Selected laboratory and simulated experiences enable the students to develop the knowledge and skills to use the nursing process to meet the needs of patients having mental health disorders. This course stresses

self-awareness, improving therapeutic communication skills, and establishing interpersonal relationships. Topics also include maladaptive behavioral patterns, current therapies, community mental health resources, and the role of nurse as communicator, teacher, and care provider. The concepts of holistic care, diversity, psychosocial environment, and human development are addressed as they apply throughout the course. (2 hours class, 2 hours lab per week). PR: Admission to the LPN to ASN program, PSYC 1101, ENGL 1101.

**NURS 1202 Assessment Across the Lifespan I .....1hr.**  
This course provides LPN to ASN students with an introduction to physical assessment of the patient across the lifespan. The focus of this course is the nursing assessment of integumentary, reproductive, gastrointestinal, and renal systems. Technical skills necessary for patient assessment will be covered. Students will explore factors including sociocultural diversity, mental and emotional status, and developmental levels, which influence the techniques of communication and health assessment. Emphasis will be placed on integrating appropriate clinical judgment with assessment skills in various patient circumstances and situations. (1 hour class per week). PR: Admission to the LPN to ASN program, BIOL 1180/81.

**NURS 1203 Transition for the Licensed Practical Nurses ..... 1 hr.**  
This course introduces the concepts and processes necessary for professional nursing practice. A major focus is the transition from licensed practical nurse to registered nursing student. This course emphasizes time management, test taking skills, the role of an adult learner, informatics, and the transition from a technical role to the role of a professional. (1 hour class per week). PR: Admission to the LPN to ASN program, or ASN program, and status as a Licensed Practical Nurse.

**NURS 1204 Pharmacology Across the Lifespan I ..... 1 hr.**  
This course provides LPN to ASN students the opportunity to build on prior knowledge of the pharmacologic and pharmacokinetic effects of medications on the body. Content to be emphasized includes medications used for fluid and electrolytes imbalances, pain control, and maternal-newborn care. In addition, medications used for the reproductive, integumentary, immune, gastrointestinal, and renal systems will be presented. This course encourages LPN to ASN students to increase knowledge of medications by understanding the effects of medications on patients across the lifespan. (1 hour class per week). PR: Admission to the LPN to ASN program.

**NURS 2110 Nursing Pharmacology II.....1 hr.**  
The second pharmacology course is designed to introduce basic concepts of pharmacokinetics, classification, indications, contraindications, actions, adverse effects, interactions, and

nursing considerations related to common medications and their administration. Content is organized to correspond with concurrent nursing courses in a systems approach. (1 hour class per week) PR: Admission to the ASN Program, NURS 1120.

**NURS 2115 Maternal-Child II.....2 hrs.**  
Maternal-Child Nursing II focuses on care during the stages of labor and delivery. Students will also examine health problems, disorders and illnesses common in pregnancy and children in each stage of development, from infancy through adolescence. The students will participate in clinical experiences to enhance his/her knowledge in maternal-child nursing while providing evidence-based patient centered nursing care, using nursing judgement. (1.5 hours class, 1.5 hours lab per week) PR: Admission to the ASN Program, NURS 1115, NURS 2110. NURS 2110 may be taken concurrently.

**NURS 2203 Mental Health Nursing .....4 hrs.**  
This course is a study of mental health and common mental illnesses as they affect adults, children and families. Selected clinical experiences provide the student with the opportunity to develop the knowledge, empathy, and skills to provide safe patient-centered care in the psychiatric setting. The student may also participate in the interdisciplinary team meetings. This course stresses the importance of developing self-awareness, improving communication skills, and establishing inter-personal relationships. (3 hours class, 3 hours lab per week) PR: Admission to the ASN Program, PSYC 1101, NURS 1108, NURS 2110. NURS 2110 may be taken concurrently.

**NURS 2208 Nursing Care of Adults II.....6 hrs.**  
Nursing Care of Adults II is designed to assist students to use the nursing process to address common health problems of adults. The nursing roles of care provider, communicator, and teacher are explored to assist individuals to promote and attain health. Clinical, laboratory, and simulation experiences enable the students to implement evidence-based patient-centered care using nursing judgement. The student is expected to integrate and use knowledge and skills acquired in prerequisite courses (4 hours class, 6 hours lab per week). PR: Admission to the ASN Program, BIOL 2205, NURS 1108, NURS 2110. NURS 2110 may be taken concurrently.

**NURS 2210 Nursing Pharmacology III ..... 1 hr.**  
The third pharmacology course is designed to introduce the concepts of pharmacokinetics, classification, indications, contraindications, actions, actions, adverse effects, interactions, and nursing considerations related to medications commonly administered in complex or emergent situations. Content is organized to correspond with concurrent nursing courses in a

systems approach (1 hour class per week). PR: Admission to the ASN Program, NURS 2110.

NURS 2211 Professional Role Transition ..... 2 hrs.

This course is designed to facilitate the nursing student's transition to the role of registered professional nurse. This course addresses current nursing trends, issues, and the delivery and management of healthcare. The course stresses the importance of developing professional goals with an emphasis on socialization into the nursing profession, management of multiple patients, inter-professional collaboration, and application of clinical judgment skills (2 hours class per week). PR: Admission to the ASN Program, NURS 2208 and NURS 2215. NURS 2215 may be taken concurrently.

NURS 2212 Nursing Care of Adults III ..... 3 hrs.

Nursing Care of Adults III is designed to assist students to use the nursing process to address complex health problems of adults. Emergency care is also discussed. Students learn how to perform in multiple nursing roles within a complex healthcare environment to provide safe evidence-based patient centered nursing care while using nursing judgement. The student is expected to integrate and use knowledge and skills acquired in prerequisite courses (3 hours class per week). PR: Admission to the ASN Program, NURS 2208, NURS 2211. CR: NURS 2220. NURS 2210 and 2211 may be taken concurrently.

NURS 2215 Maternal-Child Nursing III ..... 2 hrs.

Maternal-Child Nursing III focuses on nursing care of the mother and newborn experiencing complications during prenatal, labor, delivery, and postpartum periods. Students will also focus on the child with more complex health problems. Clinical, laboratory, and simulation experiences will give students the opportunity to implement safe evidence-based patient-centered care for the selected population (1.5 hours class, 0.5 hours lab per week). PR: Admission to the ASN Program, NURS 2115, NURS 2210. NURS 2210 may be taken concurrently.

NURS 2220 Nursing Capstone Clinical ..... 2 hrs.

This capstone clinical course allows students to synthesize knowledge from nursing and non-nursing courses to provide safe evidence-based patient-centered care to adult patients. Students are assigned to preceptors in the clinical setting and participate in faculty-guided seminars and simulation experiences throughout the semester. Students integrate all program concepts and content as they prepare for the roles of the registered professional nurse and an inter-professional collaborative practice (6 hours lab per week). PR: Admission to the ASN Program, NURS 2211, NURS 2215. CR: NURS 2212. NURS 2211 and NURS 2215 may be taken concurrently.

NURS 2301 Nursing Care Across the Lifespan II ..... 7 hrs.

This course is a continuation of Nursing Care Across the Lifespan I and provides LPN to ASN students the opportunity to build on prior knowledge. The focus is on common health problems of patients across the lifespan, with an emphasis on the nursing process, patient-centered care, teamwork and collaboration, evidence-based practice, quality Improvement, and safety. Nursing care of patients with disorders of hematologic, cardiovascular, respiratory, endocrine, musculoskeletal, and neurological systems is also presented including health promotion and maintenance. In addition, the care of the patient with cancer and/or end-of-life issues is presented. Selected laboratory experiences in caring for patients in the hospital and community, as well as high-fidelity simulations will enable the LPN to ASN student to acquire the knowledge and skills to meet the patient's needs by delegating and implementing effective patient care. (5 hours didactic, 4 hours lab per week). PR: Admission to the LPN to ASN program and NURS 1200. BIOL 2205 may be taken concurrently.

NURS 2302 Assessment Across the Lifespan II ..... 1 hr.

This course is a continuation of Assessment Across the Lifespan I and provides LPN to ASN students with an introduction to physical assessment of the patient across the lifespan. The focus of this course is the nursing assessment of cardiovascular, respiratory, ear and eye, musculoskeletal, and neurological systems. Technical skills necessary for patient assessment will be covered. Students will explore factors including sociocultural diversity, mental and emotional statuses, and developmental levels, which influence the techniques of communication and health assessment. Emphasis will be placed on integrating appropriate clinical judgment with assessment skills in various patient circumstances and situations. (1 hour class per week). PR: Admission to the LPN to ASN program, NURS 1202.

NURS 2303 Pharmacology Across the Lifespan II ..... 1 hr.

This course is a continuation of Pharmacology Across the Lifespan I and provides LPN to ASN students the opportunity to build on prior knowledge of the pharmacologic and pharmacokinetic effects of medications on the body. The content emphasizes medications used for problems with the vascular, hematologic, cardiovascular, respiratory, endocrine, musand neurological systems including ear and eye. In addition, medications used for cancer and/or end-of-life care are presented. This course encourages the LPN to ASN student to increase their knowledge of medications by understanding the effects of medications on individuals across the life span. (1 hour class per week). PR: Admission to the LPN to ASN program, NURS 1204.

NURS 2401 Nursing Care Across the Lifespan III ..... 5 hrs.

This course, along with the capstone course, focuses on complex and critical health problems of patients across the lifespan.

Learning experiences provide LPN to ASN students the opportunity to integrate clinical judgment and decision making. Emphasis is placed on the use of the nursing process to promote health across the wellness-illness continuum. Additional content includes emergency and disaster nursing. (5hour class per week).PR: Admission to the LPN to ASN program, NURS 2301.

NURS 2402 Role Transition, Professionalism, and Management .....3 hrs.

This is the capstone course designed to facilitate LPN to ASN students' transition from the role of a technically prepared nurse to the role of a registered professional nurse. This course addresses trends, issues, and management of safe evidence-based health care for patients across the lifespan. Knowledge, skills, and attitudes necessary to continuously improve the quality and safety of patients within healthcare systems are emphasized. (3 hour class per week). PR: Admission to the LPN to ASN program, ENGL 1102.

NURS 2403 Capstone Clinical Experience ..... 3 hrs.

This is the capstone clinical experience where LPN to ASN students are expected to select a preceptor/role model to assist with understanding the role of a registered professional nurse through a preceptor-facilitated clinical experience. The clinical experience is tailored to each student's interest and professional goals with emphasis on socialization into the nursing profession, management of multiple clients, and application of clinical judgment skills. Students will attend seminars on campus to share and reflect on clinical experiences. (96 lab hours per semester) PR: Admission to the LPN to ASN program and NURS 2302. NURS 2401 may be taken concurrently.

NURS 2404 Pharmacology Across the Lifespan III .....1 hr.

This course provides LPN to ASN students the opportunity to build on prior knowledge of the pharmacologic and pharmacokinetic effects of medications on the body. Also, this course concentrates on the advanced concepts of medication administration. Drug classifications, actions, and implications related to the administration of medications for various organ systems are expanded upon. Content emphasized includes the use of medications in critical and complex situations with patients across the lifespan. PR: Admission to the LPN to ASN program, NURS 2303.

NURS 3320 Health Assessment ..... 4 hrs.

This course is designed to help students develop skills as providers in health/physical assessment. It includes discussion, demonstration, and the practice of assessment concepts and techniques applicable to various cultural groups and patients across the life span. Critical thinking skills are used to analyze assessment findings and apply them to patient-centered nursing care. (3 hours class, 2 hours lab per week). PR: Admission to the

BSN Program or successful completion of the first year of the ASN program.

NURS 3340 Nursing Care of the Older Adult.....3 hrs.

This course explores the unique health-related needs of the older adult. Community experiences give students the opportunity to practice using skills to provide safe, effective, evidence-based care to the older adult. Also explored are the needs of families and caregivers in relationship to the older adult. Special attention is given to culture, legal and ethical care, health promotion, resource management, multi-system disorders, patient-centered care, and interprofessional collaboration (2.5 class hours, 1 lab hour per week). PR: Admission to the BSN program or successful completion of the first year of the ASN program.

NURS 3350 Professional Nursing Concepts .....3 hrs.

*Writing Intensive*

This course is designed to introduce the concepts of professional nursing practice and the nurse generalist role. Students explore the healthcare context, health policy, and political action. The core health care competencies, as identified by the Institute of Medicine, are examined. Topics include patient-centered care, interprofessional teams, evidence-based practice, quality improvement, and informatics. The scope of the coursework covers the history, current state, and future of nursing in order to prepare registered nurses for diverse and dynamic professional roles. (3 hours class per week) PR: Admission to the BSN program, ENGL 1102 or 1103, and NURS 3320; NURS 3320 may be taken concurrently. Active, unencumbered registered nursing license.

NURS 3360 Nursing Ethics .....3 hrs.

This course explores the values, codes, principles, and professional standards that govern bioethical and ethical decisions in professional nursing practice. The course supports the student in developing the professional role and the values of altruism, autonomy, human dignity, integrity, and social justice. The course investigates the emerging field of genomics as it relates to ethical decision-making. Case studies of ethical dilemmas are analyzed, and concepts learned are applied to nursing practice. (3 hours class per week) PR: NURS 3350 or may be taken concurrently. Active, unencumbered registered nursing license required.

NURS 3399 Special Topics in Nursing ..... 1-12 hrs.

This course is concerned with special studies in selected topics, to be determined by the instructor and approved by the School's Dean. Credits earned will be applicable as free electives.

NURS 4400 Research in Nursing Practice ..... 3 hrs.

This course focuses on using research findings to provide nursing care. Students work in teams and use an evidence based model to appraise the applicability and feasibility of new findings and to

solve a clinical problem. As part of that model, students must disseminate findings to outside professional agencies and to their peers. Emphasis is placed on critical thinking, team work, ethics, professionalism, patient-centered care, and life-long learning (3 class hours per week). PR: NURS 3350 Statistics may be taken concurrently. Accelerated Program: Instructor approval required. Active, unencumbered registered nursing license required.

**NURS 4410 Community Health Nursing** ..... 5 hrs.  
 This course focuses on the theories and principles underlying current community health nursing practice. Students explore the reciprocal relationships among individuals, families, and populations as they relate to health promotion, maintenance, and restoration. Emphasis is placed on evidence-based practice, utilization of resources, team work, critical thinking, cultural competence, and community nursing. Community experiences allow student to practice providing patient-centered care (3 hours class, 60 clinical project contact hours per semester).PR: NURS 3360 and NURS 4400. NURS 3360 and 4400 may be taken concurrently. Program: Instructor approval required. Active, unencumbered registered nursing license required.

**NURS 4430 Leadership and Management in Nursing Practice** ..... 3 hrs.  
 In this course, students will explore the nurse generalist's roles as leaders and managers. Leadership and management theories and principles are explored and applied to a variety of health care situations. Emphasis is placed on critical thinking and decision making, team work, change theory, communication skills, conflict management, quality improvement, and resource management (3 hours class per week). PR: BSBA 2209 or MGMT 3308, and NURS 4410. MGMT 3308 or BSBA 2209 may be taken concurrently. Accelerated Program: Instructor approval required. Active, unencumbered registered nursing license required.

**NURS 4440 Nursing Practicum** ..... 4 hrs.  
 This capstone course assists students with the integration and application of knowledge, skills, and attitudes in the professional nurse generalist role. As part of the clinical practicum, students partner with a practicing nurse leader to apply leadership and management skills, implement a change project, and engage in inter-professional collaboration. (2 hour class, 4 hours lab per week). PR: NURS 4430 may be taken concurrently. This course should be taken in the last semester of the nursing program.

**NURS 4441 School Nurse Practicum** ..... 4 hrs.  
 This clinical practicum is designed to help registered nurses with BSN degrees meet the West Virginia Board of Education standards for practicing school nurses. This specialization prepares nurses for their role as a professional and provider of age-appropriate, patient-centered care in the school setting. The focus in the course

is on health education, child-centered care, and advocacy for children and their families. Students currently enrolled in the BSN Program may take this course in the final semester or following graduation (One hour class, 6 hours lab per week). PR: Must be a registered nurse with an active, unencumbered WV license. Must be a graduate of an accredited BSN program. Instructor's approval required.

**NURS 4499 Special Topics in Nursing** ..... 1-12 hrs.  
 This course is concerned with special studies in selected topics, to be determined by the instructor and approved by the School's dean. Credits earned will be applicable as free electives.

**NURS 4998 Undergraduate Research** .....0-6 hrs.  
 Undergraduate research is an experiential learning activity that provides an opportunity for a student to engage in the scholarly activities of their major discipline under the guidance of a faculty mentor who will work in close partnership with each student in his or her formulation of a project, the development of a research strategy, and the assessment of a student's progress. The primary goal is for each student scholar to conduct an inquiry or investigation that makes an original, intellectual or creative contribution to their discipline and which is shared in an appropriate venue. Sophomore-Senior Level, Repeatable. Instructor approval required.

## PHILOSOPHY

**PHIL 1150 Theories of Human Nature** .....3 hrs.  
 This course is an introductory survey on theories of human nature, covering a wide range of positions on what makes us human. The theories addressed in this course include positions coming from various religions (e.g., Christianity, Islam, Confucianism, Hinduism, Buddhism), classic philosophical systems (e.g. Plato, Aristotle, Marx, Sartre), and leading scientific frameworks (e.g., Darwinian Evolution). Each theory represents a complete system of thought, incorporating views on the universe and how we fit into it, a diagnosis of the problems facing humanity, and a sense for how we should best live our lives. Emphasis will also be placed on students developing the analytical and argumentative tools requires for properly assessing theories of human nature. Elective Course. No prerequisites.

**PHIL 1199 Special Topics in Philosophy** ..... 1-12 hrs.  
 The topic to be studied will be determined by the instructor and approved by the chairperson. Credits earned will be applicable as free electives in degree and certificate programs.

**PHIL 2200 Introduction to Philosophy** .....3 hrs.  
 This course serves as a general, topic-based introduction to philosophy. Philosophy wrestles with the enduring questions of

life, including: Can we know anything about the external world? Do we have free will? How can someone change so dramatically over time and yet remain the same person? And does God exist? While these sorts of questions are difficult to resolve, this course emphasizes the skills needed to tackle them: to think critically, to construct and evaluate chains of reasoning, and consider many perspectives on any given subject (which are highly transferable to other fields).

PHIL 2250 Great Philosophers ..... 3 hrs.

This course serves as an introduction to philosophy, using classic texts from the western philosophical tradition. Rather than being topic-based, this class focuses on prominent attempts to systematically answer a number of fundamental questions, including: Does knowledge rest on a foundation afforded by reason or the senses? Is there a privileged means of gaining knowledge? And are sensible objects ultimately physical objects or constructions of the mind? By examining how philosophers have systematically answered these (and other) questions, students will not only have the opportunity to evaluate major achievements in our intellectual tradition, but also reinforce how the answer to one major question can condition answers to others (making for a consistent, and potentially intricate, position). Emphasis will also be placed on students acquiring the basic analytical and argumentative tools for grappling with philosophical issues.

PHIL 2275 Introduction to Logic and Critical Reasoning ..... 3 hrs.

This course is an introduction to the study of arguments and critical reasoning, as well as how they occur in real-life contexts. Students are expected to learn the role and importance of arguments, how to recognize when arguments are being offered (as opposed, say, to definitions or explanations), how to extract and reconstruct them from their natural language settings, how to classify arguments, how to distinguish between good arguments and fallacious ones, and how to use them well. (Students preparing for the study of law will find this course especially helpful.) Elective Course. No prerequisites.

PHIL 3325 Ethics ..... 3 hrs.

A study and evaluation of classical and contemporary theories of right and wrong, good and bad and inhuman conduct, with emphasis on the implications of these theories for resolving contemporary moral problems. The corrosion of dogmatic ethical positions through skepticism and relativism is examined, and helpful responses are introduced. Students will discuss problems in medical ethics as well.

PHIL 3350 Comparative Religion ..... 3 hrs.

Description and analysis of the philosophical thought underlying the major religions of the world.

PHIL 4400 Seminar ..... 3 hrs.

Research and reading for advanced students. Participants are required to write a paper on a philosophical issue of their interest.

PHIL 4475 Philosophy of History ..... 3 hrs.

A survey of the philosophical positions, both speculative and analytical, that have been advanced to evaluate humanity's historical understanding and experience. Credit in either philosophy or European history.

PHIL 4499 Special Topics in Philosophy ..... 1-12 hrs.

The topic to be studied (at an advanced level) will be determined by the instructor and approved by the chairperson. Credits earned will be applicable as free electives in degree and certificate programs. PR: at least one philosophy course or permission of the instructor.

PHIL 4998 Undergraduate Research ..... 0-6 hrs.

Undergraduate research is an experiential learning activity that provides an opportunity for a student to engage in the scholarly activities of their major discipline under the guidance of a faculty mentor who will work in close partnership with each student in his or her formulation of a project, the development of a research strategy, and the assessment of a student's progress. The primary goal is for each student scholar to conduct an inquiry or investigation that makes an original, intellectual or creative contribution to their discipline and which is shared in an appropriate venue. Sophomore-Senior Level, Repeatable. Instructor approval required.

## PHYSICAL EDUCATION

PHED 1100

Fitness and Wellness ..... 2 hrs.

This course is designed to provide an opportunity for students to make intelligent choices concerning lifelong wellness and to achieve optimum levels of fitness through regular exercise, proper nutrition, weight control and stress management.

PHED 1101 Basic Physiological Conditioning-Health ..... 1 hr.

This course covers the analysis, application and integration of basic physical conditioning and health concepts. The course is offered in eight-week sessions.

PHED 1102 Weight Training/Lifting ..... 1 hr.

The analysis and application of the rules, boundaries, strategies, psychomotor skills and safety aspects of the individual sport of weight training/lifting are studied. The course is offered in eight-week sessions.

- PHED 1110 Archery ..... 1 hr.  
The analysis and application of rules, psychomotor skills, and safety aspects of the lifetime sport of archery. This course is offered in eight-week sessions.
- PHED 1111 Aerobics..... 1 hr.  
The analysis and application of the psychomotor skills, fitness components, and safety aspects in the lifetime activity of dance aerobics are studied. This course is offered in eight week sessions.
- PHED 1112 Badminton ..... 1 hr.  
The analysis and application of rules, boundaries, strategies, psychomotor skills, and safety aspects of the individual sport of badminton. This course is offered in eight-week sessions.
- PHED 1114 Bowling ..... 1 hr.  
The analysis and application of rules, strategies, psychomotor skills, and safety aspects of the individual sport of bowling. This course is offered in eight-week sessions.
- PHED 1116 Casting and Angling ..... 1 hr.  
The analysis and application of the psychomotor skills and safety aspects of the individual sport of casting and angling. This course is offered in eight-week sessions.
- PHED 1117 Disc Sports..... 1 hr.  
The analysis and application of the rules, game strategies, psychomotor skills and safety aspects in the life time sport of ultimate and disc golf are studied. This course is offered in eight week sessions.
- PHED 1120 Basketball (Beginning)..... 1 hr.  
An introduction to the analysis and application of the rules, boundaries, strategies, psychomotor skills and safety aspects of the team sport of basketball. This course is offered in eight-week sessions.
- PHED 1121 Introductory Seminar in Human Movement ..... 2 hrs.  
General survey of instructional and non-educational professional career alternatives available within physical education. Students will discuss issues, trends, history, philosophy, and future career directions in physical education.
- PHED 1124 Volleyball ..... 1 hr.  
The analysis and application of rules, boundaries, strategies, psychomotor skills, and safety aspects of the team sport of volleyball. This course is offered in eight-week sessions.
- PHED 1125 Table Tennis ..... 1 hr.  
The analysis and application of the rules, game strategies, psychomotor skills and safety aspects in the life time sport of table tennis are studied. This course is offered in eight week sessions.
- PHED 1126 Tennis (Beginning) ..... 1 hr.  
The student will be introduced to basic skills, rules, boundaries, game situations and team play.
- PHED 1130 Flag Football ..... 1 hr.  
Addresses the analysis and application of the rules, boundaries, strategies, psychomotor skills and safety aspects of the team sport of flag football. This course is offered in eight-week sessions.
- PHED 1140 Golf ..... 1 hr.  
This course focuses on the analysis and application of the rules, boundaries, strategies, psychomotor skills and safety aspects of the individual sport of golf. This course is offered in eight-week sessions.
- PHED 1145 Pickle Ball ..... 1 hr.  
The analysis and application of the rules, game strategies, psychomotor skills and safety aspects in the life time sport of pickle ball are studied. This course is offered in eight week sessions.
- PHED 1155 Track and Field..... 1 hr.  
The analysis and application of the rules, strategies, psychomotor skills and safety aspects of the various components that make up track and field activities are studied. This course is offered in eight week sessions.
- PHED 1160 Soccer ..... 1 hr.  
The analysis and application of rules, boundaries, strategies, psychomotor skills, and safety aspects of the team sport of soccer. This course is offered in eight-week sessions.
- PHED 1162 Softball ..... 1 hr.  
The analysis and application of the rules, boundaries, strategies, psychomotor skills and safety aspects of the team sport of softball are studied. This course is offered in eight-week sessions.
- PHED 1164 Speedball..... 1 hr.  
The analysis and application of rules, boundaries, strategies, psychomotor skills, and safety aspects of the team sport of speedball. This course is offered in eight-week sessions.
- PHED 1199 Special Topics in Physical Education ..... 1-12 hrs.  
Special topics will be studied, to be determined by the instructor and approved by the School's chairman. Credits earned will be applicable as free electives in degree and certificate programs.

PHED 2200 Accident Analysis and Emergency Care ..... 2 hrs.  
An analysis of problematic areas of accident causation, prevention, emergency treatment and control pertinent to the elementary school environment and teacher responsibilities.

PHED 2201 Introduction to Sport Management..... 3 hrs.  
This course introduces students to the sport industry, the wide range of career opportunities in sport and the economic impact of sport in America. This course includes both the theoretical and applied dynamics of sport management, and topical areas includes political management, operational management, marketing management, event management, staff management and risk management. Required course; CR: BSBA 2209, Principles of Management.

PHED 2211 Anatomy and Physiology..... 4 hrs.  
An introduction to the basic knowledge of the structure and functions of the human body and the changes that occur during physical activity and sport.

PHED 2216 Group Fitness Instruction/Programming ..... 2 hrs.  
This course is designed to provide theoretical knowledge and practical skills in preparation for group fitness instruction.

PHED 2218 Advanced Personal Training ..... 3 hrs.  
Designed to synthesize the knowledge acquired from an exercise science curriculum with practical application for successful job performance in the fitness industry.

PHED 2232 Basic Aquatics..... 2 hrs.  
Introduction to the knowledge and skills necessary to become proficient and safe in or on the water.

PHED 2233 Advanced Aquatics-Lifeguarding ..... 2 hrs.  
Basic and advanced swimming strokes are examined, with an emphasis on achieving proficiency in lifeguarding techniques. Does not apply to Recreation minor. Successful completion of this course is required for Red Cross certification.

PHED 2240 Outdoor Leisure Activities ..... 2 hrs.  
Safety, knowledge and skills specific to incorporating outdoor recreation into the physical education classroom. Activities are applied and analyzed through the following: experiential education, rappelling, rock climbing, orienteering, geocaching, and others.

PHED 2241 Gymnastics and Dance ..... 2 hrs.  
This course analyzes and applies safety, instructional strategies, and skill techniques characteristic of gymnastics and dance in basic tumbling, fundamental jazz and aerobic dance.

PHED 2242 Social Dance..... 2 hrs.  
This course is designed to prepare the pre-service teacher to select, instruct, and evaluate a variety of multi-cultural dances for early childhood, middle childhood and adolescent education.

PHED 2243 Teaching Team Passing Sports..... 3 hrs.  
This course is designed to train pre-service teachers to instruct in the following areas: flag football, soccer, basketball, and speedball. Students are required to perform, assess, and analyze fundamental skills in each area. Knowledge of game rules, terminology, safety issues, equipment and playing strategies will enable students to design learning opportunities for different developmental levels of children and adolescents. Majors only restriction

PHED 2244 Teaching Wall-Net Sports..... 3 hrs.  
This course is designed to train pre-service teachers to instruct in the following areas: badminton, table tennis, tennis, pickleball, and volleyball. Students are required to perform, assess, and analyze fundamental skills in each area. Knowledge of game rules, terminology, safety issues, equipment and playing strategies will enable students to design learning opportunities for different developmental levels of children and adolescents. Majors only restriction

PHED 2246 Teaching Striking / Target Sports ..... 3 hrs.  
This course is designed to train pre-service teachers to instruct in the following areas: softball, golf, disc sports, and bowling. Students are required to perform, assess, and analyze fundamental skills in each area. Knowledge of game rules, terminology, safety issues, equipment and playing strategies will enable students to design learning opportunities for different developmental levels of children and adolescents. Majors only restriction

PHED 3310 Motor Behavior ..... 3 hrs.  
This course provides undergraduate students with the knowledge necessary to implement developmentally appropriate motor learning experiences in physical education/activity settings. Course information emphasizes learner/performance characteristics, factors affecting movement change, designing developmentally appropriate tasks progressions, and employing theoretically driven instructional approaches to promote success-oriented movement change. PR: PHED 1121.

PHED 3312 Physiology of Exercise ..... 3 hrs.  
This course investigates the knowledge of basic physiological adaptations that accompany physical activity and sport. PR: C or better in PHED 2211 or BIOL 1180-81.

PHED 3313 Biomechanics..... 3 hrs.  
The study of humans in motion, including the structures that are responsible for motion and the forces that influence human motion. PR: C or better in PHED 2211 or BIOL 1180-81.

PHED 3314 Group Fitness Instruction/Programming ..... 2 hrs.  
This course is designed to provide theoretical knowledge and practical skills in preparation for group fitness instruction. PR: PHED 3312 with a C or above.

PHED 3315 Advanced Personal Training ..... 3 hrs.  
Designed to synthesize the knowledge acquired from an exercise science curriculum with practical application for successful job performance in the fitness industry. PR: PHED 3312 with a C or above.

PHED 3316 Fitness Assessment and Exercise Physiology .... 3 hrs.  
The study of methods of determining fitness levels, developing safe exercise programs and developing and administering group exercise/wellness programs. Emphasis is placed on evaluation techniques and exercise prescription. PR: C or better in PHED 3312.

PHED 3317 Clinical Applications of Exercise Physiology ..... 3 hrs.  
Study of exercise programs for improving the health-related physical fitness of specialized populations. Exposure to cardiac and pulmonary evaluation techniques for purposes of diagnosis and exercise prescription in symptomatic and asymptomatic populations. PR: C or better in PHED 3316.

PHED 3318 Sport Social Psychology..... 3 hrs.  
This course is designed to introduce undergraduate students to a broad overview of major topics in sport and exercise psychology. The primary course objective is to facilitate students' understanding of how psychological factors impact performance in sport and physical activity settings; and how participation in sport/physical activity affects individuals and groups. PR: PSYC 1101.

PHED 3320 Lifespan Motor Development..... 3 hrs.  
The course will study changes in motor behavior over the human lifespan and the processes which underlie these changes. Emphasis will be placed on current issues and research in motor development. PR: PHED 1121.

PHED 3323 Teaching Elementary Physical Education ..... 3 hrs.  
This course examines the analysis and application of instructional strategies, psychomotor skills and patterns characteristic to the elementary physical education curriculum in the following areas: movement education, fundamental and manipulative skills, rhythmic activities and sport lead-up games. Fall semester only.

PHED 3324 Performance-Based Assessment..... 3 hrs.  
This course examines the evaluative process through the design and application of performance-based assessment instruments. The course will focus on authentic assessment of standards-based instruction in the physical education setting from pre-school

through adolescent grade levels. PR: Math 1107 or higher, PHED 3323

PHED 3325 Instructional Strategies ..... 3 hrs.  
*Writing Intensive*

This course is based on a motor development perspective with regard to the design of curriculum, instructional plans and assessment instruments. The scope of this course addresses instructional strategies across the developmental span of pre-kindergarten through the high school levels in a physical education setting. PR: ENGL 1102, PHED 3323

PHED 3326 Early Psychomotor Development..... 3 hrs.  
An analysis of the growth, development, and maturation of cognitive, psychomotor, affective and social sport behaviors of children. Students will explore activities pertinent to early childhood experiences.

PHED 3342 Field Experience in Adapted Physical Education ..... 2-4 hrs.  
A field experience in working with institutions and organizations which provide services to the handicapped. Variable credit is dependent upon the nature and duration of the field experience. PR: PHED 3343.

PHED 3343 Adapted Physical Education Activities..... 3 hrs.  
This course is designed to provide an understanding of the areas of exceptionalities with an emphasis on the inclusion of students with high incidence disabilities in a physical activity environment. Instructional strategies in modifying physical activity to meet the needs of the individual are analyzed and applied in an activity lab setting. There will be practical experience in the public school setting. PR EDUC 2240. Spring only.

PHED 3350 Physical Activity & Fitness Education ..... 3 hrs.  
This course introduces undergraduate students to the foundations and components of health-related physical activity and fitness programming across the lifespan. Emphasis is placed on applying theoretically and developmentally appropriate health-related fitness education concepts, training principles, assessments and physical activities in the instructional setting. PR: PHED 3312.

PHED 3353 Field Experience in Sport Coaching ..... 2-4 hrs.  
Field experience will be provided to involve the student as an intern coach in either an intercollegiate or interscholastic sport program.

PHED 3354 Sports Officiating ..... 2 hrs.  
This course involves the technical and theoretical aspects of sport officiating. The first-semester course will emphasize men's

regulations common to the sport; the second semester will emphasize women's regulations common to the sport.

PHED 3355 Scientific Foundations of Sport Coaching ..... 4 hrs.

The student will examine basic human physiological adaptations that occur during participation in sport activities. Basic mechanical laws and principles and their application to the performance of sport activities will be studied.

PHED 3356 Administration and Coaching of Sport ..... 3 hrs.

This course focuses on basic psychological, philosophical and technical knowledge and its relationship to the coaching of sport activities. Further emphasis will be placed on the principles and practices that are required in the planning, organization and administration of sport programs.

PHED 3357 Sport & the Law..... 2 hrs.

The course examines a variety of sport situations that help students appreciate the legal and ethical dilemmas facing those who participate in and manage the sport enterprise. Students will gain understanding of a wide range of legal principles applicable to the role of the sport manager. A major focus of this course is the review of judicial opinions that frequently arise in cases involving organized sport. Required course; PR: BSBA 3306, Business Law I. Spring, Odd Years

PHED 3358 Techniques of Sport Coaching ..... 6 hrs.

A presentation of sport skill techniques in combination with the theoretical aspects of sport coaching. A field experience in sport coaching will be provided through an internship in two selected intercollegiate or interscholastic sports programs.

PHED 3360 Strength & Conditioning Theory and Practice.... 3 hrs.

This course examines the scientific principles and procedures involved in the assessment of physical fitness and exercise prescription. Special attention is given to understanding and implication of methods and techniques associated with the design of strength and conditioning programs to enhance human performance in sport and fitness. Additionally, this course is designed to prepare students for the nationally accredited Certified Strength and Conditioning Specialist (CSCS) certification exam. PR: PHED 3312 & PHED 3313.

PHED 3365 Activities in Outdoor Education ..... 1-3 hrs.

This course provides experience in outdoor education, including backpacking, canoe-camping, rock climbing and other activities. Each weekend will be spent at a different location to develop a variety of outdoor educational skills.

PHED 3366 Field Experience in Outdoor Education ..... 1-3 hrs.

This course offers extended outdoor educational experiences, including Appalachian Trail, river canoe- camping trips, and others. Credit will vary according to the length of the experience. PR: PHED 3365.

PHED 3398 Sport Management Internship ..... 1-12 hrs.

This course comprises a directed internship in a particular area of specialization. Students will complete the internship in cooperation with a community agency or business, clinic, or other appropriate organization. Direct observation and on-the-job experience, through active participation in ongoing programs, will enable students to broaden their scope beyond the classroom.

PHED 4400 Research Methodology ..... 3 hrs.

Introductory course in the planning and implementation of research in the study of human performance. Students will consider the topics of variables and hypotheses, research designs, data collection, analysis and interpretation. PR: C or better in PHED 3316.

PHED 4410 Research Design Seminar ..... 3 hrs.

*Writing Intensive*

Survey of research in the historical, administrative, performance, motor development, philosophical, psychological and sociological issues in the current literature in the study of human movement. The student will select and design a research project in one of the specific areas. PR: C or better PHED 4400.

PHED 4420 Exercise Science Internship ..... 3 hrs.

The purpose of this internship is to provide students with the opportunity to gain practical experience in the field of fitness/wellness. This culminating experience allows students to apply theoretical knowledge to a "real-life" situation under the supervision of professionals currently in the fitness/wellness field. PR: All pre-4400-level coursework. PR: PHED3316 and Student Permission

PHED 4431 Methods and Materials in Teaching Physical Education ..... 3 hrs.

The focus of this course is the application of instructional strategies, classroom management techniques and performance-based assessment across different developmental levels in the public school setting. Practical experience in the public schools is required. PR: PHED 3325

PHED 4450 Advanced Sport..... 1 hr.

This course is opened only to students with sufficient background in the techniques and methods of an indicated sport. Credit is not to be awarded until the student has attained junior standing and can be received only once during a student's academic career. This course is for elective credit only and cannot be used to fulfill the requirements in any degree program.

PHED 4998 Undergraduate Research .....0-6 hrs.

Undergraduate research is an experiential learning activity that provides an opportunity for a student to engage in the scholarly activities of their major discipline under the guidance of a faculty mentor who will work in close partnership with each student in his or her formulation of a project, the development of a research strategy, and the assessment of a student's progress. The primary goal is for each student scholar to conduct an inquiry or investigation that makes an original, intellectual or creative contribution to their discipline and which is shared in an appropriate venue. Sophomore-Senior Level, Repeatable. Instructor approval required.

## PHYSICAL SCIENCE

PHSC 1199 Special Topics in Physical Science.....1-12 hrs.

Studies in special selected topics, to be determined by the instructor and approved by the department chair. Credits earned will be applicable as free electives in degree and certificate programs.

PHSC 4412 Elementary Science Methods ..... 3 hrs.

This course is designed to prepare pre-service elementary school teachers to teach science. Students will work with equity, authentic assessment, technology integration, safety, and science pedagogy including inquiry, constructivism and problem-based learning. Students will conduct a learning cycle-based lesson with elementary students during an after-school program, and will construct an integrated thematic unit for use in an elementary classroom. PR: EDUC 2260, PHSC 2201, 2202, all with a C or better.

PHSC 4430 Science Integration Seminar .....1 hr.

This course is designed for students preparing to teach general science in middle and high schools. Teacher candidates will investigate the nature of science, the processes of science, and the inter-related nature of science disciplines. They will explore the science theme of Earth's Oceans to investigate the geoscience, biology, chemistry, physics content as it pertains to that theme. In addition, students will develop an original standards-based project-based module around an oceanography theme. Students should have completed a substantial portion of their science coursework before enrolling in this course PR: Junior status and admission to Teacher Education. Fall semester only.

PHSC 4431 Methods and Materials in Teaching Science ..... 3 hrs.

The course is designed for students preparing to teach science at the middle or secondary-school level. Students will develop and teach a science lesson to junior high school children in the Science Enrichment Program. They will become familiar with science curriculum in the middle and secondary schools, science teaching

resources, laboratory safety, test construction and classroom management skills, and will develop an instruction unit. PR: EDUC 2260 or EDUC 6306; Spring semester only.

PHSC 4998 Undergraduate Research .....0-6 hrs.

Undergraduate research is an experiential learning activity that provides an opportunity for a student to engage in the scholarly activities of their major discipline under the guidance of a faculty mentor who will work in close partnership with each student in his or her formulation of a project, the development of a research strategy, and the assessment of a student's progress. The primary goal is for each student scholar to conduct an inquiry or investigation that makes an original, intellectual or creative contribution to their discipline and which is shared in an appropriate venue. Sophomore-Senior Level, Repeatable. Instructor approval required.

## PHYSICS

PLEASE NOTE:

PHYS 1105/1106 substitutes for PHYS 1101/1102 in all programs. PHYS 1105/1106 is calculus based and is a more appropriate level of study than PHYS 1101/1102 for science majors and some technology majors.

~ PHYS 1101 Introduction to Physics I .....4 hrs.

An introduction to elementary principles of mechanics, sound, and heat. A three-hour laboratory period each week supplements the three lecture-recitation periods. PR: MATH 1520 or MATH 1540 or MATH 2501 or MATH ACT 24 or old MATH SAT 560 or new MATH SAT 580 or College Level Math of ACCUPLACER 65.

~ PHYS 1102 Introduction to Physics II .....4 hrs.

A continuation of PHYS 1101; includes a study of electricity and magnetism, light and basic atomic and nuclear physics. PR: PHYS 1101.

~ PHYS 1105 Principles of Physics I.....5 hrs.

Students are instructed in the elementary principles and calculus-based mathematical descriptions of matter and energy, including mechanics (linear and rotational motion, force, work and energy, harmonic motion), fluids, wave motion and thermal physics. A three-hour lab period supplements a four-hour weekly lecture. PR: MATH 2501 or TECH 2290 or MATH ACT 28 or old MATH SAT 630 or new MATH SAT 660 or College Level Math of ACCUPLACER 90

~ PHYS 1106 Principles of Physics II .....5 hrs.

Students are instructed in the elementary principles and calculus-based mathematical descriptions of electricity and magnetism, light, optics and modern physics. A three-hour lab period supplements the four-hour weekly lecture. PR: PHYS 1105.

PHYS 1199 Special Topics in Physics.....1-12 hrs.  
 Studies in special selected topics, to be determined by the instructor and approved by the department chair. Credits earned will be applicable as free electives in degree and certificate programs.

PHYS 2201 Demonstrations in Physics .....2 hrs.  
 This course covers effective use of everyday materials to illustrate physical phenomena, experience with a variety of lecture equipment, and practice in planning and executing demonstrations. It is designed to serve teachers in both the elementary and secondary schools. PR: Program Restriction: Physics teaching specialization.

PHYS 2202 Astronomy .....3 hrs.  
 A study of the physical properties of the solar system, stars and galaxies, including the concepts of motion, space and time. Occasional night sessions. PR: PHYS 1102 or PHYS 1106.

PHYS 3211 Intermediate Physics IA - Newtonian Mechanics .....3 hrs.  
 Students taking this course will build, examine and utilize scientific models of classical mechanics to conceptualize and understand the natural phenomena of motion and matter interactions. Students will apply these calculus-based models to a wide range of single and many-particle systems characterized by mass, electrical charge, atomic structure, and constant and variable interactions. Models include the principles of linear and angular momentum, Newton's laws, waves and oscillatory motion. PR: PHYS 1102 or 1106 and MATH 1586 or 2502 or TECH 3300.

PHYS 3212 Intermediate Physics IB - Energy Perspec.....3 hrs.  
 Students taking this course will build, examine and utilize energy-based scientific models to conceptualize and understand the natural phenomena of motion and states of matter from an energy perspective. Students will apply these calculus-based models to systems involving gravitational, electric, atomic, and nuclear interactions. Models include the mechanical, thermal and electromagnetic energy of these systems. PR:PHYS 3211(or at the same time with instructor's permission).

PHYS 3221 Intermediate Physics IIA - Electric Interactions.....3 hrs.  
 Students taking this course will build, examine and utilize the scientific models of classical electricity and magnetism to conceptualize and understand the natural phenomena of electric interactions on a macroscopic level. Students will apply these calculus-based models to various important electrical systems and circuits. PR: PHYS 3212.

PHYS 3222 Intermediate Physics IIB - Electromagnetic Interactions and Semiconductor Devices.....3 hrs.  
 Students taking this course will build, examine and utilize the scientific models of magnetic field, electromagnetic radiation and electron energy levels in solids to conceptualize and understand magnetic and electromagnetic phenomena, quantum phenomena in solids, and transistors. Students will apply these calculus-based models to electromagnetic interference, particle-wave duality, and semiconductor devices and circuits. PR:(or at the same time with instructor's permission): PHYS 3221.

PHYS 3230 Intermediate Physics Laboratory.....2 hrs.  
 Students taking this course will systematically investigate aspects of the models and concepts of PHYS 3211-2 and 3221-2 through a set of laboratory experiences. The labs include preliminary research, and lab setups, analysis and reporting. Student reports will include oral presentations of their preliminary research and investigations, and demonstrations of their lab set-ups. PR: (or at the same time with instructor's permission): PHYS 3221.

PHYS 3310 Electricity and Electronics.....4 hrs.  
 A review of elementary direct and alternating current theory and transient responses of electrical components. Students are introduced to basic theory of vacuum tubes, semiconductors, amplifiers principles, and logic circuits. Two hours of laboratory and three hours of lecture each week. PR: PHYS 1102 or PHYS 1106.

PHYS 3325 Advanced Physics I.....4 hrs.  
 An in-depth, rigorous, calculus-based treatment of thermodynamics, mechanics (including Newtonian mechanics, one-dimensional dynamics, oscillatory motion, vector analysis and central forces) and wave motion. A two-hour lab period supplements the three-hour weekly lecture. The lab component provides open-ended, inquiry-based investigations along with greater responsibility for interpreting, utilizing and communicating results in the classroom. PR: (PHYS 1102 or PHYS 1106) AND (MATH 1586 or MATH 2502 or TECH 3300)

PHYS 3335 Advanced Physics II.....4 hrs.  
 An in-depth, rigorous, calculus-based treatment of modern physics, including relativity, particle-wave duality, electromagnetic radiation, Schrodinger's wave equation, atomic theory and nuclear physics. A two-hour lab period supplements the three-hour weekly lecture. The lab component provides open-ended, inquiry-based investigations along with greater responsibility for interpreting, utilizing and communicating results in the classroom. PR: (PHYS 1102 or PHYS 1106) AND (MATH 1186 or MATH 3315 or TECH 3300)

PHYS 3340 Special Problems ..... 2 hrs.  
Individual studies of problems of special interest in the field of physics, for advanced students. PR: (PHYS 1102 or PHYS 1106) AND (MATH 1586 or MATH 2502 or TECH 3300)

PHYS 3350 Mathematical Methods of Physics ..... 3 hrs.  
This course deals with the applications of vectors, vector algebra, vector analysis, differential calculus, integral calculus and differential equations to problems in physics and related scientific fields. PR: (PHYS 1102 or PHYS 1106) AND (MATH 1586 or MATH 2502 or TECH 3300)

PHYS 4998 Undergraduate Research ..... 0-6 hrs.  
Undergraduate research is an experiential learning activity that provides an opportunity for a student to engage in the scholarly activities of their major discipline under the guidance of a faculty mentor who will work in close partnership with each student in his or her formulation of a project, the development of a research strategy, and the assessment of a student's progress. The primary goal is for each student scholar to conduct an inquiry or investigation that makes an original, intellectual or creative contribution to their discipline and which is shared in an appropriate venue. Sophomore-Senior Level, Repeatable. Instructor approval required.

## POLITICAL SCIENCE

~ POLI 1100 American Government ..... 3 hrs.  
A survey of the American political system, dealing particularly with the form and function of the federal system.

~ POLI 2200  
Introduction to Political Science ..... 3 hrs.  
A study of the fundamentals of politics and key issues, the concept of the state and its agent, government, types of political authority, the scope of governmental activities and the problem of world order.

POLI 2210 Principles of International Relations ..... 3 hrs.  
A study designed to acquaint the student with the theory and practice of international relations.

POLI 2220 Comparative Government ..... 3 hrs.  
This survey course is designed to foster a broad general acquaintance with the political institutions and government practices of certain nations.

POLI 2299 Selected Topics in Political Science ..... 3 hrs.  
An issue-oriented study of some germane matter in public administration. The course involves an extensive commitment to a

single issue or policy area over the course of the semester.  
Repeatable up to 12 hours.

POLI 2240 Nonparametric Statistics ..... 3 hrs.  
This course introduces the student to the fundamental principles of descriptive and inferential statistics, with an emphasis on the analysis of nominal and ordinal data. Topics include nonparametric tests of significance, scaling, coding and a discussion of hypothesis construction. This course should be taken during the sophomore year. Students may take PSYC 2240 or SOCY 2240 in lieu of POLI 2240). PR is one of the following, with a grade of C or better: Math 1407, Math 1507, or MATH 1530

POLI 3300 Public Administration ..... 3 hrs.  
This upper division course explores the politics of public administration. This course studies the origins, structures, and processes of government administration with a focus on administrative politics, law and ethics, organizational theory and technical fields, such as budgeting, planning, and personnel. Public administration involves the bureaucracy in the implementation of politics often authored by other institutions of government (the legislative, executive, and judicial branches).

POLI 3302 State and Local Government ..... 3 hrs.  
This course is designed to explore American state and local government structures and functions while focusing on constitutions, institutions, instruments of popular control, and intergovernmental relations. This course will examine a number of topics having to do with state and local politics with an emphasis on comparing states and extra attention on the state and local government in West Virginia.

POLI 3303 Political Parties ..... 3 hrs.  
A study of the origins, growth and development of American political parties. PR: POLI 1100.

POLI 3306 The American Presidency ..... 3 hrs.  
This course will introduce the student to the institution of the American presidency and will also act as a comprehensive survey of the presidency. Students will examine several aspects of the office and a variety of views about the presidency. PR: POLI 1100/1100.

POLI 3307 Congress and the Legislative Process ..... 3 hrs.  
This course introduces the student to the institution of the Congress and the legislative process. Topics include the internal processes and structure of Congress, Congress-constituent connections and its relationship with other branches and levels of government. PR: POLI 1100.

POLI 3310 Recent Political Theory ..... 3 hrs.

An analysis of the development and theoretical foundations of three major political ideologies of the nineteenth and twentieth centuries: Communism, fascism, and democracy.

POLI 3311 Global Affairs ..... 3 hrs.

This course analyzes major global issues facing the world today, such as human rights, terrorism, armed conflict, and peace. This course will also explore the politics of scarcity and security of energy resources, environment, economy, food and water resources, demographics and population growth, technology and information.

POLI 3315 National Security and Intelligence ..... 3 hrs.

This course provides an overview of issues impacting US national security and intelligence. The first half of this course examines the workings of the US national security apparatus by explaining the missions, roles, and functions of the various instruments of national power. The second half of the course offers a survey of issues around the world impacting US national security such as regional conflict, weapons proliferation, terrorism, organized crime, access to energy, economic stability, and environmental degradation. (Same course as NSIS 3315).

POLI 3320 US Foreign Policy ..... 3 hrs.

This course explores U.S. foreign policy formulation and considers policies by areas and functions. PR: POLI 1100.

POLI 3325 Politics of Intelligence ..... 3 hrs.

This course examines the means and methods for setting intelligence priorities and ensuring that the activities of the United States Intelligence Community are conducted in a way that is constitutional, lawful, and consistent with American values. This course examines how intelligence oversight has evolved over time. This course explores intelligence oversight mechanisms within the Executive and Legislative Branches, as well as the informal oversight role played by the press and by public interest groups. (Same course as NSIS 3325)

POLI 3330 U.S. National Security Policy ..... 3 hrs.

This course will address the topic of U.S. national security policy from a historical-analytical, as well as contemporary perspective. The course begins with the National Security Act of 1947, proceeds through the impact of the 1986 Goldwater-Nichols reforms and ends with post-9/11 security considerations. The course will also focus on the policy process and current challenges in security policy including the Global War on Terror. (Same course as NSIS 3330)

POLI 3331 Intelligence and Covert Action ..... 3 hrs.

This course discusses the role the Intelligence Community plays in shaping and executing US national security policy, and how events since the end of the Cold War, 9/11, and the Iraq War have blurred

the lines between analysis, operations, and policymaking. This course examines the role of the Intelligence Analyst, and examines how decision makers use and sometimes misuse Intelligence Community analysis – specifically addressing the issues of politicization of intelligence and policy prescriptive analysis. In addition, the course explores how the changing nature of intelligence operations (both collection and covert action) has given the Intelligence Community a more direct role in national security policymaking. (Same course as NSIS 3331)

POLI 3332 Insurgency and Counterinsurgency ..... 3 hrs.

This course examines the theoretical basis of modern insurgency and counterinsurgency warfare. It explores the “fathers” of insurgency as a political strategy – Mao, Guevara, and Giap – as well as the modern interpretation of insurgency as propounded by Zawahiri. This course reviews the underpinnings of counterinsurgency theory. A series of case studies will provide examples of how these theories play out in “real world” scenarios. (Same course as NSIS 3332)

POLI 3333 Espionage, Counterintelligence and Strategic Deception ..... 3 hrs.

This course examines the role that espionage, counterintelligence, and strategic deception play in US national security. It will define these terms, examine their “tradecraft” and explore their strengths and weaknesses. The course will address issues such as why people commit treason, the psychological relationship between the Case Officer and Asset, and the moral implications of using these tools to advance US national security. (Same course as NSIS 3333)

POLI 3334 Fundamentals of Defense Intelligence ..... 3 hrs.

This course explores the fundamentals of defense intelligence as they apply to the United States. This course examines where defense intelligence fits into the larger U.S. intelligence community. All aspects of the intelligence cycle will be examined including planning, collection, processing, analysis, production and dissemination. This course will also explore multiple collection disciplines that support U.S. military operations and how the large defense intelligence apparatus supports national strategic, operational and tactical level decision-making by everyone from the President down to the company commander. (Same course as NSIS 3334)

POLI 3335 Congress and National Security ..... 3 hrs.

This course will examine the role of Congress in developing and shaping American national security policy. It will discuss Congress’ formal and informal national security powers; the interplay among Congress, the presidency, and the courts; the impact of domestic and partisan politics on Congress’ national security role; as well as the impact of special interest groups. (Same course as NSIS 3335)

POLI 3350 International Law and Organizations..... 3 hrs.  
A study of the structure and functions of international institutions and legal processes involved in the effort to maintain peace and security in the world.

POLI 3360 Future Global Crises ..... 3 hrs.  
A team-taught, multi-disciplinary study of potential developments in the world. Areas of concentration are tailored to students' interests. Credit in Technology or Psychology.

POLI 3365 Homeland Security ..... 3 hrs.  
This course examines critical homeland security knowledge domains, including strategy, history, terrorism, fear management, crisis communication, conventional and unconventional threats, network leadership, weapons of mass destruction, lessons learned from other nations, civil liberties and security, intelligence and information, homeland security technology, and analytics. (Same course as NSIS 3365)

POLI 3370 World Religions and Politics ..... 3 hrs.  
This course will undertake a systematic and rigorous investigation of the relationship between politics and religion in a variety of countries around the world. Religion plays an important and contentious role in world politics and this course will analyze the philosophical thought underlying major world religions.

POLI 3380 Propaganda and Politics..... 3 hrs.  
This course presents a critical analysis of the development, principles, strategies, media, techniques, and effects of propaganda campaigns from ancient civilizations to the modern technological society. The course focuses on propaganda in the context of government, religion, revolution, war, politics, and advertising, and explores implications for the future of propaganda in the cybernetic age. (Same course as NSIS 3380)

POLI 3385 Politics in Film and Fiction ..... 3 hrs.  
This course examines political films and fiction as they communicate an understanding of how politics work. While such films can provide an accurate depiction of the world, they can also stray substantially from political reality and this course will evaluate how they represent the political process.

POLI 3390 Law and the Legal System ..... 3 hrs.  
The course examines the role of law in the political system. Includes a survey of subfields in United States law and an examination of participants, processes, and policy making in the United States legal system.

POLI 3395 Constitutional Law

This course examines the development, interpretation and application of basic principles of constitutional law in the United States. The course will be concerned with the definition, extents and limitations of governmental powers and rights of Americans. PR: POLI 1100. (Same course as CRIM 3395)

POLI 4400 Research in the Social Sciences.....3hrs.  
*Writing Intensive*

Students will explore the interaction of theory, research, and practice: the purposes and limits of research; introduction to research design, data collection, analytic techniques, data processing resources and preparation of research reports. PR: ENGL 1102. Junior or Senior status (Same course as CRIM 4400 and NSIS 4400)

POLI 4404 Civil Liberties in the US.....3 hrs.  
A study of the nature and substance of civil liberties in the United States. The philosophy underlying the Bill of Rights will be analyzed and students will discuss the development of each of the great freedoms protected therein, such as free speech, free press, and free religion among others. Particular attention will be given to how the Supreme Court has interpreted and applied the guarantees contained within the Bill of Rights in specific instances. PR: POLI 1100.

POLI 4405 Terrorism.....3 hrs.  
A course designed to give the student an understanding of the problem of terrorism and political violence. The course will define terrorism, examine its origins, characteristics, nature and trends, analyze in detail various terrorist organizations and address selected problems in the response to terrorism. Credit in Political Science or Criminal Justice.

POLI 4410 Problems in American Government.....3 hrs.  
A study of current problems affecting the structure and function of American national government. PR: POLI 1100.

POLI 4411, 4412, 4413 Area Studies .....3 hrs.  
Studies of selected areas or regions of the world conducted on an interdisciplinary basis. The area selected, and the time span studied will be determined by the instructor. PR: Instructor approval required if offered as an arranged class; no prerequisite required if class meets regularly. (Same course as NSIS 4411, 4412, 4413).

POLI 4415 International Problems.....3 hrs.  
This course covers the foreign policies of several nations and the machinery established for the peaceful adjudications of international differences.

POLI 4420 Supreme Court of the United States ..... 3 hrs.

This course will examine the Supreme Court of the United States. The topics this course will explore include the evolution of the judiciary and its effects on the other branches of government, how the Court functions, the influence of the Court on the incorporation of civil liberties, internal institutions of the Court and models of judicial decision-making, and issues concerning judicial appointments.

POLI 4425 Military Justice ..... 3 hrs.

This course examines and evaluates current military legal practice and issues relevant to the Armed Forces of the United States. This course provides an examination of the history and principles of military justice and comparison of the military and civilian justice systems. Topics include the Uniform Code of Military Justice, military crimes, non-judicial punishment, jurisdiction of general and special military courts, military judges and panels, self-incrimination, search and seizure, pretrial confinement and restraint, plea bargaining, sentencing and appellate review in military courts. (Same course as NSIS 4425)

POLI 4435 Intelligence Law ..... 3 hrs.

This course will explore and examine the U.S. Intelligence Community and the legal framework governing the actions taken by the US government. The course will provide students with an overview of the Intelligence Community and the key legal authorities that support and guide the Intelligence Community. (Same course as CRIM 4435 and NSIS 4435)

POLI 4440 National Security Law ..... 3 hrs.

This course will explore the distribution of national security powers amongst the three coordinate branches of government – Legislative, Executive & Judicial and engage students in understanding the laws and policies that govern important critical issues in the national security arena. (Same course as CRIM 4440 and NSIS 4440)

POLI 4445 Law of Armed Conflict/International Humanitarian Law ..... 3hrs.

This course provides students with a general understanding of the international legal regulation of armed conflict – including humanitarian law, human rights law and international criminal law. The aim of the course is to enable students to understand the legal challenges of current and future armed conflicts, as well as enable them to critically analyze and evaluate concrete cases using both legal and political analysis. This is achieved by applying knowledge from readings and classes to a number of contemporary case studies with a specific emphasis on the role of international organizations such as the ICRC and U.N. (Same course as NSIS 4445)

POLI 4455 Model United Nations..... 1-12 hrs.

Model UN provides an academic learning experience through the simulation of the structures, processes, and issues of the member nations of the United Nations Organization. The Model UN class offers students a unique opportunity to learn about international relations while role-playing United Nations delegates. (Repeatable up to four times not to exceed 12 hrs.; Same course as NSIS 4455)

POLI 4460 Political Science Practicum ..... 1-12 hrs.

A professional internship with a government or political agency, designed to give students pertinent experience in a particular field of political science. PR: POLI 1100, Instructor approval required.

POLI 4490 Capstone Seminar in Political Science ..... 3 hrs.

A survey of recent developments in the practice and theory of politics, with an emphasis on independent study. PR: Instructor approval required.

POLI 4499 Special Topics in Political Science ..... 1-12 hrs.

Studies in special selected topics to be determined by the instructor and approved by the program advisor. Individual students with specific interests work on a tutorial basis with an appropriate professor. Repeatable up to 12 hrs.

POLI 4998 Undergraduate Research ..... 0-6 hrs.

Undergraduate research is an experiential learning activity that provides an opportunity for students to engage in the scholarly activities of their major discipline under the guidance of a faculty mentor who will work in close partnership with each student in his or her formulation of a project, the development of a research strategy, and the assessment of a student's progress. The primary goal is for each student scholar to conduct an inquiry or investigation that makes an original, intellectual or creative contribution to their discipline and which is shared in an appropriate venue. Sophomore-Senior Level, Repeatable. Instructor approval required.

## PSYCHOLOGY

~ PSYC 1101 Introduction to Psychology ..... 3 hrs.

A general overview of the science of psychology. Topics include science methodology, life-span psychology, personality theory, consciousness, stress, health and coping, learning theory, psychological disorders, biopsychology, sensation, cognition and memory and social psychology.

PSYC 1150 Introduction to Healthcare Professions..... 3 hrs.

This course is designed to introduce students to the basic tenets of health and well-being, healthcare settings, and a variety of healthcare professions. Students will learn about different health professions, how health professions impact health and well-being,

and the different settings in which healthcare professionals work. Emphasis will be placed on how roles within healthcare settings intersect to support the goal of personal and public health. (PSYC 1150 is the same course as ALLH 1150 and SOCY 1150; students may receive credit for the course only once).

PSYC 1160 Exploration of Healthcare Professions ..... 2 hrs.  
 Students will explore healthcare settings through service learning projects. Students will partner with community groups/agencies that provide health-related services to citizens of North Central WV and beyond. Emphasis will be placed on teamwork, collaboration, and the achievement of personal and public health goals. This is a 2-credit course. (PSYC 1160 is the same course as ALLH 1160 and SOCY 1160; students may receive credit for the course only once). PR or CR: ALLH 1150 or SOCY 1150 or PSYC 1150

PSYC 2220 History and Systems of Psychology ..... 3 hrs.  
 Traces the development of the science of psychology from its origins in philosophy, physiology and medicine to the modern era. PR: PSYC 1101.

PSYC 2230 Social Psychology (Same as SOCY 2230) ..... 3 hrs.  
 This course covers the scientific study of how individuals think, feel, and behave in a social context. Topics include the self, stereotypes, prejudice and discrimination, attitudes, conformity, group processes, attraction, helping and aggression. Same course as SOCY 2230 Social Psychology; also listed as SOCY 2230 Social Psychology. Credit may be received for either PSYC 2230 or SOCY 2230, but not both. PR: PSYC 1101 or SOCY 1110.

PSYC 2240 Behavioral Statistics (Same as SOCY 2240) ..... 3 hrs.  
 This course covers elementary statistical description and analysis, as employed particularly in the behavioral sciences. Same course as SOCY 2240 Behavioral Statistics. Credit may be received for either SOCY 2240 or PSYC 2240, but not both. PR: MATH 1407/1507 or ACT > 19.

PSYC 2250 Community Psychology ..... 3 hrs.  
 This course consists of lectures, discussion, readings and field observation designed to acquaint the student with the philosophy, technique and theory of community mental health. PR: PSYC 1101. (Course may be taken to partially fulfill psychology elective requirement).

PSYC 2260 Industrial and Personnel Psychology ..... 3 hrs.  
 A study of psychological concepts and methods as applied to personnel management, human-factors engineering, employee selection, motivation, training, productivity, consumer psychology and human relations. PR: PSYC 1101. (Course may be taken to partially fulfill psychology elective requirement).

PSYC 3300 Abnormal Psychology ..... 3 hrs.  
 A survey of the antecedents, diagnosis, treatment and prevention of various maladjustments and personality disturbances. PR: PSYC 1101.

PSYC 3305 Research Methods in the BEHAVIORAL SCIENCES ..... 4 hrs.  
 Research methods provides an introduction to: 1) the scientific method used in the behavioral sciences; 2) the design and control of research experiments; 3) the statistical analysis of data; 4) the communication of research results; and 4) an introduction to the application of ethics in the practice of research. Various observational, relational and experimental approaches are presented and include but are not limited to: survey research, interviewing, content analysis, experiments, ethnographies, focus groups, historical analysis, and analysis of secondary data. This course includes three hours of instruction and one hour of Lab. PR: PSYC 2240 or SOCY 2240. Same course as SOCY 3360 Behavioral Research Methods. Credit may be received for PSYC 3305 or SOCY 3360 but not both.

PSYC 3310 Experimental Psychology ..... 3 hrs.  
 An introduction to the procedures of experimental research, design and evaluation, using laboratory techniques. PR: PSYC 2240 or SOCY 2240.

PSYC 3320 Sensation and Perception ..... 3 hrs.  
 An examination of the classical concepts in sensation and perception and of the resulting psycho-physical data for each of the major senses, with an emphasis on vision and audition. Psychology and modern perceptual formulations are viewed through the lens of empirical data. PR: PSYC 1101. (Course may be taken to partially fulfill psychology elective requirement).

PSYC 3330 Developmental Psychology ..... 3 hrs.  
 A longitudinal study of behavior change and development through the life span of the individual, from conception through the end of life. PR: PSYC 1101.

PSYC 3350 Biopsychology ..... 3 hrs.  
 This course focuses on the basic development, structure and function of the central nervous system, autonomic nervous system and endocrine system. The emphasis is on the relationship between physiological functioning and the behavior of the intact organism. PR: PSYC 1101.

PSYC 3360 Cognitive Psychology ..... 3 hrs.  
 The study of thinking, memory, perception, cognition and verbal behavior. PR: PSYC 1101.

PSYC 3370 Theories of Learning ..... 3 hrs.

A study of the experimental procedures, data and concepts dealing with changes in behavior that are usually defined as learning. The emphasis is on a detailed analysis of various theories of learning and contemporary approaches. PR: PSYC 1101.

PSYC 3390 Research Capstone ..... 3 hrs.

*Writing Intensive*

A detailed study of the methodological and philosophical issues involved in the analysis of behavior. The course objectives are to provide insight into the nature of applied scientific research, to foster the ability to construct empirical hypotheses, to develop facility in designing experimental tests of hypotheses, to promote effective reading and evaluation of psychological research and to encourage professional writing and speaking about psychological theory and experimentation. PR: ENGL 1102, and PSYC 3305 or SOCY 3360

PSYC 3393 Future Global Crises ..... 3 hrs.

A team-taught, multi-disciplinary study of potential developments in the world. Areas of concentration are tailored to students' interests. (Credit in Political Science or Technology). PR: PSYC 1101

PSYC 3395 Psychology of Substance Abuse..... 3 hrs.

This course covers current research and trends related to substance use, abuse, dependence, and treatment. Emphasis will be placed on development of practical knowledge and skills that can be used when dealing with populations that are directly or indirectly impacted by substance use and abuse. PR: PSYC 1101

PSYC 3399 Special Topics in Psychology ..... 1-12 hrs.

Studies in special selected topics, to be determined by the instructor and approved by the School's chairperson. Credits earned will be applicable as free electives in degree and certificate programs. PR: PSYC 1101 (Course may be taken to partially fulfill psychology elective requirement).

PSYC 4400 Psychometrics..... 3 hrs.

This course addresses the general theory of measurement as involved in various areas of psychology, such as psychological tests, attitude scales, psychophysics and qualified behavior theory. PR: PSYC 2240 or SOCY 2240.

PSYC 4410 Theories of Personality ..... 3 hrs.

A critical consideration of the major theories of personality, including Psychodynamic, Cognitive, Cognitive Behavioral, Behavioral, Existential, Trait, Adlerian and Gestalt theory. The basis of personality theoretical development will also be emphasized. PR: PSYC 1101.

PSYC 4460 Seminar ..... 3-6 hrs.

The discussion of specific research topics as reported in contemporary psychological literature is emphasized in this particular course. It is designed specifically to promote students' analytical thinking and presentation, as it pertains to current research investigation. PR: PSYC 1101. May be repeated once.

PSCY 4470 Intervention Techniques and Applications ..... 3 hrs.

A detailed study of operant techniques and methodologies, from the experimental laboratory to the community at large. Emphasis is placed on the development of skills in the observation, manipulation and evaluation of various behavior-control techniques in the light of ethical concerns. PR: PSYC 1101 and PSCY 4410.

PSYC 4480 Directed Studies ..... 1-3 hrs.

Intensive study and reading on a topic selected by the student and instructor. Requirements and credit must be decided before registration through instructor-student consultation. Repeatable. Six-hour limit. PR: PSYC 1101 and Instructor approval. (Course may be taken to partially fulfill psychology elective requirement).

PSYC 4485 Advanced Psychometrics ..... 3 hrs.

This course covers personnel selection and placement, as well as a more advanced treatment of reliability and validity. Skills in these areas are developed. PR: 4400 and Instructor approval required. (Course may be taken to partially fulfill psychology elective requirement.)

PSYC 4487 Practicum I ..... 3 hrs.

(Course may be taken to partially fulfill psychology elective requirement.)

PSYC 4489 Practicum II ..... 3 hrs.

These Practica afford an application of knowledge and techniques developed within the Industrial-Personnel Program. Students work under supervision in participating businesses, industries and institutions. The remaining time is spent in lectures, discussion and reading to enhance the student's training. PR: Instructor approval required. (Course may be taken to partially fulfill psychology elective requirement.)

PSYC 4490 Directed Research ..... 1-3 hrs.

This course provides an opportunity for work on individual library or experimental projects. Requirements, including a thesis, and credit must be decided before registration through instructor-student consultation. Repeatable. Six-hour limit. PR: PSYC 1101 and Instructor approval required. (Course may be taken to partially fulfill psychology elective requirement.)

PSYC 4491 Psychopathology of Childhood and Adolescence ..... 3 hrs.

Problems of etiology, diagnosis and treatment of maladjustment in childhood and adolescence. Students will analyze and discuss problems like drug addiction and juvenile delinquency. (Course may be taken to partially fulfill psychology elective requirement.)

PSYC 4493 The Psychology of Aging ..... 3 hrs.

A study of problems facing the aging. The psychological, social and physiological aspects of aging and methods of treatment are analyzed and discussed. (Course may be taken to partially fulfill psychology elective requirement.)

PSYC 4494 Interpersonal Dynamics ..... 3 hrs.

The main objective of this course is to develop techniques and basic skills required for effective operation in psychological settings such as interviews, role-playing, and facilitation of dyadic and small "dynamics-centered" group interaction. These diagnostic and therapeutic methods are experienced and discussed in terms of various psychological theories of communication. PR: PSYC 1101 and Instructor approval required. (Course may be taken to partially fulfill psychology elective requirement.)

PSYC 4998 Undergraduate Research ..... 0-6 hrs.

Undergraduate research is an experiential learning activity that provides an opportunity for a student to engage in the scholarly activities of their major discipline under the guidance of a faculty mentor who will work in close partnership with each student in his or her formulation of a project, the development of a research strategy, and the assessment of a student's progress. The primary goal is for each student scholar to conduct an inquiry or investigation that makes an original, intellectual or creative contribution to their discipline and which is shared in an appropriate venue. Sophomore-Senior Level, Repeatable. Instructor approval required.

## RECREATION

RECR 1141 Foundations of Outdoor Recreation ..... 3 hrs.

This lecture-based course introduces the historical and philosophical foundations of leisure and recreation in society. Students will cultivate the knowledge needed to develop concepts concerning recreation, the socio-economic movement affecting the growth and development of recreation, the economic services and the various areas of facilities used in recreation and the role of citizens in the process.

RECR 1142 Social Recreation ..... 3 hrs.

This course is designed to present material and information necessary to adequately conduct social recreation in clubs, churches, campus, playgrounds and recreation centers. Students

will be involved with planning, programming, and conducting social recreational activities.

RECR 1143 Outdoor Recreation ..... 3 hrs.

An examination of the history and development of outdoor recreation, conservation and organized camping. Opportunities are provided to learn camp craft and leadership skills and techniques through field trips and outings.

RECR 1150 Introduction to Rock Climbing ..... 2 hrs.

This course will focus on the basics of safe and responsible rock climbing. Topics include knots, equipment and care, belaying, rappelling, anchor building, and climbing techniques. Students will be required to participate in rappelling, rock climbing, belaying, and anchor building activities.

RECR 1151 Backcountry Living Skills ..... 2 hrs.

This Recreation course is designed to provide: physical, mental, and social challenges that will introduce the participants to the basic concepts and techniques for recreating and surviving in the backcountry using Leave No Trace methods. Students will actively engage in backpacking, camping, and survival activities in order to further develop hard skills and environmental ethics.

RECR 1153 Seminar in Outdoor Recreation ..... 2 hrs.

This course provides an advanced experience in the organization and presentation of various outdoor programs. Participation includes a number of weekend and extended outdoor experiences, plus field studies in area outdoor facilities. PR: RECR 1143.

RECR 1154 Recreation Field Work I ..... 2 hrs.

The student will become acquainted with the nature and diversity of available recreation programs and services. The student will be assigned to recreational settings distinctly different in philosophy, organizational structure and clientele served.

RECR 1155 Recreation Field Work II ..... 2 hrs.

A continuation of RECR 1154, this sequence of field work courses is developmental. Progress develops from a dependent position to an interdependent position.

RECR 1177 Introduction to Adventure Water Sports ..... 2 hrs.

This course provides an introduction to various adventure water activities including one or all of the following: canoeing, kayaking and white-water rafting. Students will investigate trip planning, water safety, "Leave No Trace" ethics, and equipment use and care. Students will be introduced to these activities through experiential learning in the swimming pool and trips on regional rivers. All students must pass a basic swim test to show competency and ease in the water

RECR 1178 Scuba Diving "Open Water Certification" ..... 2 hrs.  
This course will cover all necessary requirements to obtain the open water certification. PR: PHED 2232 or 2233 or 3381.

RECR 1188 Introduction to Adventure Winter Sports ..... 2 hrs.  
This course provides an introduction to various adventure water activities including one or all of the following: Cross country skiing, Snow Shoeing, Downhill Skiing, Snowboarding, Winter Camping and Mountaineering. Students will be introduced to these activities through experiential learning in and around campus and trips to regional ski and Nordic centers.

RECR 1199 Special Topics in Recreation ..... 1-12 hrs.  
Special selected topics will be studied, to be determined by the instructor and approved by the School's chairman. Credits earned will be applicable as free electives in degree and certificate programs.

RECR 2220 Program Planning and Organization ..... 3 hrs.  
A presentation of the underlying principles for effective recreation planning. Attention is given to the variety of programs associated with recreation and the interests of the participants. Students will also examine methods of planning, organization, leadership, facilities and equipment. Independent Study. Instructor Approval.

RECR 2250 Select Topics in Certification ..... 2 hrs.  
In this course, students will acquire a certification "of their choice" related to the field of outdoor recreation. The students will be required to document 30 hours of instruction and work experience and accomplishment of the desired certification. Choice of certification must be preapproved by the chair or instructor.

RECR 3300 Intramural Administration ..... 3 hrs.  
This course provides administrative experience in directing and supervising institutional physical recreational programs. The course will be offered both semesters on an arranged basis. (The course cannot replace or be used in the fulfillment of other program requirements.) Junior standing.

RECR 3301 Day Camp Administration ..... 3 hrs.  
In this course, students will gain administrative experiences in directing and supervising summer day camp programs (Falcon Camp). This course will be offered on an arranged basis during the first and second summer sessions only. Junior standing.

RECR 3330 Group Leadership ..... 3 hrs.  
This course presents information on group dynamics, leadership styles, activity facilitation, risk management, liability issues, and planning. Students will obtain practical knowledge of group situations and principles necessary for effective leadership.

Opportunities to develop their own leadership skills through peer teaching will be provided.

RECR 3340 Internship/Camp Administration ..... 3 hrs.  
In this course, students will gain administrative experiences in directing and supervising summer day camp programs (Falcon Camp) or choose an internship that provides an equal or greater learning and work experience. Internships must be preapproved by instructor. Students will be required to obtain an internship in the field of recreation approved by instructor. Students will be required to fulfill 120 hours of documented work experience from their supervisor. Junior standing. PR: RECR 1151 and 3330.

## SAFETY

SFTY 1100 Safety and Environmental Components of Industry ..... 3 hrs.  
This course provides an introduction to OSHA and EPA regulations pertaining to general and construction industry record keeping, OSHA/EPA inspection, fire, chemical exposure, most frequent violations and other topics.

SFTY 1150 Safety Management and Concepts in Accident Prevention ..... 3 hrs.  
An introductory examination of safety management principles, with an emphasis on recordkeeping, hazard identification, product safety and behavioral-based safety, as related to accident prevention. PR: SFTY 1100, MATH 1510.

SFTY 2210 Disaster Preparedness and Emergency Systems ..... 3 hrs.  
A study of the major elements of disasters and emergencies, including systematic and organized methods of preparedness planning for these events.

SFTY 2250 Safety Law and Compliance ..... 3 hrs.  
This course is a study of federal and state regulations governing general industry and product safety, with an emphasis on various legal problems related to OSHA and general industry. PR: SFTY 1100.

SFTY 2280 Construction Safety & Law ..... 3 hrs.  
This course covers federal construction regulations and the case law surrounding the construction industry. PR: SFTY 2250, MATH 1520.

SFTY 2290 Industrial Hygiene and Toxicology ..... 4 hrs.  
This course covers the methods for anticipating, recognizing, evaluating and controlling exposures in the workplace while exploring the toxicological effects of contaminants on workforces. PR: SFTY 1150, CHEM 1102, SFTY 2250.

SFTY 2291 Environmental Engineering Technology: Hazardous Waste ..... 4 hrs.

This class provides a comprehensive study of federal/state regulations and legislation pertaining to the Environmental Protection Agency. Coverage shall include EPCRA, TSCA, RCRA, CWA and CAA as related to generation, storage and disposal of chemicals and waste in industry. PR: CHEM 1102, PR or CR: SFTY 2250.

SFTY 3300 Industrial Hygiene Applications and Practices .. 4 hrs.  
*Writing Intensive*

A continuation of SFTY 2290, this course allows students to explore and apply the industrial hygiene sampling methodologies applicable to different chemical, biological and thermal exposures in the workplace. This is a hands-on class, focusing on the utilization of sampling equipment. It satisfies the Writing Intensive requirement for General Studies. PR: ENGL 1102, SFTY 2290.

SFTY 3310 Ergonomics & Human Factors..... 3 hrs.

This class will explore the interaction between the design of the workplace and the worker, with an emphasis on anatomical/physiological stressors and common work-related musculoskeletal disorders. It will also focus on redesign and elimination of said stressors and cognitive factors related to the work environment. PR: SFTY 1100, CHEM 1102, BIOL 1180 and BIOL 1181.

SFTY 3355 Air & Water Pollution ..... 3 hrs.

This course is designed as a continuation of SFTY 2291 Environmental Engineering Technology: Hazardous Waste. This course will extend the student's knowledge in environmental regulations related to the CAA and CWA. Students will also be introduced to various control technologies related to air and water pollution. PR: SFTY 2291.

SFTY 3360 Fire Prevention ..... 3 hrs.

An examination of fire prevention, detection and suppression. The NFPA Life safety Code will be addressed, as well as basic water supply and hydraulics, including distribution systems. PR: SFTY 1100, CHEM 1102.

SFTY 4400 Safety Engineering Design ..... 3 hrs.

This course covers design engineering and engineering countermeasures needed to minimize losses incurred by man and the environment. PR: SFTY 2250, PHYS 1102.

SFTY 4415 Safety Internship ..... 3 hrs.

Students shall complete an advisor-approved safety internship. Responsibilities must be in the field of employee safety and/or health. PR: SFTY 2290 and instructor approval required.

SFTY 4420 System Safety and Management ..... 3 hrs.

A study of System Safety methodologies and Process Safety management, with an emphasis on safety audits, safety management, risk assessment, loss control and statistical applications. PR: MATH 1550. CR: SFTY 4400.

SFTY 4480 Application of Safety Strategies ..... 4 hrs.

This course is designed to serve as a capstone course for Occupational Safety majors. Students are required to successfully complete an approved senior project in the field of Safety, Health or Environmental. This course requires successful student participation on teams, in presentations, employee training and professional written communications. PR: SFTY SFTY 4420.

SFTY 4998 Undergraduate Research ..... 0-6 hrs.

Undergraduate research is an experiential learning activity that provides an opportunity for a student to engage in the scholarly activities of their major discipline under the guidance of a faculty mentor who will work in close partnership with each student in his or her formulation of a project, the development of a research strategy, and the assessment of a student's progress. The primary goal is for each student scholar to conduct an inquiry or investigation that makes an original, intellectual or creative contribution to their discipline and which is shared in an appropriate venue. Sophomore-Senior Level, Repeatable. Instructor approval required.

## SCIENCE

SCIE 1100 Human Biology ..... 4 hrs.

Human Biology is an introductory course intended for non-science majors and is specifically designed to enable students to relate human structure and function to everyday life. Topics include basic human genetics, structure and function of the human body, relationship of humans to their environment, and public health. Current topics related to human biology are discussed throughout the semester. This course includes 3 hours of lecture and 2 hours of lab per week.

SCIE 1103 Science That Matters ..... 4 hrs.

Socially-relevant science topics are investigated in an interdisciplinary (biology, chemistry, earth and space science, and physics), activities-based, modular format. Two-to three-week modules present both the process and content of science as a vital part of major contemporary issues. In each module, students explore the underlying science and employ collaborative learning and evidence-based analysis to understand the topic and formulate personal judgments about the issue. The course is heavily web-based, with no printed text, and meets for two-hour class periods twice a week.

SCIE 1105 Environmental Science ..... 4 hrs.

This course meets twice a week with lecture and activity-based learning during each time period. The course introduces students to the biotic and abiotic world and human's impact on it. Students will review our current understanding of biology, chemistry and geology and learn how these concepts are applied to environmental science. This knowledge will be used to address current issues in environmental science dealing with specific problems. These activities will be based on real world environmental problems ranging from those of indigenous peoples to global warming. Individuals completing the course will have gained insight into human impact on the environment through an understanding of physical, chemical, and biological principles. They will also develop a greater understanding of human, cultural and societal concerns as related to the environment and will be more able to appreciate cost and benefits related to them.

SCIE 1107 Geographic Information Systems ..... 4 hrs.

This course meets two times per week and is a flipped (Lecture material is covered by students outside of class and applied in class), application-based course requiring a working knowledge of computer applications such as Excel and Windows Explorer. This is an interdisciplinary course designed to introduce students to spatial thinking and its application through the use of Geographic Information Systems (GIS) software. Students will be introduced to basic concepts in cartography including the role of other spatial technologies (aerial photography, remote sensing, and Global Positioning Systems - GPS) as they relate to GIS applications. Students will also learn how to find data to answer specific questions by using GIS software and completing a semester project using GIS to address an issue of interest to them, and applicable to their fields of endeavor. Lecture content is provided online in the form of Power Point files and through readings from the text. Students are quizzed over this content online before working over it in class. Class time is used to learn Software application, complete exercises and work on a semester project.

SCIE 1115 Earth and Sky..... 4 hrs.

For non-science majors, this course is designed to give students a greater appreciation of the world around them. The course focuses on observable, useful science by an integrated approach of meteorology and astronomy from the perspective of Earth. Topics cover the Earth's formation, its weather, and its place in the Universe. Students investigate both the process and content of science through activities, collaborative learning, guest speakers, and local field trips. Concepts are applied to weather and astronomy observations as well as critical environmental issues. The course uses a printed text and meets for two-hour class periods twice a week.

SCIE 1120 Introduction to Meteorology..... 4 hrs.

A non-technical treatment of the fundamentals of modern meteorology and the effects of weather and climate. This course gives a broad overview of the basics of meteorology, including temperature, air pressure, relative humidity, wind speed and direction, cloud formation, and atmospheric stability. This will provide a clear understanding of the "behind the scenes" work of the daily weather patterns.

SCIE 1130 The Science of Disasters ..... 4 hrs.

This course is designed to engage students interested in the science behind geological and many human-made disasters. This course introduces geology with special emphasis on geological processes such as plate tectonics, movement of fluids such as wind, water, and ice, and gravity-driven movements of materials. It presents the principles underlying from geologic history, written historical accounts, and today's headlines. The course assesses some of man's attempts to engineer solutions to geological problems, global and extraterrestrial forces as they affect the planet, and our current understanding of the cause and effect of climate change. This course is conducted primarily in lecture and discussion format with the inclusion of in-class exercises and relevant case studies presented in web format.

SCIE 1199 Special Topics in Science..... 1-4 hrs.

Studies in special selected topics, to be determined by the instructor and approved by the college dean. Credits earned will be applicable as free electives in degree and certificate programs.

SCIE 1210 Science in the Heart of Appalachia ..... 4 hrs.

During this course you will explore the science underlying the formation, extraction and utilization of coal within the context of coal-based societal issues. The course will emphasize active, student-centered learning. Topics include the formation of different coal types, why coal is such an excellent source of energy, acid mine drainage, environmental pollution, human health issues, and the future of new coal technologies. You will investigate the important, intractable social problems of non-renewable resource depletion, mountaintop removal-valley fills and public health. You will be challenged to examine your role as a citizen and energy consumer in finding equitable solutions to these and other issues.

SCIE 1220 Geologic Heritage in the Field ..... 4 hrs.

Designed for non-science majors and no prerequisites, this course explores introductory geology concepts in the classroom and through field trips. Topics include the Earth's formation, plate tectonics, geologic time, mineral and rock identification, landform interpretation, and their relationship to cultural history. Students investigate both the process and content of geology through activities, collaborative learning, and local field trips. Concepts are applied to deciphering the state's ancient geology, geography, and

critical environmental issues. The course primarily uses handouts with a suggested textbook. The class meets for two-hour class periods twice a week that include local field trips during class time plus 3 or 4 daylong field trips on the weekends to areas of interest.

SCIE 1230 Student Projects in SPACE ..... 4 hrs.

Students taking this course will be introduced to concepts of science, scientific investigation and project engineering through a series of enjoyable and progressively more challenging projects, from bridge-building to a weather balloon rising 100,000 ft into the stratosphere. Concepts of physics, chemistry, engineering technologies, and business will be used to successfully complete the projects. Emphasis is placed on individual and team problem solving, systems thinking, and project management.

SCIE 2200 Ocean Issues & Society ..... 4 hrs.

This online project-based science course is designed to teach science concepts within the theme of ocean issues such as Coral Bleaching, Offshore Drilling, Garbage Gyres, and Dead Zones. The fifteen modules focus on the biology, chemistry, physics, and geology content and processes needed to understand ocean issues. Each module explores student understanding of the issue, promotes ocean science literacy, investigates impacts on the ocean and/or terrestrial environment, and consists of application projects requiring engagement with science, technology, and societal needs.

## SOCIAL SCIENCE

SSCI 1199 Special Topics in Social Science ..... 1-12 hrs.

Studies in special selected topics, to be determined by the instructor and approved by the School's chairperson. Credits earned will be applicable as free electives in degree and certificate programs.

SSCI 4431 Methods and Materials of Teaching Social Studies ..... 3 hrs.

A survey of theory and practice in secondary school social studies. Students participate in laboratory exercises using various techniques of social studies teaching. Each student is also required to plan and teach at least one micro-unit. Fall semester only. PR: Successful completion of PPST PRAXIS Test.

SSCI 4498 Interdisciplinary Seminar ..... 3 hrs.

Identification and synthesis of major concepts in the fields of geography, history, political science, psychology, sociology and economics. No prerequisites for History Majors. PR: Instructor approval required. Fall semester only.

SSCI 4998 Undergraduate Research ..... 0-6 hrs.

Undergraduate research is an experiential learning activity that provides an opportunity for a student to engage in the scholarly

activities of their major discipline under the guidance of a faculty mentor who will work in close partnership with each student in his or her formulation of a project, the development of a research strategy, and the assessment of a student's progress. The primary goal is for each student scholar to conduct an inquiry or investigation that makes an original, intellectual or creative contribution to their discipline and which is shared in an appropriate venue. Sophomore-Senior Level, Repeatable. Instructor approval required.

## SOCIOLOGY

~ SOCY 1110

Introductory Sociology ..... 3 hrs.

This course focuses on social interaction and group behavior with an emphasis on the scientific study of contemporary society. Topics include issues relating to socialization, culture, and inequality. Using these concepts students will analyze relationships among the institutions of family, religion, politics, and work.

SOCY 1150 Introduction to Healthcare Professions ..... 3 hrs.

This course is designed to introduce students to the basic tenets of health and well-being, healthcare settings, and a variety of healthcare professions. Students will learn about different health professions, how health professions impact health and well-being, and the different settings in which healthcare professionals work. Emphasis will be placed on how roles within healthcare settings intersect to support the goal of personal and public health. (SOCY 1150 is the same course as ALLH 1150 and PSYC 1150; students may receive credit for the course only once).

SOCY 1160 Exploration of Healthcare Professions ..... 2 hrs.

Students will explore healthcare settings through service learning projects. Students will partner with community groups/agencies that provide health-related services to citizens of North Central WV and beyond. Emphasis will be placed on teamwork, collaboration, and the achievement of personal and public health goals. This is a 2 credit course. (SOCY 1160 is the same course as ALLH 1160 and PSYC 1160; students may receive credit for the course only once).

PR or CR: ALLH 1150 or SOCY 1150 or PSYC 1150

SOCY 1199 Special Topics in Sociology ..... 1-12 hrs.

Studies in special selected topics, to be determined by the instructor and approved by the School's chairperson. Credits will be applicable as sociology major and minor electives, or as free electives in other degree and certificate programs.

SOCY 2200

Social Problems ..... 3 hrs.

In this course students will use a sociological perspective to critically examine problems in society. Topics include concerns

related to families, education, the workplace, the media, poverty, crime, drug abuse, health issues, war and terrorism, the environment, and global concerns. Individual and social action as a potential solution to these problems will also be addressed.

SOCY 2205 Principles of Race, Class, and Gender..... 3 hrs.

This course is an introduction to the sociological analysis of race, class, and gender in contemporary society. This course explores how race, class, and gender are constructed, reinforced, and maintained in society. Students will critically analyze how systems of power and inequality affect cultural norms, social interactions, and institutional structures. Over the course of the semester, students will develop an appreciation for the multidimensional and complex nature of the issues underlying the construction and intersection of race, class, and gender.

SOCY 2220 Population Studies ..... 3 hrs.

Population studies, also referred to as demography, involves the study of human populations' size, composition and distribution. Population growth is examined, as well as many of the factors responsible for population growth. Interrelationships among demographic, social, economic and environmental factors are investigated, in the context of population issues and problems. PR: SOCY 1110.

SOCY 2230 Social Psychology ..... 3 hrs.  
(Same as PSYC 2230)

This course covers the scientific study of how individuals think, feel, and behave in a social context. Topics include the self, stereotypes, prejudice and discrimination, attitudes, conformity, group processes, attraction, helping and aggression. Same course as PSYC 2230 Social Psychology; also listed as PSYC 2230 Social Psychology. Credit may be received for either PSYC 2230 or SOCY 2230, but not both. PR: PSYC 1101 or SOCY 1110.

SOCY 2240 Behavioral Statistics ..... 3 hrs.  
(Same as PSYC 2240)

This course covers elementary statistical description and analysis, as employed particularly in the behavioral sciences. Same course as PSYC 2240 Behavioral Statistics; also listed as PSYC 2240 Behavioral Statistics. Credit may be received for either PSYC 2240 or SOCY 2240, but not both. PR: MATH 1107 or higher.

SOCY 3301 Cultural Anthropology..... 3 hrs.

A study of human biological and social origins, including human prehistory, race, the origin and nature of culture, social organizations among preliterate peoples, cultural diffusion and culture change. PR: SOCY 1110 or SOCY 1111. (Offered in Spring semester.)

SOCY 3310 Sociology of the Family..... 3 hrs.

A study of the background, structure and function of the American family, with emphasis placed on the effect of social change upon the family. The meaning of the paired relationship is examined, along with alternatives to marriage and the family. PR: SOCY 1110.

SOCY 3325 Stratification and Class..... 3 hrs.

The course includes an analysis of social structure and stratification in terms of class, status and power relations in society; students will examine various theories and research findings. PR: SOCY 1110 and SOCY 2205.

SOCY 3340 Juvenile Delinquency ..... 3 hrs.

A study of what society defines as delinquent behavior and of the young people designated as delinquents. Emphasis will be placed on the causes of delinquency and on the various techniques and methods of prevention, treatment and rehabilitation. PR: SOCY 2200.

SOCY 3350 Sociology of Religion ..... 3 hrs.

This course seeks to introduce undergraduate students to the nature and functions of religious beliefs and institutions in modern societies, with a primary emphasis on conditions in the contemporary United States.

SOCY 3360 Research Methods in the Behavioral Sciences ..... 4 hrs.

Research methods provides an introduction to: a) the scientific method used in the behavioral sciences; b) the design and control of research experiments; c) the statistical analysis of data; d) the communication of research results; and e) the application of ethics in the practice of research. Various observational, relational and experimental approaches are presented and include but are not limited to: survey research, interviewing, content analysis, experiments, ethnographies, focus groups, historical analysis, and analysis of secondary data. This course includes three hours of instruction and one hour of Lab. PR: PSYC 2240 or SOCY 2240. Same course as SOCY 3360 Behavioral Research Methods. Credit may be received for PSYC 3305 or SOCY 3360 but not both.

SOCY 3370 Concepts of Survey Design ..... 3 hrs.

This course is a project-centered exploration of concepts in survey design. The role and mechanics of developing a survey instrument in the context of an overall research project will be reviewed. Topics will include translating research goals into a research design, probability sampling, questionnaire construction, data collection (including interviewing techniques), data processing, and ethical considerations. PR: SOCY 2240 OR PSYC 2240. (Offered in Spring semester.)

SOCY 3390 Social Change..... 3 hrs.

This course will introduce students to paradigmatic theories of social movement. Topics covered may include conditions under which social actors organize collectively to engage in social change; how theorists understand these movements, their emergences, their potentials, and their successes or failures; and the state of social movement along with collective politics in "complex" societies. This course will introduce students to both mainstream theories of social movement and alternative ways of conceptualizing contemporary social movement. PR: SOCY 2220.

SOCY 3395 Sociological Theory..... 3 hrs.

*Writing Intensive*

A study of the historical development of modern sociological thought. PR: ENGL 1102 and SOCY 1110. Junior or senior standing. (Offered in Fall semester.)

SOCY 4410 Sociology of Work..... 3 hrs.

A study of the organization, structure, function and social relationships found in the various areas of industrial activity in American society. The area of industrial relations will receive special emphasis. PR: SOCY 1110.

SOCY 4450 Race and Ethnicity ..... 3 hrs.

A study of racial and cultural minority groups in the United States, with special emphasis upon understanding the causes of their perseverance and the reason for majority-minority antagonisms. Students will also examine the techniques whereby prejudices are developed and ameliorated. PR: SOCY 1110 and SOCY 2205.

SOCY 4461 Advanced Methodology ..... 3 hrs.

This course will critically compare the various stages of social research, such as conceptualization of hypothesis, measurement, experimental design, sampling, data collection, data analysis and data interpretation. Within this format, various special topics will be developed, depending upon the available resources. PR: SOCY 3360 or PSYC 3305; Instructor approval required.

SOCY 4471 Advanced Sociological Theory: A Critical Review ..... 3 hrs.

A comparison, contrast and critical examination of certain selected sociological theorists. PR: SOCY 3395 or Instructor approval required.

SOCY 4480 Senior Capstone ..... 3hrs.

This course serves as a culminating experience for the undergraduate study in sociology. It is designed to help students synthesize what they have learned in sociology and make the transition to the next stages of their lives. This will be achieved through two related activities. First, students will build on previous coursework in theory and research methods to create an original, article-length research paper analyzing sociological data. Second,

students will investigate recent trends in the economy and labor market, collect data on an occupation they are planning to pursue after graduation, and interview people working in that field.

Students should end this senior seminar with a sense of pride in what they have accomplished as sociology majors and a clearer vision for their future career. PR: SOCY 3370 Concepts of Survey Design and SOCY 3395 Sociological Theory.

SOCY 4487 Directed Study in Sociology ..... 1-6 hrs.

Intensive study and reading on a topic selected by the student and instructor. Requirements and credit must be decided before registration through instructor-student consultation. Up to 3 credit hours may be applied to the sociology major elective requirements Repeatable PR: Instructor approval required.

SOCY 4488 Practicum in Sociology ..... 1-6 hrs.

A specially arranged course designed to give the student practical experience in work settings related to sociology. Students will work with the course supervisor to develop contacts at an agency of interest before registering for the course, and their work will be supervised by an identified field supervisor as well as the course supervisor. A minimum of 120 hours in the position is necessary for 3 credit hours. Up to 3 credit hours may be applied to the sociology major elective requirements Repeatable PR: Instructor approval required.

SOCY 4489 Directed Research in Sociology..... 1-6 hrs.

This course is an experiential learning activity that provides the student an opportunity to engage in original research under the guidance of a faculty mentor. The student in collaboration with a faculty mentor will identify a project topic and outline the requirements for said project before registering for the course. Up to 3 credit hours may be applied to the sociology major elective requirements Repeatable PR: Instructor approval required.

SOCY 4490 Seminar: Sociological Literature ..... 1-12 hrs.

A course focusing on original sources and publications not primarily used as texts. PR: SOCY 3395 or Instructor approval required.

SOCY 4497 Seminar: Special Problems in Sociology ..... 1-12 hrs.

Open only to juniors and seniors majoring in Sociology. Reading and research on subjects suited to the student's needs. PR: SOCY 3395 or Instructor approval required.

SOCY 4998 Undergraduate Research ..... 0-6 hrs.

Undergraduate research is an experiential learning activity that provides an opportunity for a student to engage in the scholarly activities of their major discipline under the guidance of a faculty mentor who will work in close partnership with each student in his or her formulation of a project, the development of a research

strategy, and the assessment of a student's progress. The primary goal is for each student scholar to conduct an inquiry or investigation that makes an original, intellectual or creative contribution to their discipline and which is shared in an appropriate venue. Sophomore-Senior Level, Repeatable. Instructor approval required.

## SPANISH

### SPAN 1101

Elementary Spanish I ..... 3 hrs.

Designed for the student with little or no prior experience with Spanish. Students will practice Spanish pronunciation and will learn basic grammar as they develop skills in reading, writing, speaking and comprehension. Students will develop communication skills in situations related to everyday living, both at home and in the workplace. Students with two years or more of high school Spanish should register for SPAN 1102.

### SPAN 1102

Elementary Spanish II ..... 3 hrs.

A continuation of Spanish 1101. Students expand their skills and knowledge of grammar while reading, writing, speaking and building a broad vocabulary base. Students will develop communication skills in situations related to everyday living, both at home and in the workplace. PR: SPAN 1101 or equivalent.

SPAN 1199 Special Topics ..... 3 hrs.

Studies in selected topics, to be determined by the instructor and approved by the chairperson. Credits earned will be applicable as free electives in degree and certificate programs.

SPAN 2200 Spanish Language Film and Video ..... 3 hrs.

A survey of Peninsular and Latin American media. Media are usually subtitled; no prior knowledge of Spanish required.

### SPAN 2201

Intermediate Spanish I ..... 3 hrs.

Students integrate the grammar studied with the skills acquired in Spanish 1101 and 1102, and become familiar with more sophisticated grammatical structures. The course will focus on reading, writing, and communication skills in situations related to everyday living, both at home and in the workplace. PR: SPAN 1102.

### SPAN 2202

Intermediate Spanish II ..... 3 hrs.

The fourth and last course of the basic language program, this course is a continuation of SPAN 2201. The course emphasizes the development of speaking, listening, reading, and writing skills for effectively communicating in Spanish at the intermediate level

within a cultural-based context. At the end of this course students should have attained a skill level of intermediate in all four skills mentioned above, the communicative modes (Interpersonal, Interpretive, and Presentational), and the five goals (Communication, Cultures, Connections, Comparisons, and Communities) recommended by the Proficiency Guidelines classifications of the American Council on Teaching Foreign Languages (ACTFL). Students participate in pair, small-group and whole-class activities that focus on the meaningful and accurate communication of information in the target language. The class is conducted entirely in Spanish. PR: SPAN 2201.

SPAN 2250 Spanish For the Medical Professions ..... 3 hrs.

This course is designed to enable the student to effectively manage the fundamentals of medical terminology in Spanish. PR: SPAN 1102. Offered on demand.

SPAN 2251 Spanish for Criminal Justice ..... 3 hrs.

This course enables the student to effectively manage the fundamentals of law enforcement terminology in Spanish. PR: SPAN 1102.

SPAN 2252 Spanish for a World Economy ..... 3 hrs.

This course is designed to enable the student to effectively manage the fundamentals of business terminology in Spanish. PR: SPAN 1102.

SPAN 3300 Undergraduate Student Exchange ..... 3-6 hrs.

Any student who participates in an exchange program which is approved by his/her advisor may receive three to six credit hours, depending upon the type of program and its duration. PR: SPAN 1102.

SPAN 3301 Spanish Composition and Conversation I ..... 3 hrs.

#### *Writing Intensive*

This course is designed for students who wish to develop proficiency in Spanish by integrating the four language skills and also increase their knowledge of Hispanic cultures and societies using authentic materials and literature. Students who enroll in this course should already have attained an acceptable proficiency in Spanish. This course should help students to develop their Spanish proficiency across three communicative modes (Interpersonal, Interpretive, and Presentational), and the five goals (Communication, Cultures, Connections, Comparisons, and Communities) recommended by the Proficiency Guidelines classifications of the American Council on Teaching Foreign Languages (ACTFL). Classroom activities are highly interactive and focus on speaking and writing in the target language at an advanced level. PR: SPAN 2202.

SPAN 3302 Spanish Composition and Conversation II ..... 3 hrs.

This course, a continuation of SPAN 3301, is designed for students who wish to acquire a solid knowledge of those major points of Spanish grammar. Students who enroll in this course should already have attained an acceptable proficiency in using Spanish. Through discussion and correction of assigned exercises, analysis of authentic readings, and contrastive study of Spanish and English syntax and lexicon, students will develop an awareness of the norms of standard Spanish with the aim of incorporating these features into their own oral and written linguistic production. Classroom activities focus on writing in the target language at an advanced level. SPAN 3301 and 3302 can be taken in any order, but it is strongly recommended to take 3301 before 3302. PR: SPAN 2202.

SPAN 3310 Spanish Civilization and Culture ..... 3 hrs.  
The students will study the history, civilization, and culture of Spain through extensive reading, videos, writing and class discussion. PR: SPAN 3301 or 3302.

SPAN 3320 Latin American Civilization and Culture ..... 3 hrs.  
The students will study the history, civilization, and culture of Latin America through extensive reading, videos, writing and class discussion. PR: SPAN 3301 or 3302.

SPAN 3350 History of the Spanish Language..... 3 hrs.  
This class is an introduction to the historical development of the Spanish lexicon, morphology, and phonology. It is designed for the student with little or no previous background in linguistics. PR: SPAN 3301 or 3302.

SPAN 4400 Survey of Latin American Literature..... 3 hrs.  
This class covers the major movements in Latin American literature, from Pre-Colombian times through the present. Students will be exposed to the major genres (poetry, prose, and drama) through extensive reading and will become familiar with the greatest writers of Hispanic literature. PR: SPAN 3301 or 3302.

SPAN 4401 Survey of Peninsular Literature ..... 3 hrs.  
This class focuses on the major movements in Peninsular literature, from the Spanish Middle Ages through the present. Students will be exposed to the major genres (poetry, prose, and drama) through extensive reading and will become familiar with the greatest writers of Spanish literature. PR: SPAN 3301 or 3302.

SPAN 4402 Independent Study ..... 3-6 hrs.  
Students may participate in a variety of programs designed to help them attain a higher level of fluency and a greater understanding of Hispanic culture. PR: SPAN 4400 or 4401, and Instructor approval required.

SPAN 4410 Advanced Skills: Speaking, Writing, Listening and Reading ..... 3 credits  
In this class, students will continue developing advanced communication skills needed for the required PRAXIS exam, and ACTFL OPI (Oral Proficiency Interview) as well as the optional ACTFL WPT (Writing Proficiency Test). Students will work towards reaching the ACTFL standard of "Advanced Low," the proficiency level ACTFL recommends for graduating World Language majors. PREREQUISITES: SPAN 4400 or 4401.

SPAN 4411 Spanish Capstone: Proficiency Portfolio ..... 1 Credit  
In this class, students create a Spanish language and cultural proficiency portfolio addressing ACTFL World-Readiness Standards for Learning Languages. Students are expected to integrate the five goal areas of the Standards (communication, culture, connections, comparisons and communities) into a cohesive language and cultural proficiency framework needed for graduation. PREREQUISITES: SPAN 4400 or 4401.

SPAN 4418 U.S. Hispanic Cultures & Literature ..... 3 hrs.  
This course studies the history of the Hispanic presence in the US, its influence upon contemporary US culture, society, and economy and the politics of language. Materials studied include newspaper articles, essays, films and plays. PR: SPAN 3310 or 3320.

SPAN 4431 Methods: Second Language Acquisition in the Classroom ..... 3 hrs.  
Taught in English. In this class, foreign language teaching majors will study the methodology of second language acquisition and its application in the classroom, familiarize themselves with national foreign language instruction standards, design lesson plans, teach mini-lessons, participate in peer evaluation and become familiar with the latest pedagogical technologies available. PR: SPAN 4400 or 4401, and Instructor approval required.

SPAN 4998 Undergraduate Research ..... 0-6 hrs.  
Undergraduate research is an experiential learning activity that provides an opportunity for a student to engage in the scholarly activities of their major discipline under the guidance of a faculty mentor who will work in close partnership with each student in his or her formulation of a project, the development of a research strategy, and the assessment of a student's progress. The primary goal is for each student scholar to conduct an inquiry or investigation that makes an original, intellectual or creative contribution to their discipline and which is shared in an appropriate venue. Sophomore-Senior Level. Repeatable. Instructor approval required.

## SPECIAL EDUCATION

SPED 2520 Linking Policy and Practice in Special Education ..... 3 hrs.

Required. PR: EDUC 2240.

This course introduces participants to complex situations across developmental ranges of Individuals with Exceptionalities (IWE) from kindergarten through twelfth grade, therefore demonstrating the importance of ongoing attention to legal matters and serious consideration of professional and ethical issues. Course participants will analyze IDEA and other policy related to special education practice. They will analyze and describe special education as an evolving and changing discipline based on philosophies, evidence-based principles, theories, policies, and historical points of view that continue to influence the field. Course participants will demonstrate an understanding of how technology is used to support and manage all phases of planning, implementation, and evaluation. Procedures for determining eligibility, drafting an Individualized Education Plan (IEP), facilitating meetings, and planning for transition services will be covered in this course.

SPED 3520 Behavior Analysis, Intervention, and Support... 3 hrs.  
Required. PR: EDUC 2240.

This course focuses on the principles and practices of positive behavioral supports, research-based applied behavior analysis, and behavior intervention strategies used to create a positive environment for teaching and learning which will include strategies used in schools, classrooms, and for students with exceptionalities. Upon successful completion of this course, the beginning special educator will be able to skillfully create safe, inclusive, culturally responsive learning environments so that individuals with exceptionalities become active and effective learners who develop emotional well-being, positive social interactions, and self-determination. This course will include clinical applications.

SPED 4520 Assessment and Instruction of Individuals with Exceptionalities (IWE) ..... 4 hrs.  
Required. PR: EDUC 2260.

This course emphasizes strategic instruction across curricular content areas to individualize learning for students with mild to moderate exceptionalities. Course participants will select a variety of formal and informal assessments and will analyze information from assessments to develop evidence-based comprehensive instructional programs that support mastery, promote generalization, and enhance critical thinking for individuals with mild to moderate exceptionalities. Course participants will explain how assistive and instructional technology can be used to help students with disabilities access the general education curriculum. Procedures for consulting and collaborating with other

professionals to support students will be emphasized throughout the course. This course will include clinical applications.

## TECHNOLOGY

TECH 1100 Technology and Society ..... 3 hrs.

A study of the basic knowledge and understanding of the societal impacts of technology. Students will research basic fields in technology such as medicine, manufacturing, communication, transportation, biotechnology, environmental issues, technology transfer, and appropriate technology, to determine current trends. Students will be required to select one area where technology has affected society in a positive and/or negative way. Each student will be required to research and make an oral presentation on the selected topic.

TECH 1101 Introduction to Technology ..... 3 hrs.

In this course, students will apply knowledge, tools, and skills to solve problems and extend their human capabilities. The goals of this course are for all students to develop some measure of Technological Literacy, while understanding the uniqueness of technology in human endeavors. A multidisciplinary approach to technology requires students to incorporate skills and techniques in all aspects of life. Interpersonal skills and relationships will be explored as students are challenged with collaborative hand-on problem-based learning activities. This course is intended as a survey of the discipline of technology and technological systems.

TECH 1102 Preventive Maintenance ..... 3 hrs.

This course is the beginning class for all students interested in a heavy equipment career. Many employers require a commercial driver's license of the employee. This course supports a CDL by providing the student with instruction on preventive maintenance practices, scheduled procedures, documents, and D.O.T. required record system and on determining the needs for repair.

TECH 1104 Technology Design & Problem Solving ..... 3 hrs.

This course provides incoming students with the prerequisite knowledge and skills for required technology systems classes that follow. Students will study the philosophy, rationale, and current curriculum trends in Technology Education. The course will also focus on basic design and drafting techniques, laboratory and machine tool safety practices and design and problem-solving processes used in technological career fields. Class methodology will include both lecture and applied experiences with tools, equipment and processes of technology.

TECH 1108 Engineering Graphics I ..... 3 hrs.

This course contains essentials of engineering graphics for engineering technology students. Content and emphasis of the course is to provide competency in technical sketching, blueprint

reading, CAD applications, applied geometry, orthographic projection, section, dimensioning, tolerances, threads and fasteners, weldments, detail and assembly drawing, charting and basic elements of descriptive geometry.

TECH 1150 Control Technology ..... 3 hrs.

This course addresses the mechanical, fluid, electrical, electronic and computer instrumentation used to regulate technical products and systems. Students will develop knowledge and skills of common control-related components/devices and apply them to the solution of practical problems found in typical technology education settings. CR: TECH 1104.

TECH 1199 Special Topics ..... 1-12 hrs.

A study of special topics of educational, technical, or industrial concern. PR: Instructor approval required.

TECH 2202 Transportation I ..... 4 hrs.

A study of the means by which mass is moved from one point to another. This will be achieved by studying the propulsion, guidance, control, suspension, structure and support elements of a wide variety of transportation subsystems. Students will complete an historic timeline of transportation and will deliver an oral presentation on a specific transportation propulsion system. PR: TECH 1104.

TECH 2203 Manufacturing I ..... 4 hrs.

This course deals with an introduction to the inputs, processes and outputs of the manufacturing system. The methodology of the course will involve students with selected research, development and production processes of the manufacturing system. More specifically, each student will design and engineer a middle school- or high school-level product. They will then perform selected production planning, plant engineering, and quality control activities to prepare their product for mass-production. The results of these activities will be developed into camera-ready copy production packets. Finally, each student will set up a production line for the class to mass-produce a limited number of their products, using jigs, fixtures, and/or other mass-production related tooling. PR: MANF 1100, TECH 1104.

TECH 2204 Construction I ..... 4 hrs.

This introductory course in construction is designed to acquaint students with the impacts of construction on society, basic concepts of architectural design, construction accoutrements (materials, tools and equipment), specifications and contracts, and processes involved in residential construction. Students will complete an historic timeline of construction and will deliver an oral presentation on a specific residential construction topic. Students will perform several traditional construction activities such as

materials testing, card structures, and building a residential model. PR: TECH 1104, MANF 1100.

TECH 2208 Engineering Graphics II ..... 3 hrs.

This course is a continuation of Engineering Graphics I. It covers advanced concepts in 3D geometry; parametric solid modeling; geometric dimensioning and tolerancing using ANSI and ISO standards; working drawings and fasteners. Emphasis is placed on a thorough understanding of 3D solid modeling to create engineering graphics in civil, electrical, and mechanical engineering technology. PR: TECH 1108

TECH 2250 History of Technology ..... 3 hrs.

A survey course from prehistorical tool-making to atomic energy and computers in the twentieth century. Credit in History or Technical Education.

TECH 2290 Engineering Analysis I ..... 4 hrs.

This course covers technical problem solutions, utilizing analytical geometry and calculus. Topics include curvilinear motion, related rates, curve sketching, maximal and minimal problems, areas, volumes, centroids and moments of inertia by integration. PR: Sophomore standing. MATH 1102 with a grade of C or better or MATH ACT 25.

TECH 2299 Special Topics ..... 1-12 hrs.

A study of special topics of educational, technical, or industrial concern. PR: Instructor approval required.

TECH 3300 Engineering Analysis II ..... 4 hrs.

A continuation of the study of problem-solving procedures, utilizing calculus. Topics include transcendental functions, partial derivative, double integration, methods of curve fitting, series expansion and differential equations. PR: TECH 2290 or MATH 1185, or MATH 1190 with a grade of C or better.

TECH 3301 Communication ..... 4 hrs.

This is a study of the technical means by which humans communicate. The emphasis will be on electronic and graphic forms of communication. The social/cultural aspects of communication will be studied, as well as the technical components. The course is designed for prospective junior and senior high school technology education teachers, and will be focused on general education. PR: INFO 1100, TECH 1104.

TECH 3302 Manufacturing II ..... 4 hrs.

This course deals with the analysis of the inputs, processes and outputs of the manufacturing system. The methodology of this class is to simulate the organization and operation of a manufacturing corporation. Students will elect a board of directors

and a company president and will organize departments in research and development, industrial relations, finance, production and marketing. The class will design and engineer a college-level product, plan for mass-production, finance the production through common stock sales or other financial means, mass-produce the product, and market it in the school or local community. PR: TECH 2203.

TECH 3303 Transportation II ..... 4 hrs.  
A study of the means by which mass is moved from one point to another. This will be achieved by studying the environments system elements, and social/cultural aspects of the transportation system. The course is designed for prospective junior and senior high school technology education teachers, and will be focused on general education. PR: TECH 2202.

TECH 3304 Construction II ..... 4 hrs.  
This course deals with an analysis of the inputs, processes, and outputs of the construction system. The methodology of this course will involve selected structural design and analysis, and structural production processes which are used by humans to construct building structures, non-building structures (bridges, tunnels, dams, etc.) and transportation structures/surfaces. This course is designed to provide teacher education majors with an overall view of the construction system that can be applied to middle school and high school classroom situations. The primary methodology in this course is structural model building and testing. PR: TECH 2204.

TECH 3310 Man and Technology ..... 3 hrs.  
A historical study of humans and technology as a basis for the development of contemporary philosophical systems. PR: Junior standing.

TECH 3331 Organization and Administration of Technology Education ..... 4 hrs.  
This course is designed to prepare the pre-service technology education teacher to effectively organize and manage a technology education classroom and laboratory. Emphasis is placed on safety system design, discipline planning, laboratory organization and management, requisitioning/supplies/equipment, machine maintenance and facility design. Also included are topics relating to curriculum trends, Technology Student Association (TSA) and public relations. PR: TECH 3303 and 3304.

TECH 3393 Future Global Crises ..... 3 hrs.  
A team-taught, multi-disciplinary study of potential developments in the world. Areas of concentration are subject to students' choice. (Credit also available in Political Science or Psychology) PR: Junior standing.

TECH 3399 Special Topics ..... 1-3 hrs.  
A study of special topics of educational, technical or industrial concern. PR: Instructor approval required.

TECH 4400 Work Experience Seminar ..... 4 hrs.  
A functional analysis of industrial organization and management, and the implementation of these concepts toward the initiation of a new industry. PR: Sophomore standing as a Technology major or Instructor approval required.

TECH 4401 Work Experience Laboratory ..... 8 hrs.  
Professional work experience, including employer evaluation. PR: Instructor approval required.

TECH 4431 Methods and Materials for Teaching Technology Education ..... 3 hrs.  
This course is designed to prepare the pre-service technology education teacher to effectively teach the range of students in grades five through twelve in the public schools. Emphasis is placed on designing a unit of instruction in one of the four technology education system areas. The primary assignment is the preparation of a unit of study that will include the following topics: a rationale, course/unit planning, lesson planning, instructional objectives, instructional strategies and student evaluation/grading. PR: TECH 3301 and 3331.

TECH 4450 Automation and Robotics ..... 3 hrs.  
This course is designed to serve as a capstone study for qualified students earning the Automation and Robotics Minor. The course integrates the mechanical, electronic, and computer science fields into a study in automation and robotics applications. Automation, motion control, tele-robotic, and robotic solutions are applied to industrial systems. PR: ELEC 4420 and MECH 3320 and COMP 1130.

TECH 4499 Special Topics ..... 1-3 hrs.  
A study of special topics of educational, technical, or industrial concern. PR: Instructor approval required.

TECH 4998 Undergraduate Research ..... 0-6 hrs.  
Undergraduate research is an experiential learning activity that provides an opportunity for a student to engage in the scholarly activities of their major discipline under the guidance of a faculty mentor who will work in close partnership with each student in his or her formulation of a project, the development of a research strategy, and the assessment of a student's progress. The primary goal is for each student scholar to conduct an inquiry or investigation that makes an original, intellectual or creative contribution to their discipline and which is shared in an appropriate venue. Sophomore-Senior Level, Repeatable. Instructor approval required.

## THEATRE

THEA 1110 Introduction to Theatre ..... 3 hrs.

This course provides an overview of the purposes and organization of the theatre and allied areas and the functions of all of the jobs related to a theatrical presentation. Students will examine performer, director, designer, technician, dramaturgy, and "front-of-house" operations and the theatre as a profession, and will learn about professional organizations and securing employment. Fall semester only.

THEA 1114 Body Training and Stage Movement ..... 3 hrs.

The actor explores the movement of the body as it applies to space, line, focus, effort, strength, communication, connection and emotional release. Open to theatre arts majors and minors only. Spring semester only.

~ THEA 1120 Theatre Appreciation ..... 3 hrs.

A general theatre course that serves as an introduction to traditional and more recent developments in Western and non-Western theatrical practice. Students are encouraged to develop their own perspectives and critical skills by means of studying selected writings of theatre practitioners and critics, and by seeing and evaluating campus theatre productions. Satisfies General Studies Outcome 12.

THEA 1140 Theatrical Production ..... 2 hrs.

This course introduces the student to the principles and techniques of the organization, planning, and execution of technical theatre production, including scenery, properties, lighting, costuming, sound and stage management.

THEA 1148 Theatre Workshop I ..... 1 hr.

Students in this course are assigned to Masquers productions. Opportunities are provided for experience in all areas of technical theatre, such as scenic construction, properties, lighting, costume and sound crews, depending upon the proficiency of the student. Maximum credit allowed is 2 hours per semester, up to 4 hours total. Open to freshmen and sophomores. (Juniors and seniors, see THEA 3348)

THEA 1151 Text Analysis ..... 3 hrs.

This course provides a basic introduction to the processes, techniques and applications of text analysis as they relate to the activities and responsibilities of theatre artists - acting, directing, designing, etc. Spring semester only.

THEA 1160 Technical Theatre Practicum: Costuming I ..... 1 hr.

Practical experience in varied aspects of costuming through work on Masquers productions or other staged events. Maximum credit allowed is 1 hour per semester, up to 4 hours total. Open to freshmen and sophomores. (Juniors and seniors, see THEA 3360) PR: Instructor approval.

THEA 1162 Technical Theatre Practicum: Lighting I ..... 1 hr.

Practical experience in varied aspects of lighting through work on Masquers productions or other staged events. Maximum credit allowed is 1 hour per semester, up to 4 hours total. Open to freshmen and sophomores. (Junior and seniors, see THEA 3362) PR: Instructor approval.

THEA 1164 Technical Theatre Practicum: Properties I ..... 1 hr.

Practical experience in varied aspects of properties through work on Masquers productions or other staged events. Maximum credit allowed is 1 hour per semester, up to 4 hours total. Open to freshmen and sophomores. (Juniors and seniors, see THEA 3364) PR: Instructor approval.

THEA 1166 Technical Theatre Practicum: Scenic I ..... 1 hr.

Practical experience in varied aspects of scenic work through work on Masquers productions or other staged events. Maximum credit allowed is 1 hour per semester, up to 4 hours total. Open to freshmen and sophomores. (Juniors and seniors, see THEA 3366) PR: Instructor approval.

THEA 1168 Technical Theatre Practicum: Sound I ..... 1 hr.

Practical experience in varied aspects of sound through work on Masquers productions or other staged events. Maximum credit allowed is 1 hour per semester, up to 4 hours total. Open to freshmen and sophomores. (Juniors and seniors, see THEA 3368) PR: Instructor approval.

THEA 1199 Special Topics in Theatre ..... 1-3 hrs.

Studies in special selected topics, to be determined by the instructor and approved by the School's Dean. Credits earned will be applicable as free electives in degree and certificate programs. Maximum credit allowed is 3 hours per semester, up to 12 hours total.

THEA 2212 Theatrical Makeup ..... 1 hr.

Fundamentals of the theory and technique of designing and applying theatrical makeup. A basic makeup kit is required. Fall semester only.

THEA 2218 MUSICAL THEATRE DANCE ..... 1 hr.

This course is designed to develop the student's ability to understand and properly execute various dance styles prevalent in American musical theatre. Emphasis will be on the development of proper body movement, building strength, flexibility and learning techniques. Students will also learn awareness of musicality and artistic expression. Repeatable. Instructor approval required.

THEA 2220 Oral Interpretation..... 3 hrs.

This course provides an introduction to the study and practice of the principles involved in understanding the meaning of prose, poetry and dramatic literature, and the effective transmission of that meaning to an audience. Offered on demand.

THEA 2228 Oral Interpretation Practicum I..... 1-4 hrs.

Preparation for and participation in public performances, intercollegiate competitions and festivals in oral interpretation. Maximum credit allowed is 1 hour per semester, up to 4 hours total. Open to freshmen and sophomores. (Juniors and seniors, see THEA 4428.)

THEA 2230 Acting ..... 3 hrs.

This course is an introduction to the theory and practice of fundamental acting techniques for the stage. PR: THEA 1151 and instructor approval. Fall semester only.

THEA 2238 Acting Workshop I..... 1 hr.

Credit is earned for public performance in faculty-directed Masquers productions. Maximum credit allowed is 2 hours per semester, up to 4 hours total. Open to freshmen and sophomores. (Juniors and seniors see THEA 4432.)

THEA 2244 Introduction to Theatrical Design ..... 3 hrs.

An introduction to the principles of theatrical design, including scenic, lighting and costume design. Spring semester only. PR: THEA 1140 and 1151.

THEA 2251 Playwriting ..... 3 hrs.

The course explores the theory and practice of the playwright's art, and involves instruction in the craft of playwriting and the creation of original scripts for the theatre. Students will learn how to write for the stage, as opposed to the page. A fully developed short play will be required. PR: THEA 1151 and 2230. Offered on demand

THEA 2262 Production Practicum I ..... 1 hr.

Credit is earned for practical experience in varied aspects of technical theatre production, including scenery, lighting, costuming, properties and sound, through work on Masquers productions. Maximum credit allowed is 2 hours per semester, up to 4 hours total. Open to freshmen and sophomores. (Juniors and Seniors, see THEA 4462.) PR: THEA 1148.

THEA 3314 Advanced Theatrical Makeup..... 1 hr.

Practice in advanced design and application of theatre makeup, including prosthetics. PR: THEA 2212. Offered on demand

THEA 3320 The Art of Storytelling in Theory and Practice .... 3 hrs.

The emphasis of the course will be on both the theory and research related to storytelling and the art of storytelling as

performance. In this performance-based course, students will select, craft, rehearse and perform stories suitable to a variety of audiences. Students enrolled in this course are required to attend the National Storytelling Festival in Jonesborough, Tennessee. Also listed as FOLK 3320 and COMM 3320. Fall semester, odd-numbered years.

THEA 3326 Performance Studies..... 3 hrs.

The course explores the theories and practices of approaching performance as a way of knowing. Through theatre exercises and personal discovery, students research, create and perform a solo piece for the stage. PR: THEA 2230. Fall semester, odd-numbered years.

THEA 3330 Advanced Acting ..... 3 hrs.

This course is a continuation of THEA 2230, with specific emphasis on the exploration and application of twentieth-century acting theories applied to both realistic and non-realistic plays. PR: THEA 2230. Spring semester, odd-numbered years.

THEA 3336 Directing ..... 3 hrs.

Principles and techniques of play directing with specific emphasis on play selection and analysis, casting, and staging. PR: THEA 1140, 1151, and 2230. Spring semester only.

THEA 3340 Theatre History I..... 3 hrs.

*Writing Intensive*

A study of the development of theatre from its beginnings through the eighteenth century. PR: ENGL 1102 and THEA 1110. Fall semester, even-numbered years.

THEA 3341 Theatre History II..... 3 hrs.

*Writing Intensive*

This course is a continuation of THEA 3340, exploring the development of theatre from the nineteenth century to the present. PR: ENGL 1102 and THEA 1110. Spring semester, odd-numbered years.

THEA 3344 Advanced Theatrical Design ..... 3 hrs.

This course will involve completed projects in scenic, lighting and costume design. Students will apply theory and introductory techniques and skills presented in the beginning course. PR: THEA 2244. Fall semester, odd-numbered years.

THEA 3346 Creative Puppetry ..... 3 hrs.

The course explores the theories and practices of puppetry as an artistic performance and as an educational tool. Projects in this course will include puppet design, construction and performance. Emphasis will be placed on teaching the National Standards in Theatre as well as on ways to use puppets across the curriculum. Fall semester, odd-numbered years.

THEA 3348 Theatre Workshop II ..... 1 hr.

Students in this course are assigned to Masquers productions. Opportunities are provided for experience in all areas of technical work, such as scenic construction, properties, lighting, costume and sound crews, depending upon the proficiency of the student. Maximum credit allowed is 2 hours per semester, up to 4 hours total. Open to juniors and seniors. (Freshmen and sophomores see THEA 1148.)

THEA 3350 Children's Drama ..... 3 hrs.

*Writing Intensive*

A course providing an introduction to the theories and techniques involved in both creative drama for children and children's theatre. Spring semester, even-numbered years. PR: ENGL 1102.

THEA 3352 Creative Drama ..... 3 hrs.

The course explores the history, theories and practices of playmaking, storytelling, creative drama and theatre-in-education as they are used in educational settings with diverse populations. Projects in this course will also apply drama techniques across the school curriculum. Fall semester, even-numbered years. Satisfies General Studies category Outcome 12.

THEA 3354 Theatre Education Practicum ..... 1 hr.

This course involves the application of theories and techniques of children's theatre, creative dramatics and puppetry under supervision with diverse populations in educational settings. PR: THEA 3346, 3350 and 3352.

THEA 3356 Summer Theatre: Rehearsal and Performance ..... 1-3 hrs.

Systematic rehearsal and public performance with Town & Gown Summer Theatre. Designed for students who desire concentrated stage training and experience. Roles are dependent upon directors' selection and hours of credit desired. PR: Auditions.

THEA 3358 Summer Theatre: Production and Management ..... 1-3 hrs.

Experience provided in every phase of theatrical production and some phases of theatre management, in conjunction with Town & Gown Summer Theatre. Experiences include set construction, lighting, costumes, makeup, box office, house management and publicity. Assignments dependent upon hours of credit desired. PR: Instructor approval.

THEA 3360 Technical Theatre Practicum: Costuming II ..... 1 hr.

Practical experience in varied aspects of costuming through work on Masquers productions or other staged events. Maximum credit allowed is 1 hour per semester, up to 4 hours total. Open to juniors and seniors. (Freshmen and sophomores, see THEA 1160) PR: Instructor approval.

THEA 3362 Technical Theatre Practicum: Lighting II ..... 1 hr.

Practical experience in varied aspects of lighting through work on Masquers productions or other staged events. Maximum credit allowed is 1 hour per semester, up to 4 hours total. Open to juniors and seniors. (Freshmen and sophomores, see THEA 1162) PR: Instructor approval.

THEA 3364 Technical Theatre Practicum: Properties II ..... 1 hr.

Practical experience in varied aspects of properties through work on Masquers productions or other staged events. Maximum credit allowed is 1 hour per semester, up to 4 hours total. Open to juniors and seniors. (Freshmen and sophomores, see THEA 1164) PR: Instructor approval.

THEA 3366 Technical Theatre Practicum: Scenic II ..... 1 hr.

Practical experience in varied aspects of scenic work through work on Masquers productions or other staged events. Maximum credit allowed is 1 hour per semester, up to 4 hours total. Open to juniors and seniors. (Freshmen and sophomores, see THEA 1166) PR: Instructor approval.

THEA 3368 Technical Theatre Practicum: Sound II ..... 1 hr.

Practical experience in varied aspects of sound through work on Masquers productions or other staged events. Maximum credit allowed is 1 hour per semester, up to 4 hours total. Open to juniors and seniors. (Freshmen and sophomores, see THEA 1168) PR: Instructor approval.

THEA 3375 Development of Dramatic Art ..... 3 hrs.

*Writing Intensive*

Study of the works of major playwrights and critical theorists of Western and non-Western theatre. PR: ENGL 1102. Fall semester, even-numbered years. Satisfies General Studies category Outcome 13.

THEA 3392 Costume History and Design ..... 3 hrs.

History of wearing apparel and appointment, with emphasis on the Western world. The course begins with the Egyptians and goes up to the present day, and offers an introduction to the principles of costume design. PR: THEA 2244. Offered on demand.

THEA 4428 Oral Interpretation Practicum II ..... 1-4 hrs.

Preparation for and participation in public performances, intercollegiate competitions and festivals in oral interpretation. Maximum credit allowed is 1 hour per semester, up to 4 hours total. Open to juniors and seniors. (Freshmen and sophomores, see THEA 2228).

THEA 4431 Methods and Materials in Teaching Communication and Theatre ..... 3 hrs.

This course covers the philosophy, methods, and materials of teaching forensic communication and theatre, as well as directing the forensic and theatre co-curricular and extra-curricular activities in the secondary schools. Fulfills Professional Block requirement for those with a single teaching field in Oral Communication or Theatre Education. Fall semester only.

THEA 4432 Acting Workshop II ..... 1 hr.

Credit is earned for public performance in faculty-directed Masquers productions. Maximum credit allowed is 2 hours per semester, up to 4 hours total. Open to juniors and seniors. (Freshmen and sophomores, see THEA 2238).

THEA 4438 Senior Comprehensive Project ..... 3 hrs.

The course consists of a capstone experience that assesses student understanding of the theories and practices studied and developed throughout the program. A significant production/research project is designed and executed with the guidance of a faculty mentor. Senior standing. Open to theatre arts majors only.

THEA 4462 Production Practicum II ..... 1 hr.

Credit is earned for practical experience in varied aspects of technical theatre production, including scenery, lighting, costuming, properties and sound, through work on Masquers productions or other staged events. Maximum credit allowed is 1 hour per semester, up to 4 hours total. Open to juniors and seniors. (Freshmen and sophomores, see THEA 2262) PR: THEA 1148.

THEA 4480 Theatre Business Management and Promotion 3 hrs.

Study of theatre management procedures, including responsibilities and practices in business management, box office management and house management and the study of the responsibilities and practices in theatre promotion, including the use of the media. Offered on demand.

THEA 4484 Theatre Business Management Practicum ..... 1 hr.

Practical experience in varied aspects of business management, including box office assignments through work with Masquers productions. PR: Instructor approval.

THEA 4488 Promotion Practicum ..... 1 hr.

Practical experience in varied aspects of theatrical promotion through work on Masquers productions. PR: Instructor approval.

THEA 4490 Directed Study in Theatre ..... 1-3 hrs.

The student selects directed study in any area of theatre which is not treated in the theatre course offerings. Course designed by student and selected faculty, with approval of the School's Dean.

Maximum credit allowed is 3 hours per semester, up to 12 hours total. PR: Instructor approval.

THEA 4998 Undergraduate Research ..... 1-3 hrs.

Undergraduate research is an experiential learning activity that provides an opportunity for a student to engage in the scholarly activities of their major discipline under the guidance of a faculty mentor who will work in close partnership with each student in his or her formulation of a project, the development of a research strategy, and the assessment of student's progress. The primary goal is for each student scholar to conduct an inquiry or investigation that makes an original, intellectual or creative contribution to their discipline and which is shared in an appropriate venue. Maximum credit allowed is 3 hours per semester, up to 9 hours total. PR: Sophomore standing and above, instructor approval.

# Faculty

ABRUZZINO, DAVID (2011)

Assistant Professor of National Security and  
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B.A. Hamilton College  
M.A. American Military University

BAKER, J. ROBERT (1994)

Director, Honors Program  
Professor/Senior Level: English  
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A.B., M.A., Ph.D. University of Notre Dame

BAKER, RANDALL (1986)

Assistant Professor of Computer Science  
B.S. Fairmont State College  
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BARRA, MOLLY (2017)

First Year Experience Librarian  
B.A. University of Wyoming  
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BAUR, ANDREAS (2000)

Professor of Chemistry  
M.S., Ph.D. University of Regensburg

BAXTER, HARRY N., III (1985)

Professor of Chemistry  
B.S. Clarion University of Pennsylvania  
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BIRCANN-BARKEY, INGRID (2014)

Assistant Professor of Spanish  
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M.S., Ph.D. State University of New York at  
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BLACKWOOD, BRIAN (2012)

Associate Professor of Mathematics  
B.S. Ohio University  
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Assistant Professor of Physics  
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Associate Professor of Nursing  
A.S.N., B.S.N. Fairmont State  
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BOGGESE, JENNIFER H. (2002)

Professor of Art  
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BOLYARD, JASON, P.E. (2007)

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CASELL, MACGORINE (1992)

Professor of Business Administration  
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CHIBA, TORU (2002)

Electronic Services Librarian  
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 Professor of Architecture/Civil  
 Engineering Technology  
 B.S.C.E., M.S.C.E. West Virginia University
- CONDON, ELLEN (1990)  
 Associate Professor of Nursing  
 B.S.N., M.S.N. West Virginia University
- COOK, RACHEL (2015)  
 Assistant Professor of Biology  
 B.S., Ph.D. University of Waterloo
- COSTELLO, HUGH M., P.E. (2009)  
 Chair, Department of Engineering Technology  
 Associate Professor of Mechanical Engineering  
 Technology  
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- CRIHALMEANU, MUSAT (2015)  
 Assistant Professor of Electronics Engineering  
 Technology  
 B.S. Technical University, Cluj-Napoca, Romania  
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 Assistant Professor of Mathematics  
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 Associate Professor of Nursing  
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- DEVINE, THOMAS (2015)  
 Assistant Professor of Computer Security  
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 B.S. Computer Science, Fairmont State University  
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- EICHENBAUM, DANIEL (2011)  
 Coordinator, Music Department  
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- ELLIOTT, DENNIS (2016)  
 Assistant Professor of Aviation Technology  
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- ENGBRETSON, JEAN, CPA (2008)  
 Professor of Accounting  
 B.S., M.P.A. West Virginia University  
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 Professor of Biology  
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 Ph.D. Utah State University
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 Professor of History  
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 Academic Advisor and Outreach Coordinator  
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 Professor of Architecture  
 A.S. Central Florida College  
 A.A. Santa Fe College  
 B.S. University of West Florida  
 M. Arch. Virginia Polytechnic Institute & State  
 University
- MORPHEW, VALERIE (2000)  
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 University  
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# Institutional Directory

## INSTITUTIONAL BOARD OF GOVERNORS

The Institutional Board of Governors for Fairmont State consists of nine members appointed by the Governor with the advice and consent of the Senate and a representative from the faculty, classified staff, and student body chosen by their respective groups.

Dixie Yann, Chair – Fairmont

John Schirripa, Vice Chair - Bridgeport

Deborah Prezioso, Secretary - Fairmont

G.H. (Budd) Sapp - Faculty Representative - Fairmont

Holly Fluharty - Classified Staff Representative - Fairmont

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Jay Puccio – Fairmont

Kevin Rogers – Fairmont

Frank Washenitz - Fairmont

## HIGHER EDUCATION POLICY COMMISSION

The West Virginia Higher Education Policy Commission (WVHEPC) is responsible for developing, establishing, and overseeing the implementation of a public policy agenda for the state's four-year colleges and universities. It is charged with oversight of higher education institutions to ensure they are accomplishing their missions and implementing the provisions set by state statute.

The Commission consists of ten members; seven of whom are appointed by the governor, and three ex-officio members: Secretary of Education and the Arts, State Superintendent of Schools, and Chairperson of the West Virginia Council for Community and Technical College Education.

Carolyn Long, Chancellor

Michael J. Farrell, Chair

Andrew A. Payne III, Vice Chair

Diane Lewis, Secretary

Jenny Allen

Bob Brown, Ex-Officio

James Dailey

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Dr. Steven L. Paine, Ed.D., Ex-Officio

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ADMINISTRATIVE AND FISCAL AFFAIRS, Vice President for.....	Christa Kwiatkowski
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Community Service/Civic Engagement/Student Employment.....	Ashley Tasker
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EMERGENCY MANAGEMENT, Chief of Police and Director of.....	Matt Swain
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INFORMATION TECHNOLOGY, Vice President and CIO.....	Joy Hatch
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Networks, Security and Servers, Director of.....	Colton Griffin
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Alumni Activities .....Director of Alumni Relations  
Fees.....Vice President for Administrative and Fiscal Affairs  
Housing & Residence Life.....Director of Residence Life  
Scholarships, Loan Information.....Director of Financial Aid & Scholarships  
Section 504, ADA.....Vice President for Human Resources and Community Relations  
Services for Students with Disabilities .....Coordinator of Disability Issues and Psychological Services  
Title IX.....Title IX Coordinator  
University Communications.....Assistant Vice President for University Communications

## VISITORS

Visitors are always welcome at Fairmont State. A tour of the campus can be arranged, Monday through Friday at 10:00 a.m. through 2:00 p.m., for persons who make an appointment in advance. For additional information contact the Office of Recruitment in Turley Student Services Center (304) 367-4010 or visit the website:

[www.fairmontstate.edu/visit](http://www.fairmontstate.edu/visit)

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