

GRADUATE CATALOG 2021-2022



FAIRMONT STATE
UNIVERSITY™

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Academic Calendar

2021 Fall Term

August 2-5	Professional Development & Assessment Activities
August 6	Student Convocation
August 9	Classes Begin
September 6	Labor Day, University Closed
September 28	Last Day 1 st 7 Week Classes
September 29	First Day 2 nd 7 Week Classes
September 30	Mid-Term
November 15	Last Day of Classes
November 16-19	Final Exams Begin
November 19	Commencement Walkthrough
November 20	Commencement
November 23	Grades Due
November 25-26	Thanksgiving, University Closed
November 29-December 3	Professional Development and Assessment Activities

2021 Winter Term

November 29	Classes Begin
December 24	Christmas Day Observed, No Classes
December 25	New Year's Day Observed, No Classes
January 3	Last Day of Classes
January 4	Finals Day

2022 Spring Term

January 10	Classes Begin
January 17	Martin Luther King, Jr. Day-University Closed
February 28	First 7 Week Classes End
February 28-March 4	Spring Break* (see note below)
March 2	Mid-Term
March 7	Second 7 Week Classes Begin
April 25	Last Day of Classes
April 26-29	Final Exams
April 29	Commencement Walkthrough
April 30	Commencement
May 3	Grades Due
May 4-6	Professional Development & Assessment Activities

*Spring Break is tentative based on where West Virginia and the Nation are in terms of "normalcy" given the COVID-19 situation.

Introduction

Graduate studies at Fairmont State University (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 specialized 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 advisor.

Fairmont State, a comprehensive, selective institution offers a quality education in a 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. 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 and enrich our programs and the experience of our students.

VISION

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.

MISSION

The Graduate Studies programs support the mission and goals of Fairmont State through graduate education. Based on experiential learning and interdisciplinary study, Fairmont State offers select yet comprehensive high-quality graduate programs. These programs strive to foster core competencies, cutting-edge technologies, and critical thinking. Committed and competent faculty prepare eager and reflective individuals for life and work in an increasingly complex, diverse, and global society. Fairmont State graduate students receive personal attention as they work closely with faculty in small classes. Graduate programs at Fairmont State are responsive to the needs of the external community, and in turn provide the most innovative and highest caliber graduate education in the region.

A student undertakes graduate study in order to gain a deeper knowledge in a particular academic discipline and to become able to demonstrate to the faculty and practitioners in the field the attained mastery of knowledge. Consequently, graduate study cannot be defined primarily in terms of semester hours of coursework beyond the baccalaureate, even though minimum coursework requirements are commonly specified for graduate degrees. Minimum requirements set the lower limit for an integrated plan of study.

Graduate students are expected to become participating members of the University community and are encouraged to attend the lectures presented by visiting scholars, to listen to academic discussions of their faculty, and to study with their fellow graduate students.

OBJECTIVES

Fairmont State offers an expanding number of competitive graduate degree programs that seeks to

- Provide high quality graduate degree programs in fields in which there are needs for people with such

qualifications, for which there are prospective students seeking such advanced qualifications, and to which the University can devote the requisite human and material resources;

- Provide advanced educational opportunities, beyond the baccalaureate, for professionals and others who are not seeking a graduate degree, or who already have a graduate degree, but who need to develop new knowledge and skills to meet changing conditions, or to continue to keep current with advancing knowledge in their specialties;
- Enhance the academic environment of the University by attracting qualified students to the campus, by giving faculty the opportunity to teach their specialties at an advanced level, and by fostering research and creative activity among graduate students and faculty;
- Assure that the graduate student's experience in Fairmont State's programs is a coherent experience of intellectual growth, enabling each student to meet reasonable academic, intellectual, and professional goals.

GRADUATE PROGRAMS & CERTIFICATES

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 in both face-to-face and online learning environments. 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.

Fairmont State offers the following graduate degrees and certificates:

- Master of Architecture (M.Arch.)
- Master of Arts in National Security and Intelligence (M.A.NSI.)
- Master of Arts in Teaching (M.A.T.)
- Master of Business Administration (M.B.A.)
- M.Ed. in Digital Media, New Literacies and Learning
- M.Ed. in Educational Leadership
- M.Ed. in Exercise Science, Fitness & Wellness
- M.Ed. in Multi-Categorical Special Education with Autism
- M.Ed. in Professional Studies
- M.Ed. in Reading Specialist
- M.S. in Criminal Justice
- M.S. in Engineering Management
- M.S. in Healthcare Management
- Certificate in Cybersecurity Management
- Certificate in Healthcare Management
- Certificate in Human Resource Management
- Certificate in Project Management
- Certification in Educational Leadership: Principalship

- Certification in Educational Leadership: Superintendency
- Certification in Reading Specialist

- Professional Development: Engaging in critical self-analysis and articulation of professional goals;

These learning outcomes are shared by all programs and distinguish graduate studies at Fairmont State.

GRADUATE EDUCATION OUTCOMES

Graduates from all of the Fairmont State Master's Programs should have the ability to think logically and consistently; integrate and synthesize knowledge; access up-to-date knowledge and information within the discipline; communicate in a clear, consistent, and logical manner, both orally and in writing; understand the interrelationships between their discipline and others; be aware of and prepared to deal with ethical dilemmas within their profession; apply their knowledge of the discipline to real-life situations; increasingly, adapt to the dynamic requirements of their profession and their workplace.

Graduates of a Master's program at Fairmont State are expected to demonstrate:

- **Critical Analysis:** Adapting and applying new knowledge and skills in critical analysis of changing conditions in the field;
- **Scholarship and Research:** Critically analyzing and conducting research in the field;
- **Creative Productivity:** Engaging in creative, productive activity in the field;
- **Application of Standards:** Based Professional Knowledge: Apply advanced standards-based professional knowledge and skills in the context of the field;
- **Professional Communication:** Demonstrating effective and appropriate verbal, nonverbal, written, and media communication techniques in the profession.

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.

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, as amended; 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, Title IX Coordinator, located in Room 208 A Hardway Hall, (304) 367-4389, or the Americans with Disabilities Act Coordinator, located in the Turley Student Services Center, (304) 367-4686.

DISABILITY/ADA 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 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.

FAMILY RIGHTS 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 Assistant Vice President of Human Resources; student issues or concerns may be directed to the Vice President for Student Services.

COMPLIANCE WITH MILITARY

SELECTION SERVICE

State law provides that a male person who has attained the age of 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 <https://www.sss.gov>.

Admissions

GENERAL ADMISSION TO GRADUATE STUDIES

Admissions to Graduate Studies, which permits enrollment in classes, is not equivalent to admissions for a specific graduate degree program or certificate. Individuals interested in pursuing a graduate degree or certificate at Fairmont State University may apply for admissions at <https://www.fairmontstate.edu/apply>. All application material should be received by the Office of Admissions at least two weeks prior to the beginning of the semester in which the student wishes to register.

DEGREE OR CERTIFICATE SEEKING APPLICATION PROCEDURES

Individuals seeking admission to Fairmont State must have completed a baccalaureate degree from a regionally accredited institution or be in the final semester before degree completion. All degree-seeking applicants must:

1. Apply online at the Office of Admissions; or complete a graduate application form at the Office of Graduate Studies and send to the office of Admissions
2. Submit official transcripts of all undergraduate/graduate coursework to the Office of Admissions. Students are required to provide the official copy of all transcripts from all colleges and universities attended. Applicants cannot be admitted without an official transcript on file.
3. Include a \$50 non-refundable application fee good for 2 years.
4. Submit housing and financial aid request forms (if applicable)

Additional application materials for individual programs may include, but are not limited to:

- Scores on graduate aptitude tests, such as Graduate Record Examination (GRE), Miller Analogies Test (MAT), Graduate Management Admission Test (GMAT), or Principles of Learning and Teaching Exam (PLT).
- Writing sample
- Letters of recommendation

Once all materials have been received, the College/School will evaluate applicant credentials and make an admission decision regarding acceptance into the program. After reviewing student's credentials, the Graduate Director of the program may determine the student should fulfill certain requirements or prerequisites for the degree before beginning graduate degree program. These requirements will be specified by the College/School at the time of acceptance into the program. Applicants who do not meet the minimum admission criteria may be admitted provisionally.

The Office of Graduate Studies will notify the student of their admission status once a decision has been made. If admitted, a faculty advisor will be assigned and assist the student in creating a degree plan leading to the attainment of student's academic and professional goals. Students who are admitted must enroll in program coursework within 12 months or reapply for admission to the program.

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.

NON-DEGREE STUDENT APPLICATION PROCEDURES

An individual with at least a bachelor's degree from a regionally accredited institution who is not seeking a graduate degree may take

graduate level courses and enroll as a non-degree student.

Non-degree students must:

1. Submit an application for admission to the Office of Admissions;
2. Submit an official transcript showing the earned undergraduate/graduate coursework to the Office of Admissions; and,
3. Pay the \$50 dollar application fee.

A student wishing to change from non-degree status to a degree program must file a new application for admission and adhere to all requirements specified for degree-seeking students. International students with an F-1 student visa are not eligible to enroll as non-degree status.

Credits earned while in non-degree status are not applicable to a degree program. If a non-degree student is later accepted into a degree or certificate program, the faculty advisor will determine if credit earned while in non-degree status may be applied to the proposed degree/certificate program.

In accordance with federal regulations, non-degree students are not eligible to receive federal financial aid. There are exceptions to the non-degree requirements in regard to federal financial aid. A student can receive limited federal aid as a nondegree student based on the following criteria:

- Student is required to take courses considered preparatory coursework for admission into a Master's degree program;
- Student is required to take courses for teacher certification or recertification.

INTERNATIONAL STUDENT APPLICATION PROCEDURES

In addition to the general admission requirements, the following are required of all international students seeking admission to a graduate program:

1. Submit official English proficiency scores if your native language is not English:
 - TOEFL 550 (paper based) or 79 (internet based);
 - IELTS of 6.5
 - TOEIC 945
2. Provide evidence of a baccalaureate degree or higher from an accredited U.S. institution of higher education
3. Submit official college transcript(s) from all colleges attended
4. Submit official high school transcript
5. Submit official certified course-by-course English translation of high school transcripts (WES is accepted)
6. Provide proof of financial support (sponsor affidavit form)
7. Provide proof of immunization (measles, mumps, rubella)
8. Provide proof of health insurance
9. Provide a scanned color copy of passport

The admissions file must be complete six weeks prior to the start of the semester. Upon acceptance, information will be entered into SEVIS and an I-20 will be issued for application of F1 Visa.

For additional information and/or stipulations regarding International Student Admission, please contact the International Office at 304-367-4490.

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.

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

APPLICATION DEADLINES

Due to the competitiveness of Graduate programs at Fairmont State, applications are considered according to the following schedule. Please note schedules vary per program.

M.B.A, M.A.T, and M.Ed. Application Schedules

SUMMER TERM (MAY ADMISSION)

TIMELINE:

- Application package should be submitted by February 1st for full consideration and possible early admission
- May 1st - FINAL application deadline; applications received after this date will only be considered on a course space available basis

FALL TERM (AUGUST ADMISSION)

TIMELINE:

- Application package should be submitted by May 1st for full consideration and possible early admission
- August 1st - FINAL application deadline; applications received after this date will only be considered on a course space available basis

SPRING TERM (JANUARY

ADMISSION) TIMELINE:

- Application package should be submitted by October 1st for full consideration and possible early admission
- January 1st - FINAL application deadline; applications received after this date will only be considered on a course space available basis

M.S.C.J. Application Schedule

Summer Term (May Admission)

Timeline: April 15th

Fall Term (August Admission)

Timeline: July 15th

Spring Term (January Admission)

Timeline: November 15th

M.Arch. Program Schedule

Fall Term (August Admission)

Timeline: August 1st.

Application package should be submitted by May 1st for full consideration and possible early admission

ADMISSIONS CLASSIFICATIONS

Regular Admission

Regular Admission is granted when applicants are degree or certificate seeking students who meet all the criteria for regular admission to a program of their choice. The student must:

- hold a bachelor's or an advanced degree from an accredited institution;
- have an overall grade point average required by your specific program of study;
- have no deficiencies in the chosen area of study; and
- meet all admission criteria established by the intended degree program.

Provisional Admission

Students who do not meet requirements for full acceptance into a graduate program may be eligible for provisional acceptance with approval from the Graduate Program Director. Provisional admission may be granted to a student with a bachelor's or advanced degree from an accredited institution who has incomplete credentials, deficiencies to make up, or less than the required grade point average for regular admission. If the student has program deficiencies, graduate courses may be taken to fulfill deficiencies but will not apply to the degree. A student admitted provisionally may only register for nine semester hours of graduate work and must complete those nine semester hours with a GPA of at least 3.0. Provisional Admission is the decision of the particular degree program. All conditions must be removed before a student achieves Regular Admission status.

Non-Degree Admission

Students who would like to take graduate level courses but are not seeking and/or not eligible to pursue a graduate degree or certificate at Fairmont State may be admitted as a non-degree student. Nondegree students take graduate level courses for a number of reasons, including:

- to engage in professional development;
- to become acquainted with the rigors of graduate-level coursework before applying to a program;

- to gain graduate credit to be applied toward a degree program at Fairmont State or another college or university.

A non-degree graduate student must hold a bachelor's or advanced degree from an accredited college or university, with a cumulative grade point average of at least 2.75 on a 4.0 scale. Admission as a non-degree student does not guarantee or imply subsequent admission to a degree program. To be considered for admission into a degree program, the non-degree student must (a) submit a separate graduate application, and (b) meet all the criteria for regular admissions into the degree program. With approval of the Graduate Program Director, a maximum of 12-credit hours of graduate level coursework completed at Fairmont State may be applied toward a degree program. Students intending to apply to a degree program are encouraged to apply for admission before they complete 12-credit hours.

Non-Degree Graduate Continuing (GRCE) Courses:

GRCE courses are special topics courses which engage non-degree seeking graduate students with credit for professional development workshops, continuing education credits, or credit for engaging in a grant related experience. While these credits may be used for education re-certification or 'plus hours' toward a salary increase, these credits are not designed to be used toward a degree program.

Readmission

A returning graduate student who has not taken a graduate class at Fairmont State for two or more consecutive semesters (summers included), must submit a new application and application fee to the Office of Admissions at <https://www.fairmontstate.edu/apply> and be readmitted by the Graduate Program Director. The application must show any intervening graduate work. Official transcripts of such intervening graduate work may be required. The applicable standards are those in effect

when the student applied for readmission. Graduate course work more than seven years old may not be counted toward a graduate degree.

Concurrent Admission

A senior Fairmont State undergraduate student may be granted concurrent admission to enroll in up to twelve (12) credit hours of graduate courses with the approval of the undergraduate advisor, graduate program director, and director of graduate studies under the following conditions:

- the student has an overall undergraduate GPA of 3.0;
- the student must need no more than twenty-four (24) credit hours of undergraduate work to complete their baccalaureate degree; and
- the total number of courses per semester may not exceed 15 credit hours, including both undergraduate and graduate coursework.

Students must complete and submit a Concurrent Enrollment Application form found on the Graduate Studies webpage.

Graduate coursework may be used to complete undergraduate degree requirements. If graduate coursework is used to satisfy undergraduate degree requirements it may not also be used to satisfy graduate degree requirements.

Dual Master's Degree Admission

University policy permits students to obtain more than one master's degree. In these cases, a separate application is required for each program. Each application must be

accompanied by payment of a nonrefundable application fee.

A student desiring to obtain more than one master's degree must successfully complete enough additional credit hours to constitute 75% of the credit hours required by each additional master's degree program. An individual graduate degree program may require a higher percentage of credit to be earned under its direction.

A maximum of 15 credit hours may be used in common among the degrees with the approval of the department in which the degrees are sought. Approval must be obtained in writing. Upon graduation, the student must file two (2) degree applications.

Transient Student Admission

A student who is enrolled at another regionally accredited graduate institution may apply for admission to Fairmont State for enrollment in graduate courses. In addition to the admission application (non-degree option), the student must also submit a letter of good standing from the institution. This admission is valid for one semester only. The student must submit a new application and letter of good standing each semester he/she wishes to attend.

Normally, up to 12 credit hours of coursework may be transferred back to the home institution.

Permission to transfer credits is arranged, by the student, with the home university. Transient students who wish to register for coursework beyond 12 credit hours at Fairmont are required to obtain approval of Fairmont State's Director of Graduate Studies.

Expenses and Financial Aid

PAYMENT OF TUITION AND FEES

Registration is not completed until payment of tuition, residence hall rent, board, and fees have cleared. A late payment charge of \$50 will be assessed on the first day of the term; a \$10 charge will be assessed on each check returned for 'insufficient funds' unless the student can obtain an admission of error on the part of the bank. The Office of 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 Office of Enrollment Services for any student who has a delinquent financial obligation to the institution.

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 four equal payments. If payment is not received before the due date each month, a \$25 late fee will be added to the account. The registration process is not complete until all fees, and any penalties, have been paid in full. 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.

Payment in full is due prior to the first day of every term. 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: 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, select Enrollment Center, next select Tuition and Costs to locate this information.

Please note that bills are not sent via mail. Billing information, reminders and important notices are sent to each student's institutional e-mail address.

TUITION AND FEES

Graduate College Tuition & Fees per Semester

	On Campus WV Resident	On Campus Non-Resident	Virtual
9 hours	\$4506	\$9645	\$4172
8 hours	\$3896	\$8464	\$3712
7 hours	\$3409	\$7406	\$3248
6 hours	\$2922	\$6348	\$2784
5 hours	\$2435	\$5290	\$2320
4 hours	\$1948	\$4232	\$1856
3 hours	\$1461	\$3174	\$1392
2 hours	\$974	\$2116	\$928
1 hour	\$487	\$1058	\$464

On-Campus tuition and fees apply to any student taking 1 or more hours on main campus. On-Campus refers to the Fairmont State University main campus.

Virtual

Campus tuition and fees apply to any student taking all hours online. The E-Learning fee is attached to all online

classes regardless of campus. Virtual Campus refers to online classes.

Special Fees (Non-Refundable) - Applicable to All Students

Graduate Application Fee	\$50.00
<i>Graduation Fee</i>	<i>\$70.00</i>
School of Business Program Fee (per credit hour)	\$45.00
College of Science and Technology Fee (per credit hour)	\$45.00
College of Liberal Arts Program Fee (per credit hour)	\$45.00
School of Education, HHP Program Fee (per credit hour)	\$45.00
Graduate Architecture Program Fee (per credit hour)	\$45.00

Other Fees

Late Application for Graduation	\$50.00
Priority Transcript Fee	\$9.00
Late Payment Fee	\$50.00
Late Registration Fee	\$50.00
Reinstatement Fee	\$25.00
Pre-collection Letter Fee	\$5.00

Late Registration

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

REFUND POLICY OF TUITION AND FEES

A student who 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 Enrollment Services.

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 & second weeks 90%
 During third & fourth weeks 75%
 During fifth, sixth, seventh, & eighth weeks 50%
 Beginning with ninth week No refund

Summer Terms

The first three days of classes.....90%
 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

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 damage 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.

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, a full refund will be made without satisfactory schedules; the policy of the institution is to give priority to students who register on time.

Students paying on-campus tuition and fees are entitled to participate in all college activities and attend athletic events.

application to avoid living on campus after the application is considered active. Students must submit a contract release request and be approved for a release in order to live off-campus after applying. Releases are not guaranteed. For students residing on campus, contract release requests must be submitted by the deadlines listed above in order to receive a deposit refund if approved. Please contact the Housing and Residence Life Office if you have any questions concerning this information.

PLEASE NOTE: Graduate students interested in living on campus must contact the Office of Housing and Residence Life by phone at (304) 367-4216 or via email at reslife@fairmontstate.edu.

MOVE-IN COSTS

Deposit\$200.00

RESIDENCE HALL SEMESTER RATES 2018-2019:

*Morrow, Pence, Prichard Double
\$2,367.00
*Morrow and Pence Hall Double w/bathroom
.....\$2,519.00
*Morrow Quad w/Bathroom
\$2,519.00
*Pence Hall Single Academic Year
\$3,230.00
*Pence Hall Single Extended Academic
Year..... \$4,199.00

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

The housing contract is valid for the academic year. Student cannot cancel their housing

UNIVERSITY TERRACE SEMESTER RATES 2019-2020:

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

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

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

FOOD SERVICE SEMESTER RATES 2018-2019

All residents of Morrow, Pence, Prichard, University Terrace Semi-Suites, and Bryant Place are required to purchase a meal plan for use in the cafeteria and snack bar located in the Falcon Center.

Traditional Meal Plans:

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

Block Plans: New for 2018-2019 offers multiple swipes per meal

The Ultimate 210 Swipes \$2,340.00
(\$350.00 Flex)

Financial Aid

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

NEED-BASED AID

Fairmont State 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 recognizes and rewards 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 Offices of Admissions and Financial Aid and Scholarships 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 and Scholarships also manages the disbursement of scholarships for a wide range of externally funded programs received by Fairmont State students.

SOURCES OF FINANCIAL AID

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

DEFINITION OF AN ACADEMIC YEAR

For Direct Loan processing and other Title IV aid, the academic year at Fairmont State begins with the fall, continues with the spring, and concludes with the summer term.

PROCEDURES FOR OBTAINING FINANCIAL AID

1. Students must complete and submit an application for admission to the Office of Admissions (new students only).
2. For full consideration of aid based on need, students must complete and submit the Free Application for Federal Student Aid (FAFSA) to the federal processing center by March 1. The FAFSA can continue to be submitted through June 30 of the academic year and must be submitted annually.
3. For consideration of eligibility for academic scholarships, students must apply for admission to Fairmont State by December 15.
(Admissions/Recruitment and Academic Scholarships) and prior to February 3 for Financial Aid and

Foundation scholarships in addition to submitting a scholarship application by February 3.

4. Students interested in aid for summer must complete a separate application, which is made available in March.

SATISFACTORY ACADEMIC PROGRESS FOR FEDERAL FINANCIAL AID

To receive funds administered by the Office of Financial Aid and Scholarships 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 meeting academic progress in the first semester of enrollment.

Qualitative Progress - Evaluation based upon the cumulative "Grade Point Average (GPA)" as shown on your academic transcript. Graduate students must attain a minimum 3.00 GPA or higher at the end of the spring semester.

Quantitative Progress - Pace of Progression and Maximum Time Frame

- a. **Pace:** 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. Grades of "W", "F" and "I" count as attempted hours. Transfer hours that appear on your transcript are also included.
A student must be successfully completing 67% of all hours

attempted. The calculation will be rounded to the nearest whole Number.

- b. **Maximum Time Frame:** The maximum time allowed to complete your degree (including transfer hours) is 150% of the normal time frame. Repeated courses are counted against the maximum time frame.

Graduate program of 36 hours must be completed within 54 attempted hours.

A student who completes the academic requirements for a program but does not yet have the degree or certificate is not eligible for further additional federal student aid funds for that program.

Post-graduate work (credits taken after receiving first degree including a second associate's or second bachelor's degree and/or teacher certification) must be completed within 60 hours of post-graduate work. Since all classes attempted will count toward the 60-hour limit, students should meet with their academic advisors to determine what classes are required for completion of the second degree.

Financial aid eligibility is limited to no more than two master's degrees. Students who wish to pursue additional degrees beyond these may do so but without federal financial assistance.

Failure to Meet Standards of Satisfactory Academic Progress

Students who fail to meet the qualitative or quantitative standards defined above at the end of any enrollment period (including summer), will be placed on "warning" for the next semester. During this warning semester the student may continue to receive financial aid.

Students who are within 15 credit hours or less of the maximum time frame defined above will be placed on "warning" for the next semester. During this warning semester the student may continue to receive financial aid.

Failure to meet any of the above defined standards at the end of a "warning" semester will result in the loss of financial aid eligibility for future semesters.

Students will be notified by postal mail and e-mail of SAP status after grades are posted. As soon as the status is updated, it can be viewed on the student's FELiX account.

FINANCIAL AID APPEAL PROCESS

A student may appeal the loss of financial aid through the Office of Financial Aid and Scholarships.

To appeal, the student must have experienced extenuating circumstances beyond their control which impacted academic progress. Examples of extenuating circumstances are death of immediate family member, injury, illness, or other unusual circumstances presented to the Financial Aid and Scholarships Office.

The appeal must include the following:

1. Why the student failed to make Satisfactory Academic Progress;
2. What has now changed that will allow the student to make satisfactory academic progress at the end of the next semester (statements of good intent are not sufficient);
3. Student's academic plan that will allow the student to reach the minimum requirements for SAP. The academic plan must include the next semester's classes. Students must meet with academic advisor to discuss the academic plan;
4. Documentation to verify extenuating circumstances.

If the appeal is granted, the student will be placed on financial aid probation for one semester and may receive aid during that probation semester. At the end of the probation semester the student **MUST** meet the defined SAP standards or meet the

academic plan that was developed for the appeal.

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 Appeal form. 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 a Financial Aid Committee. If denied by the committee, the student may request that the appeal be reviewed by Director of Financial Aid and Scholarships.

If appeal is denied by the Director of Financial Aid and Scholarships for Fall or Spring, the student can request a review by the 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 appeals by the Financial Aid Director for the Summer Semester is final.

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 the tuition charges. Once the student meets the standards of financial aid satisfactory academic progress, the student may again receive consideration for financial aid.

TITLE IV FINANCIAL AID RETURN OF AID POLICY

If a student withdraws from school whether officially (he/she completes the withdrawal form or drop all classes on the web) or unofficially (student stops attending classes) and has been awarded and/or paid Title IV Federal Aid, 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.

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 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 and finals week).

Students 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 postwithdrawal disbursement. Their account will be reviewed and they will be offered a post-withdrawal disbursement if eligible and given 14 - 30 days to return the requested documentation. Students will only be eligible for the percentage of 'earned' aid at the time of withdrawal.

LOAN REPAYMENT (EDUCATION MAJORS ONLY)

Once recipients are actively teaching, they may also be eligible for one of these loan repayment programs:

- Underwood Smith Teacher Scholarship Loan Assistance Program
- Teacher Loan Forgiveness Program

To determine whether or not you meet federal or state qualifications, please check with the Office of Financial Aid and Scholarships.

GRADUATE ASSISTANTSHIPS

Graduate Assistantships provide students with training and valuable professional experience in a higher education work environment. Assistantship duties should contribute to the

students' intellectual growth and degree goals. The purpose of an assistantship is to (a) provide graduate students part-time employment offering practical experience in fields related to their advanced study, and (b) assist faculty in the direct instructional program. A "Graduate Assistant" is a graduate student who is appointed as a University employee to provide the student with an apprenticeship experience and with financial support for graduate education. Appointment as a Graduate Assistant does not confer any rights to permanent appointment to any person. The length of service of a Graduate Assistant does not alter the temporary nature of the appointment or confer additional rights upon such person. Appointments are generally made on a semester-by-semester basis. Fairmont State recognizes student employment as an assistantship only under the definitions, conditions and categories below. Student employment outside these parameters will not be deemed Assistantships. There are three categories of Graduate Assistantships:

TEACHING ASSISTANTSHIP (TA)

Teaching assistants (TA) assist faculty with instructional responsibilities or serve as the principle instructor in one or more courses. TAs are selected on the basis of past teaching experience or academic promise as effective instructors in their field of study. Duties may include assisting faculty with teaching-related tasks (e.g., leading discussion groups, lecturing, laboratory, preparing instructional materials, grading exams), responsibilities associated with a self-contained class, and/or advising students. Graduate Teaching Assistants who have the primary responsibility of teaching a course for credit and/or assigning final grades for such a course must have earned at least 18 graduate semester hours in the teaching discipline, be under the direct supervision of a faculty member experienced in the teaching discipline, receive regular in-service training, and be regularly evaluated. All first-time teaching assistants are required to attend the Graduate Assistant Professional

Development Workshop that is held prior to the beginning of each semester.

RESEARCH ASSISTANTSHIP (RA)

Research Assistants (RA) are selected for excellence in scholarship and promise as researchers. RAs work in research, administrative, academic and other university settings to assist faculty or other university personnel on research projects. They do part-time research as a portion of their training under the direct supervision of regular faculty members or work with administrative units to support the research initiatives of the institution. Duties vary by discipline and program, but may include data collection and entry, data analysis, proposal writing, policy research, attending conferences to present results, and training and supervising less experienced researchers.

SERVICE ASSISTANTSHIP (SA)

Service Assistants (SA) work with the administrative staff of a school, department, college, or office to assist in the operations of the university whose mission is closely related to the student's area of academic study or interest. SAs are available for academic and nonacademic units. Duties vary widely, but may include gathering, organizing, and analyzing information, implementing and evaluating programs, academic advising, academic tutoring, career counseling, preparing marketing materials, and organizing recruitment events. The main purpose of the assignment is to assist in the service role of the unit.

Graduate Assistantship Requirements

A Full Assistantship requires a maximum of 20 hours per week of service. Graduate assistants may not work more than a total of 20 hours per week on the average. Full-time Graduate Assistants may not be appointed concurrently in other Fairmont State classification. Less Than Full-Time Assistantships - Fairmont State recognizes half-time and three-quarter time graduate assistantships. Half-time assistantships are based on a workload of 10 hours per week and three-quarter time

assistantships are based on a workload of 15 hours per week.

Graduate Assistantship Application Procedures
Students who wish to be considered for an assistantship while completing their master's degree at Fairmont State need to complete an application. A Graduate Assistantship application can be found on the Graduate Studies Forms and Resources webpage. GA applications should be submitted by email to Susan Ross or sent to: Fairmont State, Office of Graduate Studies, 1201 Locust Avenue, Fairmont, WV, 26554. For additional questions please call (304) 367-4098. Students should follow the admission application schedule when submitting the Graduate Assistant (GA) application and accompanying forms. Students are not required to submit the admission application and GA application at the same time; however, for full consideration applications MUST be received by May 1. No student may hold a graduate fee waiver for a period of time that exceeds the number of semesters normally required in the recipient's academic discipline.

Graduate Assistantship Eligibility

Only students fully admitted to degree seeking status in a master's program at Fairmont State University are eligible to receive a Graduate Assistantship. Non-degree seeking students are not eligible for Graduate Assistantships or tuition waivers. Initial appointment to the position of GA requires:

- current enrollment in a minimum of nine (9) hours of graduate study in a specific degree program;
- communication skills appropriate to responsibilities of the graduate assistantship;
- evidence of subject matter competence; and
- other qualifications as necessary to perform assigned duties.

In addition to the qualifications listed above, reappointment to the position of a GA requires a pattern of significant academic progress toward the completion of degree requirements. At minimum, the GA must (a) earn a 3.0 grade point average or better during each semester of appointment, (b) complete nine (9) hours of graduate level coursework each semester (withdrawal from a course(s) after the fourth week does not constitute acceptable progress), and (c) meet the requirements for and achieve advancement to candidacy in a timely manner.

For more information about Graduate Assistantships at Fairmont State, visit the website.

Academic Information

GENERAL ACADEMIC REGULATIONS

Academic Regulations

The Graduate 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.

Reservation of Rights

Fairmont State reserves the right to modify any of its policies, regulations, or requirements as deemed necessary without notice. The University will attempt to comply with the requirements published in the catalog for the year a student initially registers, provided the student continues in attendance without interruption of more than a year. Students who interrupt their attendance by more than a year and later return must meet curricular requirements as determined by their dean.

Student Responsibility

It is the responsibility of the graduate student to become informed about all regulations and procedures required by the program and by the University. In no case will a regulation be waived or an exception granted because a student pleads ignorance of the regulation or asserts that information was not given by an advisor or other authority. The graduate program coordinator should be consulted concerning requirements, deficiencies, the planning of a program, and special regulations.

Any falsification of information on the application, transcripts, recommendations (where required), or test scores will be sufficient cause for disqualification for admission or dismissal if the individual has been admitted. All tuition and fees paid and graduate credit earned are forfeited under such dismissal.

Waiver of a Regulation

Graduate students have the right to file a petition for waiver or exemption from any academic regulation of graduate programs.

Petitions for waivers and exemptions are considered by the Graduate Program Director and the Graduate Council, which makes recommendations to the Director of Graduate Studies.

Academic Advising System

The Graduate Program Director of each program of study will assign an appropriate advisor to the student. The advisor will:

- direct the student in the formulation of the program,
- approve course selections and course changes,
- give guidance relative to examinations for the program, and
- ascertain that the candidate is meeting the requirements for the degree.

The assignment of an advisor does not relieve the student of the primary responsibility for adequate program planning and for progress toward completion. All degree-seeking students should work closely with their advisors to prepare a plan of study or Degree Plan.

Program Requirements

Specific requirements of the master's are described in this catalog. Though advising services are available to assist all students, the student is responsible for following the procedures and completing the steps required for the program. Requirements of graduate programs, both procedural and substantive, may be waived only by written request of the student and/or program director concerned and must have the written approval of the Dean of the appropriate college/school and Director of Graduate Studies.

Email Policy

Fairmont State provides an email address ending in "@students.fairmontstate.edu" to all students. It is university policy that a Fairmont State email address (your.address@students.fairmontstate.edu) be the official channel of email communication. Delivery to this address will be verified upon

initial setup and if there are any changes made to your email delivery choices.

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.

Academic Dishonesty

Academic and professional life requires a trust based upon integrity of the written and spoken word. Accordingly, violations of certain standards of ethical behavior will not be tolerated at Fairmont State University. 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, unauthorized assistance in assignments and tests, unauthorized copying of computer software, falsification of results and material submitted in reports or documents, and falsification of academic records 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.

Penalties for academic dishonesty may include (a) a zero grade for that assignment or test, (b) an "F" in the course, and/or (c) expulsion from the University. The dean of the college or school in which the student is enrolled is to be informed in writing of all such incidents of academic dishonesty. The instructor has full authority to assign the grade for the assignment, test, or course. If disputes of interpretation arise, the student, instructor, and dean should attempt to resolve the difficulty. If this is unsatisfactory, the Director of Graduate Studies will rule in the matter. As a final appeal, the appeals committee of the Faculty Senate will make a final determination.

Disciplinary Action

Graduate students neither lose the rights nor escape the responsibilities of citizenship through enrollment at Fairmont State. It is expected that Graduate students will conduct themselves professionally and honorably throughout their association with Fairmont State. It is the student's responsibility to be familiar with the Fairmont State Student Handbook, which details student rights, responsibilities, and expected conduct; rules and regulations of Fairmont State; and procedures for grievance, appeals, due process, and other policies and procedures not included in this document. In addition, students are expected to exemplify and adhere to the codes of conduct prescribed by the professional organization in their field of study. Students violating any University regulation will be subject to disciplinary action which may

result in dismissal from a graduate program at Fairmont State.

A	Exceptional
B	Good
C	Minimal**
D	Unsatisfactory. Student must repeat course
F	Failure. Student must repeat course
W	Official withdrawal
I	Incomplete

For the application of the Academic Dishonesty Policy see: Student Life Handbook

Grading and Academic Standing

Grading System

**** A graduate student may earn only two grades of C in all graduate courses to remain eligible to graduate.**

Quality Points

The quality point is the unit used to measure student achievement in a course. The number of quality points received for any course is equal to the number of points attached to the grade received multiplied by the number of quality hours yielded by the course. Quality points are computed as follows:

A = 4.00 quality points
per credit hour

B = 3.00 quality points
per credit hour

C = 2.00 quality points
per credit hour

D = 1.00 quality points
per credit

F = 0.00 quality points
per credit hour

Students' grade point averages (GPA) are computed by dividing the total number of quality points by the total number of quality hours in that semester.

Incomplete Work

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 withdraw from the institution, students must log into myCampus and go to the 'Withdraw from Institution' link under Student and Class scheduling. For more information regarding this policy please call Student Services at 304-367-4141 or the Office of Graduate Studies at 304-367-4098.

Academic Progress

Graduate students at Fairmont State must meet the following academic standards:

1. Maintain an overall grade point average (GPA) of 3.0 or higher in order to qualify for graduation.
2. Earn a grade of C or higher in all graduate courses, elective or required.
 - o All grades earned will remain on the official transcript and will be used in the calculation of the student's overall grade point average.
 - o A graduate student who earns a grade of D or F in any graduate course must repeat the course. Under extenuating circumstances, and with approval from his or her graduate program director and academic dean, a student may be permitted to substitute another course for the course in which the D or F was earned.

- A student may earn only two grades of C in all graduate courses, and remain eligible for graduation.
 - A student who earns more than two Cs must consult with his or her graduate program director and academic dean to determine an acceptable remedy.
3. Failure to maintain an overall 3.0 GPA will result in academic probation or suspension depending upon the student's academic performance and standing.

Academic Probation

Graduate students who do not maintain at least a 3.0 cumulative GPA (B average) on all courses in the program of study are on academic probation at the end of the semester during which their GPA falls below 3.0. For part-time students, "next enrollment period" may, if approved by the Graduate Program Director, be defined as the next 3-12 credit hours in the program of study.

Academic Suspension

A graduate student who has been placed on probation and who fails to raise his/her GPA cumulative to at least 3.0 during the next enrollment period will be placed on academic suspension. Suspended students must "sit out" one academic term prior to reenrolling. Suspended students will be limited to enrolling on a part-time basis until their GPA reaches a 3.0.

Academic Dismissal

Students who have not acquired a cumulative GPA of 3.0 after the completion of 24 credit hours in the Degree Plan will be dismissed. Graduate programs may require that their students meet additional standards with regard to probation, suspension and dismissal.

Graduation

Graduation Requirements

Fairmont State graduate programs requires a minimum of 30 graduate credit hours and a cumulative GPA of at least 3.0 on a 4.0 scale.

Application for Graduation

Students initiate the process of graduation by completing a Graduation Application. The online graduation application is available through the Registrar Office. It is recommended the student meet with their academic advisor or program director before registering for the final semester of work to ensure that all degree requirements will have been met by the end of that semester. Students should use the Degree Works evaluation available online to assist them with graduation check out.

The student must submit a Graduation Application form to the Office of the Registrar before the deadline published on the Registrar webpage. The graduation fee of 70 dollars will be added to the student's account, and a late fee of 50 dollars will be incurred for applications received after the deadline. If the requirements for the degree are not completed at the time specified on the application, the student must submit a new Graduation Application form. The graduation fee is a onetime, non-refundable charge, per each degree awarded.

Students must have satisfied all financial obligations to the University before the diploma or academic transcript can be released.

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 given transcripts.

Current and former students can submit a transcript request form to the Turley Student Services building on the 3rd floor using official Transcript Request form. Fairmont State

University does not produce unofficial transcripts. In general, processing of a transcript request is 2-3 business days but may be longer if your academic record is prior to 1983. There is currently no charge for an official transcript, however rushed requests will result in a \$9 service fee.

Course Policies

Concurrent Enrollment

A senior Fairmont State undergraduate student may be granted concurrent admission to enroll in up to twelve (12) credit hours of graduate courses with the approval of the undergraduate advisor, graduate program director, and director of graduate studies under the following conditions:

- The student has an overall undergraduate GPA of 3.0;
- The student must need no more than twenty-four (24) credit hours of undergraduate work to complete their baccalaureate degree; and
- The total number of courses per semester may not exceed 15 credit hours, including both undergraduate and graduate coursework

Course Repeat

A graduate student may repeat a graduate-level course one time in which a grade of C, D, or F has been earned, with highest grade counted in calculating the student's cumulative GPA. A graduate student may repeat up to a total of 3 courses for each graduate degree program. Course withdrawals are not counted as course repeats. The University is not obligated to offer courses so students can repeat them.

Course Numbering

Courses are numbered in the following way:

100 to 199 - undergraduate lower division courses, for undergraduate credit only.

200 to 499 - undergraduate upper division courses, for undergraduate credit only.

500 and above - graduate level courses for graduate credit only; open to graduate students only.

Prerequisites

When selecting courses, students must adhere to required prerequisites and special course restrictions established by the college/school and academic departments. Prerequisites must be passed with the minimum acceptable grade before subsequent courses may be taken.

Graduate Degree and Certificate Regulations

Academic Load

An appropriate course load is dependent upon the (a) scholastic ability of the student as reflected by his/her academic history, and (b) the time available for study. A full-time student is defined as one enrolled in at least 9 semester hours of graduate work during a Fall or Spring Semester. In the summer, full-time is 6 hours per term. Anything less than stated previously is considered part-time. Generally, graduate students should not register for more than 12 credit hours during a semester.

Certificate Admission Requirements

- Admissions application
- \$50 non-refundable application;
- Official transcripts showing an earned bachelor's degree or higher from a regionally accredited institution.

Certificate Completion Requirements

- A grade point average of 3.0 or higher;
- A grade of B or higher in all courses; up to 3 courses may be retaken 1 time each to achieve a better grade.

Certificate Definition

A graduate certificate constitutes a coherent body of knowledge consisting of a minimum of 12 and not more than 21 credits of graduate course work. Graduate certificates may be linked to an existing Fairmont State degree program or it may be unique and free standing. Credits earned as a non-degree student may be applied to a graduate

certificate. Non-degree students intending to apply to a certificate program are required to apply for admission before they complete 12-credit hours. Students must be admitted to the certificate program in order to be awarded a certificate.

Note: Credit hours may vary for professional licensure certifications

Certificate Transfer of Credits to a Degree Program

Up to 100% of coursework in a certificate program may apply toward a degree program if both programs are offered within the same academic department and the curriculum for the certificate is a subset of degree requirements.

Credit Hours for a Master's Degree

Candidates for a Master's Degree must complete a minimum of 30 semester hours of Fairmont State graduate courses within the Degree Plan. In any case, the last 18 semester hours of graduate credit must be earned at Fairmont State.

Course Repeat

A graduate student may repeat a graduate-level course one time in which a grade of C, D, or F has been earned, with highest grade counted in calculating the student's cumulative GPA. A graduate student may repeat up to a total of 3 courses for each graduate degree program. Course withdrawals are not counted as course repeats. The University is not obligated to offer courses so students can repeat them.

Course Revalidation

A course taken more than 7 years previously must be revalidated if it is to be used towards meeting degree requirements. The graduate program coordinator will determine if a course needs to be retaken, or if a revalidation examination/experience can be offered. If offered, a revalidation examination may include a comprehensive examination, a portfolio, or other academically appropriate experience. Revalidation can be accomplished

by submitting the following information for approval to the Graduate Program Director:

- A letter from the course instructor listing the criteria used to revalidate the course material.
- A copy of the student's performance on the student's revalidation examination.
- A letter from the college or school Graduate Program Director and/or Dean supporting the revalidation.

Degree Plan

Prior to the completion of 18 credit hours of graduate coursework, a Degree Plan must be submitted through the student's graduate Advisor and Graduate Program Director. The form can be obtained from the Office of Graduate Studies, the Program Director, or through myCampus. Failure to submit the Degree Plan in a timely manner may prevent the student from future course registration. It is at this time that any transfer credits are included on the Degree Plan. A Transfer of Credit form and official transcripts from the university from which the credits are to be transferred is required before the transfer credits can be added to the Fairmont State transcript.

Degree Completion Requirements

- Achievement of a 3.0 grade point average (on a 4.0 scale) in all courses taken in Graduate Studies.
- Completion of the degree program within a seven-year period. Courses in which the student was enrolled over six years prior to the time of completion of all degree requirements may not be accepted as part of a degree program. Exceptions to this time limit must be specifically petitioned to the Graduate Program Director with approval by the Director of Graduate Studies.
- Satisfactory completion of a written comprehensive examination in the major field (when required).

- Satisfactory completion of a final oral examination (when required).
- Completion and approval of the thesis or individual research project (when required). (See the Graduate Program Director for thesis guidelines).
- Satisfaction of the foreign language or research tool requirement (when required).

Dual or Additional Master's Degree

University policy permits students to obtain more than one master's degree. In these cases, a separate application is required for each program. Each application must be accompanied by payment of a nonrefundable application fee.

A student desiring to obtain more than one master's degree must successfully complete sufficient additional credit hours to constitute seventy-five percent (75%) of the credit hours required by each additional master's degree program. An individual academic unit may require a higher percentage of credit to be earned under its direction. A maximum of 15 credit hours may be used in common among the degree with the approval of the department in which the degrees are sought. Approval must be obtained in writing. Upon graduation, the student must file two (2) degree applications.

Time Limit for Degree Completion

All course work applied toward a degree must be completed within a period of **7 years**, including transfer courses. The period begins the semester the first course in the Degree Plan is taken and concludes with the semester the last course or requirement is completed. A course taken more than 7 years previously must be revalidated if it is to be used towards meeting degree requirements.

Transfer of Graduate Credit

With the approval of the Director of Graduate Studies and the Graduate Program Director, a student may transfer up to 12 semester hours of graduate work completed at another accredited institution and apply these toward a

graduate degree. Courses without letter grades (graded credit, satisfactory, pass) must be accompanied by official evidence that such grades equated to a B or better at the institution at which they were earned. A minimum grade of B and "pass/satisfactory" may be transferred. Students may use the Appeal Process to have additional courses transferred.

Non-degree Student Transfer of

Credit: If a non-degree student is later accepted into a degree or certificate program, 12 credit hours earned while in non-degree status may be applied to the proposed degree/certificate program with the approval of the Graduate Program Director.

Certificate Transfer of Credits to a Degree Program:

Up to 100% of coursework in a certificate program may apply toward a degree program if both programs are offered within the same academic department and the curriculum for the certificate is a subset of degree requirements.

Fairmont State University only reviews transferable credit from regionally accredited institutions and institutions with national accreditation that is recognized by the U.S. Department of Education for acceptance as credit in our academic programs. The most current listing of sanctioned accrediting bodies can be found at www.ed.gov.

Graduate Degree and Certificate Programs

Architecture, M.Arch.

Business Administration, M.B.A.

Criminal Justice, M.S.

Cybersecurity Management Certificate

Digital Media, New Literacies, and Learning, M.Ed.

Educational Leadership Certification (Licensure Program)

Engineering Management, M.S.

Exercise Science M.Ed.

Healthcare Management Certificate

Healthcare Management, M.S.

Human Resource Management Certificate

Multi-categorical Special Education with Autism (Licensed Candidates)

Multi-Categorical Special Education with Autism, M.Ed. (Non-licensed Candidates)

National Security and Intelligence, M.A.

Principalship Certificate (Licensure Program)

Professional Studies, M.Ed.

Project Management Certificate

Reading Specialist Certification (Licensure Program)

Reading Specialist, M.Ed.

Teaching, M.A.T.

Programs of Study

College of Education, Health and Human Performance

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Dean; Graduate Program Director
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SCHOOL OF EDUCATION, HEALTH AND HUMAN PERFORMANCE ADMISSION REQUIREMENTS

Applicants for graduate programs in the School of Education Health and Human Performance must meet the specific degree program criteria in addition to University admission policy criteria.

Note: Certified teachers who have a passing PLT score may be exempted from GRE/Millers requirements. Applicants already holding a master's degree are also exempted.

Provisional Admission

Applicants who are admitted on a provisional basis due to the absence of a test score or who provide a provisional test score at the point of application will matriculate with a restricted set of course options in the first 9 hours of study. Different M.Ed. concentrations and the M.A.T. may have different requirements for the first 9 credit hours depending on the program of study.

Continuation in a program of study for provisionally admitted students will be determined based on performance in the first 9 credit hours.

Provisionally admitted students must hold a minimum grade point average of 3.0 with no grade lower than "B" in any graduate course. Provisionally admitted students may not have a grade of "I" or "W" in the first 9 credit hours. Provisionally admitted students must provide the required test score before the completion

of the first term of matriculation (summer, spring or fall) after provisional admission is approved.

Certification Program Admission Requirements

Applicants for any certification program (M.Ed. or M.A.T.) must have a GPA of 2.75 or higher. This includes all transcripts from all previous degrees and matriculation. The provision for calculating the last 60 credit hours noted in General University Graduate Studies Admissions Requirements above do not apply to certification programs.

All applicants admitted to a graduate program leading to certification are required to complete all field and clinical components in a West Virginia public school.

MASTERS OF EDUCATION

Digital Media, New Literacies, and Learning, M.Ed.

Mission

The mission of the Digital Media, New Literacies and Learning program is to make education more powerful for all students by creating opportunities to engage in learning that is relevant to their lives and prepares them for success in school, the workplace, and their community. Participants in this program develop the skills, knowledge and dispositions needed to design technology-based media rich learning environments and become instructional leaders and agents of change in formal and informal educational settings.

Program Overview

The online Master of Education Degree in Digital Media, Literacy, and Learning (DMLL) is a 36-credit hour program designed for professionals seeking to enhance the education of others through digital media and information technologies. Professionals who would benefit from the M.Ed. DMLL program include classroom teachers, teacher leaders, higher education faculty, media specialists,

reading and writing specialists, special education professionals, school administrators, adult literacy, community educators, teacher professional development providers, instructional designers, education policy makers, and entrepreneurs interested in developing educational products or services.

Students in the program will **learn** to create and implement effective technology and media rich learning experiences through an understanding of learning theory, instructional design principles, technology, and application. Students will **explore** and create a range of digital media (educational software, curriculum materials, gaming, mobile computing, social networks, digital stories) and reflect on your applications to educational issues in different disciplines and core content areas. Students will gain the skills they need to teach the 21st Century literacies and skills to succeed in the digital age. Students will **become** a leader and mentor in the use of digital media and technology to promote 21st Century literacies and skills.

For more information, visit the program website.

Program Outcomes

Program graduates will be prepared to:

- Design technology-based media rich learning environments that support the learning of all students.
- Apply learning and curriculum theories to assess the effectiveness of technology and media rich learning environments in creating meaningful and motivating learning experiences for learners.
- Develop a broadened understanding of what it means to be literate that includes the reading and writing of multimodal texts as integral elements of social practices.
- Identify barriers and solutions to change for a professional teaching/learning community

attempting to adopt new technologies or practices.

- Use responsible practices that relate to creating and using digital media in learning environments such as with intellectual property law, confidentiality, privacy, and ethics.

Admission Requirements

- Submit admissions application to the Office of Admissions. Apply online at fairmontstate.edu/apply
- Pay \$50 application fee along with application
- Submit official college transcripts to the Office of Admissions
- Minimum 2.75 undergraduate GPA

Graduation Requirements:

Completion of coursework with a 3.0 GPA

PROGRAM OF STUDY

Required Courses

- EDUC 6301 - Research in Education
Credit Hours: 3
- EDUC 6305 - Advanced Educational Technology and Media
Credit Hours: 3
- EDUC 6395 - Capstone Research Project
Credit Hours: 3
- EDUC 6805 - Rights and Responsibilities in the New Media Age
Credit Hours: 3
- EDUC 6806 - Assessment in the New Media Age
Credit Hours: 3
- EDUC 6809 - Teaching in the New Media Age
Credit Hours: 3
- EDUC 6816 - Curriculum in the New Media Age
Credit Hours: 3
- EDUC 6817 - Tech Tools in Learning
Credit Hours: 3
- EDUC 6818 - Practicum
Credit Hours: 3

Elective Courses

- EDUC 6810 - Critical Media Literacy and Digital Storytelling Credit Hours: 3
- EDUC 6811 - Learning Communities in the Digital Age Credit Hours: 3
- EDUC 6812 - Technology, Leadership, and Change Credit Hours: 3
- EDUC 6813 - Blended and Online Learning Environments Credit Hours: 3
- EDUC 6814 - Game Design and Learning Credit Hours: 3
- EDUC 6815 - Programming for Learning Credit Hours: 3

Total: 36 Credit Hours

COURSE ROTATION BY TERM

Courses in the Digital Media, New Literacies and Learning program are offered in the following sequence; and always offered in these terms.

Summer

- EDUC 6301 - Research in Education Credit Hours: 3
- EDUC 6305 - Advanced Educational Technology and Media Credit Hours: 3
- EDUC 6395 - Capstone Research Project Credit Hours: 3
- EDUC 6809 - Teaching in the New Media Age Credit Hours: 3
- EDUC 6816 - Curriculum in the New Media Age Credit Hours: 3

Fall

- EDUC 6301 - Research in Education Credit Hours: 3
- EDUC 6305 - Advanced Educational Technology and Media Credit Hours: 3
- EDUC 6395 - Capstone Research Project Credit Hours: 3
- EDUC 6810 - Critical Media Literacy and Digital Storytelling Credit Hours: 3

- EDUC 6812 - Technology, Leadership, and Change Credit Hours: 3
- EDUC 6818 - Practicum Credit Hours: 3

Spring

- EDUC 6301 - Research in Education Credit Hours: 3
- EDUC 6305 - Advanced Educational Technology and Media Credit Hours: 3
- EDUC 6395 - Capstone Research Project Credit Hours: 3
- EDUC 6806 - Assessment in the New Media Age Credit Hours: 3
- EDUC 6817 - Tech Tools in Learning Credit Hours: 3
- EDUC 6818 - Practicum Credit Hours: 3

Spring - Rotating Every Other Year

- EDUC 6811 - Learning Communities in the Digital Age Credit Hours: 3
- EDUC 6813 - Blended and Online Learning Environments Credit Hours: 3
OR
- EDUC 6814 - Game Design and Learning Credit Hours: 3
- EDUC 6815 - Programming for Learning Credit Hours: 3

Special Note:

EDUC 6301 must be taken in a semester prior to EDUC 6818 and EDUC 6395.

Contact Information:

Valerie Morpew, Ed.D.

Digital Media, New Literacies and Learning Program Coordinator

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Email: Valerie.Morpew@fairmontstate.edu

Educational Leadership, M.Ed.

The M.Ed. in Educational Leadership degree program will provide a candidate the opportunity to obtain certification for a principal licensure, supervisor of instruction, (18-credit hours) and an additional superintendent endorsement (6-credit hours), along with two additional research courses (6-credit hours). The purpose of the Educational Leadership degree program is to increase the supply of effective and well-prepared school leaders in public schools in West Virginia. These school leaders will be ready to serve as instructional leaders in the state's diverse student population in meeting high standards for student achievement. The development of an M.Ed. in Educational Leadership at Fairmont State University will also meet the needs of candidates who currently hold a Master's Degree in the field of education. After completion of the courses, candidates will be eligible for West Virginia certification as Pre-K-12 Principals, Supervisors of Instruction and Superintendent. The certification program will be designed to give candidates the opportunity to practice all functions for effective school leadership. Fairmont State University believes this is a crucial step in preparing teacher leaders for administrative roles in our schools and counties.

For more information, visit the programs webpage.

Program Admission Requirements

- Submit admissions application to the Office of Admissions.
- Pay \$50 application fee along with application.
- Submit official college transcripts to the Office of Admissions.
- Minimum 2.75 undergraduate GPA.

Initial Administrative Certificate Endorsement Qualifications

The Fairmont State University M.Ed. in Educational Leadership will follow the mandates as set forth in West Virginia code: In accordance with W. Va. Code R. 126-136-10, to qualify for an Initial Administrative Certificate endorsed as principal, a candidate must:

- Hold a master's degree from an accredited institution of higher education with a minimum 3.0 GPA
- Complete state-approved educational leadership program and receive institutional recommendation
- Have completed three years of management level or teaching experience
- Complete the Educational Leadership Institute in evaluation skills or approved equivalent training

- Receive a passing score on the Praxis II: Educational Leadership assessment.

The program will implement innovative strategies to provide the candidate with real school experiences. This program will involve practitioners in the field to enhance the clinical experience for the candidate. Maintaining real life experience seminars and their relationship to the coursework will uniquely enhance the candidate's understanding of the course content.

Program of Study

Required Courses

- EDUC 5000 - Principal as a Leader Credit Hours: 3
- EDUC 5005 - Organizational Leadership Credit Hours: 3
- EDUC 5010 - Ethics and School Law Credit Hours: 3
- EDUC 5015 - Community Relationships Credit Hours: 3
- EDUC 5020 - Transformational Leadership Credit Hours: 3
- EDUC 5025 - Current School Issues Credit Hours: 3
- EDUC 5030 - Superintendent Role Regarding Board, Community and Curriculum Credit Hours: 3
- EDUC 5035 - Superintendent as Leader/Manager Credit Hours: 3
- EDUC 6301 - Research in Education Credit Hours: 3
- EDUC 6395 - Capstone Research Project Credit Hours: 3

Contact Information:

Barbara Owens

Educational Leadership Program
Coordinator

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Exercise Science M.Ed.

Program Overview

The interdisciplinary M.Ed. in Exercise Science program is designed to prepare professionals who have the knowledge, skills, and leadership to address chronic health problems (e.g., obesity, diabetes, heart disease) through education, exercise, and lifestyle change. Students in the program examine the scientific (anatomical, biomechanical, and physiological) and theoretical basis that underlie effective programs for improved fitness, performance, disease prevention, and improved quality of life outcomes.

In addition to preparing highly qualified professionals, the program also serves as a resource to the state and region by creating and expanding opportunities in the following ways:

- Meeting the increased demand for exercise scientists/wellness specialists;
- Providing an option for graduate study for undergraduate majors in Exercise Science as well as those seeking a practitioner-based graduate option from other area institutions in area; and,
- Expanding options and opportunities in clinical preparation in region for people already working in the Exercise Science, Fitness and Wellness fields.

Program Outcomes

Program graduates are well-prepared to

- Administer appropriate exercise tests and interpret results for both healthy and unhealthy populations;
- Design safe and effective exercise programs for healthy and unhealthy populations;
- Create exercise prescriptions and educational programming focused on health, disease prevention, and chronic disease management across ages and populations;
- Explain the physiological response and adaptations to acute and chronic exercise across the lifespan;
- Read, interpret and apply scientific research information within the field of fitness, wellness, and exercise science;
- Engage in research that advances the field of and improves practice in Exercise Science, Fitness and Wellness applications, and;
- Gain the knowledge and leadership skills necessary for further education in Health and Human Performance or senior level positions within the exercise science industry.

Admission Requirements

- Submit admissions application to the Office of Admissions. Apply online at <https://www.fairmontstate.edu/apply>
- Pay \$50 application fee
- Submit official college transcripts to the Office of Admissions
- Minimum 2.75 undergraduate GPA
- Complete undergraduate coursework in the following areas

with a grade C or higher: Anatomy & Physiology, Exercise Physiology, Biomechanics; Applicants can take graduate classes but must take these undergraduate courses prior to taking the graduate equivalents.

Provisional acceptance may be granted if the student meets some but not all the above admission requirements.

Provisionally admitted students must obtain a 3.0 GPA at the completion of their first year to attain unconditional status.

Graduation Requirements

Students can select an option to do an internship in a professional setting or a thesis must be completed to meet the graduation requirements of the M.Ed. in Exercise Science. These options are typically completed during the last semester of enrollment.

Program of Study:

M.Ed. Core Requirements (6 Credit Hours)

- EDUC 6301 - Research in Education Credit Hours: 3
- PHED 6395 - Capstone Research Project Credit Hours: 3

Required Courses (27 Credit Hours)

- PHED 6406 - Statistics in Exercise Science Credit Hours: 3
- PHED 6412 - Cardiovascular/Pulmonary Exercise Physiology I Credit Hours: 3
- PHED 6413 - Neuromuscular Exercise Physiology II Credit Hours: 3
- PHED 6405 - Lab Techniques of Health Promotion/Exercise Science Credit Hours: 3
- PHED 6480 - Seminar in Exercise Science Credit Hours: 3

- PHED 6417 - Impact of Exercise on Health & Disease Credit Hours: 3
- PHED 6418 - Wellness Programming Credit Hours: 3
- PHED 6416 - Advanced Strength & Conditioning Credit Hours: 3
- PHED 6490 - Internship in Exercise Science Credit Hours: 3
OR
- PHED 6499 - Thesis Credit Hours: 3

33 Total Credit Hours

Recommended Course Sequence

Fall First Year

- EDUC 6301 - Research in Education Credit Hours: 3
- PHED 6405 - Lab Techniques of Health Promotion/Exercise Science Credit Hours: 3
- PHED 6412 - Cardiovascular/Pulmonary Exercise Physiology I Credit Hours: 3

Spring First Year

- PHED 6406 - Statistics in Exercise Science Credit Hours: 3
- PHED 6413 - Neuromuscular Exercise Physiology II Credit Hours: 3
- PHED 6480 - Seminar in Exercise Science Credit Hours: 3

Fall Second Year

- EDUC 6395 - Capstone Research Project Credit Hours: 3
- PHED 6416 - Advanced Strength & Conditioning Credit Hours: 3
- PHED 6418 - Wellness Programming Credit Hours: 3

Spring Second Year

- PHED 6417 - Impact of Exercise on Health & Disease Credit Hours: 3
- PHED 6490 - Internship in Exercise Science Credit Hours: 3
OR
- PHED 6499 - Thesis Credit Hours: 3

Contact Information:

Dr. Julia M. dos Santos

Exercise Science, Fitness & Wellness
Program Coordinator

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Multi-categorical Special Education with Autism (Licensed Candidates)

Program Overview

The Multi-Categorical Special Education with Autism program at Fairmont State is a 30 credit hour, online program that prepares teachers to address the needs of learners with mild to moderate disabilities. This graduate track is designed to meet the needs of licensed teachers who are seeking to add a certification and obtain an M.Ed. in Multi- Categorical Special Education and Autism. Students who successfully complete program requirements and state requirements for certification will receive endorsements at both the K-6 and 5-Adult levels in Multi-Categorical Special Education and Autism.

For more information, visit the College of Education, Health and Human Performance website.

Program Outcomes

- Prepare candidates to meet the needs of students with mild to

moderate learning disabilities, intellectual disabilities, behavior disorder, and autism.

- Deliver a program that stresses the interactive nature between the learning and behavior problems that students experience.
- Make a significant impact on bringing area special education teachers to full-qualification.
- Prepare candidates to pass the necessary certification tests, and
- Provide mentoring and follow-up activities for graduates.

The general outcomes for Graduate Studies at Fairmont State, Special Education candidates are prepared to meet learning outcomes based upon the *National Council for Exceptional Children Professional Standards* and the *West Virginia Professional Teaching Standards*.

Program Delivery

The curriculum is 100% online through asynchronous delivery.

(K-6 & 5-ADULT)

*Note: The program requires 30 credit hours for licensed teachers.

Program of Study

Required Courses (24 Credit Hours)

- EDUC 6301 - Research in Education Credit Hours: 3
- SPED 6319 - Introduction to Learning Exceptionalities and Behavioral Disorders Credit Hours: 3
- SPED 6323 - Behavioral Support for Special Students Credit Hours: 3
- SPED 6324 - Instructional Techniques in Special Education Credit Hours: 3

- SPED 6324L - Instructional Techniques in Special Education Lab Credit Hours: 0
- SPED 6330 - Introduction to Autism Credit Hours: 3
- SPED 6331 - Methods and Strategies for Autism Credit Hours: 3
- SPED 6331L - Methods and Strategies for Autism Lab Credit Hours: 0
- READ 6308 - Survey of Literacy Instruction and Assessment for Individuals with Exceptionalities Credit Hours: 3
- OR
- READ 6315 - Teaching Content Area Literacy Credit Hours: 3
- READ 6310 - Teaching Reading to Special and At-Risk Learners Credit Hours: 3
- READ 6310L - Teaching Reading to Special and At-Risk Learners Lab Credit Hours: 0

Elective Courses (6 Credit Hours)

- READ 6325 - Technology and Instruction Designed to Support Struggling Readers Credit Hours: 3
- EDUC 6350 - Introduction to Trauma-Informed Care and Resiliency Credit Hours: 3
- EDUC 6351 - Trauma-Informed and Resilience-Focused Interventions Credit Hours: 3
- SPED 6318 - Schoolwide Positive Behavior Interventions and Supports Credit Hours: 3
- READ 6308 - Survey of Literacy Instruction and Assessment for Individuals with Exceptionalities Credit Hours: 3
- READ 6315 - Teaching Content Area Literacy Credit Hours: 3
- SPED 5323 - Math Strategies for Special Learners Credit Hours: 3

Degree Total = 30

Multi-Categorical Special Education with Autism, M.Ed. (Non-licensed Candidates)

Program Overview

The M.Ed. in Multi-Categorical Special Education with Autism is a 39-credit hour, online program that prepares teachers to address the needs of learners with mild to moderate disabilities. This graduate track is designed to meet the needs of candidates who do not hold a valid teaching license at the time of admission and are seeking a M.Ed. and certification in Multi-Categorical Special Education with Autism. Students who successfully complete program requirements and state requirements for certification will receive endorsements at both the K-6 and 5-Adult levels in Multi-Categorical Special Education and Autism.

For more information, visit the program website.

Program Outcomes

- To prepare candidates to meet the needs of students with mild to moderate learning disabilities, intellectual disabilities, behavior disorder, and autism,
- To deliver a program that stresses the interactive nature between the learning and behavior problems that students experience,
- To make a significant impact on bringing area special education teachers to full-qualification,
- To deliver the curriculum through a fully on-line program,

- To provide pragmatic clinical experiences that stress positive impact on learning and behavior problems,
- To prepare candidates to pass the necessary certification tests, and
- To provide mentoring and follow-up activities for graduates.

The general outcomes for Graduate Studies at Fairmont State, Special Education candidates are prepared to meet learning outcomes based upon the *National Council for Exceptional Children Professional Standards* and the *West Virginia Professional Teaching Standards*.

Program Delivery

The curriculum is 100% online through asynchronous delivery. READ 6310 , SPED 6324 , SPED 6330 , and SPED 6390 include clinical hours. These hours can be completed in the students' local schools. Students register for lab sections of these courses for communication with the clinical office for placement and clinical evaluations.

(K-6 & 5-ADULT)

Non-licensed Candidates (39 Credit Hours)

Program of Study

*Note: SPED 6317 is only required for candidates with no prior teaching certification.

- EDUC 6301 - Research in Education Credit Hours: 3
- READ 6308 - Survey of Literacy Instruction and Assessment for Individuals with Exceptionalities Credit Hours: 3

- READ 6310 - Teaching Reading to Special and At-Risk Learners Credit Hours: 3
- READ 6310L - Teaching Reading to Special and At-Risk Learners Lab Credit Hours: 0
- READ 6315 - Teaching Content Area Literacy Credit Hours: 3
- READ 6325 - Technology and Instruction Designed to Support Struggling Readers Credit Hours: 3
- SPED 5323 - Math Strategies for Special Learners Credit Hours: 3
- SPED 6317 - Instructional Design I for Special Educators Credit Hours: 3 *
- SPED 6319 - Introduction to Learning Exceptionalities and Behavioral Disorders Credit Hours: 3
- SPED 6323 - Behavioral Support for Special Students Credit Hours: 3
- SPED 6324 - Instructional Techniques in Special Education Credit Hours: 3
- SPED 6324L - Instructional Techniques in Special Education Lab Credit Hours: 0
- SPED 6330 - Introduction to Autism Credit Hours: 3
- SPED 6331 - Methods and Strategies for Autism Credit Hours: 3
- SPED 6390 - Special Education Practicum Credit Hours: 3
- SPED 6390L - Special Education Practicum Lab Credit Hours: 0

Degree Total = 39 Credit Hours

Course Sequence

Full-time = 9 credit hours per semester

Semester 1

- READ 6308 - Survey of Literacy Instruction and Assessment for Individuals with Exceptionalities Credit Hours: 3
- SPED 6317 - Instructional Design I for Special Educators Credit Hours: 3
- SPED 6319 - Introduction to Learning Exceptionalities and Behavioral Disorders Credit Hours: 3

Semester 2

- READ 6310 - Teaching Reading to Special and At-Risk Learners Credit Hours: 3
- READ 6310L - Teaching Reading to Special and At-Risk Learners Lab Credit Hours: 0
- READ 6315 - Teaching Content Area Literacy Credit Hours: 3
- SPED 5323 - Math Strategies for Special Learners Credit Hours: 3

Semester 3

(*summer offerings)

- EDUC 6301 - Research in Education Credit Hours: 3
- SPED 6330 - Introduction to Autism Credit Hours: 3

Semester 4

- READ 6325 - Technology and Instruction Designed to Support Struggling Readers Credit Hours: 3
- SPED 6323 - Behavioral Support for Special Students Credit Hours: 3
- SPED 6324 - Instructional Techniques in Special Education Credit Hours: 3
- SPED 6324L - Instructional Techniques in Special Education Lab Credit Hours: 0

Semester 5

- SPED 6331 - Methods and Strategies for Autism Credit Hours: 3
- SPED 6390 - Special Education Practicum Credit Hours: 3
- SPED 6390L - Special Education Practicum Lab Credit Hours: 0

Contact Information:

Dr. Julie Reneau, Ed.D.
Special Education Program Coordinator

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Email: jreneau@fairmontstate.edu

Professional Studies, M.Ed.

Mission

The mission of the M.Ed. in Professional Studies is to prepare students as reflective and responsive professionals who develop the knowledge, skills and dispositions critical to understanding and contributing to their respective individual concentration areas of study.

Program Overview

The online M.Ed. in Professional Studies is a 30- credit hour graduate program designed to prepare graduates with the practical knowledge and intellectual capabilities to be meet emerging needs of diverse professional work environments. The online delivery format students the flexibility to earn an advanced degree while remaining at a distant location.

A Professional Studies degree provides students with the opportunity to design their personal path to learning. Expert faculty advisors assist students in building a curriculum based on their academic interests and career or professional goals. The degree allows students to customize their learning across multiple disciplines allowing them to meet the demands of emerging fields and changing educational landscapes and industries. When designing a learning pathway, students can choose online courses from the following areas of study:

- Literacy
- Special Education

- Digital Media and Learning

Student who would like to take classes on campus or in a hybrid format (part online and part on-campus), can choose from the following areas:

- Business Administration - Project Management
- Business Administration - Human Resources Management
- Fitness and Wellness

Program Outcomes

1. **Reflective Practice:**
Students/candidates will engage in reflective practice and by doing so will demonstrate their commitment to continuous self-improvement related to their profession.
2. **Technology Integration:**
Students/candidates will model and apply technology standards (ISTE, NETS) as they design, implement and assess experiences in the workplace.
3. **Culturally Responsive Practice:**
Students/candidates will research, discuss, and engage in culturally responsive practices.
4. **Communication:**
Students/candidates will use effective and appropriate

verbal, nonverbal, written, and media communication techniques in their profession.

5. **Educational Research:** Students/candidates will demonstrate competence in educational research by explaining and applying the knowledge, skills, and techniques of research (a research project) - and by engaging in the reflective cycle of planning, implementing, assessing, disseminating, and making informed decisions based on data as applicable.

Admission Criteria

This degree requires a bachelor's degree that can be either a teaching or a non-teaching field.

- Submit admissions application to the Office of Admissions. Apply online at <https://www.fairmontstate.edu/apply>
- Pay \$50 application fee
- Submit official college transcripts to the Office of Admissions
- Minimum 2.75 undergraduate GPA

Graduation Requirements:

Completion of nine (9) credit hours of graduate courses (3 core courses) and a 21-credit hour professional plan of study based on students' academic interests and

professional goals. Maintain a 3.0 or better GPA.

Program of Study

- EDUC 6301 - Research in Education Credit Hours: 3
- EDUC 6305 - Advanced Educational Technology and Media Credit Hours: 3
- EDUC 6395 - Capstone Research Project Credit Hours: 3
- Remaining hours to be determined through consultation with the candidates advisor (21)

Customized Degree Plan

In consultation with a faculty advisor, students will design an individualized plan of study for the remaining 21-credit hours. Students may create a plan predominantly from one academic field (e.g., Special Education), or a combination of courses across disciplines (e.g., Literacy, Digital Media, Special Education).

Below are examples of courses available in these different areas and students can design different pathways or combinations of courses to suit their interest or needs.

Education Pathway:

- EDUC 6300 - Foundations of American Education Credit Hours: 3
- EDUC 6302 - Advanced Studies in Human Development Credit Hours: 3
- EDUC 6303 - Advanced Studies in Educational Psych Credit Hours: 3
- EDUC 6304 - Diversity and Disability Credit Hours: 3
- EDUC 6810 - Critical Media Literacy and Digital Storytelling Credit Hours: 3

Literacy Pathway:

- READ 6300 - Foundations in Reading and Writing Credit Hours: 3
- READ 6315 - Teaching Content Area Literacy Credit Hours: 3
- READ 6308 - Survey of Literacy Instruction and Assessment for Individuals with Exceptionalities Credit Hours: 3
- READ 6310 - Teaching Reading to Special and At-Risk Learners Credit Hours: 3
- READ 6320 - Psychological, Sociological, and Linguistic Factors in Reading and Writing Ability Credit Hours: 3
- READ 6360 - Literature and Response Credit Hours: 3

Students with Exceptionalities Pathway:

- SPED 5323 - Math Strategies for Special Learners Credit Hours: 3
- EDUC 6304 - Diversity and Disability Credit Hours: 3
- SPED 6318 - Schoolwide Positive Behavior Interventions and Supports Credit Hours: 3
- SPED 6319 - Introduction to Learning Exceptionalities and Behavioral Disorders Credit Hours: 3
- SPED 6330 - Introduction to Autism Credit Hours: 3

Digital Media Pathway:

- EDUC 6805 - Rights and Responsibilities in the New Media Age Credit Hours: 3
- EDUC 6806 - Assessment in the New Media Age Credit Hours: 3
- EDUC 6809 - Teaching in the New Media Age Credit Hours: 3
- EDUC 6812 - Technology, Leadership, and Change Credit Hours: 3
- EDUC 6816 - Curriculum in the New Media Age Credit Hours: 3

Contact Information:

Valerie Morpew, Ed.D.
Digital Media, New Literacies and Learning

Program Coordinator
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Reading Specialist, M.Ed.

The Reading Specialist graduate program provides opportunities for currently licensed teachers to earn a Reading Specialist Certificate or a Master of Education (M.Ed.) degree in an online format. Currently licensed teachers who already hold a master's may obtain the certification necessary for a Reading Specialist (Certificate-only), while those who do not hold a master's may obtain both the certificate and the Master of Education (M.Ed.) degree. Both options provide program graduates with opportunities for career and salary advancement.

The Reading Specialist program prepares candidates to serve as Pre-K through Adult Reading Specialists who offer literacy leadership and work with other educators to evaluate students' reading abilities, plan assessments, and provide appropriate reading and writing instruction and support for struggling readers. Program graduates have the knowledge, skills, and dispositions to serve their schools and communities as resource persons and plan collaboratively and cooperatively with other professionals to offer programs for diverse populations of learners. Graduates of the Reading Specialist program are also prepared to provide leadership as they advocate for children and families and provide professional development opportunities at local and state levels.

Program Outcomes

- Candidates understand major theories and empirical research that describe the cognitive, linguistic, motivational, and sociocultural foundations of reading and writing development, processes, and components, including word recognition, language comprehension, strategic knowledge, and reading-writing connections.
- Candidates use instructional approaches, materials, and an integrated, comprehensive, balanced curriculum to support student learning in reading and writing.
- Candidates use a variety of assessment tools and practices to plan and evaluate effective reading and writing instruction.
- Candidates create and engage their students in literacy practices that develop awareness, understanding, respect, and a valuing of differences in our society.
- Candidates create a literate environment that fosters reading and writing by integrating foundational knowledge, instructional practices, approaches and

methods, curriculum materials, and the appropriate use of assessments.

- Candidates participate in, design, facilitate, lead, and evaluate effective and differentiated professional development programs.

Admission Criteria

- An undergraduate degree in education with certification as a classroom teacher
- A 3.0 overall GPA
- Submission of a passing score on the GRE or MAT, or the candidate can submit the PLT score in lieu of the GRE/MAT score.

Graduation Requirements

Completion of all required courses (**30 credit hours**) and maintaining a 3.0 or better GPA.

Program Delivery

All coursework is delivered **online** and asynchronously, enabling candidates to complete coursework wherever they have access to the Internet, and at times that are most convenient for them. Some courses are coupled with clinical experiences either in the candidates' own schools or in an arranged placement in a school.

Program of Study

Required Courses (24 Credit Hours)

- EDUC 6301 - Research in Education Credit Hours: 3
- EDUC 6305 - Advanced Educational Technology and Media Credit Hours: 3
- READ 6300 - Foundations in Reading and Writing Credit Hours: 3
- READ 6310 - Teaching Reading to Special and At-Risk Learners Credit Hours: 3
- READ 6310L - Teaching Reading to Special and At-Risk Learners Lab Credit Hours: 0
- READ 6315 - Teaching Content Area Literacy Credit Hours: 3
- READ 6320 - Psychological, Sociological, and Linguistic Factors in Reading and Writing Ability Credit Hours: 3
- READ 6360 - Literature and Response Credit Hours: 3
- READ 6370 - Administration and Supervision of Reading/Writing Programs Credit Hours: 3

Clinical Component (6 Credit Hours)

(All 3 courses listed below are taken concurrently)

- READ 6330 - Diagnosis and Correction of Reading and Writing Difficulties Practicum I Credit Hours: 3
- READ 6330L - Diagnosis and Correction of Reading and Writing Difficulties Practicum I Lab Credit Hours: 0
- READ 6340 - Literacy Coaching and Professional Development Practicum II Credit Hours: 3

30 Total Credit Hours

Recommended Course Sequence

* READ 6320 is a pre-requisite for READ 6360, but both courses can be taken as co-requisites.

**READ 6330, READ 6330L, and READ 6340 must be taken concurrently.

Fall First Year

- EDUC 6305 - Advanced Educational Technology and Media Credit Hours: 3
- READ 6300 - Foundations in Reading and Writing Credit Hours: 3
- READ 6315 - Teaching Content Area Literacy Credit Hours: 3

Spring First Year

- EDUC 6301 - Research in Education Credit Hours: 3
- READ 6310 - Teaching Reading to Special and At-Risk Learners Credit Hours: 3 (Clinical Hours Required)
- READ 6320 - Psychological, Sociological, and Linguistic Factors in Reading and Writing Ability Credit Hours: 3 *

Fall Second Year

- READ 6360 - Literature and Response Credit Hours: 3 *
- READ 6370 - Administration and Supervision of Reading/Writing Programs Credit Hours: 3

Spring Second Year

- READ 6330 - Diagnosis and Correction of Reading and Writing Difficulties Practicum I Credit Hours: 3 **
- READ 6330L - Diagnosis and Correction of Reading and Writing Difficulties Practicum I Lab Credit Hours: 0 **
- READ 6340 - Literacy Coaching and Professional Development Practicum II Credit Hours: 3 **

Contact Information:

Dr. Pamela Pittman
Reading Program Coordinator

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Email: ppittman@fairmontstate.edu

Master of Arts in Teaching

Teaching, M.A.T.

Program Overview

The **38 credit hour online** Master of Arts in Teaching (M.A.T.) degree program is an alternative and accelerated means for college graduates with degrees in liberal arts, fine arts, and professional fields to attain teacher licensure. The program provides the professional education courses and clinical experiences - including student teaching - necessary to prepare candidates for teaching in a specific content area in grades PreK-Adult, 5-Adult, or 9- Adult (see Specializations for a list of all certification options). The M.A.T. program does not currently offer licensure in Elementary Education or Special Education; however, an endorsement in Special Education may be added after the initial license in a content area is earned.

Note: Pre-requisite content specialization coursework is typically delivered on-campus in a face-to-face setting.

M.A.T. Specializations

The following specializations are offered for MAT candidates:

Art, Pre K - Adult
Biology, 9 - Adult
Chemistry, 9 - Adult
Earth & Space Science 5 - Adult
English, 5 - Adult
General Science, 5 - Adult
School Health Education, 5 - Adult
Mathematics, 5 - Adult
Physical Education, Pre K - Adult

Physics, 9 - Adult
School Health Education, 5-Adult
Social Studies, 5 - Adult Spanish, Pre K - Adult

The MAT program does not currently offer licensure in Special Education; however, an endorsement for certification in Special Education may be added after the initial license in a content area is earned.

Pre-Admission Requirements

Candidates applying to the MAT program must complete the following:

- **Transcript Analysis:** Request a transcript analysis from Joyce.Rose@fairmontstate.edu or (304) 367-4242 in the *Office of Certification* to evaluate courses from the undergraduate degree against the requirements for licensure in the secondary content specialization areas offered through Fairmont State.
- **Content Coursework:** Satisfactorily complete 75% of the coursework in the candidate's teaching field. Non-degree students may take content courses and then apply to the M.A.T. program upon completion of the pre-requisites.

Admission Requirements

- Submit admissions application to the Office of Admissions. Online application can be found at [here](#).
- Pay \$50 application fee along with application

- Submit official college transcripts to the Office of Admissions
- Minimum 2.75 undergraduate GPA
- Report a Praxis II Content Test passing score.

Once admitted to the M.A.T program, candidates must complete all remaining required content specialization courses prior to being recommended for licensure by the West Virginia Department of Education (WVDE). In addition to content specialization coursework, M.A.T candidates also complete 38 credit hours of required graduate program core and professional Education coursework, and clinical experiences.

Candidates applying for licensure to teach must also satisfy Fairmont State's GPA requirement and the testing requirements established by the West Virginia Department of Education (WVDE). Currently, candidates must have a minimum GPA of 2.75 in the content specialization area in addition to an overall GPA of 2.75. The testing requirements are the PRAXIS II content test(s) and the Principles of Learning and Teaching Exam (PLT) required by the WVDE.

Clinical Placement, Supervision and Evaluation Graduate Professional Education Program Candidates

The following information explains the process for the selection of field and clinical placements for candidates in graduate Teacher Education certification programs. Please review the document for information that pertains to your particular personal, professional, and program

situation. If you have questions about field and clinical placements beyond the information provided here, please feel free to call 304-367-4886 or email Barbara Owens at Barbara.Owens@fairmontstate.edu for more information.

NOTE: All certification candidates, regardless of certification being sought, must complete all field and clinical requirements in appropriate classroom settings given the certification program in which they are enrolled.

Candidates who change teaching positions, or move into a first-time position must still meet these requirements to complete the additional certification. Candidates who move into a position or change positions (and no longer require the certification being sought) may choose to transfer to the M.Ed. Professional Studies option to complete their master's degree. Of special note:

- Any 5-Adult or Pre K -Adult programs of study must include clinical placements - including student teaching -- in the appropriate grade, content and specialization placements as required by WV Board of Education policy.
- Multi-categorical Special Education certification requires field/clinical experiences - including student teaching in a Multi-categorical Special Education classroom.
- 5-Adult Certifications require 2 student-teaching placements: Middle School and High School. Exceptions include:

- Candidates who are previously certified K-6 and completed a field or clinical experience at the middle school grade level (5th through 8th grade), do not have to student teach for the new certification in these grades;
- Candidates who are previously certified 5-Adult will only need one of middle school or high school student teaching for the new certification;
- Candidates who are previously certified 9-Adult must student teach in a middle school for the new certification.
- K-Adult Certifications require 2 of 3 student teaching placements: Elementary School and Middle School or High School.
- Only candidates already certified Elementary K-6 are eligible to add a new certification in K-Adult.
- Candidates who are previously certified K-6 may student teach for the new certification in either a middle school or high school placement.
- Length of the Student-Teaching experience:
 - Student-teaching is a 16-week experience.

Fairmont State is committed to the concept of "Professional Development Schools" (PDS) as a foundation for excellence in teacher Education, professional development, and outreach

to our local communities. PDSs are a network of 36 schools that partner with Fairmont State in the following five counties, including: Harrison; Preston; Marion; Taylor; and Monongalia.

Note to Candidates who work full or part-time outside Education, or as substitute teachers

- You must complete all field and clinical components in a way that fully meets all academic and certification requirements.
- This may require you to request leave time from your current employment or vacate your current employment to complete program requirements.
- You must student teach for the full expectations (number of weeks; full days, supervised by a teacher certified in the area being sought).
- Substitute teaching does not fulfill requirements for academic or certification expectations.
- Work experience in Education prior to admission to the program of study cannot be used to fulfill program requirements.

All certification candidates, regardless of certification being sought, must complete all field and clinical requirements in appropriate classroom settings given the certification program in which they are enrolled. Candidates are placed in one of the 36 Professional Development Schools in the five counties that partner with Fairmont State to deliver teacher

Education through the Fairmont State PDS Partnership.

Program of Study

Required Courses (38 Credit Hours)

* EDUC 6494 and EDUC 6495 must be taken concurrently during student teaching semester.

- EDUC 6300 - Foundations of American Education Credit Hours: 3
- EDUC 6301 - Research in Education Credit Hours: 3
- EDUC 6302 - Advanced Studies in Human Development Credit Hours: 3
- EDUC 6303 - Advanced Studies in Educational Psych Credit Hours: 3
- EDUC 6304 - Diversity and Disability Credit Hours: 3
- EDUC 6305 - Advanced Educational Technology and Media Credit Hours: 3
- EDUC 6306 - Instructional Design I and Education Evaluation Credit Hours: 3
- EDUC 6195 - Field Experience II Credit Hours: 1 (Must be taken with EDUC 6306)
- EDUC 6307 - Instructional Design II - Methods Credit Hours: 3
- EDUC 6295 - Field Experience II Credit Hours: 1 (Must be taken with EDUC 6307)
- READ 6315 - Teaching Content Area Literacy Credit Hours: 3
- EDUC 6494 - Action Research and Portfolio (on-line) Development Credit Hours: 2
- EDUC 6495 - Clinical - Student Teaching Credit Hours: 4
- Electives (3)
- SPED 6318 - Schoolwide Positive Behavior Interventions and Supports Credit Hours: 3
OR
- SPED 6319 - Introduction to Learning Exceptionalities and Behavioral Disorders Credit Hours: 3
OR

- SPED 6330 - Introduction to Autism Credit Hours: 3

Contact Information:

Keisha Kibler

Assistant Professor; M.A.T. Program
Coordinator

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Graduate Certificate

Educational Leadership Certification (Licensure Program)

Certification Overview

The Educational Leadership Certification program is an online standards-based leadership preparation program designed to be completed in one year. The graduate-level program prepares candidates with the knowledge and expertise to become transformative educational administrators and leaders capable of meeting the challenges and opportunities of education today and in the future.

The 18-credit hour Educational Leadership program will prepare teachers to meet the West Virginia (WV) requirements for a PreK-Adult Principal licensure; whereas the 21-credit hour program is designed to meet the WV requirements for a Superintendent licensure.

Program Outcomes

1. Examine the differences between a site-based manager, and an instructional

- leader and how those management-style roles relate to distributive leadership.
2. Analyze and describe the use of technology as it relates to instruction, social media, and communication with parents, students, staff and the community at large.
 3. Apply the skills necessary to understand state and local funding and how those skills relate to the successful operation of a school system.
 4. Analyze the hiring process, the teacher evaluation instrument and the grievance procedure and how to these processes relate to maintaining a highly quality staff.
 5. Create and participate in mock situational roles involving the principal during hearings before the local Board of Education, and with students and parents.
 6. Analyze the role of the principal in a critical conversation and resolution involving a staff member(s).
 7. Examine the role of the principal regarding curriculum development and distinguish how this may impact the school culture and high expectations.
 8. Examine laws, policies, and ethical challenges that have an impact on the educational setting. Upon reviewing the origins of the laws, policies and ethical standards, identify how the principal must have a working knowledge of those items to effectively manage a school and staff.
 9. Examine the role of the superintendent in identifying community support, school board relations, and conflict resolution.
 10. Demonstrate an understanding of skills as related to fiscal management to establish a yearly budget, management of federal funds and the passage of a school bond/levy.
 11. Design innovative ideas to enhance communication between all stakeholders of the school community. Identify methods of communication that are innovative and immediate when responding to a crisis.

Program Delivery

The Educational Leadership program is **100% online** and courses are offered on **8-week calendar** during the fall, spring, and summer semesters. Students may enroll on a part-time or full-time basis.

Admission Criteria

- Submit admissions application to the Office of Admissions
- Pay \$25 application fee
- Submit official college transcripts to the Office of Admissions.
- Master's degree from an accredited institution with a 3.0 GPA
- Valid teaching license

Program of Study

Principalship (PreK-Adult)

- EDUC 5000 - Principal as a Leader Credit Hours: 3
- EDUC 5005 - Organizational Leadership Credit Hours: 3
- EDUC 5010 - Ethics and School Law Credit Hours: 3
- EDUC 5015 - Community Relationships Credit Hours: 3
- EDUC 5020 - Transformational Leadership Credit Hours: 3
- EDUC 5025 - Current School Issues Credit Hours: 3

Superintendency

The following courses may be taken after the above courses, or if a principalship certification has been received from another institution:

- EDUC 5030 - Superintendents Role Board and Community Credit Hours: 3
- EDUC 5035 - Superintendent as Leader/Manager Credit Hours: 3

Contact Information:

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Educational Leadership Program
Coordinator
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Principalship Certificate (Licensure Program)

The Educational Leadership/Principalship Certification program is an online standards-based leadership preparation program. The 18-credit hour Educational Leadership/Principalship program will prepare teachers to meet the West Virginia (WV) requirements for a PreK-Adult Principal licensure. The graduate-level program prepares candidates with the knowledge and expertise to become transformative educational administrators and leaders capable of meeting the PreK-Adult educational challenges and opportunities of today and in the future.

Program Outcomes

- Examine the differences between a site based manager, and an instructional leader and how those management-style roles relate to distributive leadership.
- Analyze and describe the use of technology as it relates to instruction, social media, and communication with parents, students, staff and the community at large.
- Analyze the hiring process, the teacher evaluation instrument and the grievance procedure and how

to these processes relate to maintaining a highly quality staff.

- Create and participate in mock situational roles involving the principal during hearings before the local Board of Education, and with students and parents.
- Analyze the role of the principal in a critical conversation and resolution involving a staff member(s).
- Examine the role of the principal regarding curriculum development and distinguish how this may impact the school culture and high expectations.
- Examine laws, policies, and ethical challenges that have an impact on the educational setting. Upon reviewing the origins of the laws, policies and ethical standards, identify how the principal must have a working knowledge of those items to effectively manage a school and staff.
- Demonstrate an understanding of skills as related to fiscal management to establish a yearly budget, management of federal funds and the passage of a school bond/levy.
- Design innovative ideas to enhance communication between all stakeholders of the school community. Identify methods of communication that are innovative and immediate when responding to a crisis.

Admission Criteria

- Complete an admissions application at the Office of Admissions
- Pay \$25 application fee
- Submit official college transcripts to the Office of Admissions
- Hold a master's degree from an accredited institution of higher education with a minimum 3.0 GPA
- Have three (3) years of management level or teaching experience

Program of Study

- EDUC 5000 - Principal as a Leader Credit Hours: 3
- EDUC 5005 - Organizational Leadership Credit Hours: 3
- EDUC 5010 - Ethics and School Law Credit Hours: 3
- EDUC 5015 - Community Relationships Credit Hours: 3
- EDUC 5020 - Transformational Leadership Credit Hours: 3
- EDUC 5025 - Current School Issues Credit Hours: 3

Contact Information

Barbara Owens

Educational Leadership Program
Coordinator

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Reading Specialist Certification (Licensure Program)

The Reading Specialist

Certification qualifies candidates to be K - Adult Reading Specialists (Title I) who offer literacy leadership at the school, local, and state levels and work with other educators to evaluate students' reading abilities, plan and administer assessments, and provide appropriate literacy instruction and support to struggling readers. This state certification prepares candidates for careers in teaching, literacy coaching, coordinating instructional programs, diagnosing literacy needs and creating and administering interventions, and leading school reading programs. Reading Specialists may serve as a resource for educational support personnel, administrators, and teachers; provide professional development; build and implement literacy programs; and serve as advocates for family literacy.

Admissions Requirement

- Complete admissions application at Office of Admissions
- Pay \$25 application fee
- Submit official college transcripts to Office of Admissions
- Hold a Master's degree and a current West Virginia teaching license

Degree Requirements

Required Certificate Courses (18 credit hours)

- READ 6300 - Foundations in Reading and Writing Credit Hours: 3
- READ 6310 - Teaching Reading to Special and At-Risk Learners Credit Hours: 3
- READ 6310L - Teaching Reading to Special and At-Risk Learners Lab Credit Hours: 0

- READ 6315 - Teaching Content Area Literacy Credit Hours: 3
- READ 6320 - Psychological, Sociological, and Linguistic Factors in Reading and Writing Ability Credit Hours: 3
- READ 6360 - Literature and Response Credit Hours: 3
- READ 6370 - Administration and Supervision of Reading/Writing Programs Credit Hours: 3

Clinical Courses (6 Credit Hours)

- READ 6330 - Diagnosis and Correction of Reading and Writing Difficulties Practicum I Credit Hours: 3
- READ 6330L - Diagnosis and Correction of Reading and Writing Difficulties Practicum I Lab Credit Hours: 0
- READ 6340 - Literacy Coaching and Professional Development Practicum II Credit Hours: 3

Certificate Total Credit Hours =
24

Contact Information:

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Program Coordinator
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Superintendent Certificate (Licensure Program)

The Educational Leadership/Superintendent Certification program is an online, 6-credit hour, standards-based leadership preparation program. The Superintendent program prepares candidates to meet the West

Virginia requirements for a PreK-12 Superintendent licensure.

Program Outcomes

- Analyze and describe the use of technology as it relates to instruction, social media, and communication with parents, students, staff, and the community at large.
- Apply the skills necessary to understand state and local funding and how those skills relate to the successful operation of a school system.
- Analyze the hiring process, the teacher evaluation instrument and the grievance procedure and how to these processes relate to maintaining a highly quality staff.
- Examine the impact of laws, policies, and ethical challenges on the educational setting; and describe how a superintendent must have knowledge of those items to effectively manage a school district.
- Examine the role of the superintendent in identifying community support, school board relations, and conflict resolution.
- Demonstrate an understanding of skills as related to fiscal management to establish a yearly budget, management of federal funds, and the passage of a school bond/levy.

- Design innovative ideas to enhance communication between all stakeholders of the school community. Identify methods of communication that are innovative and immediate when responding to a crisis.

Admission Criteria

- Complete an admissions application at the Office of Admissions
- Pay \$25 application fee
- Submit official college transcripts to the Office of Admissions
- Hold a master's degree from an accredited institution of higher education with a minimum 3.0 GPA
- Have three (3) years of management level or teaching experience

Program of Study

- EDUC 5030 - Superintendent Role Regarding Board, Community and Curriculum Credit Hours: 3
- EDUC 5035 - Superintendent as Leader/Manager Credit Hours: 3

Contact Information

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College of Liberal Arts

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Master of Science

Criminal Justice, M.S.

Program Overview

The Master of Science in Criminal Justice (MSCJ) program is a 30-credit hour online program designed to equip students with leadership roles in criminal justice agencies. The program is perfect for students who work full time in state and federal agencies such as law enforcement,

probation and parole officers, and organizations (e.g., National White Collar Crime Center, Fusion Center). Some students enter the graduate program immediately following the completion of a baccalaureate degree, while others come back after being out of school for many years. This creates a diverse cohort of motivated individuals who support and assist one another through interactive online education.

The MS in CJ program focuses on the criminal justice system, its organizational components and processes, as well as its legal and public policy contexts. The core curriculum includes instruction in criminal law and policy, police and correctional systems organization, the administration of justice and the judiciary, and public attitudes regarding a wide range of criminal justice issues. The program provides students with advanced theoretical, legal, and methodological training for applied, research, teaching, management and administrative careers in local, state, and federal agencies. The faculty bring a broad range of personal experiences from working in federal and state agencies and have strong ties to local, state and national personnel and organizations.

For more information, visit the program website.

Program Outcomes

1. Students will demonstrate an ability to critically evaluate and compare theories and data in the criminal justice field as they apply to knowledge and comprehension of the

causes, consequences and responses to crime and how these relate to the community and other disciplines, including ethical, professional, and sociopolitical implications.

2. Students will use written argument, oral presentation, program evaluation and original research approaches to demonstrate the ability to apply theories, evidence based research, and legal doctrines to provide critical commentary and solutions to problems and controversies in the fields of criminology and criminal justice.
3. Students will create work products reflective of an ability to apply knowledge and comprehension in the criminal justice field through current employment, internships, and future job opportunities. These work products will illustrate proficiency in written and/or oral communication and defense of criminal justice concepts.

Admission and Program Requirements

In addition to meeting the general admission requirements to a master's program at Fairmont State students applying to the master's program in criminal justice must meet the following requirements:

- Baccalaureate degree from an accredited institution of higher education.
- Grade point average of 3.00 or higher - includes all transcripts from all previous degrees and matriculation.
- Completion of undergraduate research methods and statistics courses with a grade of C or higher.
- Complete a writing 5-10 page writing sample that includes:
 - Why the applicant is interested in earning a Master of Science in Criminal Justice degree,
 - What the applicant's career and field experiences have been thus far, and
 - What the applicant believes to be the most important issue in criminal justice today. This paper needs to be submitted in APA format and the last section should include peer reviewed resources from empirical/scholarly literature. The writing sample has replaced the use of the GRE for

the criminal justice program; GRE scores are not required for admission to the MS in CJ program.

- Three (3) letters of recommendation - at least one of which must be from someone unaffiliated with Fairmont State (e.g. current or former work supervisors, those who can speak to your character and ability to manage graduate level study).
- Provisional Admission may be granted for students who do not meet a portion of the admission requirements. Continuation in a program of study for provisionally admitted students will be determined based on performance in the first 9 credit hours. Provisionally admitted students must hold a minimum grade point average of 3.0 with no grade lower than "B" in any graduate course. Provisionally admitted students may not have a grade of "I" or "W" in the first 9 credit hours.

Students whose writing sample is not deemed to be at the appropriate level for graduate work (in terms of depth, breadth, grammar, and formatting) may be provisionally admitted; however, they will be required to complete a writing module prior to beginning graduate courses.

Graduation Requirements

1. **Thesis Track - Professional Research Project**

The Thesis Track is recommended for those considering doctoral studies or interested in independent research programs

Required Courses	18 hrs.
Elective Courses	6 hrs.
Thesis I and Thesis II	6 hrs.

2. **Capstone Track - Comprehensive Exams**

The Capstone Track is recommended for those in applied settings.

Required Courses	18 hrs.
Elective Courses	9 hrs.
Capstone	3hrs.

Program of Study

Required Courses:

- CRIM 6601 - Advanced Criminal Justice Studies Credit Hours: 3
- CRIM 6602 - Advanced Criminal Law Credit Hours: 3
- CRIM 6620 - Advances Theoretical Criminology Credit Hours: 3
- CRIM 6650 - Seminar in Criminal Justice Planning and Evaluation Credit Hours: 3
- CRIM 6655 - Applied Research Methods Credit Hours: 3
- CRIM 6656 - Applied Statistics Credit Hours: 3

Thesis Track- Professional Research Project

- CRIM 6696 - Thesis I Credit Hours: 3

- CRIM 6697 - Thesis II Credit Hours: 3

Capstone Track- Comprehensive Exams

- CRIM 6695 - Capstone Credit Hours: 3

Elective Courses:

- CRIM 5504 - Constitutional Law Credit Hours: 3
- CRIM 5505 - Terrorism Credit Hours: 3
- CRIM 5525 - White Collar Crime Credit Hours: 3
- CRIM 5599 - Special Topics in Criminal Justice Credit Hours: 1-6
- CRIM 6610 - Advanced Penology Credit Hours: 3
- CRIM 6611 - Internship Credit Hours: 3
- CRIM 6615 - Comparative Analysis of Criminal Justice Systems Credit Hours: 3
- CRIM 6625 - Victimology Credit Hours: 3
- CRIM 6630 - Seminar in Law Enforcement Credit Hours: 3
- CRIM 6635 - Seminar in Offender Rehabilitation Credit Hours: 3
- CRIM 6640 - Seminar in Corrections Credit Hours: 3
- CRIM 6645 - Independent Study Credit Hours: 3

Contact Information:

Dr. Amanda Hall-Sanchez

Criminal Justice Program Coordinator

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Master of Arts

National Security and Intelligence, M.A.

The Master of Arts degree program in National Security and Intelligence (MA in NSI) is a 30-credit hour online graduate program that provides the knowledge, skills and abilities required to excel in intelligence analysis, national security, military studies, and private industry. The MA in NSI program is designed for students holding a 4-year baccalaureate degree in National Security and Intelligence or related field (e.g., Information Systems, Political Science, Criminal Justice, and Public Administration). This program enables students to develop and apply rigorous analytical techniques to complex national security issues, and key skills for the leadership and ethical expectations faced throughout their career.

Program Outcomes

- Analyze the mission, structure, and function of the United States national security organizations as well as current and emerging national and international security issues.
- Examine the ethical and leadership considerations and expectations related to national security and intelligence.
- Develop and apply rigorous analytical techniques to complex international and domestic national security issues.
- Identify and apply the legal principles and regulations in the National Security and Intelligence field.

Admission Requirement

- Baccalaureate degree from an accredited institution in National Security and Intelligence or related field (e.g., Information Systems, Political Science, Criminal Justice, Public Administration)
- Minimum 3.0 GPA on a 4.0 scale
- Two (2) letters of recommendation - at least one of which must be from someone unaffiliated with Fairmont State (e.g. current or former work supervisors, those who can speak to your character and ability to manage graduate level study).
- A sample of recent writing, which you feel demonstrates your ability to use evidence to persuade or inform your audience about a given point.

Degree Requirements

A minimum of 30 credit hours is required.

Required Courses (18 credit hours)

- NSIS 5500 - National Security and Intelligence Credit Hours: 3
- NSIS 5510 - Intelligence Research and Analysis Credit Hours: 3
- NSIS 5520 - Espionage, Counterintelligence and Strategic Deception Credit Hours: 3
- NSIS 5530 - National Security Law Credit Hours:
- NSIS 5540 - Ethics and Leadership in National Security Credit Hours: 3
- NSIS 5550 - International Security Credit Hours: 3

Major Electives (12 Credit Hours)

- NSIS 5560 - Information Operations: Principles, Policies, and Challenges Credit Hours:
- NSIS 5570 - Homeland Security and Infrastructure Credit Hours: 3
- NSIS 5580 - Terrorism Analysis Credit Hours: 3
- NSIS 5585 - Defense Intelligence Analysis Credit Hours: 3
- NSIS 5590 - Intelligence, Covert Action and Low-Intensity Conflict Credit Hours: 3
- NSIS 5595 - Law of ARmed Conflict/International Humanitarian Law Credit Hours: 3
- NSIS 5599 - Special Topics in Natinoal Security and Intelligence Credit Hours: 3
- NSIS 6690 - National Security and Intelligence Practicum Credit Hours: 1-12

Degree Total = 30 Credit Hours

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College of Science and Technology

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Master of Science

Engineering Management, M.S.

Program Overview

The Master of Science degree in Engineering Management is a 30-credit graduate program designed for students that have completed a bachelor's degree in the applied sciences, business, engineering, engineering technology, industrial technology, or other related technical professional programs. The program provides students with the knowledge and skills to work in management positions in business, engineering, manufacturing, and industry. The program has an emphasis in designing innovative engineering and technology solutions and the applications of total quality management.

Mission

The mission of the Master of Science degree in Engineering Management is to prepare business, engineering, and technology leaders capable of analyzing and improving operational performance using engineering and technology strategies. This is accomplished by linking concepts of engineering and technology with business management and organizational skills. To meet this mission, individuals engage in industrial problems involving applied research, resource allocation, technological systems, managing change and innovation, technology transfer, forecasting, and quality improvement.

Program Outcomes

The Engineering Management program has the following program objectives, and at the conclusion of this program graduates will be able to:

1. Design innovative engineering or technological based solutions to selected problems.
2. Demonstrate skills in the improvement of productivity, quality, and competitiveness in the management of engineering and technology endeavors.
3. Provide solutions to cost management, risk assessment, and project management.
4. Apply concepts of total quality management, lean enterprise, Six-Sigma, and statistical process control.
5. Illustrate leadership strategies to managing engineering and technology enterprises and operations.

MSEM Program Policies

Students in the MSEM program are governed by policies stated in the Fairmont State University Graduate Catalog, and students are required to review the catalog upon admission to the MSEM program. Policies specific to the MSEM program are as follows:

The Department of Engineering Technology in accordance with university

policies reserves the right to administratively withdraw a student whose academic record or behavior is judged unsatisfactory.

- Any student dismissed from the program may not reapply to the area of emphasis in which he or she was enrolled.
- No more than nine credit hours of graduate level courses from an accredited institution may be accepted as transfer credit.
- Grades earned in transfer courses must be a 'B' or better or 'pass/satisfactory'.
- Prior to the completion of 12 credit hours of graduate courses, a Degree Plan must be submitted through the student's graduate Advisor and to the Office of Graduate Studies.
- A student may amend their Degree Plan with approval from their academic advisor and the resubmission of the plan to the Office of Graduate Studies.

Program of Study

Core Courses (27 hours)

- MSET 5400 - Leadership in Engineering and Technology Management Credit Hours: 3
- MSET 5500 - Organizational Performance and Change Management Credit Hours: 3

- MSET 5600 - Cross-Cultural Training and Performance Improvement Credit Hours: 3
- TECH 6000 - Research Methods in Engineering Technology Credit Hours: 3
- MSET 6100 - Engineering Economic Analysis Credit Hours: 3
- MSET 6200 - Engineering and Technology Management Credit Hours: 3
- MSET 6300 - Engineering Project Management I Credit Hours: 3
- MSET 6400 - Engineering in Production Systems Credit Hours: 3
- MSET 6500 - Total Quality Management and Policy Credit Hours: 3

Research Specialization (3 hours)

Student must select 3 hours:

- TECH 6700 - Action Research in Engineering and Technology Credit Hours: 3
- TECH 6998 - Thesis Credit Hours: 3

Contact Information:

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 Engineering Management Program
 Coordinator
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Master of Architecture

Architecture, M.Arch.

Program Overview

The Architecture Program educates aspiring architects to be creative thinkers who pursue architecture as a process of integration. Design, history, theory, culture, sustainability, and the realities of practice are interpreted both within the unique character and dynamics of the

Appalachian region as well as within the modern global community.

Typically completed in three semesters, the professional Master of Architecture (M. Arch) degree further focuses on appropriate, responsible, and sustainable design and planning for community revitalization in smaller towns and cities of the region. Students engage in innovative ways of community outreach through design and the ability of architecture to address people at a personal level.

The M.Arch. curriculum consists of 42 semester hours of graduate architecture courses with a prerequisite of a Bachelor of Science in Architecture (composed of 126 semester hours at Fairmont State, of which 58 semester hours are general studies).

The M. Arch. degree prepares students to enter the profession or similar employment at a more advanced level than the BS Arch, seek architectural registration (licensing) in select states, upgrade their professional credentials, and/or pursue an additional graduate degree from a program already accredited by the National Architectural Accrediting Board (NAAB).

The M. Arch. degree is currently in candidacy for accreditation and anticipates full accreditation by 2022. The state of West Virginia, as well as many other state jurisdictions, along with the National Council of Architectural Registration Boards (NCARB) recognize degrees from institutions that have been awarded within two years of accreditation.

Program Outcomes

The Master of Architecture Program will:

- Prepare students to apply critical thinking skills to creatively solve a variety of design problems with respect to culture, context, systems, materials, sustainable principles, and contribute to the development of new knowledge.
- Demonstrate how architectural history, theory, and practice may inform design decisions in our contemporary global society.
- Prepare students to make informed, ethical, and responsible contributions to the built environment in a diverse and global society in order to serve the public good.
- Provide students with the skills and knowledge to engage in the Architectural Experience Program (AXP); work toward professional licensure; and seek employment in architectural offices and in other design and construction related fields.
- Enable students to assume the role of an architect as a collaborator, communicator, and leader while observing the wide-ranging needs of clients, populations, and communities in a global society.

Admission and Program Requirements

In addition to the Graduate School Admissions Requirements, admission to the Master of Architecture degree program will be determined by the evaluation of the following criteria:

- Successful completion of a 4-year pre-professional degree in architecture (Bachelor of Science in Architecture or Bachelor of Arts in Architecture). Applicants with a pre-professional degree from an institution other than Fairmont State will be required to submit specific evidence of having satisfied the various NAAB SPC not covered in the Fairmont State Master of Architecture program.
- Three letters of reference with a minimum of two from undergraduate architecture instructors. The third may be from a professional acquaintance.
- Portfolio, submitted in hard-copy or as a PDF (not to exceed 15MB), containing examples of the applicant's architectural design and creative work.
- One-page essay summarizing the student's reasons for pursuing the Master of Architecture degree, and

more specifically at Fairmont State.

A personal interview may be required as part of the admissions process. This interview will be conducted by faculty in the Architecture program in person, by phone, or via other electronic media.

Program of Study

Required Courses:

- ARCH 5500 - Community Design Studio Credit Hours: 6
- ARCH 5510 - Designing in a Small Urban Context Seminar Credit Hours: 3
- ARCH 5540 - Professional Practice Credit Hours: 3
- ARCH 5550 - Comprehensive Design Studio Credit Hours: 6
- ARCH 5560 - Architecture Design Seminar 2: Sustainable Design Credit Hours: 3
- ARCH 6610 - Advanced Study Proposal Credit Hours: 3
- ARCH 6650 - Advanced Architectural Design Studio Credit Hours: 6

Architecture Elective Courses:

- ARCH 5501 - Community Design Assistance Center-Leadership Credit Hours: 3
- ARCH 5502 - Community Design Assistance Center-Leadership Credit Hours: 3
- ARCH 5580 - Architectural Practice Program Credit Hours: 3
- ARCH 5585 - Architecture Study + Travel Credit Hours: 3
- ARCH 5599 - Special Topics in Architecture Credit Hours: 1-6
- ARCH 6601 - Community Design Assistance Center-Leadership Credit Hours: 3
- ARCH 6670 - Architectural History/Theory Seminar Credit Hours: 3
- ARCH 6680 - Architectural Practice Program Credit Hours: 3

Other Approved Elective Courses:

- MSBA 5000 - MBA Essentials Credit Hours: 3
- MSBA 5110 - Leadership Workshop Credit Hours: 3
- MSBA 5120 - Tactical Human Resources Practices Credit Hours: 3
- MSBA 5810 - Project Management Credit Hours: 3
- MSBA 5820 - Advanced Project Management Credit Hours: 3

Recommended Course Sequence

Fall First Year (15 Hrs)

- ARCH 5500 - Community Design Studio Credit Hours: 6
- ARCH 5510 - Designing in a Small Urban Context Seminar Credit Hours: 3
- ARCH 5540 - Professional Practice Credit Hours: 3
- ARCH 50XX - Architecture Elective

Spring First Year (15 Hrs)

- ARCH 5550 - Comprehensive Design Studio Credit Hours: 6
- ARCH 5560 - Architecture Design Seminar 2: Sustainable Design Credit Hours: 3
- ARCH 6610 - Advanced Study Proposal Credit Hours: 3
- ARCH 50XX - Architecture Elective

Fall Second Year (12 Hrs)

- ARCH 6650 - Advanced Architectural Design Studio Credit Hours: 6
- ARCH 60XX - Architecture Elective
- XXXX XXXX - Architecture or Interdisciplinary Elective

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College of Business & Aviation

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Master of Science

Healthcare Management, M.S.

The mission of the Master of Science in Health Care Management (MHCM) program is to prepare early careerists and seasoned managers for healthcare leadership roles in the public or private sector. The vision of the MHCM program is to provide access to a premier graduate degree that guides course participants to become competent and effective healthcare leaders. The MHCM program is offered in on-line and hybrid format. The program focuses on academic excellence by using a relevant, evidence-based curriculum that meets the expectations of industry leaders, and the accrediting body for graduate-level business or healthcare management education. The program strives to be compassionate and understanding to place-bound working adults, or off campus learners, by assuring access to an excellent online/hybrid graduate healthcare management degree, which is essential for personal development and key to career advancement.

For more information, visit the program website.

Program of Study

Required Courses (36 Credit Hours)

- MHCM 5030 - Healthcare Quality Credit Hours: 1
- MHCM 5010 - Designing an Effective Care Continuum Credit Hours: 1
- MHCM 5020 - Lean Six Sigma Credit Hours: 1
- MHCM 5100 - Leadership and Organization Credit Hours: 3
- MHCM 5200 - Healthcare Finance and Strategy Credit Hours: 3
- MHCM 5300 - Healthcare Ethics and Corporate Accountability Credit Hours: 3
- MHCM 5400 - Medical/Legal Issues in Healthcare Delivery Credit Hours: 3
- MHCM 5500 - Epidemiology and Population Health Credit Hours: 3
- MHCM 5600 - Healthcare Policy, Trends and Public Financing Credit Hours: 3
- MHCM 5700 - Healthcare Economics Credit Hours: 3
- MHCM 5800 - Healthcare Information Exchange and Information Systems Credit Hours: 3
- MHCM 6000 - Introduction to Research Methods Credit Hours: 3
- MHCM 6100 - Independent Research -or- Externship/Special Topics in Business Management Credit Hours: 3
- MHCM 6200 - Strategic Management Capstone Credit Hours: 3

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Master of Business Administration

Business Administration, M.B.A.

Program Overview

The Master of Business Administration (MBA) degree is designed to prepare students to apply concepts and principles offered in the various business disciplines to the responsibilities of management in a variety of endeavors organizations. The program is designed for both business and nonbusiness undergraduate majors.

Students who satisfy admission criteria and, if necessary, complete MBA leveling courses as a condition for admission, will require thirty-six (36) graduate credit hours to meet degree requirements. Of these, twenty-four (24) hours will consist of required business core courses covering functional areas of business such as business law, economics, finance and accounting, marketing, information systems, technology, research and analysis. Students have an opportunity to take twelve credits of general electives or the student may choose a customized MBA, in which the student chooses one of three specialized tracks: Human Resources Management; Project Management; or, Cybersecurity Management.

The program is intended to serve the needs of the state with particular focus on the needs of employers in North Central West Virginia. Organizations such as the FBI, NASA, DOE, NIOSH, Mylan, the local hospitals, the WVHTC Foundation, software and biotech firms, and others in the state need employees with enhanced

operations management, human resources, project or cybersecurity management skills.

For more information, visit the program website.

Program Outcomes

Our graduates will demonstrate the following:

- Conceptual acumen to make complex and ethical decisions
- Analytical and technical skills to solve organizational problems using objective analysis
- Communications competence in various business settings
- Interpersonal aptitude to effectively lead an organization

Admission and Program Requirements

Admission will be competitive and based upon undergraduate grade point average (GPA) and required GMAT or GRE scores. Admission requires:

- Baccalaureate degree from an accredited institution
- Minimum 2.75 overall undergraduate GPA on a 4.0 scale or 3.0 on the last 60 hours attempted
- Receipt of GMAT or GRE scores. This requirement is removed for applicants with 3 or more years of professional or related full-time work experience.

Students applying to the School of Business must meet the minimum requirements for graduate study.

Applicants who do not meet all minimum admission criteria may be admitted provisionally by applying at least 5 years of progressively responsible work experience as an additional measure.

Graduation Requirements

Students must maintain a 3.00 overall GPA and earn not more than 2 grades of "C" on courses to be counted toward graduation in order to graduate.

Program of Study

Business Core Courses (24 Credit Hours):

- MSBA 5110 - Leadership Workshop Credit Hours: 3
- MSBA 5200 - Management Information Systems Credit Hours: 3
- MSBA 5300 - Managerial Economics Credit Hours: 3
- MSBA 5400 - Business Environments Credit Hours: 3
- MSBA 5550 - Financial Reporting and Analysis Credit Hours: 3
- MSBA 5600 - Marketing for Managers Credit Hours: 3
- MSBA 5710 - Operations Management Credit Hours: 3
- MSBA 6000 - Strategic Management Credit Hours: 3

Cybersecurity Concentration (12 Credit Hours)

- MSBA 5900 - Cybersecurity and Risk Management Credit Hours: 3
- MSBA 5910 - Security Operations, Assessments, and Testing Credit Hours: 3
- MSBA 5920 - Big Data Analytics Credit Hours: 3
- MSBA 5930 - Secure Information Systems Development Credit Hours: 3

Elective Courses (12 Credit Hours)

* MSBA courses required of students seeking the **Human Resources Management Emphasis**.

** MSBA courses required of students seeking the **Project Management Emphasis**.

- MSBA 5100 - Personal Development Workshop Credit Hours: 3
- MSBA 5120 - Tactical Human Resources Practices Credit Hours: 3
- MSBA 5130 - Labor Relations and Dispute Resolution Credit Hours: 3
- MSBA 5140 - Strategic Human Resources Management Credit Hours: 3
- MSBA 5900 - Cybersecurity and Risk Management Credit Hours: 3
- MSBA 5800 - Knowledge Management Credit Hours: 3
- MSBA 5810 - Project Management Credit Hours: 3 **
- MSBA 5820 - Advanced Project Management Credit Hours: 3 **
- MSBA 5850 - Project Management Capstone Credit Hours: 3 **
- MSBA 5910 - Security Operations, Assessments, and Testing Credit Hours: 3
- MSBA 5920 - Big Data Analytics Credit Hours: 3
- MSBA 5930 - Secure Information Systems Development Credit Hours: 3
- MSBA 6010 - Managerial Practicum Credit Hours: 3
- MSBA 6020 - Global Experience Credit Hours: 3

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Graduate Certificate

Cybersecurity Management Certificate

The Cybersecurity Management certificate is designed to prepare early careerists and seasoned managers for cybersecurity leadership roles in the public or private sectors. The array of courses focuses on developing sustainable executive practices that result in efficient cybersecurity management and effective outcomes to the organizations served. This program is designed to give participants hands-on, real-world experience with classroom studies to bridge the practical application of effective cybersecurity management with best practices and contemporary theoretical constructs. Cybersecurity professionals are being hired in a myriad of organizations and industries, but specific sectors where job growth is projected include financial, healthcare, energy, and government organizations. Courses in this certificate program must be completed in a sequence, and will serve as electives toward the MBA degree.

Admission Requirements

Admission to the MBA program

Degree Requirements

Required Certificate Courses (12 credit hours)

- MSBA 5900 - Cybersecurity and Risk Management Credit Hours: 3
- MSBA 5910 - Security Operations, Assessments, and Testing Credit Hours: 3
- MSBA 5920 - Big Data Analytics Credit Hours: 3

- MSBA 5930 - Secure Information Systems Development Credit Hours: 3

Certificate Total Credit Hours = 12

Contact Information:

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Healthcare Management Certificate

The Healthcare Management certificate offers early careerists and seasoned managers with foundational knowledge with which to effectively perform in mid-level to senior level leadership positions within the healthcare industry. The Certificate, through a relevant, evidenced-based curriculum, provides completers with credentials for career advancement or mobility in such organizations as acute-care hospitals, post-acute care facilities, community-based health agencies, and public health-related institutions.

The certificate also provides core coursework for those interested in pursuing a Nursing Home Administrator License in West Virginia. Candidates may apply for an Administrator-In-Training externship (500 hours achieved in MHCM 6000 and MHCM 6100) to satisfy eligibility requirements for nursing home licensure examinations as required by the state

licensing agency. All certificate courses may be accepted toward completion of the Masters of Science in Healthcare Management.

For more information, visit the program website.

Admission Criteria

Admission to the Masters in Healthcare Management Program

Degree Requirements

Required Certificate Courses (12 credit hours)

- MHCM 5200 - Healthcare Finance and Strategy Credit Hours: 3
- MHCM 5300 - Healthcare Ethics and Corporate Accountability Credit Hours: 3
- MHCM 5400 - Medical/Legal Issues in Healthcare Delivery Credit Hours: 3
- MHCM 5600 - Healthcare Policy, Trends and Public Financing Credit Hours: 3

Certificate Elective Courses (3 credit hours)

Choose one of the following:

- MHCM 5100 - Leadership and Organization Credit Hours: 3
- MHCM 5500 - Epidemiology and Population Health Credit Hours: 3
- MHCM 5800 - Healthcare Information Exchange and Information Systems Credit Hours: 3
- MHCM 5030 - Healthcare Quality Credit Hours: 1
AND
- MHCM 5010 - Designing an Effective Care Continuum Credit Hours: 1
AND
- MHCM 5020 - Lean Six Sigma Credit Hours: 1

Certificate participants completing the AIT project will substitute MHCM 6100 and MHCM 6200 under electives to reflect this experiential learning consisting of 500 hours.

Certificate Total Credit Hours = 15

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Human Resource Management Certificate

The Human Resource Certificate provides graduate level engagement in strategic, tactical, and conflict resolution subjects dealing with procuring, deploying, maintaining, and improving an organization's human capital. Topics covered include legal, practical, ethical, and strategic approaches in human resource management, practical approaches to implementing policies and procedures related to staffing, training, and motivation of employees, and labor relations and dispute resolution processes. This certificate provides completers with a depth of knowledge to effectively perform in a variety of roles within human resources departments or whose job responsibilities deal in personnel or talent management. Courses for this certificate may be completed in any order, and will serve as electives toward the MBA degree.

Admission Requirements

Meet admission requirements for the M.B.A program

Degree Requirements

Required Certificate Courses (9 credit hours)

- MSBA 5120 - Tactical Human Resources Practices Credit Hours: 3
- MSBA 5130 - Labor Relations and Dispute Resolution Credit Hours: 3
- MSBA 5140 - Strategic Human Resources Management Credit Hours: 3

Certificate Elective Courses (3 credit hours)

Any MSBA course approved by Program Director

Certificate Total Credit Hours = 12

Contact Information:

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MBA Program Director

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Project Management Certificate

The Project Management certificate follows the primary content and knowledge areas identified by the Project Management Institute in A Guide to the Project Management Body of Knowledge (PMBOK® Guide) setting industry standards and

considered essential for a role or career as a project management professional. Material covered through the certificate program center on the ten knowledge areas and five process groups utilized in most all organizations utilizing project management approaches to meet organizational outcomes. Critical case analysis, individual, and team-based project development and execution is emphasized through best practices for project management. This certificate provides completers with a depth of knowledge focused on professional certification as a project manager, but also enables successful completers to thrive in businesses and industries with organizational workflow processes designed around project-based approaches. Courses in this certificate program must be completed in a sequence, and will serve as electives toward the MBA degree.

Degree Requirements

Required Certificate Courses (9 credit hours)

- MSBA 5810 - Project Management Credit Hours: 3
- MSBA 5820 - Advanced Project Management Credit Hours: 3
- MSBA 5850 - Project Management Capstone Credit Hours: 3

Certificate Elective Courses (3 credit hours)

Choose any MSBA course below approved by the Program Director.

- MSBA 5100 - Personal Development Workshop Credit Hours: 3

- MSBA 5110 - Leadership Workshop Credit Hours: 3
- MSBA 5120 - Tactical Human Resources Practices Credit Hours: 3
- MSBA 5130 - Labor Relations and Dispute Resolution Credit Hours: 3
- MSBA 5140 - Strategic Human Resources Management Credit Hours: 3
- MSBA 5200 - Management Information Systems Credit Hours: 3
- MSBA 5300 - Managerial Economics Credit Hours: 3
- MSBA 5400 - Business Environments Credit Hours: 3
- MSBA 5550 - Financial Reporting and Analysis Credit Hours: 3
- MSBA 5600 - Marketing for Managers Credit Hours: 3
- MSBA 5700 - Quantitative Analysis Credit Hours: 3
- MSBA 5710 - Operations Management Credit Hours: 3
- MSBA 5800 - Knowledge Management Credit Hours: 3
- MSBA 5900 - Cybersecurity and Risk Management Credit Hours: 3
- MSBA 5910 - Security Operations, Assessments, and Testing Credit Hours: 3
- MSBA 5930 - Secure Information Systems Development Credit Hours: 3
- MSBA 6000 - Strategic Management Credit Hours: 3
- MSBA 6010 - Managerial Practicum Credit Hours: 3
- MSBA 6020 - Global Experience Credit Hours: 3

Certificate Total Credit Hours = 12

Contact Information:

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MBA Program Director

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Courses

Prerequisite. These courses must be passed before enrollment in the course in question.

Co-requisite. Must be taken concurrently with the course in question.

Writing Intensive Courses (WIC)

Accounting

ACCT 2500 - Introduction to Financial Accounting

Credit Hours: 3

This course continues the study of financial accounting including internal controls, balance sheet items, and various business organizations.

Prerequisite(s): BSBA 2220

ACCT 2550 - Software Essentials

Credit Hours: 3

This course requires students to complete certification in several software applications including personal productivity and accounting software.

Prerequisite(s): BSBA 2220 ; Accounting Major

ACCT 3301 - Intermediate Accounting I

Credit Hours: 3

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.

Prerequisite(s): BSBA 2202, BISM 1500, COMM 2200 COMM 2201 or COMM 2202

ACCT 3302 - Intermediate Accounting II

Credit Hours: 3

A continuation of ACCT 3301, to include the study of corporate ownership equity and the analysis and interpretation of accounting data.

Prerequisite(s): ACCT 3301, MATH 1430 or MATH 1530, ENGL 1102

ACCT 3303 - Accounting Internship

Credit Hours: 3

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.

Prerequisite(s): ACCT 3302

ACCT 3325 - Intermediate Accounting III

Credit Hours: 3

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.

Prerequisite(s): ACCT 3302

ACCT 3330 - Advanced Accounting I

Credit Hours: 3

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.

Prerequisite(s): ACCT 3302

ACCT 3331 - Advanced Accounting II

Credit Hours: 3

A continuation of ACCT 3330; exploration of advanced accounting topics.

Prerequisite(s): ACCT 3330

ACCT 3340 - Cost Accounting

Credit Hours: 3

This course examines the relationship of cost accounting to the company's performance, with an emphasis on planning, controlling, and decision-making.

Prerequisite(s): ACCT 2500

ACCT 3350 - Accounting Information Systems

Credit Hours: 3

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.

Prerequisite(s): BSBA 2202

ACCT 3399 - Special Topics in Accounting

Credit Hours: 1-6

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 3801 - Certified Management Accountant Exam I

Credit Hours: 3

This elective course is designed to give students credit for passing Part I of the Certified Management Accounting (CMA) Exam. This is an independent, self-paced experience. The student alone is responsible for implementing a study plan, scheduling an exam date, paying for the exam, and providing appropriate documentation of exam performance. To receive credit, the student must provide official documentation that Part I of the exam has been passed. This a Credit/No Credit course.

Prerequisite(s): Sophomore Standing

ACCT 3802 - Certified Management Accountant Exam II

Credit Hours: 3

This elective course is designed to give students credit for passing Part II of the Certified Management Accounting (CMA) Exam. This is an independent, self-paced experience. The student alone is responsible for implementing a study plan, scheduling an exam date, paying for the exam, and providing appropriate documentation of exam performance. To receive credit, the student must provide official documentation that Part II of the exam has been passed. This a Credit/No Credit course.

Prerequisite(s): Junior Standing

ACCT 4201 - Advanced Accounting I

Credit Hours: 3

This course covers accounting for special situations including partnerships, consolidations, foreign currency, and SEC reporting.

Prerequisite(s): ACCT 3302

ACCT 4202 - Advanced Accounting II

Credit Hours: 3

This course continues the study of accounting for special situations including segment and interim reporting, insolvency, and governmental and not-for-profit fund

accounting.

Prerequisite(s): ACCT 4201

ACCT 4404 - Cost Accounting

Credit Hours: 3

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.

Prerequisite(s): BSBA 2202

ACCT 4405 - Auditing

Credit Hours: 3

A study of the philosophy, environment, and procedures of auditing, and the legal, social and professional responsibilities of the auditor.

Prerequisite(s): ACCT 3302, ACCT 3350

ACCT 4406 - Federal Income Tax Accounting: Individual

Credit Hours: 3

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

Credit Hours: 3

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.

Prerequisite(s): ACCT 4406

ACCT 4408 - Income Tax Return Preparation

Credit Hours: 3

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

Prerequisite(s): ACCT 4406

ACCT 4410 - Case Studies in Accounting

Credit Hours: 3
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.

Prerequisite(s): ENGL 1102, ACCT 3325, ACCT 4405

ACCT 4501 - Accounting Research and Communication I

Credit Hours: 3
This course focuses on the development of professional skills including critical thinking and problem-solving, oral and written communication, accounting research using the FASB Accounting Standards Codification, and the use of technology to facilitate accounting research and reporting.

Prerequisite(s): ACCT 3302

ACCT 4502 - Accounting Research and Communication II

Credit Hours: 3
This course continues the development of professional skills including critical thinking and problem-solving, oral and written communication, accounting research using the FASB Accounting Standards Codification, ethics and the AICPA Code of Professional Conduct, and the use of technology to facilitate accounting research and reporting.

Prerequisite(s): ACCT 4501

ACCT 4801 - Auditing I

Credit Hours: 3
This course introduces the philosophy, environment, and procedures of auditing, and the legal, social and professional responsibilities of the auditor.

Prerequisite(s): ACCT 3302

ACCT 4802 - Auditing II

Credit Hours: 3
This course continues the examination of the procedures of auditing and the legal, social, and professional responsibilities of the auditor. This course includes an audit case simulation that requires students to synthesize concepts from multiple areas of business.

Prerequisite(s): ACCT 4801

ACCT 4998 - Undergraduate Research

Credit Hours: 0-6
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. Repeatable Restrictions: Sophomore-Senior Level.

Prerequisite(s): Instructor approval required

AFROTC

USAF 1000 - Leadership Laboratory (LLab)

Credit Hours: 1
Leadership laboratory takes an average of two hours per week, every semester, throughout the student's enrollment in AFROTC. Instruction is conducted in an organized cadet corps with a progression of experiences designed to develop each student's leadership potential. LLab involves a study of Air Force customs and courtesies, drill and ceremonies, physical fitness, career opportunities, and the lifestyle and duties of an Air Force junior officer. Students develop leadership potential in a practical, supervised training laboratory, which typically includes field trips to Air Force installations.

USAF 1310 - Heritage and Values of the United States Air Force

Credit Hours: 1
Survey course that introduces students to the United States Air Force. It provides an overview of the basic characteristics, missions, and organization of the Air Force. The course includes an overview of AFROTC and AFROTC special programs.

USAF 1320 - Heritage and Values of the United States Air Force

Credit Hours: 1
Survey course that introduces students to the United States Air Force. It provides an overview of the basic characteristics, missions, and organization of the Air Force. The course includes an overview of AFROTC and AFROTC special programs.

USAF 2510 - Team and Leadership Fundamentals

Credit Hours: 1

Designed to provide a fundamental understanding of both leadership and team building. Students will learn methods and perspectives on self-assessment, followership, problem solving, motivation, human relations, and ethical decision making.

USAF 2520 - Team and Leadership Fundamentals

Credit Hours: 1

Designed to provide a fundamental understanding of both leadership and team building. Students will learn methods and perspectives on self-assessment, followership, problem solving, motivation, human relations, and ethical decision making.

USAF 3710 - Leading People and Effective Communication

Credit Hours: 3

Designed to build on the leadership fundamentals taught in USAF 251/252. Students will learn about leadership, management, professional knowledge, leadership ethics, and communication skills required of an Air Force officer. Case studies are used as a means of exercising practical application of concepts.

USAF 3720 - Leading People and Effective Communication

Credit Hours: 3

Designed to build on the leadership fundamentals taught in USAF 251/252. Students will learn about leadership, management, professional knowledge, leadership ethics, and communication skills required of an Air Force officer. Case studies are used as a means of exercising practical application of concepts.

USAF 4810 - National Security Affairs/Preparation for Active Duty

Credit Hours: 3

Examines the national security process, regional studies, leadership ethics, and USAF doctrine. Topics include the military as a profession, officership, military justice, civilian control of the military, active duty preparation, and issues affecting military professionalism.

USAF 4820 - National Security Affairs/Preparation for Active Duty

Credit Hours: 3

Examines the national security process, regional studies, leadership ethics, and USAF doctrine. Topics include the military as a profession, officership, military justice, civilian control of the military, active duty preparation, and issues affecting military professionalism.

Allied Health

ALLH 1150 - Introduction to Healthcare Professions

Credit Hours: 3

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. Same Course As: SOCY 1150 and PSYC 1150; students may receive credit for the course only once

ALLH 1160 - Exploration of Healthcare Professions

Credit Hours: 2

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. Same Course As: SOCY 1160 and PSYC 1160; students may receive credit for the course only once

Prerequisite(s): ALLH 1150 or SOCY 1150 or PSYC 1150

ALLH 3341 - Death and Dying

Credit Hours: 3

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

Credit Hours: 4

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

Credit Hours: 4

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.

Prerequisite(s): ARCH 1000

ARCH 1199 - Special Topics in Architecture

Credit Hours: 1-6

Studies in special selected topics, to be determined by the instructor and approved by the department chairperson. Repeatable Credits earned will be applicable as free electives in degree and certificate programs.

ARCH 2000 - Design I: Foundation

Credit Hours: 4

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.

Prerequisite(s): ARCH 1050

Corequisite(s): ARCH 2060

ARCH 2010 - Architectural History I

Credit Hours: 3

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

Credit Hours: 3

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.

Prerequisite(s): ENGL 1102 and ARCH 2010

ARCH 2050 - Design II: Foundation

Credit Hours: 4

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.

Prerequisite(s): ARCH 2000

ARCH 2060 - Building Technology I

Credit Hours: 4

Students will study practices utilized in the erection of residential buildings including architectural materials, methods and use, and structural, mechanical, and electrical systems.

Corequisite(s): ARCH 1000

ARCH 3000 - Design III: Site

Credit Hours: 6

This course is a continuation of the design sequence, emphasizing synthesizing pragmatic issues of the site, context, and envelope with basic design theory.

Prerequisite(s): ARCH 2050, ARCH 2020

ARCH 3001 - Community Design Assistance Center

Credit Hours: 3

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

Prerequisite(s): Instructor Approval

ARCH 3010 - Sustainable Design

Credit Hours: 3

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.

Prerequisite(s): Junior Standing

ARCH 3050 - Design IV: Urban

Credit Hours: 6

This course explores architectural design within the urban setting. Topics Include urban design, historic preservation and the social impact of the built environment.

Prerequisite(s): ARCH 3000

ARCH 3060 - Architecture Portfolio

Credit Hours: 3

This course explores the methodology of creating professional and academic portfolios for Architecture students.

ARCH 3080 - Architectural Practice Program I

Credit Hours: 1-3

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

Prerequisite(s): Instructor Approval

ARCH 3085 - Architecture Study + Travel

Credit Hours: 3

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

Prerequisite(s): Instructor Approval

ARCH 3399 - Special Topics in Architecture

Credit Hours: 1-6

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. Repeatable Credits earned will be applicable as free electives in degree and certificate programs.

ARCH 4000 - Design V: Technology

Credit Hours: 6

This course encompasses integrated design, synthesizing building systems, sustainable principles and a more complete approach to planning and design of commercial buildings.

Prerequisite(s): ARCH 3050

ARCH 4001 - Community Design Assistance Center-Management

Credit Hours: 3

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 nonprofit community organizations and groups. Student interns share an expanded role in project management and leadership. Repeatable

Prerequisite(s): ARCH 3001 and Instructor Approval

ARCH 4030 - Mechanical and Electrical Systems

Credit Hours: 4

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.

Corequisite(s): ARCH 4050

ARCH 4050 - Design VI: Build

Credit Hours: 6

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.

Prerequisite(s): ARCH 4000

ARCH 4060 - Building Technology II

Credit Hours: 4

This course investigates the building envelope, and select building systems explored through the creation of a set of working drawings for a commercial building.

Prerequisite(s): ARCH 2060

Corequisite(s): ARCH 4000

ARCH 4080 - Architectural Practice Program II

Credit Hours: 1-3

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

Prerequisite(s): ARCH 3080 and Instructor Approval

ARCH 4998 - Special Topics in Architecture

Credit Hours: 0-6

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. Repeatable Restrictions: Sophomore-Senior Level

Prerequisite(s): Instructor approval required

Art

ART 1120 - Art Appreciation

Credit Hours: 3

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. Course is transferable as general studies credit to all other state institutions of higher education in West Virginia for credit with the grade earned.

Transferable Core Curriculum Course
ART 1120~

ART 1140 - Design I: 2D

Credit Hours: 3

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

Credit Hours: 3

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

Credit Hours: 3

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

Credit Hours: 1-12

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

Credit Hours: 3

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

Credit Hours: 3

Drawing from the posed model, accompanied by analytical studies of anatomy. When Offered: Spring semester only

Prerequisite(s): ART 1140 and ART 1142

ART 2245 - E. Foundations

Credit Hours: 3

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. When Offered: Offered Fall and Spring

ART 2261 - Painting I: Foundations of Painting

Credit Hours: 3

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.

Prerequisite(s): ART 1140 and ART 1142

ART 2262 - Painting II: Intermediate Painting

Credit Hours: 3

Painting II continues concepts taught in Painting I. Students work to solve more complex formal, technical, expressive and theoretical problems. When Offered: Spring semester only Restrictions: Studio Art and Art Education majors only.

Prerequisite(s): ART 2241 and ART 2261

ART 2283 - Sculpture I: Foundations of Sculpture

Credit Hours: 3

This introductory course in sculpture explores materials, tools, techniques and design principles related to the creation of three dimensional objects.

Prerequisite(s): ART 1141

ART 2284 - Sculpture II

Credit Hours: 3

Advanced work in various sculptural media: metal casting, carving, constructions, etc.

Prerequisite(s): ART 2283

ART 3341 - Printmaking I

Credit Hours: 3

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.

Prerequisite(s): ART 1140 and ART 1142

ART 3342 - Printmaking II

Credit Hours: 3

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.

Prerequisite(s): ART 3341

ART 3345 - E. Intermediate

Credit Hours: 3

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.

Prerequisite(s): ART 2245

ART 3350 - Elementary Art Education

Credit Hours: 3

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.

Prerequisite(s): Admittance into the School of Education

ART 3352 - Arts Integration in the Elementary Classroom

Credit Hours: 3

This course is designed to prepare preservice teacher candidates to integrate the fine arts across the elementary general education curriculum through an interdisciplinary approach. It includes a study of philosophies, methods, materials, and assessments relative to art and music that help promote student learning and success across the content areas. Students will develop an understanding of research and science relative to the impact of the fine arts on child growth and development, learning, and its impact on students with special needs.

Prerequisite(s): Admission to Teacher Education

ART 3360 - Early and Middle Methods and Materials

Credit Hours: 4

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. Restrictions: ART Majors only.

ART 3363 - Intermediate Water Media I

Credit Hours: 3

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. When Offered: Fall semester only

Prerequisite(s): ART 1141, ART 2241

ART 3374 - Art History from Prehistory to 1450

Credit Hours: 3
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. When Offered: Offered once every year

Prerequisite(s): ENGL 1102

ART 3376 - Art History from 1450 to 1750

Credit Hours: 3
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. When Offered: Offered once every year

Prerequisite(s): ENGL 1102

ART 3378 - Art History from 1750 to 1950

Credit Hours: 3
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. When Offered: Offered once every year

Prerequisite(s): ENGL 1102

ART 3380 - Art History since 1950

Credit Hours: 3
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. When Offered: Offered once every year

Prerequisite(s): ENGL 1102

ART 3383 - Pottery I

Credit Hours: 2-3
Introduction to basic ceramic techniques such as hand construction, the potter's wheel, and glazing.

ART 3384 - Pottery II

Credit Hours: 2-3
Advanced work in ceramics, glaze theory, and kiln firing.

Prerequisite(s): ART 3383

ART 4431 - Methods and Materials in Teaching Art

Credit Hours: 3
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.

Prerequisite(s): ART 3360 PPST (passing score)

ART 4445 - E. Advanced

Credit Hours: 3
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.

Prerequisite(s): ART 3345

ART 4463 - Advanced Painting Concepts

Credit Hours: 3
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. Restrictions: Studio Art and Art Education majors only.

Prerequisite(s): ART 2262 Instructor approval required

ART 4464 - Pottery III

Credit Hours: 3
The student is permitted to select the medium and then explore all the technical and creative possibilities that it permits.

Prerequisite(s): ART 3384

ART 4465 - Sculpture III

Credit Hours: 3

The student is permitted to select the medium and then explore all the technical and creative possibilities that it permits.

Prerequisite(s): ART 2284

ART 4467 - Area Studies I

Credit Hours: 3

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. Restrictions: Studio Art, Art Education, majors only.

Prerequisite(s): Completion of at least one 3000 level course in the medium that the student selects Instructor approval required

ART 4468 - Area Studies II

Credit Hours: 3

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. Restrictions: Studio Art, Art Education, majors only.

Prerequisite(s): Completion of at least one 3000 level course in the medium that the student selects Instructor approval required

ART 4469 - Area Studies III

Credit Hours: 3

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 Restrictions: Studio Art, Art Education, majors only.

Prerequisite(s): Instructor approval required ART 4467 or ART 4468

ART 4471 - Capstone Experience in Art

Credit Hours: 3

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. Restrictions: Studio Art and Art Education majors only.

Prerequisite(s): Instructor approval required

ART 4472 - Virtual Exhibition

Credit Hours: 3

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. Restrictions: Cross-Media Studio Art majors only.

Prerequisite(s): Instructor approval required

ART 4998 - Undergraduate Research

Credit Hours: 0-6

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. Repeatable

Prerequisite(s): Sophomore-Senior Level Art and Studio Art Majors only Instructor approval required

Aviation Administration

AVMA 1100 - Introduction to Aviation

Credit Hours: 3

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

Credit Hours: 3

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

Credit Hours: 3

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.

Prerequisite(s): AVMA 1100

AVMA 1103 - Private Pilot Technology Flight Lab

Credit Hours: 3

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

Credit Hours: 3

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. Must have a "C" grade or better to pass. Restrictions: Aviation or Homeland Security majors only.

Prerequisite(s): Major in Homeland Security.

AVMA 1189 - Guided Experience I

Credit Hours: 1-4

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. May be repeated for up to 4 hours Credits earned may be applied as free electives in degree or certificate programs.

Prerequisite(s): Instructor approval required

AVMA 1199 - Special Topics.

Credit Hours: 1-12

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

Credit Hours: 3

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.

Prerequisite(s): Private Pilot certification or Instructor Permission

AVMA 2204 - Instrument Pilot Technology Flight Lab

Credit Hours: 3

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. Must have a "C" grade or better to pass. This course requires additional fees to be paid for flight instruction and

simulator time. The Aviation Fees schedule is published elsewhere in this catalog.

Prerequisite(s): Private Pilot certification

AVMA 2206 - Aviation Security

Credit Hours: 3

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. Must have a "C" grade or better to pass. Restrictions: Aviation or Homeland Security majors only.

Prerequisite(s): Major in Homeland Security or Pre-Homeland Security.

AVMA 2210 - Aviation Meteorology

Credit Hours: 3

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

Credit Hours: 3

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

Credit Hours: 3

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

Credit Hours: 3

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

Credit Hours: 3

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. Restrictions: Aviation or Homeland Security majors only.

AVMA 2230 - Certified Flight Instructor

Credit Hours: 3

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

Credit Hours: 3

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 will be completed under FAA Regulations, Part 61. This course requires additional fees to be paid for flight instruction and simulator time. For flight hours and cost, please consult with the Flight Manager or Chief.

AVMA 2289 - Guided Experience II.

Credit Hours: 1-4

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. May be repeated for up to 4 hours Credits earned may be applied as free electives in degree or certificate programs.

Prerequisite(s): Instructor approval required

AVMA 2299 - Special Topics.

Credit Hours: 1-12

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

Credit Hours: 3

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.

Prerequisite(s): Private Pilot and Instrument Pilot certifications or Instructor approval required

AVMA 3301 - Aviation History

Credit Hours: 3

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.

Prerequisite(s): ENGL 1102

AVMA 3302 - Aviation Law

Credit Hours: 3

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. Same Course As:

AVMA 2202 for Homeland Security Aviation Track Majors

Prerequisite(s): ENGL 1102

AVMA 3303 - Airline Operations

Credit Hours: 3

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. Same Course As: AVMA 2203 for Homeland Security Aviation Track Majors

Prerequisite(s): ENGL 1102

AVMA 3304 - Aviation Maintenance Management

Credit Hours: 3

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.

Prerequisite(s): ENGL 1102

AVMA 3305 - General Aviation Operations

Credit Hours: 3

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. Same Course As: AVMA 2205 for Homeland Security Aviation Track Majors

Prerequisite(s): ENGL 1102

AVMA 3306 - Commercial Pilot Technology Flight Lab

Credit Hours: 3

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.

Prerequisite(s): Private Pilot and Instrument Pilot certifications or Instructor approval required

AVMA 3307 - Aviation Safety

Credit Hours: 3

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. Restrictions: Baccalaureate majors only.

Prerequisite(s): ENGL 1102

AVMA 3399 - Special Topics.

Credit Hours: 1-12

A study of special topics of educational, technical or industrial concern.

Prerequisite(s): Instructor approval required

AVMA 4401 - Aviation Industry Research and Analysis

Credit Hours: 3

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.

Prerequisite(s): Instructor approval required

AVMA 4402 - Fiscal Aspects of Aviation Management

Credit Hours: 3

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.

Prerequisite(s): ENGL 1102

AVMA 4403 - Aviation Project

Credit Hours: 1-4

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

Credit Hours: 3

An in-depth study of the inspection and repair of aircraft composite structures. Restrictions: Baccalaureate majors only.

AVMA 4405 - Advanced Non-Destructive Testing

Credit Hours: 3

A detailed study of non-destructive testing methods used on aircraft. This course prepares the student for ASNT Level I certification. Restrictions: Baccalaureate majors only.

AVMA 4411 - Aviation Industry Internship

Credit Hours: 3

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.

Prerequisite(s): Junior or Senior Level attainment
Instructor approval required

AVMA 4499 - Special Topics

Credit Hours: 1-12

A study of special topics of educational, technical or industrial concern.

Prerequisite(s): Instructor approval required

AVMA 4998 - Undergraduate Research

Credit Hours: 0-6

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. Repeatable Restrictions: Sophomore-Senior Level

Prerequisite(s): Instructor approval required

Biology

BIOL 1104 - Biosphere

Credit Hours: 4

Lecture/Lab Hours: 4 hours of lecture/ discussion/activities per week

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.

Prerequisite(s): Elementary Education majors only.

BIOL 1105 - Biological Principles I

Credit Hours: 4

Lecture/Lab Hours: 3 hours of lecture and one 3-hour laboratory per week

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. When Offered: Fall semester only
Course is transferable as general studies credit to all other state institutions of higher education in West Virginia for credit with the grade earned.

Transferable General Studies Course
BIOL 1105~

BIOL 1106 - Biological Principles II

Credit Hours: 4

Lecture/Lab Hours: 3 hours of lecture and one 3-hour laboratory per week

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. When Offered: Spring semester only
Course is transferable as general studies credit to all other state institutions of higher education in West Virginia for credit with the grade earned.

Transferable General Studies Course
BIOL 1106~

BIOL 1180 - Human Anatomy and Physiology (lecture)

Credit Hours: 3

Lecture/Lab Hours: Three hours of lecture per week
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.

BIOL 1181 - Human Anatomy and Physiology (lab)

Credit Hours: 1

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

Credit Hours: 1-4

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

Credit Hours: 4

Lecture/Lab Hours: 3 hours of lecture and one 3-hour laboratory per week

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. When Offered: Spring semester only

Prerequisite(s): BIOL 1105 and BIOL 1106 with a C or better

BIOL 2203 - General Zoology

Credit Hours: 4

Lecture/Lab Hours: 3 hours of lecture and one 3-hour laboratory per week

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. When Offered: Fall semester only

Prerequisite(s): BIOL 1105 and BIOL 1106 with a C or better

BIOL 2205 - Technical Microbiology (Lecture)

Credit Hours: 3

Lecture/Lab Hours: 3 hours of lecture per week

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.

BIOL 2206 - Technical Microbiology (lab)

Credit Hours: 1

Lecture/Lab Hours: One two-hour lab per week

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.

BIOL 2224 - Microbiology

Credit Hours: 4

Lecture/Lab Hours: 3 hours of lecture and one 3-hour laboratory session per week

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. When Offered: Offered on rotation See Biology program website for rotation schedule

Prerequisite(s): BIOL 1105 and BIOL 1106 with a "C" or better, and CHEM 1105

BIOL 3301 - Advanced Human Anatomy and Physiology I

Credit Hours: 4

Lecture/Lab Hours: 3 hours of lecture and one 3-hour laboratory per week

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. When Offered: Offered on rotation in the Fall semester only See Biology program website for rotation schedule

Prerequisite(s): BIOL 1106 and either BIOL 2203, FORS 3201, or permission of the instructor

BIOL 3302 - Advanced Human Anatomy and Physiology II

Credit Hours: 4

Lecture/Lab Hours: 3 hours of lecture and one 3-hour laboratory per week

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 systemsbased approach in learning the human body. BIOL 3302 will cover the following systems: cardiovascular, respiratory, lymphatic, digestive, urinary, and reproductive. When Offered: Offered on rotation in the Spring semester only See Biology program website for rotation schedule

Prerequisite(s): BIOL 3301 with a C or better or permission of the instructor

BIOL 3306 - Fundamentals of Ecology

Credit Hours: 4

Lecture/Lab Hours: 3 hours of lecture and one 3-hour laboratory per week

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. When Offered: Fall semester only

Prerequisite(s): BIOL 2202 and BIOL 2203, with a C or better, and CHEM 2200

BIOL 3312 - Advanced Botany I

Credit Hours: 4

Lecture/Lab Hours: 3 hours of lecture and one 3-hour laboratory per week

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. Lab activities include several off-campus field trips and each student will be required to complete a plant collection project for the FWVA Herbarium. When Offered: Offered on rotation See Biology program website for rotation schedule

Prerequisite(s): BIOL 2202 with a C or better

BIOL 3315 - Invertebrate Zoology

Credit Hours: 4

Lecture/Lab Hours: The course has 3 hours of lecture and 1 three hour lab per week

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. When Offered: Offered on rotation See Biology program website for rotation schedule

Prerequisite(s): BIOL 2202 and BIOL 2203 with a C or better, and CHEM 2200

BIOL 3316 - Vertebrate Zoology

Credit Hours: 4

Lecture/Lab Hours: 3 hours of lecture and one 3-hour laboratory per week

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. When Offered: Offered on rotation See Biology program website for rotation schedule

Prerequisite(s): BIOL 2203 with a C or better

BIOL 3330 - Aquatic Ecology

Credit Hours: 4

Lecture/Lab Hours: 3 hours of lecture and one 3-hour laboratory per week

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. When Offered: Offered on rotation See Biology program website for rotation schedule

Prerequisite(s): BIOL 3306 with a C or better

BIOL 3331 - Terrestrial Ecology

Credit Hours: 4

Lecture/Lab Hours: 3 hours of lecture and one 3-hour laboratory per week

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. When Offered: Offered on rotation See Biology program website

for rotation schedule

Prerequisite(s): BIOL 3306 with a C or better

BIOL 3360 - Biochemistry

Credit Hours: 4

Lecture/Lab Hours: 3 hours lecture and one 3-hour laboratory per week

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. When Offered: Spring semester only

Prerequisite(s): MATH 2501

BIOL 3368 - Animal Physiology

Credit Hours: 4

Lecture/Lab Hours: 3 hours of lecture and one 3-hour lab per week

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. When Offered: Offered on rotation See Biology program website for rotation schedule

Prerequisite(s): BIOL 2203 with a C or better, CHEM 2200

BIOL 3370 - Plant Physiology

Credit Hours: 4

Lecture/Lab Hours: 3 hours of lecture and one 3-hour laboratory per week

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. When Offered: Offered on rotation See Biology program website for rotation schedule

Prerequisite(s): BIOL 2202 with a C or better, and CHEM 2200

BIOL 3380 - Genetics

Credit Hours: 4

Lecture/Lab Hours: 3 hours of lecture and one 3-hour laboratory session per week

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. When Offered: Fall semester only

Prerequisite(s): CHEM 2200, BIOL 1105 and BIOL 1106

BIOL 3390 - Molecular Biotechnology

Credit Hours: 4

Lecture/Lab Hours: 3 hours of lecture and one 3-hour laboratory per week

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. When Offered: Spring semester only

Prerequisite(s): ENGL 1102, BIOL 3380, CHEM 2201, and MATH 2501

BIOL 3395 - Cell Biology

Credit Hours: 4

Lecture/Lab Hours: It consists of three one-hour lectures and one 1-hour activity per week

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. When Offered: Offered on rotation in the spring semester only See Biology program website for rotation schedule

Prerequisite(s): BIOL 1106 and CHEM 2200

BIOL 4420 - Developmental Biology

Credit Hours: 4

Lecture/Lab Hours: 3 hours of lecture and one 3-hour laboratory per week

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. When Offered: Offered on rotation See Biology program website for rotation schedule

Prerequisite(s): BIOL 2202 and BIOL 2203 with a C or better

BIOL 4485 - Senior Seminar

Credit Hours: 2

Lecture/Lab Hours: Two hours of class meeting per week

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. When Offered: Spring semester only

Prerequisite(s): Senior standing

BIOL 4495 - Problems in Biological Sciences

Credit Hours: 2

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.

Prerequisite(s): 20 hours of biological courses and Instructor approval required

BIOL 4998 - Undergraduate Research

Credit Hours: 0-6

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. Repeatable Restrictions: Sophomore-Senior Level

Prerequisite(s): Instructor approval required

(Business) Information Systems Management

BISM 1200 - Introduction to Computing

Credit Hours: 3

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 1500 - Business Information Tools

Credit Hours: 3

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. Same Course As: BISM 2200

Prerequisite(s): BISM 1200, and Math ACT score of 19 or MATH 1430 or higher, or instructor permission

BISM 2000 - Management Information Systems

Credit Hours: 3

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. Same Course As: BISM 3200

Prerequisite(s): BISM 1500

BISM 2400 - Operating Systems Concepts Across the Enterprise

Credit Hours: 3

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.

Prerequisite(s): BISM 1200

BISM 2600 - Introduction to Networking Administration

Credit Hours: 3

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.

Prerequisite(s): BISM 1200

BISM 3000 - Business Programming Logic

Credit Hours: 3

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.

Prerequisite(s): BISM 1500

BISM 3300 - Information Systems and Data Analytics for Leaders

Credit Hours: 3

This course provides an overview of information systems and data analytics as related to decision-making in a business context. This course is intended to be used as a breadth-first introductory course for majors and non-majors. Topics include: an overview of descriptive, predictive, and prescriptive analytics; types and sources of data; big data concepts; data visualization; strategic data-driven decision-making; and future trends and ethical considerations.

BISM 3400 - Database Design and Development

Credit Hours: 3

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.

Prerequisite(s): BISM 1500

BISM 3500 - Fundamentals of SDLC Methodologies

Credit Hours: 3

Systems analysis is the methodology for studying a procedure or business in order to identify its goals and purposes and create systems and procedures that will achieve them in an efficient way. In this course students will be introduced to the broad field of systems development and get a basic understanding for all the various approaches that can be taken to deploy and operate a safe, reliable, and secure system. Topics covered include the various development life cycle methodologies (with a

focus on agile methodologies), requirements collection and analysis, logical and physical information flow modeling, a variety of system development methodologies, data modeling, object oriented analysis and modeling utilizing Unified Modeling Language (UML).

Prerequisite(s): BISM 2000 , BISM 3000

BISM 3600 - E-commerce and Web Development Strategy

Credit Hours: 3

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.

Prerequisite(s): BISM 3000, BISM 2000, BISM 3400

BISM 3800 - Object-oriented Business Applications

Credit Hours: 3

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.

Prerequisite(s): BISM 3000

BISM 4000 - Global, Economic, Ethical, and Social Information Systems

Credit Hours: 3

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.

Prerequisite(s): BISM 2800 , BISM 2000

BISM 4200 - Systems Analysis and Design

Credit Hours: 3

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.

Prerequisite(s): BISM 2600, BISM 3600, BISM 3800

BISM 4300 - Business Intelligence

Credit Hours: 3

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.

Prerequisite(s): Instructor Approval

BISM 4400 - Current Topics in Information Systems

Credit Hours: 3

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.

Prerequisite(s): BISM 2000

BISM 4500 - Information Systems Project Planning

Credit Hours: 3

This course explores best practices in project management planning with respect to technical projects. Concepts covered include Project Management Initiation and Planning process groups and relevant Knowledge Management areas as defined by the Project Management Body of Knowledge (PMBOK). Student teams apply project management tools and techniques to formally plan an information systems-related project with an emphasis on required project management documentation.

Prerequisite(s): MGMT 3500

Corequisite(s): BISM 4200

BISM 4600 - Information Assurance and Cybersecurity

This course is an introduction to information assurance and cyber security, providing a breadth of knowledge and skills that covers a wide domain. The intent is to introduce a wide-variety of topics relative to information assurance and cyber security and drill down into one specific topic to provide a basic understanding of the Risk Management Framework (RMF) as it pertains to the systems development life cycle (SDLC). Students will learn how to use this understanding during the development, management, assessment and continuous monitoring of information systems.

Prerequisite(s): BISM 4200

BISM 4800 - Information Systems Project Management

Credit Hours: 3

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.

Prerequisite(s): MGMT 3500, BISM 4200

BISM 4900 - Internship in Information Systems

Credit Hours: 3

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.

Prerequisite(s): Instructor Approval

BISM 4998 - Undergraduate Research

Credit Hours: 0-6

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. Repeatable Restrictions: Sophomore-Senior Level

Prerequisite(s): Instructor approval required

Business Administration

BSBA 1100 - Business OnBoarding Course

Credit Hours: 3

The purpose of this course is to help students make the transition into college learning, while discovering diverse business environments. Students will begin to learn essential skills such as professional communication, interdependence learning, academic planning, and career development. In addition, students in this course will learn to cultivate personal growth and strong interpersonal connections.

BSBA 2200 - Economics

Credit Hours: 3

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. Course is transferable as general studies credit to all other state institutions of higher education in West Virginia for credit with the grade earned.

Transferable General Studies Course
BSBA 2200~#

BSBA 2201 - Principles of Accounting I

Credit Hours: 3

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

Credit Hours: 3

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.

Prerequisite(s): BSBA 2201

BSBA 2204 - Principles of Marketing

Credit Hours: 3

A study of those business activities that direct the flow of goods and services from producers to consumers.

BSBA 2209 - Principles of Management

Credit Hours: 3

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

Credit Hours: 3

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. Course is transferable as general studies credit to all other state institutions of higher education in West Virginia for credit with the grade earned.

Transferable General Studies Course
BSBA 2211~#

BSBA 2212 - Principles of Microeconomics

Credit Hours: 3

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.

Prerequisite(s): BSBA 2211

BSBA 2220 - Fundamentals of Accounting

Credit Hours: 3

This course introduces financial and managerial accounting including the accounting cycle, financial statement analysis, budgeting, cost-volume-profit analysis, internal reporting and decision-making.

BSBA 2221 - Introduction to Financial Management

Credit Hours: 3

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.

Prerequisite(s): BSBA 2201

BSBA 2800 - Business Communications in a Digital Age

Credit Hours: 3

Students in this course study the principles, strategies, and techniques of effective contemporary written, oral, and digital business communication. Emphasis is placed on reviewing grammar and mechanics as students create successful presentations and written messages including e-mails, memos, letters, mobile and social posts, reports, and résumés. Students learn productive techniques for business meetings, presentations, and interviews, as well as communicating professionally in an increasingly global, digital, and mobile workplace.

Prerequisite(s): BISM 1200 and ENGL 1102 or ENGL 1103

BSBA 3306 - Business Law I

Credit Hours: 3

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

Credit Hours: 3

Continuation of BSBA 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.

Prerequisite(s): BSBA 3306

BSBA 3310 - Business and Economic Statistics.

Credit Hours: 3

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.

Prerequisite(s): MATH 1430 or higher

BSBA 3320 - International Business

Credit Hours: 3

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.

Prerequisite(s): BSBA 2209, BSBA 2204, BSBA 2211

BSBA 3322 - Managing Business in Europe

Credit Hours: 3

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.

Prerequisite(s): With Instructor Approval

BSBA 3325 - Women and Work

Credit Hours: 3

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.

Prerequisite(s): ENGL 1102, COMM 2201, COMM 2202 or COMM 2200

BSBA 3330 - Leadership

Credit Hours: 3

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.

Prerequisite(s): ENGL 1102 (with a grade of a "C" or better) and BSBA 2209

BSBA 3399 - Special Topics in Business

Credit Hours: 1-6

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.

Prerequisite(s): Instructor approval required

BSBA 4408 - Business and Economics Field Studies

Credit Hours: 3

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.

Prerequisite(s): Instructor approval required, with approval of the School Dean

BSBA 4415 - Strategic Management and Policy

Credit Hours: 3

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.

Prerequisite(s): BSBA 3310 and BSBA 3320, BISM 2000 and senior standing

BSBA 4420 - Business Ethics and Corporate Accountability

Credit Hours: 3

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.

Prerequisite(s): BSBA 3320 and BISM 2000 or HCMG 3333

BSBA 4440 - Hospitality Management Internship

Credit Hours: 3

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. Graded Credit/No Credit.

Prerequisite(s): Instructor approval required, with approval of School Dean

BSBA 4450 - Business Internship

Credit Hours: 3-6

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. Graded Credit/No Credit.

Prerequisite(s): Instructor approval required, with approval of School Dean

BSBA 4998 - Undergraduate Research

Credit Hours: 0-6

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. Repeatable Restrictions: Sophomore-Senior Level

Prerequisite(s): Instructor approval required

Chemistry

CHEM 1101 - General Chemistry

Credit Hours: 4

Lecture/Lab Hours: 3 lectures and one 3-hour laboratory per week

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. Course is transferable as general studies credit to all other state institutions of higher education in West Virginia for credit with the grade earned.

Prerequisite(s): 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

Transferable General Studies Course
CHEM 1101~

CHEM 1102 - General Chemistry II

Credit Hours: 4

Lecture/Lab Hours: The course consists of 3 hours of lecture and one 3-hour laboratory per week

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. When Offered: Spring semester only Course is transferable as general studies credit to all other state institutions of higher education in West Virginia for credit with the grade earned.

Prerequisite(s): CHEM 1101

Transferable General Studies Course

CHEM 1105 - Chemical Principles

Credit Hours: 5

Lecture/Lab Hours: 4 hours of lecture and one 3-hour laboratory per week

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., premedical, pre-dental, pre-pharmacy, etc.). When Offered: Fall semester only

Prerequisite(s): 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

Transferable General Studies Course

^CHEM 1105~

CHEM 1199 - Special Topics in Chemistry

Credit Hours: 1-12

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

Credit Hours: 4

Lecture/Lab Hours: 3 hours of lecture and one 3-hour

laboratory per week

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.). When Offered: Spring only

Prerequisite(s): CHEM 1105

CHEM 2201 - Organic Chemistry I

Credit Hours: 4

Lecture/Lab Hours: 3 hours of lecture and one 3-hour laboratory per week

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. When Offered: Fall semester only

Prerequisite(s): CHEM 2200

CHEM 2202 - Organic Chemistry II

Credit Hours: 4

Lecture/Lab Hours: 3 hours of lecture and one 3-hour laboratory per week

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. When Offered: Spring Semester only

Prerequisite(s): CHEM 2201

CHEM 2205 - Analytical Chemistry

Credit Hours: 4

Lecture/Lab Hours: 3 hours of lecture and one 3-hour laboratory per week

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. When Offered: Spring semester only

Prerequisite(s): CHEM 1105

CHEM 3301 - Physical Chemistry I

Credit Hours: 4

Lecture/Lab Hours: 3 hours of lecture and one 3-hour laboratory per week

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. When Offered: Fall semester only

Prerequisite(s): CHEM 2200, ENGL 1102, MATH 2501, PHYS 1101 or PHYS 1105

CHEM 3304 - Inorganic Chemistry

Credit Hours: 4

Lecture/Lab Hours: 3 hours of lecture and one 3-hour laboratory per week

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. When Offered: Fall semester only

Prerequisite(s): CHEM 2200

CHEM 3315 - Instrumental Analysis

Credit Hours: 4

Lecture/Lab Hours: The course consists of two hours of lecture and one four-hour laboratory per week. 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. When Offered: Fall semester only

Prerequisite(s): CHEM 2200, CHEM 2205, PHYS 1102 or PHYS 1106

CHEM 4401 - Independent Study

Credit Hours: 1-3

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.

Prerequisite(s): Instructor approval required

CHEM 4402 - Internship

Credit Hours: 1-3

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.

Prerequisite(s): Instructor approval required

CHEM 4403 - Independent Research

Credit Hours: 1-3

Lecture/Lab Hours: At least two hours in the laboratory are expected for every credit.

Independent research under the direction of a faculty member. A paper describing the research is required. Course is repeatable up to three times.

Prerequisite(s): Instructor approval required

CHEM 4404 - Synthetic Methods and Materials

Credit Hours: 4

Lecture/Lab Hours: 2 hours of lecture and one 4-hour laboratory per week

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. When Offered: Fall semester only, even years

Prerequisite(s): CHEM 2202, CHEM 3304

CHEM 4412 - Physical Chemistry II

Credit Hours: 4

Lecture/Lab Hours: 3 hours of lecture and one 3-hour laboratory per week

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. When Offered: Spring semester, even years only

Prerequisite(s): CHEM 3301, MATH 2502, PHYS 1102 or PHYS 1106

CHEM 4998 - Undergraduate Research

Credit Hours: 0-6

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. Repeatable Restrictions: Sophomore-Senior Level

Prerequisite(s): Instructor approval required

Civil Engineering Technology

CIVL 1100 - Introduction to Civil Engineering Technology

Credit Hours: 1

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.

Corequisite(s): CIVL 2210

CIVL 1199 - Special Topics in Civil Engineering Technology

Credit Hours: 1-12

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

Credit Hours: 3

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.

Corequisite(s): MATH 1510 or math equivalent

CIVL 2210 - Light Construction

Credit Hours: 4

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

Credit Hours: 4

Identification, properties and standard test methods for steel, concrete, timber, masonry products, bituminous products, soils and aggregate. Heavy construction methods are also discussed.

Prerequisite(s): CIVL 2210, MATH 1510 or math equivalent

CIVL 2230 - Construction Estimating

Credit Hours: 3

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.

Prerequisite(s): CIVL 2220

CIVL 2240 - Construction, Land and Route Surveying

Credit Hours: 3

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.

Prerequisite(s): CIVL 2200, COMM 2202, ENGL 1103

CIVL 2275 - Civil Engineering Graphics

Credit Hours: 3

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.

Prerequisite(s): TECH 1108

CIVL 2280 - Environmental Engineering Technology I

Credit Hours: 3

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.

Prerequisite(s): CHEM 1101

CIVL 2290 - Introduction to Structures

Credit Hours: 3

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.

Prerequisite(s): MECH 2200

CIVL 3305 - Hydraulics and Hydrology

Credit Hours: 3

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.

Prerequisite(s): TECH 2290 or MATH Equivalent, and CIVL 2280

CIVL 3340 - Introduction to Soil Mechanics

Credit Hours: 4

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.

Prerequisite(s): MECH 2200, MECH 2220, TECH 2290 or math equivalent

CIVL 4400 - Highway Design and Transportation

Credit Hours: 4

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. Restrictions: Baccalaureate majors only.

Prerequisite(s): CIVL 3340, ENGL 1103, TECH 3300 or MATH Equivalent

CIVL 4410 - Advanced Structural Analysis

Credit Hours: 3

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. Restrictions: Baccalaureate majors only.

Prerequisite(s): CIVL 2290, TECH 3300 or math equivalent

CIVL 4420 - Construction Planning and Administration

Credit Hours: 3

Introduction to construction management. Topics include construction planning and scheduling, economics, contracts, administration, health and safety, productivity and performance.

Prerequisite(s): CIVL 2230

CIVL 4440 - Structural Design

Credit Hours: 3

A continuation of CIVL 2290, with more in-depth design of reinforced concrete and steel structures.

Prerequisite(s): CIVL 2290

CIVL 4450 - Structures

Credit Hours: 3

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.

Prerequisite(s): CIVL 2220, MECH 2200

CIVL 4460 - Environmental Engineering Technology II

Credit Hours: 3

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. Restrictions: Baccalaureate majors only.

Prerequisite(s): CIVL 2280 and TECH 3300 or math equivalent

CIVL 4470 - Advanced Soil Mechanics and Foundation Design

Credit Hours: 3

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. Restrictions: Baccalaureate majors only.

Prerequisite(s): CIVL 3340

CIVL 4998 - Undergraduate Research

Credit Hours: 0-6

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. Repeatable Restrictions: Sophomore-Senior Level

Prerequisite(s): Instructor approval required

SURV 2200 - Professional Surveying Practices

Credit Hours: 3

This course will introduce the broad skills required of a surveyor in a business atmosphere. Topics include business plan formulation, basic financial forms and accounting, pricing and bidding projects, marketing, contracts and proposals, and project management. Additional topics include preparing boundary descriptions, preparing survey reports, professional ethics, in addition to dealing with and obtaining oral evidence from landowners and other persons, both clients and adjoiners. This course will also introduce working with legal professionals: interaction with and cooperation with attorneys, preparation for depositions and testimony, effectively conveying and defending survey opinions in court.

Corequisite(s): ENGL 1103

SURV 2210 - Interpreting Land Records

Credit Hours: 3

Course topics include obtaining and analyzing deeds, wills, plats and other recorded documents, including instruction and practice in reading archaic cursive writing in old documents. The course will also incorporate the practices of finding and using other evidence not generally found in courthouse records, including old and new aerial photographs, other photographs, highway and other right of way plans, and assorted archival material.

SURV 2220 - Surveying Engineering Graphics

Credit Hours: 3

This course will emphasize field to office data automation as well as the use of coordinate geometry software. Topics will include data analysis, data adjustment and mapping calculations of municipal and rural maps and drawings, drainage applications, plan and profile drawings, cross-sections, earthwork plats, legal descriptions, contour and topography generation, quantity calculators, and other details related to pertinent surveying technology drawings. Computeraided-drafting (CAD) with Carlson is used for drawings.

Prerequisite(s): TECH 1108

SURV 2230 - Land Survey Boundary

Credit Hours: 3

Topics include an overview of the basic concepts of boundary law and retracement, understanding the relative importance of different types of boundary evidence, and recognizing the often complex nature of boundary retracement.

SURV 2260 - Dendrology

Credit Hours: 3

Course provides an overview of tree taxa of the Appalachian Region. Topics include indigenous species identification, morphology, distribution, habitat and ecology. Students will gain knowledge on how morphology, life history, and ecology are related to habitat and distribution of woody plants.

SURV 2290 - Boundary Retracement

Credit Hours: 3

This class will continue with practical and in-depth instruction in the methods of recognizing and analyzing boundary evidence, and correlating record evidence with physical evidence. The class will also focus on applying logic and professional judgment in resolving conflicts between different aspects of the evidence, and reaching sound and defensible conclusions in the resolution of boundary issues.

SURV 3320 - Geodesy

Credit Hours: 3

This course will encompass the techniques of precise horizontal and vertical control surveying. Emphasis will be on practices of both government and private organizations. The use of directional theodolites, levels, and total station measurement is stressed. Topics include geometry of ellipsoids, coordinate systems, precise leveling and orthometric height, geodetic position computation and gravity field of earth.

Prerequisite(s): CIVL 2200

SURV 3340 - Principles of Photogrammetry

Credit Hours: 3

This course will provide an introduction to the advantages of photogrammetry, both as a mapping and planning tool. Topics include vertical photo geometry, scale, displacement due to relief and tilt, viewing and measuring, development of planimetric and topographic maps, flight planning and aerial triangulation.

Prerequisite(s): CIVL 2200

SURV 3380 - Topographic Surveying

Credit Hours: 3

Course will include the use of Global Positioning Systems (GPS) equipment in order to collect and create survey products in a computer aided drafting environment. Topics include geodetic horizontal and vertical datums, projection systems, datum transformations, and cadastral surveying as applied to the U.S. Public Land Survey System.

Prerequisite(s): CIVL 2240 SURV 2220

SURV 4400 - Surveying Internship

Credit Hours: 3

Students shall complete an advisor-approved surveying internship or co-op. Responsibilities must be in the field of surveying. (Baccalaureate majors only)

SURV 4420 - Surveying Practices and Decision Making

Credit Hours: 3

Students will learn to apply the principles of boundary retracement and boundary law using actual or virtual cases to develop skills in analyzing boundary evidence and making professional decisions, to enable students to begin developing the ability to analyze and resolve boundary issues.

Prerequisite(s): SURV 2200 , SURV 2290

SURV 4480 - Surveying Projects and Applications

Credit Hours: 3

This course is designed to serve as a capstone course for Surveying and Geomatics Engineering Technology majors. Students are required to successfully complete and approved senior project, with industry collaboration. This course requires both individual participation and teamwork in presentations, industry standards, and professional written communications.

Prerequisite(s): SURV 4420

Community Health Education

CHEP 1100 - Health Promotion

Credit Hours: 4

Students will explore the significance of each dimension of health and the reciprocal relationship between human health status and the environment. Various body systems and related health issues will be discussed. Students will learn how to be educated consumers of health information and how to advocate for health on behalf of their clients.

CHEP 1110 - Nutrition & Health Promotion

Credit Hours: 3

This course examines nutritional needs across the life cycle and in special populations. The course will also discuss challenges to healthy nutrition, including eating disorders and economic/geographical barriers. Students will develop a plan for healthy nutrition.

CHEP 2202 - Environmental Health

Credit Hours: 3

This course focuses on current environmental health issues such as population dynamics and interventions designed to modify the environment in order to improve communities as well as the impact of humans on their environment. Students examine 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.

CHEP 3000 - Epidemiology & Disease Etiology

This course examines the multi-causal issues that lead to disease. Disease types, tracking, diagnosis, methods of transmission, prevention, and treatment will be covered. Students are introduced to the scientific processes of health research. Students will analyze the causes of disease and assess disease progression in communities.

Prerequisite(s): CHEP 1100 OR PSYC 1101 OR SOCY 1110

CHEP 3320 - Behavior Change Theory

Credit Hours: 3

This course examines theories, models, and constructs related to personal, environmental, and population-based health risk and health enhancing behaviors. Students will apply course material to health promotion in a variety of settings.

Prerequisite(s): CHEP 3000 OR PSYC 1101 OR SOCY 1110

CHEP 3345 - Needs Assessment

Credit Hours: 3

The course assesses health-related needs, assets, and capacity in communities. Students will participate in data collection and analysis, as well as develop recommendations to promote health in the community.

Prerequisite(s): CHEP 3000

CHEP 3350 - Program Planning & Evaluation

Credit Hours: 3

This course examines the importance of health promotion programs. Students will design/tailor and implement programs to meet the needs of an identified community. Students will also participate in program evaluation and offer recommendations for improvement.

Prerequisite(s): CHEP 3000 , CHEP 3345

CHEP 3360 - Communication Techniques for Health Promotion

Credit Hours: 2

This course examines health communication, tailoring of health materials, using social media for health promotion, etc. Low health literacy and low reading literacy and their impact on health status are covered. Students apply the course material and develop health promotion materials related to a health topic of interest to them.

Prerequisite(s): CHEP 3000 OR PSYC 1101 OR SOCY 1110

CHEP 3399 - Special Topics

Credit Hours: 1-6

Studies in special selected topics will be determined by the instructor and approved by the department chair. Credits earned will be applicable as free electives in degree and certificate programs.

CHEP 4000 - Death, Dying, and Caretaking

Credit Hours: 3

This course examines theories surrounding life/death, grief/bereavement, and caregiving. Stress management and life-balance of formal and informal caretakers are covered. Additionally, the legal and political issues of death and caregiving are covered.

Prerequisite(s): PSYC 1101 OR SOCY 1110

CHEP 4001 - Disability, Communities, & Health

Credit Hours: 3

This course investigates the experiences and needs of

individuals with disabilities, health impairments, and/or chronic pain. Topics include how disabilities are defined, measured, perceived in society, health disparities/inequality, and emerging trends/topics of concern. Students investigate the challenges faced by individuals when navigating through society as well as ways communities can create a more inclusive environment.

Prerequisite(s): PSYC 1101 OR SOCY 1110

CHEP 4410 - Public Health Policy Seminar

Credit Hours: 2

This course provides a framework for identifying public health policy issues. Topics covered each semester will be tailored to current events while incorporating historical influences on current situations. Students will participate in advocacy for health education/promotion, discuss current and emerging health issues; explain how policy and/or systems change can promote or discourage health.

Prerequisite(s): Junior or Senior-Level Standing

CHEP 4440 - Health Research and Measurement Design

Credit Hours: 3

This course examines principles of research and measurement including research ethics, instrument construction, designing a study and an examination of concepts and strategies involved with assessment. Students identify a health topic of interest, determine what is currently known on the topic, and develop a research project to further the knowledge on the topic.

Prerequisite(s): CHEP 3320

CHEP 4445 - Health Research Implementation

Credit Hours: 3

This course investigates the concepts of project management, data collection, analysis methods, and designs used in health-related programs. Students collect data on a health topic of interest to them, analyze the data, and make recommendations for health promotion based on the findings.

Prerequisite(s): CHEP 4440

CHEP 4450 - Program Funding & Administration

Credit Hours: 3

Writing Intensive Course

This course provides an overview of securing funding for and managing of health promotion programs. Students will create a grant proposal and other materials necessary for managing a health promotion program.

Prerequisite(s): ENGL 1102 or higher and MATH 1407 or higher

CHEP 4480 - Community Health Capstone

Credit Hours: 4

This course serves as a review for the Community Health program. Topics include assessing and addressing community health needs, advocating for health, using behavior change theory to promote health, managing health promotion programs/research. Students will participate in class discussions, reflect on assigned readings and apply skills developed across courses to real-world, health-related situations. Students will also take practice exams that are aligned with various professional accreditation bodies in the health promotion field.

Prerequisite(s): CHEP 3350

CHEP 4490 - Community Health Internship

Credit Hours: 3

This course is a 120-hour, semester-long experience working directly with a community agency during the student's last semester. Specific goals will meet the needs of the agency in collaboration with the student and the course faculty. Expectations include implementing, administering, or managing a health education project, and serving as a health promotion/education resource person. Students also develop a portfolio showcasing their best work from the internship.

Prerequisite(s): CHEP 3350

CHEP 4495 - Directed Studies

Credit Hours: 1-6

This course allows students to work on individualized projects to further enhance their education in health promotion. Requirements and credit must be decided before registration through faculty mentor-student consultation. Examples include conducting an in-depth analysis of a health issue, completing an additional internship opportunity, or designing/adapting health promotion programs. Repeatable. Instructor approval required.

Prerequisite(s): Senior Level. Instructor approval.

CHEP 4498 - Undergraduate Research

Credit Hours: 0-6

Undergraduate research provides an opportunity for students to engage in scholarly activities. Under the faculty mentor's guidance, students will design and carry out the approved scholarly activities. The primary goal is for student scholars to conduct an inquiry or investigation that

makes an original, intellectual, or creative contribution to the discipline and which is shared in an appropriate venue. Sophomore-Senior Level, Repeatable. Instructor approval required.

Prerequisite(s): Junior- Senior Level. Instructor approval

Communication

COMM 1105 - Voice & Diction

Credit Hours: 3

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. When Offered: Fall semester only Restrictions: Open to communication and theatre arts and music students only.

COMM 1199 - Special Topics in Communication

Credit Hours: 1-12

Studies in special selected topics, to be determined by the instructor and approved by the School's Dean. Maximum credit allowed is 3 hours per semester, up to 12 hours total Credits earned will be applicable as free electives in degree and certificate programs.

COMM 2200 - Introduction to Human Communication

Credit Hours: 3

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. Satisfies General Studies category ID, IG, and IV requirement. Course is transferable as general studies credit to all other state institutions of higher education in West Virginia for credit with the grade earned.

Prerequisite(s): Completion of ENGL 1101 with a "C" or better or a Verbal ACT score of 21 or higher
Transferable General Studies Course
COMM 2200~

COMM 2201 - Introduction to Group Discussion

Credit Hours: 3

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. Satisfies General Studies category ID, IG, and IV requirement.

Prerequisite(s): Completion of ENGL 1101 with a "C" or better grade or a Verbal ACT score of 21 or higher

COMM 2202 - Introduction to Communication in the World of Work

Credit Hours: 3

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. Satisfies General Studies category IG and IV requirement.

Prerequisite(s): Completion of ENGL 1101 with a "C" or better or a Verbal ACT score of 21 or higher

COMM 2213 - Introduction to Communication Theory and Research Practices

Credit Hours: 3

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.

Prerequisite(s): ENGL 1102

COMM 2219 - Language in Communication

Credit Hours: 3

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. When Offered: Spring semester only

Prerequisite(s): COMM 2200, COMM 2201, or COMM 2202

COMM 2241 - Argumentation & Debate

Credit Hours: 3

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. When Offered: Fall semester only

Prerequisite(s): COMM 2200, COMM 2201, or COMM 2202

COMM 2249 - Intercollegiate Debate I-IV

Credit Hours: 1-4

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. Restrictions: Open to freshmen and sophomores. (Juniors and seniors, see COMM 4449.).

COMM 2250 - Sophomore Seminar

Credit Hours: 1

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. Restrictions: Open to communication arts majors and minors only.

COMM 3300 - Intercultural Communication

Credit Hours: 3

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.

Prerequisite(s): COMM 2200, COMM 2201, or COMM 2202

COMM 3320 - The Art of Storytelling in Theory and Practice

Credit Hours: 3

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. When Offered: Fall semester, odd-numbered years Same Course As: FOLK 3320 and THEA 3320

COMM 3330 - Organizational Communication

Credit Hours: 3

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.

Prerequisite(s): COMM 2200, COMM 2201, or COMM 2202

COMM 3337 - Persuasive Communication

Credit Hours: 3

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. When Offered: Fall semester only

Prerequisite(s): COMM 2241

COMM 3345 - Oratory

Credit Hours: 3

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. When Offered: Spring semester only

Prerequisite(s): COMM 3337

COMM 4420 - Contemporary Storytelling

Credit Hours: 3

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.

Prerequisite(s): COMM 2241 and BISM 2800

COMM 4439 - Public Speaking Practicum I-VIII

Credit Hours: 1-8

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

Credit Hours: 1-4

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
Restrictions: Open to juniors and seniors. (Freshmen and sophomores, see COMM 2249.)

COMM 4491 - Directed Study in Communication

Credit Hours: 1-3

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

Prerequisite(s): Instructor approval

COMM 4496 - Communication in Practice: Internship

Credit Hours: 3

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. Restrictions: Open to communication arts majors only.

COMM 4998 - Undergraduate Research

Credit Hours: 0-6

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

Prerequisite(s): Sophomore standing and above, instructor approval

Computer Science

COMP 1100 - Introduction to Computer Science

Credit Hours: 3

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

Credit Hours: 3

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.

Prerequisite(s): MATH ACT score of 19 or MATH SAT score of 500

COMP 1120 - Principles of Programming I

Credit Hours: 3

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.

Prerequisite(s): 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

Credit Hours: 4
Lecture/Lab Hours: The course consists of three hours of lecture and three hours of lab per week
This course covers arrays, searching/sorting, pointers, strings, recursion, and advanced file I/O. Programming projects are assigned in C++ to provide experience in implementing multi-part applications using these concepts.

Prerequisite(s): A grade of C or better in COMP 1120

COMP 1199 - Special Topics in Computer Science

Credit Hours: 1-12
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

Credit Hours: 3
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.

Prerequisite(s): A grade of C or better in COMP 1130

COMP 2201 - Machine Organization

Credit Hours: 3
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.

Prerequisite(s): A grade of C or better in COMP 1130

COMP 2203 - Introduction to Game Principles

Credit Hours: 3
This course is an introduction to basic principles of interactivity and game design. Asset creation, event handling, scores, displays, and sequencing are covered.

Same Course As: GRFX 2203

Prerequisite(s): GRFX 1113

COMP 2220 - Fundamentals of Computer Security

Credit Hours: 3
Lecture/Lab Hours: The course consists of three hours of lecture per week
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.

Prerequisite(s): COMP 1100 or COMP 1110 or COMP 1120 or BISM 1200

COMP 2230 - Client-Server Systems

Credit Hours: 3
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.

Prerequisite(s): A grade of C or better in COMP 2200

COMP 2270 - Data Structures

Credit Hours: 3
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.

Prerequisite(s): A grade of C or better in COMP 1130

COMP 2541 - Fundamentals of Data Science

Credit Hours: 3
This course covers mathematical structures crucial for data scientists. Topics include set theory, essentials of matrices, graphs and trees, and a treatment of some useful probability concepts. All topics will be paired with appropriate software. When Offered: Spring Same Course As: MATH 2541

Prerequisite(s): MATH 1550 AND COMP 1110

COMP 2542 - Applied Data Science

Credit Hours: 3
This course provides an overview of data science, introduces the different steps involved in data science, and provides the students hands-on experience with tools and

methods. Topics include data acquisition and cleaning, data processing, data organization and management, data analysis, data visualization, data warehousing, and data security/privacy. When Offered: Fall Same Course As: MATH 2542

Prerequisite(s): MATH 1550 and COMP 1110

COMP 3300 - Computer Graphics

Credit Hours: 3

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.

Prerequisite(s): COMP 2270 and MATH 2562

COMP 3310 - Artificial Intelligence

Credit Hours: 3

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.

Prerequisite(s): COMP 2270 and MATH 2562

COMP 3330 - Analysis of Algorithms

Credit Hours: 3

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.

Prerequisite(s): COMP 2270 and MATH 2562

COMP 3340 - Operating Systems

Credit Hours: 3

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.

Prerequisite(s): COMP 2201 and COMP 2270

COMP 3380 - Introduction to Cryptography

Credit Hours: 3

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.

Prerequisite(s): COMP 2270 and MATH 2562

COMP 3390 - Network Security

Credit Hours: 4

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.

Prerequisite(s): COMP 2220 and BISM 2600

COMP 3395 - Ethical Issues in Computing

Credit Hours: 3

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.

Prerequisite(s): COMP 1100 or COMP 1110 or COMP 1120 and ENGL 1102

COMP 4400 - Automata Theory

Credit Hours: 3

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.

Prerequisite(s): COMP 2270 and MATH 2562

COMP 4410 - Database Management

Credit Hours: 3

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.

Prerequisite(s): COMP 2270 and MATH 2562

COMP 4415 - Vulnerability Assessment

Credit Hours: 4

Lecture/Lab Hours: The course consists of three hours of lecture and two hours of lab per week

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.

Prerequisite(s): COMP 3390

COMP 4420 - Selected Advanced Topics

Credit Hours: 3

This course will address current topics of interest in computer science, to be determined by the instructor and approved by the department chair.

Prerequisite(s): Instructor approval required

COMP 4421 - Computer Science Special Project

Credit Hours: 3

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.

Prerequisite(s): Instructor approval required

COMP 4440 - Software Engineering

Credit Hours: 4

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.

Prerequisite(s): COMP 2200 and COMP 2270

COMP 4450 - Introduction to Data Mining

Credit Hours: 3

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.

Prerequisite(s): COMP 2270 and MATH 2562 **OR** COMP 2541/MATH 2541 and COMP 2542/MATH 2542

COMP 4460 - Game Design and Implementation

Credit Hours: 4

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. Same Course As: GRFX 4460

Prerequisite(s): COMP 1130, COMP 2203/GRFX 2203

COMP 4495 - Cybersecurity Senior Project

Credit Hours: 3

This course allows students to obtain real-world cybersecurity work experience through an internal project or through an internship with government or private organization.

Prerequisite(s): Instructor approval required

COMP 4510 - Data Science Capstone

Credit Hours: 3

The focus of this course is on preparing students for the workforce through a large-scale project generated either internally or through contacts with local or regional industry. In the process, students will learn about advanced Data Science topics like big data analysis, distributed data analytics, data warehousing, predictive modeling, and simulations.

When Offered: On demand. Same Course As: MATH 4510

Prerequisite(s): COMP 4450

COMP 4998 - Undergraduate Research

Credit Hours: 0-6

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. Repeatable Restrictions: Sophomore-Senior Level

Prerequisite(s): Instructor approval required

Criminal Justice

CRIM 1100 - Introduction to Criminal Justice

Credit Hours: 3

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

Credit Hours: 3

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

Credit Hours: 3

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

Credit Hours: 3

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

Credit Hours: 3

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.

Prerequisite(s): CRIM 1100

CRIM 2212 - Deviant Behavior

Credit Hours: 3

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

Credit Hours: 3

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.

Prerequisite(s): CRIM 1100

CRIM 2236 - Criminal Investigation

Credit Hours: 3

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.

Prerequisite(s): CRIM 1100

CRIM 2240 - Adjudication Process

Credit Hours: 3

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.

Prerequisite(s): CRIM 1100

CRIM 2246 - Criminal Evidence

Credit Hours: 3

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.

Prerequisite(s): CRIM 1100

CRIM 2250 - Cybercrime

Credit Hours: 3

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

Credit Hours: 3

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

Credit Hours: 3

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

Credit Hours: 3

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.

Prerequisite(s): CRIM 2206

CRIM 3305 - Changing Roles of Women in Criminal Justice

Credit Hours: 3

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

Credit Hours: 3

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

Credit Hours: 3

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

Credit Hours: 3

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

Credit Hours: 3

The study of deviant behavior as it relates to the definition of crime. Topics include crime statistics theories of crime causation and crime typologies.

Prerequisite(s): CRIM 1100

CRIM 3325 - Analysis of Security Operations

Credit Hours: 3

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

Credit Hours: 3

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.

Prerequisite(s): CRIM 1101

CRIM 3340 - Criminal Procedure

Credit Hours: 3

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.

Prerequisite(s): CRIM 1100, CRIM 1101

CRIM 3355 - Analysis of Correctional Operations

Credit Hours: 3

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.

Prerequisite(s): CRIM 2206

CRIM 3360 - Community-Based Corrections

Credit Hours: 3

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.

Prerequisite(s): CRIM 2206

CRIM 3365 - Licit and Illicit Drugs

Credit Hours: 3

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.

Prerequisite(s): CRIM 1100

CRIM 3370 - Economic Crime

Credit Hours: 3

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

Credit Hours: 3

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

Credit Hours: 3

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.

Credit Hours: 3

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

Credit Hours: 3

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

Credit Hours: 3

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. Same Course As: POLI 3395

Prerequisite(s): POLI 1100

CRIM 3399 - Special Issues in Criminal Justice

Credit Hours: 3-12

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

Credit Hours: 3

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. Same Course As: POLI 4400 and NSIS 4400

Prerequisite(s): ENGL 1102 Junior or Senior status

CRIM 4401 - Independent Study

Credit Hours: 1-12

Students involved in this course will conduct surveys and applied research projects as approved and supervised by a Criminal Justice faculty member. 1 credit hour, repeatable up to 12 hours

Prerequisite(s): Junior or Senior status

CRIM 4404 - Civil Liberties in the United States

Credit Hours: 3

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. Same Course As: POLI 4404

Prerequisite(s): POLI 1100

CRIM 4405 - Terrorism

Credit Hours: 3

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

Credit Hours: 3-12

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

Credit Hours: 3

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

Credit Hours: 3

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.

Prerequisite(s): CRIM 1101 Junior or Senior status

CRIM 4420 - Legal Research

Credit Hours: 3

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.

Prerequisite(s): Junior or Senior Status

CRIM 4425 - Evaluation of the Criminal Justice System

Credit Hours: 3
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.

Prerequisite(s): ENGL 1102, CRIM 1100, CRIM 2206 Junior or Senior status

CRIM 4435 - Intelligence Law

Credit Hours: 3
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 NSIS 4435

CRIM 4440 - National Security Law

Credit Hours: 3
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

Credit Hours: 0-6
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. Repeatable Restrictions: Sophomore-Senior Level

Prerequisite(s): Instructor approval required

Economics

ECON 3310 - Intermediate Macroeconomics

Credit Hours: 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.

Prerequisite(s): BSBA 2211 and BSBA 2212

ECON 3340 - Public Economics

Credit Hours: 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.

Prerequisite(s): BSBA 2211, BSBA 2212, POLI 1100

ECON 3350 - Managerial Economics

Credit Hours: 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.

Prerequisite(s): BSBA 2211, BSBA 2212

ECON 4406 - Guided Economic Study

Credit Hours: 1-3
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.

Prerequisite(s): Instructor approval required

ECON 4410 - Game Theory

Credit Hours: 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.

Prerequisite(s): ECON 3350, ECON 3310 - Intermediate Macroeconomics

ECON 4998 - Undergraduate Research

Credit Hours: 0-6

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. Repeatable Restrictions: Sophomore-Senior Level

Prerequisite(s): Instructor approval required

Education

EDUC 1103 - College Success

Credit Hours: 1

Students in the course will gain the knowledge and tools needed to succeed in college. The course will cover learning strategies, executive function skills, and social skills that will help students become independent members of the university community. Additionally, students will develop strong connections with faculty, staff, and other students who will support them throughout their college career.

Prerequisite(s): Instructor Approval

EDUC 1199 - Special Topics in Education

Credit Hours: 1-12

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

Credit Hours: 3

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 analysis of the historical and sociological bases for programs, instructional strategies and ethical teaching behaviors in American education.

Corequisite(s): EDUC 2200L; SOAR 1100 (Education section)

EDUC 2200L - Field Experience I

Credit Hours: 0

A field experience designed to introduce prospective teacher candidates to the teaching profession and the work of educators in the school setting. Teacher candidates are placed in Professional Development Schools that formally partner with Fairmont State. The experience must total a minimum of 20 clock hours scheduled over at least five (5) days.

EDUC 2201 - Instructional Technology

Credit Hours: 3

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

Credit Hours: 3

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.

Prerequisite(s): Admission to Teacher Education

EDUC 2226 - Technology in Instruction

Credit Hours: 3

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.

Prerequisite(s): Admission to Teacher Education

EDUC 2240 - High Incidence Disabilities for Educators

Credit Hours: 3

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 be gain an introductory understanding of the role of the regular educator in the IEP process and co-teaching within the inclusive classroom.

Prerequisite(s): Admission to Teacher Education

EDUC 2241 - Field Experience 2: The Learner and Learning Environment

Credit Hours: 1

This field experience will allow preservice teacher candidates the opportunity to reflect on teaching practice within the context of a specific school, community, and classroom setting with an emphasis on individuals with exceptionalities and inclusive practices.

Prerequisite(s): Admission into Teacher Education
Corequisite(s): EDUC 2240

EDUC 2260 - Instructional Design I

Credit Hours: 3

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.

Prerequisite(s): Admission to Teacher Education, EDUC 2203 and EDUC 2240
Corequisite(s): EDUC 2265

EDUC 2261 - Field Experience 3: Learning Context and Teaching

Credit Hours: 2

This field experience will allow the preservice teacher candidate the opportunity to reflect on teaching practice within the context of a specific school, community, and classroom setting. This is a two-credit course that must be completed as a field experience in a Professional Development/public school setting.

Prerequisite(s): EDUC 2241
Corequisite(s): EDUC 2260

EDUC 2265 - Field Experience 2

Credit Hours: 1

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.

Prerequisite(s): EDUC 2203 & EDUC 2240
Corequisite(s): EDUC 2260

EDUC 3330 - The Reading Process

Credit Hours: 3

Writing Intensive

The purpose of this course is to provide preservice teacher candidates with a foundation for effective literacy instruction in K - 3 classrooms. Emphasis will be placed on the essential components of learning to read and write (phonemic awareness, phonics, oral language development, the reading and writing processes, and fluency). This course also aims to assist preservice teacher candidates develop and demonstrate skills to support the literacy instruction of diverse learners.

Prerequisite(s): Admission to Teacher Education, ENGL 1102

EDUC 3331 - Reading in the Content Areas

Credit Hours: 3

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.

Prerequisite(s): Admission to Teacher Education ENGL 1102

EDUC 3332 - Pedagogy of Literacy (Reading and Language Arts Methods)

Credit Hours: 3

This course addresses the curriculum, content, methods, and materials of effective literacy and language arts instruction in the elementary classroom. It builds on concepts introduced in The Reading Process (EDUC 3330). This course emphasizes the relationship among the language arts (reading, writing, speaking, listening), particularly in upper elementary grades, and aims to assist preservice teacher candidates in developing and demonstrating skills to support literacy instruction of diverse learners.

Prerequisite(s): Admission to Teacher Education and EDUC 3330

Corequisite(s): May be taken concurrently with EDUC 3331

EDUC 3333 - Assessment and Reading Improvement

Credit Hours: 3

This course emphasizes the use of various assessments to evaluate students in the five critical areas of reading instruction (phonemic awareness, phonics, fluency, vocabulary, and comprehension). Utilizing previously learned curriculum, content, methods and materials of effective literacy and language arts instruction in the elementary classroom, candidates will administer assessments, analyze the results, and design a program of study for reading improvement based on the findings.

Prerequisite(s): EDUC 3332

Corequisite(s): EDUC 3334

EDUC 3334 - Field Experience 4: Disciplinary Literacy and Assessment

Credit Hours: 2

This is a two-credit course that must be completed as a field experience in a Professional Development/public school setting. This field experience will allow the preservice teacher candidate the opportunity to reflect on disciplinary literacy practices and authentic assessments in the teaching of reading, writing, speaking and listening.

Prerequisite(s): EDUC 2261

Corequisite(s): EDUC 3333 or EDUC 3331

EDUC 3340 - Instructional Design II

Credit Hours: 3

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, socioeconomic, 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.

Prerequisite(s): EDUC 2260, EDUC 2265

Corequisite(s): EDUC 3365, EDUC 3351

EDUC 3341 - Residency 1: Teaching Practice and Assessment

Credit Hours: 5

This is a five-credit-hour course that must be completed as a field experience in a Professional Development/public-school setting. The field experience will allow the preservice teacher candidate the opportunity to apply and reflect on his/her content, assessing for learning, professional and pedagogical knowledge, skills and dispositions. In addition, the preservice 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.

Prerequisite(s): EDUC 3334

Corequisite(s): EDUC 3340 and EDUC 3351

EDUC 3350 - Elementary Social Studies Methods

Credit Hours: 3

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.

Prerequisite(s): Admission to Teacher Education and EDUC 2260

EDUC 3351 - Inclusive Classroom Practices for Individual Differences

Credit Hours: 3
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.

Prerequisite(s): ENGL 1102, EDUC 2260, EDUC 2265
Corequisite(s): EDUC 3340, EDUC 3365

EDUC 3365 - Field Experience 3

Credit Hours: 2
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.

Corequisite(s): EDUC 3340 & EDUC 3351

EDUC 4484 - Residency 2: Student Teaching for Elementary

Credit Hours: 10
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. Residents will observe, assist, co-teach, co-plan, teach, and manage a classroom under the supervision of a cooperating public-school teacher and university supervisor.

Prerequisite(s): EDUC 3341
Corequisite(s): EDUC 4485 and EDUC 4486

EDUC 4485 - Action Research

Credit Hours: 1
This course is taken concurrently with student teaching and involves completion of a capstone action research project to document impact on student learning. During this course, candidates 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, and prepare and present a professional presentation of the project to peers and faculty. It serves as the Teacher Performance Assessment required for certification and licensure.

Prerequisite(s): EDUC 3365
Corequisite(s): EDUC 4491 or EDUC 4496, and EDUC 4486

EDUC 4486 - Portfolio

Credit Hours: 1
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.

Prerequisite(s): EDUC 3365
Corequisite(s): EDUC 4491 or EDUC 4496, and EDUC 4485

EDUC 4491 - Elementary Student Teaching

Credit Hours: 10
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.

Prerequisite(s): EDUC 3365
Corequisite(s): EDUC 4485 & EDUC 4486

EDUC 4496 - Secondary Student Teaching

Credit Hours: 10
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.

Prerequisite(s): EDUC 3365

Corequisite(s): EDUC 4485 & EDUC 4486

Electronics Engineering Technology

ELEC 1100 - Circuit Analysis I

Credit Hours: 3

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

Credit Hours: 3

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

Credit Hours: 1-12

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

Credit Hours: 3

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

Credit Hours: 3

Continuation of ELEC 1100, 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.

Prerequisite(s): ELEC 1100

ELEC 2225 - Electronic Devices

Credit Hours: 3

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.

Prerequisite(s): ELEC 1100

ELEC 2230 - Digital Electronics

Credit Hours: 3

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.

Prerequisite(s): ELEC 1100

ELEC 2240 - Industrial Electronics

Credit Hours: 3

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.

Prerequisite(s): ELEC 2225

ELEC 2250 - AC-DC Machinery and Controls

Credit Hours: 3

Practical aspects in the use and maintenance of AC-DC machinery and power distribution, including motors, generators, starters, speed controllers, breakers, transformers, etc.

Prerequisite(s): ELEC 1100

ELEC 2260 - Communication Systems

Credit Hours: 3

Theory, operation, and maintenance of AVMA, FM, PM and digital communications systems.

Prerequisite(s): ELEC 2225

ELEC 2270 - Microcomputers

Credit Hours: 3

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.

Prerequisite(s): ELEC 1100

ELEC 2280 - Programmable Controllers

Credit Hours: 3

An introduction to programmable controllers and their application to sequential process control. Topics include basic operating characteristics, relays, timers, counters, sequencers, editing and online data control. Practical laboratory experiences will be provided in controller applications, programming, installation and maintenance.

Prerequisite(s): ELEC 2230

ELEC 3300 - Advanced Linear Electronics

Credit Hours: 3

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.

Prerequisite(s): ELEC 2230

ELEC 3310 - Advanced Microcomputer Systems

Credit Hours: 3

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.

Prerequisite(s): ELEC 2270

ELEC 3360 - Communication Systems

Credit Hours: 3

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.

Prerequisite(s): ELEC 2240

ELEC 4401 - Senior Electronics Project I

Credit Hours: 4

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. Restrictions: Baccalaureate majors only.

Prerequisite(s): ELEC 3310

ELEC 4402 - Senior Electronics Project II

Credit Hours: 3

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.

Prerequisite(s): ELEC 3310

ELEC 4410 - Data Acquisition and Control Systems

Credit Hours: 4

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. Restrictions: Baccalaureate majors only.

Prerequisite(s): ELEC 3300

ELEC 4420 - Advanced Automation Controller Systems

Credit Hours: 3

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.

Prerequisite(s): ELEC 2280

ELEC 4998 - Undergraduate Research

Credit Hours: 0-6

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.

Prerequisite(s): Instructor approval required

English

ENGL 1101 - Written English I

Credit Hours: 3-4

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, 480 on the Critical Reading and Writing section of the SAT (since 2016), 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. Course is transferable as general studies credit to all other state institutions of higher education in West Virginia for credit with the grade earned.

Transferable General Studies Course
^ENGL 1101 ~

ENGL 1102 - Written English II

Credit Hours: 3

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. A "C" in English 1102 or English 1103, as determined by the academic department, is a graduation requirement for all degrees. Course is transferable as general studies credit to all other state institutions of higher education in West Virginia for credit with the grade earned.

Prerequisite(s): A C or better in ENGL 1101
Transferable General Studies Course
^ENGL 1102~

ENGL 1103 - Technical Report Writing

Credit Hours: 3

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. A "C" in English 1102 is a graduation requirement for all degrees.

Prerequisite(s): A C or better in ENGL 1101

ENGL 2007 - Shakespeare Road Trip

Credit Hours: 1

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

Prerequisite(s): ENGL 1102

ENGL 2220 - World Literature I: Origins to 1650

Credit Hours: 3

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). Course is transferable as general studies credit to all other state institutions of higher education in West Virginia for credit with the grade earned.

Prerequisite(s): ENGL 1102 or ENGL 1103
Transferable General Studies Course
ENGL 2220~%

ENGL 2221 - World Literature II: 1650 to the Present

Credit Hours: 3

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). Course is transferable as general studies credit to all other state institutions of higher education in West Virginia for credit with the grade earned.

Prerequisite(s): ENGL 1101 ENGL 1102
Transferable General Studies Course
ENGL 2221~%

ENGL 2240 - Introduction to Literature: Prose, Poetry, and Drama

Credit Hours: 3

A survey of representative works in prose, poetry, and drama, accomplished through close reading, discussion, and written response.

Prerequisite(s): ENGL 1102 or ENGL 1103

ENGL 2251 - Introduction to Literary Studies

Credit Hours: 3

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. When Offered: Offered in the fall only

ENGL 3301 - Theories of Language and their Application to English I

Credit Hours: 3

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.

Prerequisite(s): ENGL 1102

ENGL 3302 - Theories of Language and their Application to English II

Credit Hours: 3

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.

Prerequisite(s): ENGL 3301

ENGL 3303 - Survey of Amer Lit I: Beginnings to the 1850s

Credit Hours: 3
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.

Prerequisite(s): ENGL 2220

ENGL 3304 - Survey of Amer Lit II: The 1850s to the Present

Credit Hours: 3
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.

Prerequisite(s): ENGL 2221

ENGL 3313 - Survey of British Literature I.

Credit Hours: 3
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.

Prerequisite(s): English 2220

ENGL 3314 - Survey of British Literature II

Credit Hours: 3
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.

Prerequisite(s): English 2221

ENGL 3320 - Literary Criticism

Credit Hours: 3
A study of past and present critical methods and of the theoretical assumptions upon which they are based.

Prerequisite(s): ENGL 3303 or ENGL 3313

ENGL 3332 - Narrative and Descriptive Writing

Credit Hours: 3
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.

Prerequisite(s): ENGL 1102

ENGL 3333 - Writing Non-Fiction

Credit Hours: 3
Writing Intensive

Study and practice of the various kinds of expository writing.

Prerequisite(s): ENGL 1102

ENGL 3344 - Writing Poetry

Credit Hours: 3
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.

Prerequisite(s): ENGL 1102

ENGL 3345 - Writing Fiction

Credit Hours: 3
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.

Prerequisite(s): ENGL 1102

ENGL 3349 - Advanced Technical Communication

Credit Hours: 3
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.

Prerequisite(s): ENGL 1102 or ENGL 1103

ENGL 3354 - Children's Literature

Credit Hours: 3
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. When Offered: Offered Fall semester only

Prerequisite(s): ENGL 1101

ENGL 3355 - Young Adult Literature

Credit Hours: 3
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.

Prerequisite(s): ENGL 2220 or ENGL 2221 or ENGL 2230 or ENGL 2231

ENGL 3356 - Fantasy, Science Fiction, and Magical Realism

Credit Hours: 3
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.

Prerequisite(s): ENGL 2220 or ENGL 2221 or ENGL 2230 or ENGL 2231

ENGL 3361 - American Romanticism

Credit Hours: 3
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.

Prerequisite(s): ENGL 3303

ENGL 3362 - American Realism and Naturalism

Credit Hours: 3

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.

Prerequisite(s): ENGL 3304

ENGL 3363 - The American Novel

Credit Hours: 3

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.

Prerequisite(s): ENGL 3304 or ENGL 3304

ENGL 3364 - Appalachian Literature

Credit Hours: 3

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.

Prerequisite(s): ENGL 2221

ENGL 3365 - American Modernism

Credit Hours: 3

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.

Prerequisite(s): ENGL 3304

ENGL 3366 - Contemporary Literature

Credit Hours: 3

This course examines the ways in which visual and written texts have illustrated shifts in political and linguistic thought since midcentury. 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.

Prerequisite(s): ENGL 3304 or ENGL 3314

ENGL 3370 - Literature of the Middle Ages

Credit Hours: 3

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.

Prerequisite(s): ENGL 3313

ENGL 3373 - Chaucer

Credit Hours: 3

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.

Prerequisite(s): ENGL 3313

ENGL 3374 - Shakespeare

Credit Hours: 3

Writing Intensive

A study of Shakespeare's poetry and plays.

Prerequisite(s): ENGL 3313

ENGL 3375 - Later Renaissance British Literature

Credit Hours: 3

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 protgs, 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.

Prerequisite(s): ENGL 3313

ENGL 3377 - Literature of the Enlightenment

Credit Hours: 3

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).

Prerequisite(s): ENGL 3313

ENGL 3378 - British Romanticism

Credit Hours: 3

A concentrated study of the works of such writers as Blake, Wordsworth, Coleridge, Byron, Shelley and Keats.

Prerequisite(s): ENGL 3314

ENGL 3379 - Literature of the Victorian Period

Credit Hours: 3

A concentrated study of the works of such writers as Tennyson, Browning, Rossetti, Arnold, Swinburne, Mill, Ruskin and Carlyle.

Prerequisite(s): ENGL 3314

ENGL 3380 - Twentieth-Century British Literature

Credit Hours: 3

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.

Prerequisite(s): ENGL 3314

ENGL 3381 - The British Novel

Credit Hours: 3

A historical and critical study of significant British novels of the eighteenth, nineteenth, and twentieth centuries.

Prerequisite(s): ENGL 3313 or ENGL 3314

ENGL 3382 - The World Novel

Credit Hours: 3

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.

Prerequisite(s): ENGL 2220

ENGL 3383 - Epic Tradition

Credit Hours: 3

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.

Prerequisite(s): ENGL 2220 or ENGL 2221

ENGL 3385 - The Arthurian Tradition

Credit Hours: 3

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.

Prerequisite(s): ENGL 1102

ENGL 3386 - The Bible as Literature

Credit Hours: 3

This course focuses on the literary history, interpretation and genres of the Bible, as well as significant biblical tropes, metaphors and narratives.

Prerequisite(s): ENGL 2220 or ENGL 2221 or ENGL 2230 or ENGL 2231

ENGL 3387 - Folk Literature

Credit Hours: 3

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. Same Course As: FOLK 3300

Prerequisite(s): ENGL 2220

ENGL 3388 - Women's Literature

Credit Hours: 3

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.

Prerequisite(s): ENGL 2220 or ENGL 2221 or ENGL 2230 or ENGL 2231

ENGL 3389 - Minority Literature

Credit Hours: 3

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.

Prerequisite(s): ENGL 2220 or ENGL 2221 or ENGL 2230 or ENGL 2231

ENGL 3390 - Modern Drama

Credit Hours: 3

This course examines world drama from the nineteenth-century to the present.

Prerequisite(s): ENGL 2221

ENGL 3391 - The Short Story

Credit Hours: 3

This course offers a critical study of this art form based upon the work of authors from around the world. Course is transferable as general studies credit to all other state institutions of higher education in West Virginia for credit with the grade earned.

Prerequisite(s): ENGL 2221
Transferable General Studies Course

ENGL 3392 - Contemporary Poetry

Credit Hours: 3

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.

Prerequisite(s): ENGL 2221

ENGL 3393 - Southern Literature

Credit Hours: 3

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.

Prerequisite(s): ENGL 3303 or ENGL 3304

ENGL 3394 - The Art of the Motion Picture

Credit Hours: 3

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.

Prerequisite(s): ENGL 2220 or ENGL 2221 or ENGL 2230 or ENGL 2231

ENGL 3395 - Journeys in Comparative Mythology

Credit Hours: 3

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.

Prerequisite(s): ENGL 2220

ENGL 3396 - Literature and Film

Credit Hours: 3

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.

Prerequisite(s): ENGL 2220 or ENGL 2221 or ENGL 2230 or ENGL 2231

ENGL 3399 - Special Topics in English

Credit Hours: 1-12

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.

Prerequisite(s): ENGL 1102

ENGL 4400 - Senior Seminar

Credit Hours: 3

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.

Prerequisite(s): ENGL 3320

ENGL 4401 - Creative Writing Capstone

Credit Hours: 3

Students will read, reflect upon, and discuss works by diverse writers in poetry or prose along with higher-level craft articles, with an emphasis on reading as writers. Students will also write in their chosen genre and in criticism.

Prerequisite(s): Instructor Permission

ENGL 4431 - Methods and Materials in Teaching English

Credit Hours: 3

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.

Prerequisite(s): ENGL 3355 and ENGL 3374

ENGL 4441 - Independent Study

Credit Hours: 1-4

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.

Prerequisite(s): Instructor approval required

ENGL 4489 - Writing for Literary Conferences

Credit Hours: 1

This course prepares students for presenting their literary papers at academic conferences.

Prerequisite(s): Instructor approval required

ENGL 4491 - Writing Internship

Credit Hours: 3

Writing internships allow students to apply their

communication (verbal and written) and critical thinking skills in writing for business and non-profit organizations. This course may be repeated for credit

Prerequisite(s): A GPA of 3.25 and completion of 18 hours toward the English major are required. Instructor approval required

ENGL 4998 - Undergraduate Research

Credit Hours: 0-6

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. This course may be repeated for credit. Restrictions: Sophomore-Senior Level

Prerequisite(s): Instructor approval required

English as a Second Language

*Registration restricted to ESL students only.

ESLG 0051 - Elementary Academic Reading

Credit Hours: 3

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

Credit Hours: 3

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

Credit Hours: 3

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

Credit Hours: 3

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

Credit Hours: 3

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

Credit Hours: 3

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

Credit Hours: 3

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

Credit Hours: 3

Students develop skills in prediction, comprehension of main ideas and details, and inferences. Reading comprehension activities include, in addition to writing and texts, independent, small-group, and whole class activities. Both short reading passages and more extensive texts,

such as abridged novels, provide sustained practice and content. Repeatable

Prerequisite(s): ESLG 0051

ESLG 0062 - Intermediate Composition

Credit Hours: 3

Students develop sentence, paragraph, and essay writing skills necessary to write a coherent effective academic essay. 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

Prerequisite(s): ESLG 0052

ESLG 0063 - Intermediate Speaking and Listening

Credit Hours: 3

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

Prerequisite(s): ESLG 0053

ESLG 0064 - Intermediate Grammar Studies

Credit Hours: 3

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

Prerequisite(s): ESLG 0054

ESLG 0065 - Intermediate Vocabulary and Pronunciation

Credit Hours: 3

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. 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

Prerequisite(s): ESLG 0055

ESLG 0066 - Intermediate TOEFL Strategies

Credit Hours: 3

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

Prerequisite(s): ESLG 0056

ESLG 0067 - Intermediate American Culture

Credit Hours: 3

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

Prerequisite(s): ESLG 0057

ESLG 0071 - Advanced Academic Reading

Credit Hours: 3

Students learn the skills necessary to comprehend academic texts, news articles, and essays. They also read two full-length novels for sustained practice and development. Discussions, vocabulary dynamics and writing develop skills in: the comprehension of main ideas, details, and inferences. Repeatable

Prerequisite(s): ESLG 0061

ESLG 0072 - Advanced Composition

Credit Hours: 3

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

Prerequisite(s): ESLG 0062

ESLG 0073 - Advanced Speaking and Listening

Credit Hours: 3

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

Prerequisite(s): ESLG 0063

ESLG 0074 - Advanced Grammar Studies

Credit Hours: 3

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

Prerequisite(s): ESLG 0064

ESLG 0075 - Advanced Vocabulary and Pronunciation

Credit Hours: NO CREDITS

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. Vocabulary development, facility with idiomatic expressions, and thematic coherence are emphasized. Repeatable

Prerequisite(s): ESLG 0065

ESLG 0076 - Advanced TOEFL Strategies

Credit Hours: 3

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

Prerequisite(s): ESLG 0066

ESLG 0077 - Advanced America Culture

Credit Hours: 3

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

Prerequisite(s): ESLG 0067

Finance

FINC 3307 - Personal Finance

Credit Hours: 3

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.

Prerequisite(s): BSBA 2221, BSBA 2212

FINC 3315 - Venture Finance

Credit Hours: 3

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.

Prerequisite(s): MGMT 3350

FINC 3350 - Investments

Credit Hours: 3

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.

Prerequisite(s): BSBA 2221

FINC 3384 - Bank Management

Credit Hours: 3

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.

Prerequisite(s): BSBA 2221

FINC 3385 - Analyzing Financial Statements

Credit Hours: 3
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.

Prerequisite(s): ENGL 1102, BSBA 2221, BISM 1500

FINC 4410 - Managerial Finance

Credit Hours: 3

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.

Prerequisite(s): BSBA 3310, FINC 3350

FINC 4412 - PC Applications for Managerial Finance

Credit Hours: 3

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.

Prerequisite(s): FINC 4410

FINC 4998 - Undergraduate Research

Credit Hours: 0-6

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. Repeatable Restrictions: Sophomore-Senior Level

Prerequisite(s): Instructor approval required

First Year Seminar

SOAR 1100 - First Year Seminar

Credit Hours: 1

SOAR students will gain the knowledge and tools needed to achieve academic success and participate in personal growth activities that help them to develop the qualities of a college-educated person. Additionally, students will develop strong connections with faculty, staff, and other

students who will walk with them throughout their college career.

Requires a grade of "C" or higher (students who earn a D or F in SOAR must repeat the course).

General Education Requirement Satisfied: First Year Seminar

Folklore Studies

FOLK 2150 - Folk Arts

Credit Hours: 3

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. Same Course As: MUSM 2150

FOLK 2200 - Introduction to Folklore

Credit Hours: 3

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

Credit Hours: 1

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 3300 - Folk Literature

Credit Hours: 3

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. Same Course As: ENGL 3387

Prerequisite(s): ENGL 1102

FOLK 3301 - Material Culture

Credit Hours: 3

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 artifact analysis and fieldwork. Same Course As: MUSM 3301

FOLK 3302 - Regional Cultural Geography and History

Credit Hours: 3

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

Credit Hours: 3

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. Same Course As: THEA 3320 and COMM 3320

FOLK 3350 - Roads to Appalachia Study Abroad

Credit Hours: 3

"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 have taken their 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 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

Credit Hours: 3

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. Same Course As: MUSI 3361

FOLK 3375 - Preservation of Appalachian Culture

Credit Hours: 3

This course invites students to learn elements of traditional Appalachian culture and then to share these traditions with local community members through the cooperation of a community partner. The traditions emphasized may vary from year to year. FOLK 2200 and FOLK 2201 are recommended to be completed before this course. May be repeated

FOLK 4401 - Folklore Capstone

Credit Hours: 3

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. Restrictions: This course is for seniors only.

Prerequisite(s): All other courses in the minor program

FOLK 4998 - Undergraduate Research

Credit Hours: 0-6

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. Repeatable Restrictions: Sophomore-Senior Level

Prerequisite(s): Instructor approval required

Forsenic Science

FORS 2201 - Introduction to Forensic Science.

Credit Hours: 4

Lecture/Lab Hours: Students will be involved in 3 hours of lecture/discussion and a 3 hr lab session each week. This activities-based course is designed to engage students in the scientific study of collecting and analyzing physical evidence. 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. When Offered: Fall semester only

FORS 2225 - Trace Evidence and Microscopy

Credit Hours: 3

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.

Prerequisite(s): CHEM 2200 and MATH 1540 or higher

FORS 3201 - Forensic Biology

Credit Hours: 4

This course will expose the student to the procedures of searching and processing crime 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.

Prerequisite(s): FORS 2201 with a C or better

FORS 3215 - Fingerprint Analysis

Credit Hours: 2

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.

Prerequisite(s): FORS 3201 with a C or better or permission

FORS 3225 - Forensic Taphonomy

Credit Hours: 2

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.

Prerequisite(s): FORS 3201 with a C or higher

FORS 3301 - Human Osteology

Credit Hours: 4

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.

Prerequisite(s): BIOL 1106 with a C or higher

FORS 3305 - Forensic Anthropology

Credit Hours: 4

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.

Prerequisite(s): FORS 3201 with a C or higher

FORS 3310 - Forensic Toxicology

Credit Hours: 4

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.

Prerequisite(s): CHEM 2200, FORS 3201 with a C or higher

FORS 3385 - Research in Forensic Science

Credit Hours: 3

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.

Prerequisite(s): Junior or Senior status

FORS 4401 - Capstone Seminar in Forensic Science

Credit Hours: 3

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.

Prerequisite(s): INTR 4411

FORS 4411 - Forensic Science Internship

Credit Hours: 2

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.

Prerequisite(s): Junior status or Senior status

French

FREN 1101 - Elementary French I

Credit Hours: 3

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

Credit Hours: 3

Continuation of FREN 1101, completing the basic grammatical principles.

Prerequisite(s): FREN 1101

FREN 1199 - Special Topics in French

Credit Hours: 1-12

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

Credit Hours: 3

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.

Prerequisite(s): FREN 1102

FREN 2202 - Intermediate French II

Credit Hours: 3

The continuation of FREN 2201.

Prerequisite(s): FREN 2201

FREN 2220 - Intermediate Topics in French

Credit Hours: 3

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

Credit Hours: 3

Supervised independent study reflecting the student's needs and interests.

FREN 3311 - French Composition and Conversation I

Credit Hours: 3

This course covers writing, conversation and aural comprehension, with extensive use of audio-visual aids. Emphasis on practical proficiency, grammar, vocabulary building, and phonetics.

Prerequisite(s): FREN 2202

FREN 3312 - French Composition and Conversation II

Credit Hours: 3

Parallel course to FREN 3311, with content emphasizing French civilization and culture. Note: FREN 3311 and 3312 may be taken in any order.

Prerequisite(s): FREN 2202 or equivalent

FREN 3314 - French Civilization and Culture

Credit Hours: 3

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.

Prerequisite(s): FREN 2202

FREN 3321 - Contemporary Literature

Credit Hours: 3

This course focuses on outstanding writers of the twentieth century, such as Camus, Ionesco, Proust and Sartre. Emphasis is on reading comprehension.

Prerequisite(s): FREN 2202

FREN 3326 - Media Studies in French

Credit Hours: 3

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

Credit Hours: 3
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.

Prerequisite(s): ENGL 1102, FREN 3312

FREN 4420 - Francophone Cultures in the Americas

Credit Hours: 3
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

Credit Hours: 3
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.

Prerequisite(s): FREN 2202

FREN 4431 - Methods and Materials in Teaching French

Credit Hours: 3
Study and practice in teaching French language and literature, grades 5-Adult.

FREN 4998 - Undergraduate Research

Credit Hours: 0-6
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. Repeatable Restrictions: Sophomore-Senior Level

Prerequisite(s): Instructor approval required

Geography

GEOG 1199 - Special Topics in Geography

Credit Hours: 1-12
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

Credit Hours: 3
An introduction to the physical and cultural elements of geography, with a study of major geographical regions of the world.

GEOG 2213 - History of 21st Century Geography

Credit Hours: 3
Develop effective spatial literacy, how to communicate spatial information visually, and how recent advances in technology and data availability have increased our knowledge about the world. This class surveys key concepts of geospatial technologies (GISc, remote sensing, spatial analysis) in the context of Human Geography, demography, and behavioral patterns

Prerequisite(s): GEOG 2210

GEOG 3305 - Economic Geography

Credit Hours: 3
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

Credit Hours: 3
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 3316 - Introduction to Geospatial Methods

Credit Hours: 3
This course introduces the foundational concepts of geographic information science (GISc) using Human Geography, demography, and behavioral patterns of

advanced topics in GISc and geospatial technology. All topics will be paired with appropriate software. This course has an associated geospatial lab time.

Prerequisite(s): GEOG 2213

GEOG 3317 - Advanced Geospatial Methods

Credit Hours: 3

This course is a project-based exploration spatial communication using Human Geography, demography, and behavioral patterns of advanced topics in GISc and geospatial technology. All topics will be paired with appropriate software.

Prerequisite(s): GEOG 3316

GEOG 3330 - Geography of North America

Credit Hours: 3

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.

GEOG 4490 - GISc Capstone

Credit Hours: 3

This course provides an opportunity for students to pursue a research interest in the spatial sciences through the development of an applied project and paper. The capstone walks students through the steps expected for geospatial projects in the workforce through a large-scale project generated either internally or through contacts at the university, local, regional, federal or international scale. In the process, students will apply geospatial planning and management, analysis, ethics, and collaboration to solve a real-world problem or spatial challenge.

Geology

GEOL 1101 - Physical Geology

Credit Hours: 4

Lecture/Lab Hours: Three hours of lecture and two hours of lab per week Lab includes field trips

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. Course is transferable as general studies credit to all other state institutions of higher education in West Virginia for credit with the grade earned.

Transferable General Studies Course
GEOL 1101~

GEOL 1102 - Historical Geology

Credit Hours: 4

Lecture/Lab Hours: Three hours of lecture and two hours of lab per week

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. Course is transferable as general studies credit to all other state institutions of higher education in West Virginia for credit with the grade earned.

Transferable General Studies Course
GEOL 1102~

GEOL 1199 - Special Topics in Geology

Credit Hours: 1-12

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.

GEOL 2300 - Environmental Geology

Credit Hours: 4

Lecture/Lab Hours: Three hours of lecture and two hours of lab per week

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.

Prerequisite(s): GEOL 1101

Geoscience

GEOS 1199 - Special Topics in Geoscience

Credit Hours: 1-12

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

Credit Hours: 4

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).

Prerequisite(s): GEOL 1101, BIOL 1105

GEOS 2201 - Exosphere

Credit Hours: 4

Lecture/Lab Hours: Four hours of lecture/discussion/activities per week

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. When Offered: Fall semester only

Prerequisite(s): BIOL 1104 with a C or better and admission to Elementary Education

GEOS 2202 - Geosphere

Credit Hours: 4

Lecture/Lab Hours: Four hours of lecture/discussion/activities per week

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. When Offered: Spring semester only

Prerequisite(s): BIOL 1104 with a C or better and admission to Elementary Education

GEOS 3100 - Informal Science Field Experience

Credit Hours: 1

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

Credit Hours: 3

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.

GRFX 1113 - Multimedia Concepts

Credit Hours: 3

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

Credit Hours: 1-12

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

Credit Hours: 3

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.

Prerequisite(s): GRFX 1111

GRFX 1222 - Internet Animation

Credit Hours: 3

This course is an introduction to basic techniques of computer animation and presentation for multimedia and internet and interactive training applications.

GRFX 2121 - Graphic Design I Foundations

Credit Hours: 3

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.

Prerequisite(s): GRFX 1220

GRFX 2123 - Photography I Foundations

Credit Hours: 3

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.

GRFX 2125 - History of Graphic Design

Credit Hours: 3

This course is a broad survey of the history of graphic design to develop a fundamental understanding of the subject through presentation and discussion. Restrictions: Open to graphic design technology majors

Prerequisite(s): Permission of instructor

GRFX 2203 - Introduction to Game Principles

Credit Hours: 3

This course is an introduction to basic principles of interactivity and game design. Asset creation, event handling, scores, displays, and sequencing are covered. Same Course As: COMP 2203

Prerequisite(s): GRFX 1113

GRFX 2220 - Information Graphics

Credit Hours: 3

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. Restrictions: Open to graphic design major students only.

Prerequisite(s): GRFX 1111

GRFX 2222 - Typography I Foundations

Credit Hours: 3

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.

Prerequisite(s): GRFX 1220

GRFX 2299 - Special Topics in Graphic Communications

Credit Hours: 1-12

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

Credit Hours: 3

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.

Prerequisite(s): GRFX 1222

GRFX 3133 - Typography II Branding & Identity Design

Credit Hours: 3

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. Restrictions: Open to graphic design major students only.

Prerequisite(s): GRFX 2222

GRFX 3230 - Interactive and Multimedia Design

Credit Hours: 3

Introduction to multimedia authoring. Students will design and publish interactive content employing a variety of native file formats.

Prerequisite(s): GRFX 1222

GRFX 3232 - Photography II Studio & Video Tech

Credit Hours: 3

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.

Prerequisite(s): GRFX 2123

GRFX 3234 - Multipage Documents and Design

Credit Hours: 3

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.

Prerequisite(s): GRFX 2222

GRFX 4141 - Graphic Design Senior Seminar

Credit Hours: 3

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. Restrictions: Open to Graphic Design majors only.

Prerequisite(s): ENGL 1102

GRFX 4143 - Motion Graphics II

Credit Hours: 3

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.

Prerequisite(s): GRFX 3131

GRFX 4145 - Exhibition Design & Development / Senior Show

Credit Hours: 3

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.

Prerequisite(s): GRFX 3230

GRFX 4240 - Graphic Design. Applied Theory

Credit Hours: 3

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.

Prerequisite(s): GRFX 4141

GRFX 4242 - Career & Portfolio Development

Credit Hours: 3

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.

Prerequisite(s): GRFX 3230

GRFX 4244 - Senior Internship

Credit Hours: 3

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.

Prerequisite(s): Instructor Approval, and GRFX 3230, and GRFX 4143

GRFX 4460 - Game Design and Implementation

Credit Hours: 4

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. Same Course As: COMP 4460

Prerequisite(s): COMP 1130, COMP 2203/GRFX 2203

GRFX 4998 - Undergraduate Research

Credit Hours: 0-6

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. Repeatable Restrictions: Sophomore-Senior Level

Prerequisite(s): Instructor approval required

Healthcare Management

HCMG 2201 - U.S. Healthcare Systems

Credit Hours: 3

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 2221 - Healthcare Finance

Credit Hours: 3

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

Credit Hours: 3

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 3301 - Healthcare Organizations

Credit Hours: 3

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

Credit Hours: 3

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 3331 - Health Information Exchange

Credit Hours: 3

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.

Prerequisite(s): HCMG 2201, HCMG 2221, or HCMG 2231

HCMG 3333 - Quality Management in a Regulatory Environment

Credit Hours: 3

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.

Prerequisite(s): HCMG 2201 and HCMG 2221, or HCMG 2231

HCMG 3372 - Legal and Medical Ethics

Credit Hours: 3

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 4000 - Managing the Post-Acute Healthcare Continuum

Credit Hours: 3

This course addresses conceptual, interpersonal and business skills associated with managing post-acute healthcare organizations that provide continued care for special populations. With the changing demographics, by the late 2020's, the majority of Americans will be over the age of 65 and 20 percent of them will need some form of assisted care. As health care's traditional care providers focus on a care continuum, a critical strategic consideration for health systems is development of effective post-acute care networks that enable them to deliver cost-effective, high-quality care in the right place at the right time. The content builds expert knowledge of all aspects of long-term care management, including operations, human resources, patient advocacy, and information systems. It also emphasizes the latest understandings of the long-term care continuum and patient-centered care for diverse populations. This is a hybrid 1 course with 75% of the content delivered on line and 25% in scheduled sessions with instructor during the semester.

Prerequisite(s): Students must have completed all HCMG

3000 level coursework. Students must have proficiencies with Blackboard or equivalent Fairmont State University e-learning System.

HCMG 4400 - Healthcare Policy

Credit Hours: 3

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.

Prerequisite(s): HCMG 2201, HCMG 2221, and HCMG 2231

HCMG 4401 - Healthcare Practicum and Seminar

Credit Hours: 3

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.

HCMG 4450 - Healthcare Management Capstone

Credit Hours: 3

Students choose a healthcare project for advanced concepts and skills needed for effective management activities that promote individual and agency development. Capstone is synthesis of management skills in practice, skill in decision-making and judgment as well as professional role development.

History

HIST 1107 - United States History I

Credit Hours: 3

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. Course is

transferable as general studies credit to all other state institutions of higher education in West Virginia for credit with the grade earned.

Transferable General Studies Course
HIST 1107~#

HIST 1108 - United States History II

Credit Hours: 3

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. Course is transferable as general studies credit to all other state institutions of higher education in West Virginia for credit with the grade earned.

Transferable General Studies Course
HIST 1108~#

HIST 2211 - World Civilizations I

Credit Hours: 3

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. Course is transferable as general studies credit to all other state institutions of higher education in West Virginia for credit with the grade earned.

Transferable General Studies Course
HIST 2211~#

HIST 2212 - World Civilizations II

Credit Hours: 3

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. Course is transferable as general studies credit to all other state institutions of higher education in West Virginia for credit with the grade earned.

Transferable General Studies Course
HIST 2212~#

HIST 2213 - World Civilizations III

Credit Hours: 3

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. Course is transferable as general studies credit to all other state institutions of higher education in West Virginia for credit with the grade earned.

Transferable General Studies Course
HIST 2213~#

HIST 2250 - The Historian's Craft

Credit Hours: 3

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. Restrictions: History and Social Studies Education majors, or must have instructor's approval to register.

Prerequisite(s): ENGL 1102 and sophomore standing

HIST 3302 - West Virginia

Credit Hours: 3

This course covers West Virginia history, government and geography from the first settlements to the present time.

Prerequisite(s): HIST 1107, HIST 1108

HIST 3305 - History of National Security and Intelligence

Credit Hours: 3

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

Credit Hours: 3

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.

Prerequisite(s): HIST 1107, HIST 1108

HIST 3312 - Colonial America

Credit Hours: 3

Covers the American colonies from their beginnings to the end of the Revolutionary War.

Prerequisite(s): HIST 1107

HIST 3314 - History of the American Revolution

Credit Hours: 3

This course examines the political, economic, and social causes of the American Revolution from an Atlantic World context. In addition to the military history of the Revolution, the course will also study the home front, early American diplomatic efforts, and cultural problems that emerged during the conflict. Furthermore, this course will expose students to the historiographical debates surrounding the conflict.

Prerequisite(s): HIST 1107 ; Sophomore Standing

HIST 3316 - The Early Republic

Credit Hours: 3

Covers United States history from the Revolutionary War to the close of the Mexican War.

Prerequisite(s): HIST 1107

HIST 3317 - Civil War and Reconstruction

Credit Hours: 3

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.

Prerequisite(s): HIST 1107

HIST 3320 - Gilded Age and Progressive Era

Credit Hours: 3

This course focuses on key social, cultural, political, and economic developments in United States history from 1877 until 1920 -a time frame which encapsulates the Gilded Age and the Progressive Era. Major topics include the

Industrial Revolution, the labor movement, the immigrant experience, the rise of the New South, the impact of territorial expansion domestically and abroad, populism, progressivism, and World War I.

Prerequisite(s): HIST 1108; Sophomore Standing

HIST 3322 - Modern American History from 1920-1960

Credit Hours: 3

This course focuses on key social, cultural, political, and economic developments in United States history from 1920 until 1960 -a time frame in which a discernably modern American society emerged. Major topics include the Jazz Age and the Harlem Renaissance, 1920s nativism, the Great Depression, the New Deal and the modern presidency, American involvement in World War II, the emergence of the United States as a world power, the early stages of the Cold War between the United States and the Soviet Union, and important sociocultural and political developments of the 1950s.

Prerequisite(s): HIST 1108 ; Sophomore Standing

HIST 3324 - Recent America from 1960 to the Present

Credit Hours: 3

This course focuses on key social, cultural, political, and economic developments in United States history from 1960 to the present. Major topics include the social, cultural, and political upheavals of the 1960s, with particular attention to the "movement of movements" and the presidencies of JFK and LBJ; the evolution of the Cold War into the 1960s, especially by way of the conflict in Vietnam; the conservative ascendancy and the rise of the New Right, with close attention to the presidencies of Nixon and Reagan; the impact of the information revolution and globalization at the end of the twentieth century; America's continued changing role in the world, especially pre-and post-9/11; and significant sociocultural and political transformations at the turn-of-the-twenty-first century.

Prerequisite(s): HIST 1108 ; Sophomore Standing

HIST 3333 - Women in American History

Credit Hours: 3

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.

Prerequisite(s): HIST 1107 or HIST 1108

HIST 3335 - Women in World History

Credit Hours: 3

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

Credit Hours: 3

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.

Prerequisite(s): HIST 1107 or HIST 1108

HIST 3344 - African-American History and Culture

Credit Hours: 3

A survey of African-American experience in the United States, from the African cultural background and slavery through the present-day urban experience.

Prerequisite(s): HIST 1107 or HIST 1108

HIST 3351 - History of England

Credit Hours: 3

This course covers England's history from Roman rule to the present day.

Prerequisite(s): HIST 2211 or HIST 2212 or HIST 2213

HIST 3352 - History of Russia

Credit Hours: 3

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.

Prerequisite(s): HIST 2211 or HIST 2212 or HIST 2213

HIST 4405 - History of Africa

Credit Hours: 3

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.

Prerequisite(s): HIST 2211 or HIST 2212 or HIST 2213

HIST 4410 - History of Asia

Credit Hours: 3

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.

Prerequisite(s): HIST 2211 or HIST 2212 or HIST 2213

HIST 4415 - History of the Middle East: Muhammad to the Present

Credit Hours: 3

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.

Prerequisite(s): Sophomore Standing, HIST 2211 or HIST 2212 or HIST 2213

HIST 4421 - Colonial Latin American History

Credit Hours: 3

Colonial Latin American History is an introductory survey of early Latin America from the Pre-Columbian period through the Age of Revolution. No prior knowledge of the region is required. The course will focus on a series of historical problems including: the development of indigenous American cultures; European invasion and political consolidation; the formation of a new colonial society; and, various problems of race, ethnicity, class, and gender. Furthermore, this class will provide an interpretive framework for understanding the historical changes taking place by examining institutions, political and economic systems, and cultural developments.

Prerequisite(s): HIST 2211 , HIST 2212 OR HIST 2213 ; Sophomore Standing

HIST 4422 - Modern Latin American History

Credit Hours: 3

Modern Latin American History is an introductory survey of Latin America from the early republican period through the twenty-first century. No prior knowledge of the region is required. The course will focus on a series of historical problems including: post-independence political, economic, and social reforms; the end of slavery and increased ethnic conflict; and the development of national identities. Furthermore, this class will provide an interpretive framework for understanding the historical changes taking place by examining institutions, political and economic systems, and cultural developments.

Prerequisite(s): HIST 2211, HIST 2212 OR HIST 2213 ; Sophomore Standing

HIST 4425 - Medieval Europe

Credit Hours: 3

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.

Prerequisite(s): HIST 2211 or HIST 2212

HIST 4429 - Early Modern Europe

Credit Hours: 3

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.

Prerequisite(s): HIST 2212

HIST 4430 - 19th Century Europe

Credit Hours: 3

This course will trace the history of Europe from the French Revolution in 1789 to the outbreak of the Great War in 1914.

Prerequisite(s): HIST 2213

HIST 4431 - Recent Europe

Credit Hours: 3

Recent Europe covers the history of Europe from the beginning of World War I in 1914 through to the present. When Offered: Spring semester only

Prerequisite(s): HIST 2213

HIST 4450 - History of American Sexualities

Credit Hours: 3

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 historically 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.

Prerequisite(s): HIST 1107 or HIST 1108

HIST 4455 - Revolutions in History

Credit Hours: 3

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.

Prerequisite(s): HIST 2211 or HIST 2212 or HIST 2213

HIST 4475 - Philosophy of History

Credit Hours: 3

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.

Prerequisite(s): HIST 2211 or HIST 2212 or HIST 2213 or PHIL 2200

HIST 4498 - Senior Seminar

Credit Hours: 3

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. When Offered: Fall semester only

Prerequisite(s): For history majors only- senior standing

HIST 4499 - Selected Topics

Credit Hours: 3

Advanced study of topics specially selected by members of the history faculty according to student demand.

Prerequisite(s): Sophomore Standing and one (1) of the following courses: HIST 1107, HIST 1108, HIST 2211, HIST 2212, or HIST 2213

HIST 4998 - Undergraduate Research

Credit Hours: 0-6

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. Repeatable Restrictions: Sophomore-Senior Level

Prerequisite(s): Instructor approval required

Health Education

HLTA 1100 - Personal Health

Credit Hours: 2

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 1150 - Introduction to Health Education

Credit Hours: 3

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 1199 - Special Topics in Health

Credit Hours: 1-12

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

Credit Hours: 3

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

Credit Hours: 3

Writing Intensive

This course covers the identification, analysis, and evaluation of the most critical health problems confronting our society, including drug abuse and addiction.

Prerequisite(s): ENGL 1102 with a letter grade of C or better

HLTA 2210 - Disease Etiology

Credit Hours: 3

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.

Prerequisite(s): HLTA 1150

HLTA 3310 - School Health Content, Curricula & Programming

Credit Hours: 3

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.

Prerequisite(s): HLTA 2202, HLTA 2210, and Admission to Teacher Education

HLTA 3315 - Healthy Sexuality

Credit Hours: 3

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.

Prerequisite(s): HLTA 1150, sophomore standing or instructor approval

HLTA 3320 - Behavior Change Theory

Credit Hours: 3

Students in this course will examine theories, models, and constructs related to personal, environmental, and population-based health risk and health enhancing behaviors.

Prerequisite(s): HLTA 2210

HLTA 3325 - Instructional Strategies and Planning in School Health

Credit Hours: 3

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.

Prerequisite(s): HLTA 3310

HLTA 3355 - Readings in Health Education

Credit Hours: 2

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.

Prerequisite(s): HLTA 2202, HLTA 2210, and Admission to Teacher Education

HLTA 3360 - Communication Techniques for Health Promotion

Credit Hours: 2

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.

Prerequisite(s): HLTA 2210

HLTA 4400 - Health Education in the Elementary School

Credit Hours: 3

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.

Prerequisite(s): EDUC 2260

HLTA 4431 - Methods & Materials in School Health Instruction

Credit Hours: 3

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.

Prerequisite(s): HLTA 3310, HLTA 3325, and Admission to Teacher Education

HLTA 4440 - Health Research and Measurement Design

Credit Hours: 3

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.

Prerequisite(s): HLTA 3320

HLTA 4998 - Undergraduate Research

Credit Hours: 0-6

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. Repeatable Restrictions: Sophomore-Senior Level

Prerequisite(s): Instructor approval required

HLTA 4452 - Field Practicum in Community Health Portfolio

Credit Hours: 1

This course is taken concurrently with HLTA 4451 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.

Prerequisite(s): HLTA 3345

Corequisite(s): This course is taken concurrently with HLTA 4451

Honors

HONR 1100 - Honors Seminar

Credit Hours: 1

This seminar introduces students to critical thinking in a number of disciplines and initiates them into the standards required by the Honors Program.

HONR 2200 - Honors Mentoring

Credit Hours: 1

The Honors Mentoring course is for Honors students serving as mentors to incoming students in the Honors Program. Honors Program Mentors help incoming students acclimate to life in college, become familiar with the processes of the Honors Program, and become involved with the Honors community. This course may be repeated for credit. Sophomore standing required.

Prerequisite(s): Sophomore Standing

HONR 3301 - Honors Study/Travel

Credit Hours: 3

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

Credit Hours: 3

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.

Prerequisite(s): ENGL 1101 (with a grade of a "C" or better)

HONR 3350 - Honors Seminar in Special Topics

Credit Hours: 3

This interdisciplinary seminar explores topics of current interest and draws on the expertise of a number of faculty. Students examine the topic through a number of disciplinary perspectives to develop a rounded view of the topic. This seminar takes a problem-solution approach to the chosen topic so that students work toward potential solutions as they analyze the topic. Restricted to juniors and seniors; sophomores may be admitted with the instructor's approval. Three credits. Up to 12 credit hours Restrictions: Juniors and Seniors; Sophomores may be admitted with the instructor's approval.

HONR 4400 - Honors Thesis Design

Credit Hours: 2-3

Honors students will complete this course in preparation of their Honors Senior Thesis project. The course will introduce them to different research methodologies and provide them with information about the appropriate parameters for a senior thesis project. Students will complete the preliminary work necessary for the successful completion of their Honors senior thesis, including the identification of a faculty mentor in their field and the

production of a formal thesis proposal. Junior Standing Required.

Prerequisite(s): Junior or Senior standing

Human Services

HUSV 1103 - Community Service Learning

Credit Hours: 1

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.

Interdisciplinary Studies

LANG 1110 - Introduction to Global Perspectives

Credit Hours: 3

The course introduces students to global concepts, issues, and perspectives across disciplines and prepares them to research and plan for international travel experiences at Fairmont State and beyond. Students become familiar with selected examples of world issues and interact with faculty from programs across campus. The course also prepares students for international experience as part of their future studies and careers.

WGST 1150 - Women's and Gender Studies Colloquium

Credit Hours: 1

The Women's and Gender Studies Colloquium introduces students to current research developments concerning women, gender, and LGDTQ citizenry in multiple disciplines, including but not limited to science, law, sociology, music, literature, popular culture, religion, and politics. Repeatable for credit

WGST 2201 - Introduction to Women's and Gender Studies

Credit Hours: 3

Introduction to Women's and Gender Studies surveys a range of topics central to women's and gender studies as

they intersect with history, literature, philosophy, visual media, and critical theory among others. This course provides students with a foundational vocabulary and prepares them for deeper study of these matters within their chosen specializations.

WGST 4402 - Capstone Seminar in Women's and Gender Studies

Credit Hours: 3

The Capstone Seminar in Women's and Gender Studies allows students minoring in Women's and Gender Studies to design and execute a research project on topics of personal interest with a mentor specialist in that field of research.

Prerequisite(s): WGST 2201 Instructor Approval

Italian

ITAL 1101 - Elementary Italian I

Credit Hours: 3

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

Credit Hours: 3

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

Credit Hours: 1-12

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

Credit Hours: 3

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.

Prerequisite(s): ITAL 1102

ITAL 2202 - Intermediate Italian II

Credit Hours: 3

This course is a continuation of ITAL 2201. Students actively use language and conversational skills acquired in ITAL 2201 as they examine Italian housing, environment, music, theater, art, and literature. The course will be taught in Italian.

Prerequisite(s): ITAL 2201

ITAL 2299 - Special Topics in Italian

Credit Hours: 1-12

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

Credit Hours: 1-12

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

Credit Hours: 1-3

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.

Prerequisite(s): ENGL 1102

JOUR 2245 - Reporting and Multimedia News Writing

Credit Hours: 3

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.

Prerequisite(s): ENGL 1102

JOUR 2275 - Media Literacy

Credit Hours: 3
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.

Prerequisite(s): ENGL 1102

JOUR 2280 - History of American Journalism

Credit Hours: 3

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.

Prerequisite(s): ENGL 1102

JOUR 3315 - Multimedia Publishing

Credit Hours: 3

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.

Prerequisite(s): ENGL 1102

JOUR 3330 - Writing for Multimedia

Credit Hours: 3

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.

Prerequisite(s): JOUR 2245

JOUR 3335 - Photojournalism and Digital Imaging

Credit Hours: 3

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

Credit Hours: 3

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. Repeatable Restrictions: Seniors only.

Prerequisite(s): Instructor approval required

JOUR 3344 - Publications Practice

Credit Hours: 1-3

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

Credit Hours: 3

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 (UGC).

JOUR 3390 - Multimedia Ethics and Law

Credit Hours: 3

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-word" dilemmas using legal and philosophical concepts.

Teaching English to Speakers Of Other Languages

LANG 3300 - Intercultural Communication

Credit Hours: 3

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. Same Course As: COMM 3300

Prerequisite(s): COMM 2200 or COMM 2201 or COMM 2202

LANG 3301 - Theories of Language and their Application to English I

Credit Hours: 3

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. Same Course As: ENGL 3301

Prerequisite(s): ENGL 1102

LANG 3302 - Theories of Language and their Application to English II

Credit Hours: 3

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. Same Course As: ENGL 3302

Prerequisite(s): LANG 3301

LANG 4431 - Teaching English to Speakers of Other Languages

Credit Hours: 3

The study and practice in teaching the English language to nonnative speakers, grades 5-Adult. Same Course As: FREN 4431 and SPAN 4431

Prerequisite(s): FREN 2202 or SPAN 2202 or ITAL 2202 and LANG 3300 and LANG 3302

LANG 4432 - Teaching English to Speakers of Other Languages Practicum

Credit Hours: 3

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.

Prerequisite(s): LANG 4431

Manufacturing Engineering Technology

MANF 1100 - Materials and Processes

Credit Hours: 3

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

Credit Hours: 1-12

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

Credit Hours: 3

Techniques of engineering economy as related to cost, design and selection of materials.

Prerequisite(s): MATH 1520 or math equivalent

MANF 2250 - Total Quality & SPC

Credit Hours: 3

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.

Math

MATH 1199 - Special Topics in Mathematics

Credit Hours: 1-12

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

Credit Hours: 4

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. MATH 1407~^

Prerequisite(s): Admission into Fairmont State There are no minimum test score requirements for this course
Transferable General Studies Course
^MATH 1407~

MATH 1430 - College Algebra with Support

Credit Hours: 4

This course fulfills the same requirements as MATH 1530 - College Algebra and is intended for students who do not meet the prerequisites 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. MATH 1430~^

Prerequisite(s): Admission into Fairmont State. There are no minimum test score requirements for this course.
Transferable General Studies Course
^MATH 1430~

MATH 1507 - Fundamental Concepts of Mathematics

Credit Hours: 3

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. MATH 1507~^

Prerequisite(s): Math ACT \geq 19 or Math SAT-1 \geq 460 or SAT (new) Math \geq 510 or ACCUPLACER Next Gen QAS \geq 250 or MATH 1430 "C or better." No student may receive credit for BOTH MATH 1407 and MATH 1507.
Transferable General Studies Course
^MATH 1507~

MATH 1510 - Applied Technical Mathematics I

Credit Hours: 3

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. Restrictions: MAJORS in the College of Science and Technology.

Prerequisite(s): Math ACT ≥ 19 or Math SAT-1 ≥ 460 or SAT (new) Math ≥ 510 or ACCUPLACER Next Gen QAS ≥ 250 or MATH 1400

MATH 1520 - Applied Technical Mathematics II

Credit Hours: 3

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. Restrictions: MAJORS in the College of Science and Technology.

Prerequisite(s): MATH 1510 with a "C" or better or MATH 1101 with a C or better

MATH 1530 - College Algebra

Credit Hours: 3

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. MATH 1530~^

Prerequisite(s): Math ACT ≥ 21 or Math SAT-1 ≥ 500 or SAT (new) Math ≥ 530 or ACCUPLACER Next Gen QAS ≥ 260 No student may receive credit for BOTH MATH 1430 and MATH 1530.
Transferable General Studies Course
^MATH 1530~

MATH 1540 - Trigonometry

Credit Hours: 3

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. MATH 1540~^

Prerequisite(s): Math ACT ≥ 23 or Math SAT-1 ≥ 540 or SAT (new) Math ≥ 560 or ACCUPLACER Next Gen AAF \geq

260 or MATH 1430 "C or better" or MATH 1530 "C or better" or MATH 1112 "C or better."

Transferable General Studies Course
^MATH 1540~

MATH 1550 - Applied Statistics

Credit Hours: 3

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.

Prerequisite(s): Math ACT ≥ 21 or Math SAT-1 ≥ 500 or SAT (new) Math ≥ 530 or ACCUPLACER Next Gen QAS ≥ 260 or MATH 1102 or MATH 1112 or MATH 1430 or MATH 1520 or MATH 1530

MATH 1561 - Mathematical Reasoning

Credit Hours: 3

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.

Prerequisite(s): Math ACT ≥ 24 or Math SAT-1 ≥ 560 or SAT (new) Math ≥ 580 or ACCUPLACER Next Gen AAF ≥ 268 or MATH 1115 "C or better" or MATH 1540 "C or better" or (MATH 2251 and 2252 "C or better") or (MATH 2551 and 2552 "C or better")

MATH 1585 - Applied Calculus I

Credit Hours: 4

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. When Offered: On demand.

Prerequisite(s): 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

MATH 2299 - Special Topics in Mathematics

Credit Hours: 1-12

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.

Prerequisite(s): Courses with this number must have a prerequisite of MATH 2501 (Calculus I) or MATH 1561 (Introduction to Mathematical Reasoning) or greater.

MATH 2501 - Calculus I

Credit Hours: 4

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. MATH 2501~^

Prerequisite(s): Math ACT ≥ 25 or Math SAT-1 ≥ 570 or SAT (new) Math ≥ 590 or ACCUPLACER Next Gen AAF ≥ 276 or MATH 1115 or MATH 1540 or MATH 1186 or MATH 1586

Transferable General Studies Course
^MATH 2501~

MATH 2502 - Calculus II

Credit Hours: 4

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.

Prerequisite(s): MATH 1190 or MATH 2501

MATH 2510 - Mathematical Logic

Credit Hours: 3

This course covers sentential and general theory of inference, theory of proof and definition and elementary intuitive set theory. When Offered: Spring semester only

Prerequisite(s): MATH 1170 or MATH 1561 or MATH 1125

MATH 2520 - Introduction to the Theory of Numbers

Credit Hours: 3

Topics include prime numbers, the unique factorization theorem, congruences, Diophantine equations, primitive roots and the quadratic reciprocity theorem. When Offered: Spring Semester Even Years Only

Prerequisite(s): MATH 1190 or MATH 2501

MATH 2541 - Fundamentals of Data Science

Credit Hours: 3

This course covers mathematical structures crucial for data scientists. Topics include set theory, essentials of matrices, graphs and trees, and a treatment of some useful probability concepts. All topics will be paired with appropriate software. When Offered: Spring Same Course As: COMP 2541

Prerequisite(s): MATH 1550 and COMP 1110

MATH 2542 - Applied Data Science

Credit Hours: 3

This course provides an overview of data science, introduces the different steps involved in data science, and provides the students hands-on experience with tools and methods. Topics include data acquisition and cleaning, data processing, data organization and management, data analysis, data visualization, data warehousing, and data security/privacy. When Offered: Fall Same Course As: COMP 2542

Prerequisite(s): MATH 1550 and COMP 1110

MATH 2551 - Structure of the Real Numbers

Credit Hours: 3

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.

Prerequisite(s): Math ACT ≥ 23 or Math SAT-1 ≥ 540 or SAT (new) Math ≥ 560 or ACCUPLACER Next Gen AAF ≥ 260 or MATH 1112 or MATH 1430 or MATH 1530

MATH 2552 - Data Analysis and Geometry

Credit Hours: 3

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.

Prerequisite(s): Math ACT ≥ 23 or Math SAT-1 ≥ 540 or SAT (new) Math ≥ 560 or ACCUPLACER Next Gen AAF ≥ 260 or MATH 1112 or MATH 1430 or MATH 1530

MATH 2554 - Topics in Math History

Credit Hours: 2

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. When Offered: Spring semester only

Prerequisite(s): MATH 2501

MATH 2562 - Introduction to Discrete Mathematics

Credit Hours: 3

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.

Prerequisite(s): MATH 1170 or MATH 1125 or MATH 1561

MATH 2563 - Transition to Higher Mathematics

Credit Hours: 3

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. When Offered: Fall semester only

Prerequisite(s): MATH 1170 or MATH 1561 or (MATH 1125 and MATH 1190/MATH 2501)

MATH 3399 - Special Topics in Mathematics

Credit Hours: 1-12

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.

Prerequisite(s): Courses with this number must have a prerequisite of MATH 2502 (Calculus II) or both MATH 2501 (Calculus I) and MATH 1561 (Introduction to Mathematical Reasoning) or greater.

MATH 3503 - Calculus III

Credit Hours: 4

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. When Offered: Fall semester only

Prerequisite(s): MATH 3315 or MATH 2502

MATH 3504 - Differential Equations

Credit Hours: 3

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. When Offered: Spring Semester Odd Years Only

Prerequisite(s): MATH 3315 or MATH 2502

MATH 3520 - Linear Algebra

Credit Hours: 3

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. When Offered: Fall Semester Only

Prerequisite(s): MATH 3315 or MATH 2502.

MATH 3540 - Numerical Analysis

Credit Hours: 3

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. When Offered: Fall Semester Odd Years Only

Prerequisite(s): COMP 1120 and (MATH 3315 or MATH 2502)

MATH 3550 - Probability

Credit Hours: 3

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. When Offered: Spring semester only

Prerequisite(s): MATH 2502 OR concurrent enrollment in MATH 2502

MATH 3553 - Math Methods for Elementary Teachers

Credit Hours: 3

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 microteaching and construction of a NCTM Standards-based unit.

Prerequisite(s): (MATH 2251 or MATH 2551) and (MATH 2252 or MATH 2552) and EDUC 2260 with a C or better in each Admission to Teacher Education

MATH 3570 - Modern Geometry

Credit Hours: 3

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. When Offered: Fall Semester Even Years Only

Prerequisite(s): MATH 1125 or MATH 1561 and (MATH 1190 or MATH 2501)

MATH 4400 - Seminar

Credit Hours: 1-3

Prerequisite(s): Instructor approval required

MATH 4499 - Special Topics in Mathematics

Credit Hours: 1-12

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.

Prerequisite(s): Courses with this number must have a prerequisite of MATH 2502 (Calculus II) and MATH 2563 (Transition to Higher Mathematics) or greater

MATH 4510 - Data Science Capstone

Credit Hours: 3

The focus of this course is on preparing students for the workforce through a large-scale project generated either internally or through contacts with local or regional industry. In the process, students will learn about advanced Data Science topics like big data analysis, distributed data analytics, data warehousing, predictive modeling, and

simulations. When Offered: On demand. Same Course As: COMP 4510

MATH 4520 - Abstract Algebra

Credit Hours: 3

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. When Offered: Spring Semester Only

Prerequisite(s): ENGL 1102, (MATH 1190 or MATH 2501) and (MATH 2212 or MATH 2563)

MATH 4531 - Methods and Materials in Teaching Mathematics

Credit Hours: 3

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. When Offered: Fall Semester Only

Prerequisite(s): Admission to Teacher Education

MATH 4580 - Topology

Credit Hours: 3

This course consists of the study of topological spaces and notions, including continuity, convergence, separation, compactness and connectedness. When Offered: Spring Semester Odd Years Only

Prerequisite(s): (MATH 2212 or MATH 2563) and (MATH 3316 or MATH 3503)

MATH 4590 - Real Analysis

Credit Hours: 3

Covers real numbers, topology of the reals, infinite series, continuous functions, sequences and series of functions, differentiation, integration and power series. When Offered: Spring Semester Even Years Only

Prerequisite(s): (MATH 2212 or MATH 2563) and (MATH 3316 or MATH 3503)

MATH 4998 - Undergraduate Research

Credit Hours: 0-6

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. Repeatable Restrictions: Sophomore-Senior Level

Prerequisite(s): Instructor approval required

Mechanical Engineering Technology

MECH 1100 - Statics

Credit Hours: 3

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.

Prerequisite(s): MATH 1520 or math equivalent

MECH 1199 - Special Topics in Mechanical Engineering Technology

Credit Hours: 1-12

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

Credit Hours: 4

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.

Prerequisite(s): MECH 1100 with a C or better in both

MECH 2210 - Thermodynamics I

Credit Hours: 3

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.

Prerequisite(s): MECH 1100 with a C or better

MECH 2220 - Fluid Mechanics

Credit Hours: 3

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.

Prerequisite(s): TECH 2290 or math equivalent

MECH 2240 - Machine Design I

Credit Hours: 3

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.

Prerequisite(s): MECH 2200

MECH 3300 - Thermodynamics II

Credit Hours: 3

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.

Prerequisite(s): MECH 2210

MECH 3320 - Dynamics

Credit Hours: 3

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. Restrictions: Baccalaureate majors only.

Prerequisite(s): MECH 1100 and TECH 3300 or math equivalent

MECH 3330 - Heat Transfer I

Credit Hours: 3

A study of heat energy interactions in solids, liquids, and gases. Topics include fundamental laws of conduction, convection and radiation heat transfer. Restrictions: Baccalaureate majors only.

Prerequisite(s): PHYS 1102, TECH 3300 or math equivalent

MECH 3340 - Heating, Air Conditioning and Ventilation

Credit Hours: 3

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.

Prerequisite(s): MECH 2220, MECH 3300, and MECH 3330

MECH 3350 - Numerical Methods

Credit Hours: 3

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.

Prerequisite(s): COMP 1110, PHYS 1101, and either TECH 2290 or math equivalent

MECH 4400 - Mechanical Measurements

Credit Hours: 3
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.

Prerequisite(s): ENGL 1103, MECH 3320 or
Corequisite(s): MECH 3320

MECH 4410 - Thermodynamics III

Credit Hours: 3

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.

Prerequisite(s): MECH 3300

MECH 4430 - Heat Transfer II

Credit Hours: 3

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.

Prerequisite(s): MECH 3330

MECH 4440 - Engineering Systems Design Laboratory

Credit Hours: 3

A study of analog, digital and mixed engineering systems, similitude of mechanical and electrical engineering systems, dimensional analysis and theory of models.

Prerequisite(s): MECH 3300, MECH 3320

MECH 4998 - Undergraduate Research

Credit Hours: 0-6

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. Repeatable Restrictions: Sophomore-Senior Level

Prerequisite(s): Instructor approval required

Management

MGMT 3308 - Human Resource Management

Credit Hours: 3

A study of the field of personnel management and industrial relations, including its background, development and modern practices.

Prerequisite(s): BSBA 2209

MGMT 3350 - Small Business Management

Credit Hours: 3

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.

Prerequisite(s): BSBA 2204; BSBA 2209; BSBA 2221

MGMT 3371 - Employee Relations

Credit Hours: 3

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.

Prerequisite(s): MGMT 3308

MGMT 3372 - Human Resource Selection and Evaluation

Credit Hours: 3

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.

Prerequisite(s): MGMT 3308

MGMT 3390 - Organizational Behavior

Credit Hours: 3

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.

Prerequisite(s): BSBA 2209, BISM 2800

MGMT 3500 - Project Management

Credit Hours: 3

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.

Prerequisite(s): BSBA 2209 Principles of Management

MGMT 4400 - Organizational Theory and Design

Credit Hours: 3

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.

Prerequisite(s): BSBA 2209

MGMT 4402 - Organizational Change and Development

Credit Hours: 3

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.

Prerequisite(s): MGMT 3308, MGMT 3390

MGMT 4405 - Operations Management

Credit Hours: 3

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.

Prerequisite(s): BSBA 3310, BSBA 2209

MGMT 4409 - Quantitative Management

Credit Hours: 3

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.

Prerequisite(s): (BISM 1500, BSBA 3310)

MGMT 4998 - Undergraduate Research

Credit Hours: 0-6

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Prerequisite(s): Instructor approval required

Marketing

MKTG 3305 - Supply Chain Management

Credit Hours: 3

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.

Prerequisite(s): BSBA 2204

MKTG 3310 - Consumer Behavior

Credit Hours: 3

A study of the activities, behaviors and processes exhibited by consumers, directly involving the selection, procurement, consumption and disposition of products and services.

Prerequisite(s): BSBA 2204

MKTG 3320 - Advertising and Sales Promotion

Credit Hours: 3

This is a survey course of social, psychological and some technical aspects of advertising and sales promotion for both business and journalism students.

Prerequisite(s): BSBA 2204

MKTG 3340 - Marketing Research

Credit Hours: 3

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.

Prerequisite(s): BSBA 3310, BSBA 2204

MKTG 3399 - Special Topics in Marketing

Credit Hours: 1-6

This is an advanced studies course in special select marketing topics, to be determined by the instructor and approved by the Dean.

Prerequisite(s): 12 credit hours in Marketing

MKTG 3400 - Selling and Sales Management

Credit Hours: 3

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.

Prerequisite(s): BSBA 2204, COMM 2202

MKTG 3500 - New Product Decisions

Credit Hours: 3

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.

Prerequisite(s): BSBA 2204

MKTG 4450 - Marketing Management

Credit Hours: 3

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.

Prerequisite(s): MKTG 3310, MKTG 3320, MKTG 3340

MKTG 4998 - Undergraduate Research

Credit Hours: 0-6

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. Repeatable Restrictions: Sophomore-Senior Level

Prerequisite(s): Instructor approval required

Music

MUSI 1100 - Introduction to Music Education

Credit Hours: 1

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. When Offered: Fall, odd years only
Restrictions: Music majors and Music Education majors only.

MUSI 1101 - Concerts, Recitals, and Seminars

Credit Hours: 0

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. Consult the Department of Music Handbook for specific information. Repeatable Restrictions: Music, Music Education majors and Music minors

MUSI 1102 - Introduction to Keyboard I

Credit Hours: 1

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

Credit Hours: 1

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.

Prerequisite(s): MUSI 1102 or instructor approval required

MUSI 1104 - Functional Piano I

Credit Hours: 1

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. When Offered: Fall semester only
Restrictions: Music, Music Education Major, Music minor

MUSI 1105 - Functional Piano II

Credit Hours: 1

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. When Offered: Spring semester only
Restrictions: Music, Music Education majors and Music minors only.

Prerequisite(s): MUSI 1104

MUSI 1106 - Guitar Class

Credit Hours: 1

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)

Credit Hours: 2

This course is designed for beginning music students who need additional background in theory.

MUSI 1111 - Introduction to Music Technology

Credit Hours: 3

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. When Offered: Spring semester only
Restrictions: Music, Music Education majors, Music minors only.

MUSI 1112 - Piano Ensemble

Credit Hours: 1

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

Prerequisite(s): Instructor approval required

MUSI 1113 - Theory I

Credit Hours: 3

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. When Offered: Fall semester only

Corequisite(s): This course will run concurrently with MUSI 1114, Aural Skills I

MUSI 1114 - Aural Skills I

Credit Hours: 1

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. When Offered: Fall semester only

Corequisite(s): This course will run concurrently with MUSI 1113, Theory I

MUSI 1115 - Theory II

Credit Hours: 3

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. When Offered: Spring semester only

Prerequisite(s): MUSI 1113 and MUSI 1114 with a grade of "C" or higher

Corequisite(s): This course will run concurrently with MUSI 1116, Aural Skills II

MUSI 1116 - Aural Skills II

Credit Hours: 1

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. When Offered: Spring semester only

Prerequisite(s): MUSI 1113 and MUSI 1114 with a grade of "C" or higher

Corequisite(s): This course will run concurrently with MUSI 1115, Theory II

MUSI 1117 - Rhythmic Reading (on demand)

Credit Hours: 1

This course is designed for all students to improve reading rhythms in music. When Offered: Spring semester

MUSI 1118 - Exploring Music in America

Credit Hours: 3

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

Credit Hours: 3

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

Credit Hours: 3

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. Course is transferable as general studies credit to all other state institutions of higher education in West Virginia for credit with the grade earned.

Transferable General Studies Course
MUSI 1120~

MUSI 1139 - Voice Class

Credit Hours: 1

A study of the fundamentals of voice production: breathing, resonance, articulation, and style.

MUSI 1140 - Music Private Lessons

Credit Hours: 1

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. repeatable

MUSI 1160 - Applied Music I

Credit Hours: 2

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. repeatable Restrictions: Music, Music Education Majors; music minors with permission of the instructor.

MUSI 1167 - Collegiate Singers

Credit Hours: 1

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

Credit Hours: 2

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 When Offered: Fall semester only

MUSI 1169 - Wind Ensemble

Credit Hours: 1

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 When Offered: Spring semester only

MUSI 1176 - Guitar Ensemble

Credit Hours: 1

This is the chamber ensemble for music and music education majors and minors in guitar. Repeatable Restrictions: Admission is by audition and at the discretion of the director.

MUSI 1199 - Special Topics in Music

Credit Hours: 1-12

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

Credit Hours: 1

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. When Offered: Fall semester only

Prerequisite(s): MUSI 1105

MUSI 2205 - Functional Piano IV

Credit Hours: 1

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. When Offered: Spring semester only

Prerequisite(s): MUSI 2204

MUSI 2206 - Introduction to Music Literature and Research Methods

Credit Hours: 3

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. When Offered: Fall Semester only Restrictions: Music majors and minors only.

MUSI 2207 - History of Musical Theatre

Credit Hours: 3

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

Credit Hours: 1

This course is open to all students with sufficient background in music. A working knowledge of string instruments is attained through class instruction. When Offered: Fall semester only

MUSI 2213 - Brass Class I-II

Credit Hours: 1

This course is open to all students with sufficient background in music. A working knowledge of brass instruments is attained through class instruction. When Offered: Fall semester only

MUSI 2215 - Woodwind Class I-II

Credit Hours: 1

This course is open to all students with sufficient background in music. A working knowledge of woodwind instruments is attained through class instruction. When Offered: Spring semester only

MUSI 2217 - Percussion Class

Credit Hours: 1

Open to all students with sufficient background in music. A working knowledge of percussion instruments is attained through class instruction. When Offered: Spring semester only

MUSI 2219 - Guitar Class for Music Majors

Credit Hours: 1

This course is in the fundamentals of playing the guitar. It designed to address the needs of the music education major. When Offered: Spring semester only Restrictions: Music education majors only.

MUSI 2223 - Theory III

Credit Hours: 3

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. When Offered: Fall semester only

Prerequisite(s): MUSI 1115 and MUSI 1116 with a grade of "C" or higher

MUSI 2224 - Aural Skills III

Credit Hours: 1

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. When Offered: Fall semester only

Prerequisite(s): MUSI 1115 and MUSI 1116 with a grade of "C" or higher

Corequisite(s): This course will run concurrently with MUSI 2223, Theory III

MUSI 2225 - Theory IV

Credit Hours: 3

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. When Offered: Spring semester only

Prerequisite(s): MUSI 2223 and MUSI 2224 with a grade of "C" or higher

Corequisite(s): This course will run concurrently with MUSI 2226, Aural Skills IV

MUSI 2226 - Aural Skills IV

Credit Hours: 1

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. When Offered: Spring semester only

Prerequisite(s): MUSI 2223 and MUSI 2224 with a grade of "C" or higher

Corequisite(s): This course will run concurrently with MUSI 2225, Theory IV

MUSI 2245 - Fundamentals of Conducting

Credit Hours: 2

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. Students will also study conducting terminology and transposition. These skills will be practiced and applied by conducting musical works in class. When Offered: Fall semester only

Prerequisite(s): MUSI 2225 or by instructor approval

MUSI 2247 - Jazz Ensemble

Credit Hours: 1

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

Credit Hours: 1

(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

Credit Hours: 1

Open to advanced woodwind students. Includes various Woodwind ensembles. Repeatable Restrictions: Audition or admission at the discretion of the director.

MUSI 2251 - Instrument Repair and Maintenance

Credit Hours: 2

A survey of the simple instrument repair problems that are commonly encountered in a school music program. Practical repair experiences are included where appropriate. When Offered: Offered on demand

MUSI 2275 - Advanced Brass Ensemble

Credit Hours: 1

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 Restrictions: Audition or admission at the discretion of the director.

MUSI 2277 - Chamber Choir

Credit Hours: 1

Open to all students. Designed to give students experience in small ensemble participation. This group performs a wide variety of a cappella music. Repeatable Restrictions: Audition at beginning of each semester.

MUSI 2279 - Advanced Percussion Ensemble

Credit Hours: 1

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 Restrictions: Audition or admission at the discretion of the director.

MUSI 2280 - African Drum and Dance Ensemble

Credit Hours: 1

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

Credit Hours: 2

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)

Credit Hours: 2

A study of the style and technique involved in the writing of sixteenth century polyphonic music.

Prerequisite(s): MUSI 2225

MUSI 3311 - Form and Analysis

Credit Hours: 2

A study of form and the analysis of music, as found in the literature from the seventeenth to the twentieth centuries.

Prerequisite(s): MUSI 2225 with a grade of "C" or higher

MUSI 3312 - Composition (on demand)

Credit Hours: 2

This course is designed to teach, through the study of various types of music, a basic and accepted approach to creative composition.

Prerequisite(s): MUSI 2225

MUSI 3313 - Music in Western Civilization to 1750

Credit Hours: 3

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. Restrictions: Music Majors only.

Prerequisite(s): ENGL 1102

MUSI 3314 - Music in Western Civilization since 1750

Credit Hours: 3

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. Restrictions: Music Majors only.

Prerequisite(s): ENGL 1102

MUSI 3320 - Techniques of Keyboard Accompanying

Credit Hours: 1

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. When Offered: Offered on demand

MUSI 3328 - Elementary Music Methods and Materials for Majors

Credit Hours: 3

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. When Offered: Fall semester only

Prerequisite(s): MUSI 1139 and MUSI 2219

MUSI 3330 - Music in the Elementary Classroom.

Credit Hours: 3

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.

Prerequisite(s): Admission to Teacher Education

MUSI 3347 - Advanced Conducting

Credit Hours: 2

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. When Offered: Spring semester only

Prerequisite(s): MUSI 2245

MUSI 3360 - Applied Music II

Credit Hours: 2

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. Restrictions: Music Majors and Secondary Education Music Majors only.

Prerequisite(s): Music majors must have passed the Sophomore Evaluation in the Music program

MUSI 3361 - Introduction to Folk Music

Credit Hours: 3

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. Same Course As: FOLK 3361

MUSI 4425 - Marching Band Techniques (on demand)

Credit Hours: 2

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

Credit Hours: 2

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. Restrictions: Music Education majors only.

MUSI 4430 - Choral Methods, Materials and Administration

Credit Hours: 2

Advanced and practical application of choral conducting techniques, methods, administration, materials used in teaching choral music in the middle and secondary schools. Restrictions: Music Education Majors only.

MUSI 4431 - Methods and Materials in Teaching Music

Credit Hours: 2

Techniques, methods and materials used in teaching and administering general music classes and high school music

classes. When Offered: Fall semester Restrictions: Music Education Majors only.

MUSI 4432 - Choral Workshop (on demand)

Credit Hours: 2

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)

Credit Hours: 2

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)

Credit Hours: 2

Study of the composition of choral and instrumental works. Students will hear works performed by live groups.

MUSI 4435 - Music Production Workshop

Credit Hours: 1-3

A laboratory experience in music theater. The course culminates in a public presentation of opera or musical comedy.

Prerequisite(s): Instructor approval required

MUSI 4437 - Area Studies in Music Literature I

Credit Hours: 1-3

Concentrated study of selected areas of music, to be determined by the instructor. Instructor approval required. Repeatable

MUSI 4440 - Senior Recital

Credit Hours: 1

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 - Theory Workshop (on demand)

Credit Hours: 2-3

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 4443 - Theory Workshop (on demand)

Credit Hours: 2-3

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)

Credit Hours: 1-2

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
When Offered: Offered on demand

Prerequisite(s): MUSI 3328 Instructor approval required

MUSI 4998 - Undergraduate Research

Credit Hours: 0-6

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. Repeatable Restrictions: Sophomore-Senior Level

Prerequisite(s): Instructor approval required

Museum Studies

MUSM 1100 - Introduction to Museums

Credit Hours: 3

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

Credit Hours: 3

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. Same Course As: Also listed as FOLK 2150.

MUSM 3210 - Museum Interpretation and Education

Credit Hours: 3

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.

Prerequisite(s): MUSM 1100

MUSM 3220 - Museum Collections Management

Credit Hours: 3

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.

Prerequisite(s): MUSM 1100

MUSM 3230 - Exhibit Design and Construction

Credit Hours: 3

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.

Prerequisite(s): MUSM 1100

MUSM 3301 - Material Culture

Credit Hours: 3

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

Credit Hours: 3

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. 1 credit repeated three times for a total of 3 required credits or 3 credits taken at one time.

Prerequisite(s): Option A: 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) Option B: All other courses in the program: MUSM 1100, MUSM 2150, MUSM 3210, MUSM 3220 and MUSM 3230 with Program Coordinator/Instructor approval

National Security and Intelligence

NSIS 3300 - Intelligence Research

Credit Hours: 3

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

Credit Hours: 3

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

Credit Hours: 3

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

Credit Hours: 3

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

Credit Hours: 3

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

Credit Hours: 3

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

Credit Hours: 3

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

Credit Hours: 3

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

Credit Hours: 3

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

Credit Hours: 3

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

Credit Hours: 3

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

Credit Hours: 3

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

Credit Hours: 3

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. Same Course As: POLI 4400 and CRIM 4400

Prerequisite(s): ENGL 1102 Junior or Senior status

NSIS 4411 - Area Studies

Credit Hours: 3

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. Same Course As: POLI 4411

Prerequisite(s): Instructor approval required if offered as an arranged class; no prerequisite required if class meets regularly

NSIS 4412 - Area Studies

Credit Hours: 3

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. Same Course As: POLI 4412

Prerequisite(s): Instructor approval required if offered as an arranged class; no prerequisite required if class meets regularly

NSIS 4413 - Area Studies

Credit Hours: 3

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. Same Course As: POLI 4413

Prerequisite(s): Instructor approval required if offered as an arranged class; no prerequisite required if class meets regularly

NSIS 4425 - Military Justice

Credit Hours: 3

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

Credit Hours: 3

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

Credit Hours: 3

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

Credit Hours: 3

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

Credit Hours: 1-12

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

NSIS 4460 - National Security and Intelligence Practicum

Credit Hours: 1-12

A supervised professional study conducted in the National Security and Intelligence field setting.

Prerequisite(s): Instructor approval required

NSIS 4490 - Capstone Seminar in National Security and Intelligence

Credit Hours: 3

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.

Prerequisite(s): Senior standing or Instructor approval required

NSIS 4499 - Special Topics in National Security and Intelligence

Credit Hours: 1-12

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

Credit Hours: 0-6

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. Repeatable Restrictions: Sophomore-Senior Level

Prerequisite(s): Instructor approval required

Nursing

NURS 1025 - Introduction to Nursing

Credit Hours: 3

This course is designed to help students make the transition into college learning, prepare for the nursing

program, and explore the field of nursing. This course is highly recommended for pre-nursing students.

NURS 1101 - Fundamentals of Nursing

Credit Hours: 7

Lecture/Lab Hours: 5 hours class, 6 hours lab per week
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.

Prerequisite(s): Admission to the ASN Nursing Program. NUTR 1110, BIOL 1180 and BIOL 1181

Corequisite(s): NUTR 1110 , BIOL 1180 and BIOL 1181

NURS 1108 - Nursing Care of Adults I

Credit Hours: 6

Lecture/Lab Hours: 4 hours class, 6 hours lab per week
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

Prerequisite(s): NURS 1101, NURS 1120, BIOL 2205.

Corequisite(s): NURS 1120 and BIOL 2205 may be taken concurrently.

NURS 1115 - Maternal-Child Nursing I

Credit Hours: 4

Lecture/Lab Hours: 3 hour class, 3 hours lab per week
Maternal-Child Nursing I focuses on care of the mother in all stages 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.

Prerequisite(s): NURS 1108, NURS 1120, and PSYC 1101.

Corequisite(s): NURS 1108, NURS 1120, and PSYC 1101 may be taken concurrently.

NURS 1120 - Nursing Pharmacology I

Credit Hours: 1

Lecture/Lab Hours: 1 hour class per week

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.

Prerequisite(s): NURS 1101

Corequisite(s): NURS 1108 and NURS 1115

NURS 1125 - Basic Drug Dosage Calculations for Nurses

Credit Hours: 2

The course focuses on foundational components of safe medication calculation with emphasis on critical thinking techniques to effectively, accurately and safely calculate basic dosages of medications across the lifespan. It includes reading, interpreting and solving basic drug calculation problems encountered in the preparation of medication.

Prerequisite(s): Admission to or enrollment in the nursing program.

NURS 1199 - Special Topics in Nursing

Credit Hours: 1-12

This course is concerned with special studies in selected topics, to be determined by the instructor and approved by the School's Dean. When Offered: Offered as needed Credits earned will be applicable as free electives in degree and certificate programs.

NURS 1200 - Nursing Care Across the Lifespan I

Credit Hours: 7

Lecture/Lab Hours: 5 hours class, 4 hours lab per week
This course focuses on building the LPN to ASN student knowledge regarding spirit of inquiry, nursing judgment, professional identity and human flourishing in the nurse's role caring for patients across the lifespan. Emphasis is placed on basic nursing concepts, fluid and electrolytes, normal pregnancy and diseases affecting the reproductive, immune, gastrointestinal, integumentary and renal systems.

Prerequisite(s): Admission to the LPN to ASN program

Corequisite(s): NURS 1201 and NURS 1206

NURS 1201 - Mental Health Nursing Across the Lifespan

Credit Hours: 3

Lecture/Lab Hours: 2 hours class, 1-hour clinical per week
This course focuses on common mental health problems of

patients across the lifespan. Emphasis is placed on developing the spirit of inquiry, nursing judgment, professional identity and human flourishing in the nurse's role caring for patients with mental health concerns across the lifespan. This course stresses self-awareness, therapeutic communication, intra-professional and interpersonal collaborative relationships.

Prerequisite(s): Admission to the LPN to ASN program, PSYC 1101, ENGL 1101

Corequisite(s): NURS 1200 NURS 1206

NURS 1206 - Health Assessment Across the Lifespan

Credit Hours: 2

Lecture/Lab Hours: 2 Hour class

This course focuses on expanding the principles and skills underlying assessment of the health status of patients across the lifespan. Emphasis is placed on interviewing skills, health histories, and the physical and psychosocial findings along with understanding disease prevention and health promotion strategies.

Prerequisite(s):

Admission to the LPN to ASN program.

Corequisite(s): NURS 1200 , NURS 1201

NURS 1225 - Advanced Drug Dosage Calculations for Nurses

Credit Hours: 1

The course focuses on advanced components of safe medication calculation with emphasis on critical thinking techniques on effectively, accurately and safely calculate complex dosages of medications across the lifespan. It includes advances IV calculations (such as anticoagulation, insulin, and weight based), pediatric dosages and obstetrical medications.

Prerequisite(s): Successful completion of NURS 1108, NURS 1115 and NURS 1120

Corequisite(s): NURS 1108, NURS 1115 and NURS 1120

NURS 2110 - Nursing Pharmacology II

Credit Hours: 1

Lecture/Lab Hours: 1 hour class per week

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.

Prerequisite(s): NURS 1120

Corequisite(s): NURS 2115 , NURS 2203 and NURS 2208

NURS 2115 - Maternal-Child II

Credit Hours: 2

Lecture/Lab Hours: 15 hours class, 1.5 hours lab per week
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.

Prerequisite(s): NURS 1115, NURS 2110

Corequisite(s): NURS 2110 , NURS 2203 , NURS 2208

NURS 2203 - Mental Health Nursing

Credit Hours: 4

Lecture/Lab Hours: 3 hours class, 3 hours lab per week
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.

Prerequisite(s): PSYC 1101, NURS 1108

Corequisite(s): NURS 2110 , NURS 2115, NURS 2208

NURS 2208 - Nursing Care of Adults II

Credit Hours: 6

Lecture/Lab Hours: 4 hours class, 6 hours lab per week
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.

Prerequisite(s): BIOL 2205, NURS 1108

Corequisite(s): NURS 2110, NURS 2115 , NURS 2203

NURS 2210 - Nursing Pharmacology III

Credit Hours: 1

Lecture/Lab Hours: 1 hour class per week
The third pharmacology course is designed to introduce the concepts of pharmacokinetics, classifications, indications, contraindications, 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.

Prerequisite(s): NURS 2110

Corequisite(s): NURS 2211 , NURS 2212 , NURS 2215 , NURS 2220

NURS 2211 - Professional Role Transition

Credit Hours: 2

Lecture/Lab Hours: 2 hours class per week
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

Prerequisite(s): NURS 2203 , NURS 2208 and NURS 2115

Corequisite(s): NURS 2210 , NURS 2212 , NURS 2215 , NURS 2220

NURS 2212 - Nursing Care of Adults III

Credit Hours: 3

Lecture/Lab Hours: 3 hours class per week
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

Prerequisite(s): NURS 2110 , NURS 2115 , NURS 2203 , NURS 2208

Corequisite(s): NURS 2210 , NURS 2211 , NURS 2215 , NURS 2220

NURS 2215 - Maternal-Child Nursing III

Credit Hours: 2

Lecture/Lab Hours: 15 hours class, 1.5 hours lab per week
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

Prerequisite(s): NURS 2115, NURS 2110
Corequisite(s): NURS 2210 , NURS 2211 , NURS 2212 , NURS 2220

NURS 2220 - Nursing Capstone Clinical

Credit Hours: 2
Lecture/Lab Hours: 8 hours lab per week
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 in an inter-professional collaborative practice environment.

Prerequisite(s): NURS 2110 , NURS 2115 , NURS 2203 , NURS 2208
Corequisite(s): NURS 2212, NURS 2211,NURS 2212 , NURS 2215

NURS 2301 - Nursing Care Across the Lifespan II

Credit Hours: 7
Lecture/Lab Hours: 5 hours theory, 4 hours lab per week
This course focuses on building the LPN to ASN student knowledge regarding spirit of inquiry, nursing judgment, professional identity and human flourishing in the nurse's role caring for patients across the lifespan. Emphasis is placed on hematologic, cardiovascular, respiratory, endocrine and neurologic systems.

Prerequisite(s): NURS 1200, NURS 1201 ,NURS 1206 and BIOL 2205
Corequisite(s): NURS 2304 BIOL 2205

NURS 2304 - Pharmacology Across the Lifespan

Credit Hours: 3
This course focuses on the clinical application within the context of the provision of nursing care to patients across the lifespan based on consideration given to physiological, psychological, cultural, spiritual and genetic needs of the patient. Explores indications, modes of action, effects, contraindications, interactions, and outcomes of selected medications. Specific nursing responsibilities related to medication administration and drug calculations are emphasized.

Prerequisite(s): NURS 1200 , NURS 1201 and NURS 1206
Corequisite(s): NURS 2301 and BIOL 2205

NURS 2401 - Nursing Care Across the Lifespan III

Credit Hours: 5
Lecture/Lab Hours: 5 hour class per week
This course focuses on building the LPN to ASN student knowledge regarding spirit of inquiry, nursing judgment, professional identity and human flourishing in the nurse's role caring for patients across the lifespan. Emphasis is placed on nursing care of patients with complex and critical health problems.

Prerequisite(s): NURS 2301 , BIOL 2205
Corequisite(s): NURS 2403 and NURS 2405

NURS 2403 - Capstone Clinical Experience

Credit Hours: 4
Lecture/Lab Hours: 8 hours per semester
This course provides a culminating experience for the LPN to ASN student by providing opportunities for them to assume the role of a registered professional nurse through provision of high-quality patient-centered care, apply leadership concepts and skills in decision making, practice interprofessional and intraprofessional collaboration, and direct management of care. This course will be taken in student's last semester.

Prerequisite(s): NURS 2301 , NURS 2304
Corequisite(s): NURS 2401 , NURS 2405

NURS 2405 - LPN-RN Role Transition

Credit Hours: 3
Lecture/Lab Hours: 3 hour class per week
This course focuses on the role transition from an LPN to a RN. Emphasis placed on current issues in health care, nursing leadership and management, professional practice issues for registered professional nurses, and transition into the workplace, and preparing for the NCLEX-RN licensure exam.

Prerequisite(s): NURS 2301 , NURS 2304 and BIOL 2205
Corequisite(s): NURS 2401 and NURS 2403

NURS 3320 - Health Assessment

Credit Hours: 3
Lecture/Lab Hours: 2 hours class, 2 clinical hours per week
This course is designed to help students further develop their role in health/physical assessment as a nurse generalist. Critical thinking skills are used to analyze assessment findings and apply them while implementing patient-centered care.

Prerequisite(s): Admission to the BSN Program or successful completion of the first year of the ASN program with a GPA of 2.75 and not have repeated any courses.

NURS 3360 - Nursing Ethics

Credit Hours: 3
Lecture/Lab Hours: 3 hours class per week
This course explores ethical issues in professional nursing practice across the lifespan.

Prerequisite(s): Admission to the BSN program or successful completion of the first year of the ASN program with a GPA of 2.75 and not have repeated any courses.

NURS 3370 - Nursing Informatics and Healthcare Technologies

Credit Hours: 3
This course prepares the student to utilize informatics and health care technologies in the management of individuals, groups, and organizations for the improvement of patient outcomes.

Prerequisite(s): Must have an unencumbered WV or multistate RN nursing license.
Corequisite(s): NURS 4410, NURS 4430

NURS 3380 - Evidence Based Practice

Credit Hours: 3
Lecture/Lab Hours: 3 class hours per week
Writing Intensive Course

This course focuses on using evidence-based practice (EBP) to provide patient centered care. This a writing intensive course.

Prerequisite(s): Admission to BSN program. Must have an encumbered WV or multistate RN license, and a 3-credit statistics course.

Prerequisite or Corequisite: NURS 3320, NURS 3360, 3 credit statistics course
Corequisite(s): Prerequisite or Corequisite: NURS 3320, NURS 3360, 3 credit statistics course

NURS 3399 - Special Topics in Nursing

Credit Hours: 1-12
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 4410 - Population Health

Credit Hours: 5
Lecture/Lab Hours: 3 hours class and 4 hours clinical per week
This course focuses on understanding the role of the Nurse Generalist in providing care for vulnerable groups and populations. Students complete a population health assessment and prioritize needs. Based on the identified needs, evidence-based strategies and health promotion,

health education, or illness prevention are implemented and evaluated.

Prerequisite(s): NURS 3380
Corequisite(s): NURS 3370 and NURS 4430

NURS 4430 - Nursing Leadership

Credit Hours: 3
Lecture/Lab Hours: 3 hours class per week
This course will explore the role of the nurse-leader and enable students to recognize and develop leadership skills.

Prerequisite(s): NURS 3380

Prerequisite or Corequisite: BSBA 2209 or MGMT 3308
Corequisite(s): NURS 3370 and NURS 4410

Prerequisite or Corequisite: BSBA 2209 or MGMT 3308

NURS 4440 - Application of Evidence Based Practice

Credit Hours: 5
Lecture/Lab Hours: 1 hour class; 8 hours clinical per week
This capstone course assists students with the integration of evidence-based practice in the professional nurse generalist role. This course should be taken in the last semester of the nursing program. Restrictions: Must be taken in the student's last semester of the RN-BSN program.

Corequisite(s): NURS 4450

NURS 4441 - School Nurse Practicum

Credit Hours: 4
Lecture/Lab Hours: 1 hour class; 6 hours clinical per week
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

Prerequisite(s): Must have an unencumbered WV or multistate RN license. Instructor approval required.

Prerequisite or Corequisite: EDUC 2200
Corequisite(s): Prerequisite or Corequisite: EDUC 2200

NURS 4450 - Healthcare Delivery: Political, Social and Economic Influences

Credit Hours: 3

This course will analyze the healthcare delivery system and its appropriateness for meeting the dynamic and ever-changing health needs of diverse patients through analysis of political, social and economic influences. Restrictions: Must be taken in student's last semester of the RN-BSN program.

Prerequisite(s): Must be completed in the final semester of the RN-BSN program. Instructor Approval.

Corequisite(s): NURS 4440

NURS 4499 - Special Topics in Nursing

Credit Hours: 1-12

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

Credit Hours: 0-6

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. Repeatable Restrictions: Sophomore-Senior Level

Prerequisite(s): Instructor approval required

Nutrition

NUTR 1110 - Nutrition

Credit Hours: 3

This course is a study of the nutrients, their sources, and their relationship to body functions and metabolism. Stages of the lifecycle will be studied as it relates to changing nutritional requirements for individuals of varying cultural and economic levels. Students will evaluate their daily nutritional intake against recommended daily allowances, and complete a menu planning assignment.

NUTR 1120 - Nutrition in Childhood & Adolescence

Credit Hours: 3

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 during the periconceptional period, nutrition during pregnancy and lactation. Additionally, students will be

introduced to nutrition in infancy through adolescence. Students will evaluate dietary guidelines and complete a menu planning assignment for an individual between the ages of 2-18.

NUTR 1145 - Sports Nutrition

Credit Hours: 3

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, an in-depth 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. Students will evaluate and complete a menu specific to their assigned sport.

NUTR 1155 - Farm to Fork

Credit Hours: 3

This course introduces the social responsibility of production of natural agricultural products meeting the growing public demand for healthy, organic, and whole foods. Students will examine the issues related to the economic prosperity of farm-to-fork concepts and marketing strategies of local farmers. In addition, students will be educated on food systems, food sources, the advantages of buying local, and environmental protection of food sustainability.

NUTR 2220 - Nutrition Therapy

Credit Hours: 3

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. Students will learn the role of nutrition therapy in healthcare, the nutrition care process, and be introduced to pathophysiology as it relates to nutrition.

Prerequisite(s): NUTR 1110

NUTR 2250 - Epidemiology and Community Nutrition

Credit Hours: 3

This course will provide students with methods and practices necessary to access nutritional needs in community-oriented nutrition programs. Students will be introduced to nutrition relationships through the application of epidemiologic methods, develop and evaluate nutritional status of populations, examine the role of nutrition in the etiology of nutrition/disease relationships, and develop interventions to achieve and maintain healthful eating patterns among populations using nutritional measures.

Prerequisite(s): NUTR 2220

Physical Education

PHED 1100 - Fitness and Wellness

Credit Hours: 2

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

Credit Hours: 1

This course covers the analysis, application and integration of basic physical conditioning and health concepts. When Offered: The course is offered in eight-week sessions

PHED 1102 - Weight Training/Lifting

Credit Hours: 1

The analysis and application of the rules, boundaries, strategies, psychomotor skills and safety aspects of the individual sport of weight training/lifting are studied. When Offered: The course is offered in eight-week sessions

PHED 1110 - Archery

Credit Hours: 1

The analysis and application of rules, psychomotor skills, and safety aspects of the lifetime sport of archery. When Offered: This course is offered in eight-week sessions

PHED 1111 - Aerobics

Credit Hours: 1

The analysis and application of the psychomotor skills, fitness components, and safety aspects in the lifetime activity of dance aerobics are studied. When Offered: This course is offered in eight week sessions

PHED 1112 - Badminton

Credit Hours: 1

The analysis and application of rules, boundaries, strategies, psychomotor skills, and safety aspects of the individual sport of badminton. When Offered: This course is offered in eight-week sessions

PHED 1114 - Bowling

Credit Hours: 1

The analysis and application of rules, strategies,

psychomotor skills, and safety aspects of the individual sport of bowling. When Offered: This course is offered in eight-week sessions

PHED 1116 - Casting and Angling

Credit Hours: 1

The analysis and application of the psychomotor skills and safety aspects of the individual sport of casting and angling. When Offered: This course is offered in eight-week sessions

PHED 1117 - Disc Sports

Credit Hours: 1

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. When Offered: This course is offered in eight week sessions

PHED 1120 - Basketball (Beginning)

Credit Hours: 1

An introduction to the analysis and application of the rules, boundaries, strategies, psychomotor skills and safety aspects of the team sport of basketball. When Offered: This course is offered in eight-week sessions

PHED 1121 - Introductory Seminar in Human Movement

Credit Hours: 2

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

Credit Hours: 1

The analysis and application of rules, boundaries, strategies, psychomotor skills, and safety aspects of the team sport of volleyball. When Offered: This course is offered in eight-week sessions

PHED 1125 - Table Tennis

Credit Hours: 1

The analysis and application of the rules, game strategies, psychomotor skills and safety aspects in the life time sport of table tennis are studied. When Offered: This course is offered in eight week sessions

PHED 1126 - Tennis (Beginning)

Credit Hours: 1

The student will be introduced to basic skills, rules, boundaries, game situations and team play.

PHED 1130 - Flag Football

Credit Hours: 1

Addresses the analysis and application of the rules, boundaries, strategies, psychomotor skills and safety aspects of the team sport of flag football. When Offered: This course is offered in eight-week sessions

PHED 1140 - Golf

Credit Hours: 1

This course focuses on the analysis and application of the rules, boundaries, strategies, psychomotor skills and safety aspects of the individual sport of golf. When Offered: This course is offered in eight-week sessions

PHED 1145 - Pickle Ball

Credit Hours: 1

The analysis and application of the rules, game strategies, psychomotor skills and safety aspects in the life time sport of pickle ball are studied. When Offered: This course is offered in eight week sessions

PHED 1155 - Track and Field

Credit Hours: 1

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. When Offered: This course is offered in eight week sessions

PHED 1160 - Soccer

Credit Hours: 1

The analysis and application of rules, boundaries, strategies, psychomotor skills, and safety aspects of the team sport of soccer. When Offered: This course is offered in eight-week sessions

PHED 1162 - Softball

Credit Hours: 1

The analysis and application of the rules, boundaries, strategies, psychomotor skills and safety aspects of the team sport of softball are studied. When Offered: This course is offered in eight-week sessions

PHED 1164 - Speedball

Credit Hours: 1

The analysis and application of rules, boundaries, strategies, psychomotor skills, and safety aspects of the team sport of speedball. When Offered: This course is offered in eight-week sessions

PHED 1180 - Medical Terminology

Credit Hours: 3

This course will introduce students interested in the health care profession to the language of science and medicine by covering topics in anatomy, physiology, pathology, diseases, disorders, equipment, diagnosis, and treatment, enabling the student to develop vocabulary essential to understanding of and communication within the various health fields.

PHED 1199 - Special Topics in Physical Education

Credit Hours: 1-12

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

Credit Hours: 2

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

Credit Hours: 3

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

Corequisite(s): BSBA 2209, Principles of Management

PHED 2211 - Anatomy and Physiology

Credit Hours: 4

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

Credit Hours: 2

This course is designed to provide theoretical knowledge and practical skills in preparation for group fitness instruction.

PHED 2218 - Advanced Personal Training

Credit Hours: 3

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

Credit Hours: 2

Introduction to the knowledge and skills necessary to become proficient and safe in or on the water.

PHED 2233 - Advanced Aquatics-Lifeguarding

Credit Hours: 2

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

Credit Hours: 2

This course is designed to provide students with a comprehensive overview of outdoor leisure and adventure-based activities, inclusive of assessment strategies, and biomechanical principles. Key areas of focus include: Survival, Hiking & Outdoor Safety, Navigation, Water Sports, Winter Sports, Disc sports, Rappelling, Slacklining, and Teambuilding Games, and Initiatives. This course will consist of both hands-on experience and classroom instruction.

PHED 2241 - Gymnastics and Dance

Credit Hours: 2

This course is designed to instruct students in understanding the critical elements, proper progression, spotting techniques, assessment strategies, biomechanical principles, and safety concerns involved in the teaching of tumbling skills. The student will integrate dance elements into choreography with a final performance focusing on technique, rhythm, timing, and synchronization.

PHED 2242 - Social Dance

Credit Hours: 2

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

Credit Hours: 3

This course is designed to provide students with the knowledge, skill development, teaching cues, assessment strategies, biomechanical principles, and skill analyses necessary to effectively teach team passing sports. Restrictions: Majors only restriction

PHED 2244 - Teaching Wall-Net Sports

Credit Hours: 3

This course is designed to provide students with the knowledge, skill development, teaching cues, assessment strategies, biomechanical principles, and skill analyses necessary to effectively teach net and wall sports. Restrictions: Majors only restriction

PHED 2246 - Teaching Striking / Target Sports

Credit Hours: 3

This course is designed to provide students with the knowledge, skill development, teaching cues, assessment strategies, biomechanical principles, and skill analyses necessary to effectively teach striking and target sports. Restrictions: Majors only restriction

PHED 3000 - Wellness Integration in the Elementary Classroom

Credit Hours: 3

This course will focus on the analysis of growth and developmental characteristics as they relate to the cognitive, affective, and psychomotor behaviors of the elementary child in selecting developmentally/age-appropriate activities. Wellness concepts target the components of health education with an emphasis on the importance of practicing and enhancing behaviors for a healthy lifestyle.

PHED 3310 - Motor Behavior

Credit Hours: 3

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.

Prerequisite(s): PHED 1121

PHED 3312 - Physiology of Exercise

Credit Hours: 3

This course investigates the knowledge of basic physiological adaptations that accompany physical activity and sport.

Prerequisite(s): C or better in PHED 2211 or BIOL 1180-BIOL 1181

PHED 3313 - Biomechanics

Credit Hours: 3

The study of humans in motion, including the structures that are responsible for motion and the forces that influence human motion.

Prerequisite(s): C or better in PHED 2211 or BIOL 1180-BIOL 1181

PHED 3314 - Group Fitness Instruction/Programming

Credit Hours: 2

This course is designed to provide theoretical knowledge and practical skills in preparation for group fitness instruction.

Prerequisite(s): PHED 3312 with a C or above

PHED 3315 - Advanced Personal Training

Credit Hours: 3

Designed to synthesize the knowledge acquired from an exercise science curriculum with practical application for successful job performance in the fitness industry.

Prerequisite(s): PHED 3312 with a C or above

PHED 3316 - Fitness Assessment and Exercise Physiology

Credit Hours: 3

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.

Prerequisite(s): C or better in PHED 3312

PHED 3317 - Clinical Applications of Exercise Physiology

Credit Hours: 3

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.

Prerequisite(s): C or better in PHED 3316

PHED 3318 - Sport Social Psychology

Credit Hours: 3

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.

Prerequisite(s): PSYC 1101

PHED 3320 - Lifespan Motor Development

Credit Hours: 3

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.

Prerequisite(s): PHED 1121

PHED 3323 - Teaching Elementary Physical Education

Credit Hours: 3

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. When Offered: Fall semester only

PHED 3324 - Performance-Based Assessment

Credit Hours: 3

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.

Prerequisite(s): MATH 1507 or higher, PHED 3323

PHED 3325 - Instructional Strategies

Credit Hours: 3

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 prekindergarten through the high school levels in a physical education setting.

Prerequisite(s): ENGL 1102, PHED 3323

PHED 3326 - Early Psychomotor Development

Credit Hours: 3

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

Credit Hours: 2-4

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.

Prerequisite(s): PHED 3343

PHED 3343 - Adapted Physical Education Activities

Credit Hours: 3

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. When Offered: Spring only

Prerequisite(s): EDUC 2240

PHED 3350 - Physical Activity & Fitness Education

Credit Hours: 3

Writing Intensive Course

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.

Prerequisite(s): C or better in PHED 3312

PHED 3353 - Field Experience in Sport Coaching

Credit Hours: 2-4

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

Credit Hours: 2

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

Credit Hours: 4

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

Credit Hours: 3

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

Credit Hours: 2

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 When Offered: Spring, Odd Years

Prerequisite(s): BSBA 3306, Business Law I

PHED 3358 - Techniques of Sport Coaching

Credit Hours: 6

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

Credit Hours: 3

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.

Prerequisite(s): C or better in PHED 3313 and PHED 3316

PHED 3365 - Activities in Outdoor Education

Credit Hours: 1-3

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

Credit Hours: 1-3

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.

Prerequisite(s): PHED 3365

PHED 3398 - Sport Management Internship

Credit Hours: 1-12

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

Credit Hours: 3

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.

Prerequisite(s): C or better in PHED 3316

PHED 4410 - Research Design Seminar

Credit Hours: 3

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.

Prerequisite(s): C or better PHED 4400

PHED 4420 - Exercise Science Internship

Credit Hours: 3

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.

Prerequisite(s): C or better in PHED 3316 & Senior Standing

PHED 4431 - Methods and Materials in Teaching Physical Education

Credit Hours: 3

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.

Prerequisite(s): PHED 3325

PHED 4450 - Advanced Sport

Credit Hours: 1

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

Credit Hours: 0-6

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. Repeatable Restrictions: Sophomore-Senior Level

Prerequisite(s): Instructor approval required

Philosophy

PHIL 1150 - Theories of Human Nature

Credit Hours: 3

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.

PHIL 1199 - Special Topics in Philosophy

Credit Hours: 1-12

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

Credit Hours: 3

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

Credit Hours: 3

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

Credit Hours: 3

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

PHIL 3325 - Ethics

Credit Hours: 3

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

Credit Hours: 3

Description and analysis of the philosophical thought underlying the major religions of the world.

PHIL 4400 - Seminar

Credit Hours: 3

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

Credit Hours: 3

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

Credit Hours: 1-12

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.

Prerequisite(s): at least one philosophy course or permission of the instructor

PHIL 4998 - Undergraduate Research

Credit Hours: 0-6

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. Repeatable Restrictions: Sophomore-Senior Level

Prerequisite(s): Instructor approval required

Physical Science

PHSC 1199 - Special Topics in Physical Science

Credit Hours: 1-12

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

Credit Hours: 3

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.

Prerequisite(s): EDUC 2260, GEOS 2201, GEOS 2202 all with a C or better

PHSC 4430 - Science Integration Seminar

Credit Hours: 1

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
When Offered: Fall semester only

Prerequisite(s): Junior status and admission to Teacher Education

PHSC 4431 - Methods and Materials in Teaching Science

Credit Hours: 3

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.
When Offered: Spring semester only

Prerequisite(s): EDUC 2260 or EDUC 6306

PHSC 4998 - Undergraduate Research

Credit Hours: 0-6

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. Repeatable Restrictions: Sophomore-Senior Level

Prerequisite(s): Instructor approval required

Physics

PLEASE NOTE:

PHYS 1105/PHYS 1106 substitutes for PHYS 1101/PHYS 1102 in all programs. PHYS 1105/PHYS 1106 is calculus based and is a more appropriate level of study than PHYS 1101/PHYS 1102 for science majors and some technology majors.

PHYS 1001 - General Physics I

Credit Hours: 4

This course introduces students without a trigonometry-based math and science background to general principles of motion and changes of motion by forces through the perspectives of Newton's Laws, Energy and Momentum. A three-hour laboratory period each week supplements the three lecture-recitation hours. Prerequisites are MATH 1507 or MATH 1530 or MATH 1407 or MATH 1430 or ACT Math 19 or new SAT Math score of 510 or ACCUPLACER QAS 250.

Prerequisite(s): MATH 1507 or MATH 1530 or MATH 1407 or MATH 1430 or ACT Math 19 or new SAT score of 510 or ACCUPLACER QAS 250

PHYS 1101 - Introduction to Physics I

Credit Hours: 4

Lecture/Lab Hours: A three-hour laboratory period each week supplements the three lecture-recitation periods. An introduction to elementary principles of mechanics, sound, and heat. Course is transferable as general studies credit to all other state institutions of higher education in West Virginia for credit with the grade earned.

Prerequisite(s): 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
Transferable General Studies Course
^PHYS 1101~

PHYS 1102 - Introduction to Physics II

Credit Hours: 4

A continuation of PHYS 1101; includes a study of electricity and magnetism, light and basic atomic and nuclear physics. Course is transferable as general studies credit to all other state institutions of higher education in West Virginia for credit with the grade earned.

Prerequisite(s): PHYS 1101
Transferable General Studies Course

PHYS 1104 - Introduction to Physics for Aviation

Credit Hours: 4

This course introduces students to principles of mechanics and fluid mechanics (linear and rotational motion, force and torque, work and energy, buoyancy) and their application to flight (including fixed-wing aircraft, rotary-wing aircraft and lighter-than-air flight). When Offered: Spring Semester Only

Prerequisite(s): MATH 1540 or MATH 1585 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 1105 - Principles of Physics I

Credit Hours: 5

Lecture/Lab Hours: A three-hour lab period supplements a four-hour weekly lecture. 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. Course is transferable as general studies credit to all other state institutions of higher education in West Virginia for credit with the grade earned.

Prerequisite(s): 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
Transferable General Studies Course
^PHYS 1105~

PHYS 1106 - Principles of Physics II

Credit Hours: 5

Lecture/Lab Hours: A three-hour lab period supplements the four-hour weekly lecture. Students are instructed in the elementary principles and calculus-based mathematical descriptions of electricity and magnetism, light, optics and modern physics. Course is transferable as general studies credit to all other state institutions of higher education in West Virginia for credit with the grade earned.

Prerequisite(s): PHYS 1105
Transferable General Studies Course

PHYS 1199 - Special Topics in Physics

Credit Hours: 1-12

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

Credit Hours: 2

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.

Prerequisite(s): Program Restriction: Physics teaching specialization

PHYS 2202 - Astronomy

Credit Hours: 3

A study of the physical properties of the solar system, stars and galaxies, including the concepts of motion, space and

time. Occasional night sessions.

Prerequisite(s): PHYS 1102 or PHYS 1106

PHYS 2203 - Nonlinear Dynamics and Chaos

Credit Hours: 3

Students taking this course will apply geometric and numerical methods to predict the qualitative and quantitative behavior of certain natural systems occurring in physics, biology and chemistry, as well as in mechanical and electronic systems that are inherently nonlinear. Although analytic solutions are generally not available for such nonlinear systems, typical features in their evolution, such as bifurcations, chaotic behavior and fractals, will be modeled and studied by students taking this course. The prerequisites for this course are Calculus I and II (MATH 1586, or MATH 2502, or TECH 3300).

Prerequisite(s): MATH 1585 ,MATH 2502 or TECH 3300

PHYS 3211 - Intermediate Physics IA - Newtonian Mechanics

Credit Hours: 3

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.

Prerequisite(s): PHYS 1102 or PHYS 1106 and MATH 1586 or MATH 2502 or TECH 3300

PHYS 3212 - Intermediate Physics IB - Energy Perspec

Credit Hours: 3

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.

Prerequisite(s): PHYS 3211 (at the same time with instructor's permission)

PHYS 3221 - Intermediate Physics IIA - Electric Interactions

Credit Hours: 3

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.

Prerequisite(s): PHYS 3212

PHYS 3222 - Intermediate Physics IIB - Electromagnetic Interactions and Semiconductor Devices

Credit Hours: 3

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.

Prerequisite(s): PHYS 3221 (at the same time with instructor's permission)

PHYS 3230 - Intermediate Physics Laboratory

Credit Hours: 2

Students taking this course will systematically investigate aspects of the models and concepts of PHYS 3211-PHYS 3212 and PHYS 3221-PHYS 3222 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.

Prerequisite(s): PHYS 3221 (at the same time with instructor's permission)

PHYS 3310 - Electricity and Electronics.

Credit Hours: 4

Lecture/Lab Hours: Two hours of laboratory and three hours of lecture each week

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.

Prerequisite(s): PHYS 1102 or PHYS 1106

PHYS 3325 - Advanced Physics I

Credit Hours: 4

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.

Prerequisite(s): (PHYS 1102 or PHYS 1106) AND (MATH 1586 or MATH 2502 or TECH 3300)

PHYS 3335 - Advanced Physics II

Credit Hours: 4

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.

Prerequisite(s): (PHYS 1102 or PHYS 1106) AND (MATH 2502 or TECH 3300)

PHYS 3340 - Special Problems

Credit Hours: 2

Individual studies of problems of special interest in the field of physics, for advanced students.

Prerequisite(s): (PHYS 1102 or PHYS 1106) AND (MATH 1586 or MATH 2502 or TECH 3300)

PHYS 3350 - Mathematical Methods of Physics

Credit Hours: 3

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.

Prerequisite(s): (PHYS 1102 or PHYS 1106) AND (MATH 1586 or MATH 2502 or TECH 3300)

PHYS 4998 - Undergraduate Research

Credit Hours: 0-6

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. Repeatable Restrictions: Sophomore-Senior Level

Prerequisite(s): Instructor approval required

Political Science

POLI 1100 - American Government

Credit Hours: 3

A survey of the American political system, dealing particularly with the form and function of the federal system. Course is transferable as general studies credit to all other state institutions of higher education in West Virginia for credit with the grade earned.

Transferable General Studies Course
POLI 1100~#

POLI 2200 - Introduction to Political Science

Credit Hours: 3

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. Course is transferable as general studies credit to all other state institutions of higher education in West Virginia for credit with the grade earned.

Transferable General Studies Course
POLI 2200~#

POLI 2210 - Principles of International Relations

Credit Hours: 3

A study designed to acquaint the student with the theory and practice of international relations.

POLI 2220 - Comparative Government

Credit Hours: 3

This survey course is designed to foster a broad general acquaintance with the political institutions and government practices of certain nations.

POLI 2240 - Nonparametric Statistics

Credit Hours: 3

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).

Prerequisite(s): One of the following, with a grade of C or better: MATH 1407, MATH 1507, or MATH 1530

POLI 2299 - Selected Topics in Political Science

Credit Hours: 3

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 3300 - Public Administration

Credit Hours: 3

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

Credit Hours: 3

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

Credit Hours: 3

A study of the origins, growth and development of American political parties.

Prerequisite(s): POLI 1100

POLI 3306 - The American Presidency

Credit Hours: 3

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.

Prerequisite(s): POLI 1100

POLI 3307 - Congress and the Legislative Process

Credit Hours: 3

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.

Prerequisite(s): POLI 1100

POLI 3310 - Recent Political Theory

Credit Hours: 3

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

Credit Hours: 3

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

Credit Hours: 3

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

Credit Hours: 3

This course explores U.S. foreign policy formulation and considers policies by areas and functions.

Prerequisite(s): POLI 1100

POLI 3325 - Politics of Intelligence

Credit Hours: 3

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

Credit Hours: 3

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

Credit Hours: 3

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

Credit Hours: 3

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

Credit Hours: 3

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

Credit Hours: 3

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

Credit Hours: 3

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

Credit Hours: 3

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

Credit Hours: 3

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

Credit Hours: 3

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

Credit Hours: 3

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

Credit Hours: 3

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

Credit Hours: 3

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

Credit Hours: 3

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

Credit Hours: NO CREDITS

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. Same Course As: CRIM 3395

Prerequisite(s): POLI 1100

POLI 4400 - Research in the Social Sciences

Credit Hours: 3
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. Same Course As: CRIM 4400 and NSIS 4400

Prerequisite(s): ENGL 1102 Junior or Senior status

POLI 4404 - Civil Liberties in the US

Credit Hours: 3

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.

Prerequisite(s): POLI 1100

POLI 4405 - Terrorism

Credit Hours: 3

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

Credit Hours: 3

A study of current problems affecting the structure and function of American national government.

Prerequisite(s): POLI 1100

POLI 4411 - Area Studies

Credit Hours: 3

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. Same Course As: NSIS 4411

Prerequisite(s): Instructor approval required if offered as an arranged class; no prerequisite required if class meets regularly

POLI 4412 - Area Studies

Credit Hours: 3

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. Same Course As: NSIS 4412

Prerequisite(s): Instructor approval required if offered as an arranged class; no prerequisite required if class meets regularly

POLI 4413 - Area Studies

Credit Hours: 3

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. Same Course As: NSIS 4413

Prerequisite(s): Instructor approval required if offered as an arranged class; no prerequisite required if class meets regularly

POLI 4415 - International Problems

Credit Hours: 3

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

Credit Hours: 3

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

Credit Hours: 3

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

Credit Hours: 3

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

Credit Hours: 3

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

Credit Hours: 3

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

Credit Hours: 1-12

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

Credit Hours: 1-12

A professional internship with a government or political agency, designed to give students pertinent experience in a particular field of political science.

Prerequisite(s): POLI 1100, Instructor approval required

POLI 4490 - Capstone Seminar in Political Science

Credit Hours: 3

A survey of recent developments in the practice and theory of politics, with an emphasis on independent study.

Prerequisite(s): Instructor approval required

POLI 4499 - Special Topics in Political Science

Credit Hours: 1-12

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

Credit Hours: 0-6

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. Repeatable Restrictions: Sophomore-Senior Level

Prerequisite(s): Instructor approval required

Psychology

PSYC 1101 - Introduction to Psychology

Credit Hours: 3

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. Course is transferable as general studies credit to all other state institutions of higher education in West Virginia for credit with the grade earned.

Transferable General Studies Course
PSYC 1101~#

PSYC 1150 - Introduction to Healthcare Professions

Credit Hours: 3

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. Same Course As: ALLH 1150 and SOCY 1150; students may receive credit for the course only once

PSYC 1160 - Exploration of Healthcare Professions

Credit Hours: 2

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. Same Course As: ALLH 1160 and SOCY 1160; students may receive credit for the course only once

PSYC 2220 - History and Systems of Psychology

Credit Hours: 3

Traces the development of the science of psychology from its origins in philosophy, physiology and medicine to the modern era.

Prerequisite(s): PSYC 1101

PSYC 2230 - Social Psychology

Credit Hours: 3

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; credit may be received for either PSYC 2230 or SOCY 2230, but not both

Prerequisite(s): PSYC 1101 or SOCY 1110

PSYC 2240 - Behavioral Statistics

Credit Hours: 3

This course covers elementary statistical description and analysis, as employed particularly in the behavioral sciences. Same Course As: SOCY 2240; credit may be received for either SOCY 2240 or PSYC 2240, but not both

Prerequisite(s): MATH 1407/MATH 1507 or ACT > 19

PSYC 2250 - Community Psychology

Credit Hours: 3

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. (Course may be taken to partially fulfill psychology elective requirement).

Prerequisite(s): PSYC 1101

PSYC 2260 - Industrial and Personnel Psychology

Credit Hours: 3

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. (Course may be taken to partially fulfill psychology elective requirement)

Prerequisite(s): PSYC 1101

PSYC 2270 - Introduction to Social Work

Credit Hours: 3

This course is an introduction to the profession of social work and the philosophical, societal and organizational contexts within which professional social work activities are conducted. This course provides the opportunity for students to explore their interest in and potential for a career in social work. It introduces the knowledge, skills and values of social work as a profession and explores the role of social workers within the broad area of social welfare and social services. This course emphasizes the value base of social work practice and its commitment to social and economic justice. Same Course As: SOCY 2270

Prerequisite(s): PSYC 1101 or SOCY 1110

PSYC 3300 - Abnormal Psychology

Credit Hours: 3

A survey of the antecedents, diagnosis, treatment and prevention of various maladjustments and personality disturbances.

Prerequisite(s): PSYC 1101

PSYC 3305 - Research Methods in the Behavioral Sciences

Credit Hours: 4

Lecture/Lab Hours: This course includes three hours of instruction and one hour of Lab

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. Same Course As: SOCY 3360; Credit may be received for either PSYC 3305 or SOCY 3360 but not both.

Prerequisite(s): PSYC 2240 or SOCY 2240

PSYC 3310 - Experimental Psychology

Credit Hours: 3

An introduction to the procedures of experimental research, design and evaluation, using laboratory techniques.

Prerequisite(s): PSYC 2240 or SOCY 2240

PSYC 3320 - Sensation and Perception

Credit Hours: 3

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. (Course may be taken to partially fulfill psychology elective requirement).

Prerequisite(s): PSYC 1101

PSYC 3330 - Developmental Psychology

Credit Hours: 3

A longitudinal study of behavior change and development through the life span of the individual, from conception through the end of life.

Prerequisite(s): PSYC 1101

PSYC 3350 - Biopsychology

Credit Hours: 3

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.

Prerequisite(s): PSYC 1101

PSYC 3360 - Cognitive Psychology

Credit Hours: 3

The study of thinking, memory, perception, cognition and verbal behavior.

Prerequisite(s): PSYC 1101

PSYC 3370 - Theories of Learning

Credit Hours: 3

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.

Prerequisite(s): PSYC 1101

PSYC 3390 - Research Capstone

Credit Hours: 3
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.

Prerequisite(s): ENGL 1102, and PSYC 3305 or SOCY 3360

PSYC 3393 - Future Global Crises

Credit Hours: 3
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).

Prerequisite(s): PSYC 1101

PSYC 3395 - Psychology of Substance Abuse

Credit Hours: 3
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.

Prerequisite(s): PSYC 1101

PSYC 3399 - Special Topics in Psychology

Credit Hours: 1-12
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. (Course may be taken to partially fulfill psychology elective requirement).

Prerequisite(s): PSYC 1101

PSYC 4400 - Psychometrics

Credit Hours: 3
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.

Prerequisite(s): PSYC 2240 or SOCY 2240

PSYC 4410 - Theories of Personality

Credit Hours: 3
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.

Prerequisite(s): PSYC 1101

PSYC 4460 - Seminar

Credit Hours: 3-6
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. May be repeated once

Prerequisite(s): PSYC 1101

PSYC 4470 - Intervention Techniques and Applications

Credit Hours: 3
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.

Prerequisite(s): PSYC 1101 and PSYC 4410

PSYC 4480 - Directed Studies

Credit Hours: 1-3
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 (Course may be taken to partially fulfill psychology elective requirement).

Prerequisite(s): PSYC 1101 and Instructor approval

PSYC 4485 - Advanced Psychometrics

Credit Hours: 3
This course covers personnel selection and placement, as well as a more advanced treatment of reliability and

validity. Skills in these areas are developed. (Course may be taken to partially fulfill psychology elective requirement.)

Prerequisite(s): PSYC 4400 and Instructor approval required

PSYC 4487 - Practicum I

Credit Hours: 3
(Course may be taken to partially fulfill psychology elective requirement.)

PSYC 4489 - Practicum II

Credit Hours: 3
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. (Course may be taken to partially fulfill psychology elective requirement.)

Prerequisite(s): Instructor approval required

PSYC 4490 - Directed Research

Credit Hours: 1-3
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 (Course may be taken to partially fulfill psychology elective requirement.)

Prerequisite(s): PSYC 1101 and Instructor approval required

PSYC 4491 - Psychopathology of Childhood and Adolescence

Credit Hours: 3
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

Credit Hours: 3
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

Credit Hours: 3
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. (Course may be taken to partially fulfill psychology elective requirement.)

Prerequisite(s): PSYC 1101 and Instructor approval required

PSYC 4998 - Undergraduate Research

Credit Hours: 0-6
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. Repeatable Restrictions: Sophomore-Senior Level

Prerequisite(s): Instructor approval required

Recreation

RECR 1141 - Foundations of Outdoor Recreation

Credit Hours: 3
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

Credit Hours: 3
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

Credit Hours: 3

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

Credit Hours: 2

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

Credit Hours: 2

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

Credit Hours: 2

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.

Prerequisite(s): RECR 1143

RECR 1154 - Recreation Field Work I

Credit Hours: 2

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

Credit Hours: 2

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

Credit Hours: 2

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"

Credit Hours: 2

This course will cover all necessary requirements to obtain the open water certification.

Prerequisite(s): PHED 2232 or PHED 2233 or 3381

RECR 1188 - Introduction to Adventure Winter Sports

Credit Hours: 2

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

Credit Hours: 1-12

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

Credit Hours: 3

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.

Prerequisite(s): Instructor Approval

RECR 2250 - Select Topics in Certification

Credit Hours: 2

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

Credit Hours: 3

This course provides administrative experience in directing and supervising institutional physical recreational programs. (The course cannot replace or be used in the fulfillment of other program requirements.) When Offered: The course will be offered both semesters on an arranged basis

Prerequisite(s): Junior standing

RECR 3301 - Day Camp Administration

Credit Hours: 3

In this course, students will gain administrative experiences in directing and supervising summer day camp programs (Falcon Camp). When Offered: This course will be offered on an arranged basis during the first and second summer sessions only

Prerequisite(s): Junior standing

RECR 3330 - Group Leadership

Credit Hours: 3

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

Credit Hours: 3

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.

Prerequisite(s): Junior standing RECR 1151 and RECR 3330

Science

SCIE 1100 - Human Biology

Credit Hours: 4

Lecture/Lab Hours: This course includes 3 hours of lecture and 2 hours of lab per week

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.

SCIE 1103 - Science That Matters

Credit Hours: 4

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

Credit Hours: 4

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

Credit Hours: 4

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

Credit Hours: 4

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

Credit Hours: 4

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

Credit Hours: 4

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

Credit Hours: 1-4

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

Credit Hours: 4

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

Credit Hours: 4

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

Credit Hours: 4

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 1250 - Life in The Cosmos

Credit Hours: 4

This Astronomy course guides students in observing and understanding the make-up and evolution of the universe. Observations and comprehension of the cosmos are examined historically from ancient civilizations to modern exploration, as well as scientifically, from the human view of the heavens to the role of galaxies and beyond. This course allows students to discover how nature works and is modeled by science so they can see how the entire cosmos has been necessary to make possible our life on earth. Occasional night sessions.

SCIE 2200 - Ocean Issues & Society

Credit Hours: 4

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.

Safety

SFTY 1100 - Safety and Environmental Components of Industry

Credit Hours: 3

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

Credit Hours: 3

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.

Prerequisite(s): SFTY 1100, MATH 1510

SFTY 2210 - Disaster Preparedness and Emergency Systems

Credit Hours: 3

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

Credit Hours: 3

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.

Prerequisite(s): SFTY 1100

SFTY 2280 - Construction Safety & Law

Credit Hours: 3

This course covers federal construction regulations and the case law surrounding the construction industry.

Prerequisite(s): SFTY 2250, MATH 1520

SFTY 2290 - Industrial Hygiene and Toxicology

Credit Hours: 4

This course covers the methods for anticipating, recognizing, evaluating and controlling exposures in the workplace while exploring the toxicological effects of contaminants on workforces.

Prerequisite(s): SFTY 1150, CHEM 1102, SFTY 2250

SFTY 2291 - Environmental Engineering Technology: Hazardous Waste

Credit Hours: 4

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.

Prerequisite(s): CHEM 1102, SFTY 2250

SFTY 3300 - Industrial Hygiene Applications and Practices

Credit Hours: 4

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.

Prerequisite(s): ENGL 1102, SFTY 2290

SFTY 3310 - Ergonomics & Human Factors

Credit Hours: 3

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.

Prerequisite(s): SFTY 1100, CHEM 1102, BIOL 1180 and BIOL 1181

SFTY 3355 - Air & Water Pollution

Credit Hours: 3

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.

Prerequisite(s): SFTY 2291

SFTY 3360 - Fire Prevention

Credit Hours: 3

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.

Prerequisite(s): SFTY 1100, CHEM 1102

SFTY 4400 - Safety Engineering Design

Credit Hours: 3

This course covers design engineering and engineering countermeasures needed to minimize losses incurred by man and the environment.

Prerequisite(s): SFTY 2250, PHYS 1102

SFTY 4415 - Safety Internship

Credit Hours: 3

Students shall complete an advisor-approved safety internship. Responsibilities must be in the field of employee safety and/or health.

Prerequisite(s): SFTY 2290 and instructor approval required

SFTY 4420 - System Safety and Management

Credit Hours: 3

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.

Prerequisite(s): MATH 1550

Corequisite(s): SFTY 4400

SFTY 4480 - Application of Safety Strategies

Credit Hours: 4

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.

Prerequisite(s): SFTY 4420

SFTY 4998 - Undergraduate Research

Credit Hours: 0-6

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. Repeatable Restrictions: Sophomore-Senior Level

Prerequisite(s): Instructor approval required

Sociology

SOCY 1110 - Introductory Sociology

Credit Hours: 3

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. Course is transferable as general studies credit to all other state institutions of higher education in West Virginia for credit with the grade earned.

Transferable General Studies Course
SOCY 1110~#

SOCY 1150 - Introduction to Healthcare Professions

Credit Hours: 3

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. Same Course As: ALLH 1150 and PSYC 1150; students may receive credit for the course only once

SOCY 1160 - Exploration of Healthcare Professions

Credit Hours: 2

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. Same Course As: ALLH 1160 and PSYC 1160; students may receive credit for the course only once

Prerequisite(s): ALLH 1150 or SOCY 1150 or PSYC 1150

SOCY 1199 - Special Topics in Sociology

Credit Hours: 1-12

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

Credit Hours: 3

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

Credit Hours: 3

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

Credit Hours: 3

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.

Prerequisite(s): SOCY 1110

SOCY 2230 - Social Psychology

Credit Hours: 3

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; credit may be received for either PSYC 2230 or SOCY 2230, but not both

Prerequisite(s): PSYC 1101 or SOCY 1110

SOCY 2240 - Behavioral Statistics

Credit Hours: 3

This course covers elementary statistical description and analysis, as employed particularly in the behavioral sciences. Same Course As: PSYC 2240 - Behavioral Statistics; credit may be received for either PSYC 2240 or SOCY 2240, but not both

Prerequisite(s): MATH 1507 or higher

SOCY 2270 - Introduction to Social Work

Credit Hours: 3

This course is an introduction to the profession of social work and the philosophical, societal and organizational contexts within which professional social work activities are conducted. This course provides the opportunity for students to explore their interest in and potential for a career in social work. It introduces the knowledge, skills and values of social work as a profession and explores the role of social workers within the broad area of social welfare and social services. This course emphasizes the value base of social work practice and its commitment to social and economic justice. Same Course As: PSYC 2270

Prerequisite(s): PSYC 1101 or SOCY 1110

SOCY 3301 - Cultural Anthropology

Credit Hours: 3

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. When Offered: Offered in Spring semester

Prerequisite(s): SOCY 1110

SOCY 3310 - Sociology of the Family

Credit Hours: 3

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.

Prerequisite(s): SOCY 1110

SOCY 3325 - Stratification and Class

Credit Hours: 3

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.

Prerequisite(s): SOCY 1110 and SOCY 2205

SOCY 3335 - Sociology of Gender

Credit Hours: 3

This course is an introduction to and analysis of the sociological subfield of gender and the diverse theories that are often utilized to understand the creation and social construction of gender, sex, and sexuality. Topics include an analysis of gendered stratification, inequality, privilege, and culture, and the way gender intersects with sex, sexuality, race, ethnicity, nationality, age, ability, and religion.

Prerequisite(s): SOCY 1110

SOCY 3340 - Juvenile Delinquency

Credit Hours: 3

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.

Prerequisite(s): SOCY 2200

SOCY 3345 - Sociology of Sexualities

Credit Hours: 3

This course is an introduction to and analysis of the social construction of sexual desires, activities, and identities and how they vary across time and place. Topics include the emergence of sexual and gendered identities, the historical and current inequalities and discrimination faced by gender non-conforming individuals, heterosexual and cisgender privileges, activism/mobilization to challenge discrimination, and the ways sexuality operates in and through various social institutions.

Prerequisite(s): SOCY 1110

SOCY 3350 - Sociology of Religion

Credit Hours: 3

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

Credit Hours: 4

Lecture/Lab Hours: This course includes three hours of instruction and one hour of Lab
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. Same Course As: PSYC 3305; credit may be received for either PSYC 3305 or SOCY 3360, but not both.

Prerequisite(s): PSYC 2240 or SOCY 2240

SOCY 3370 - Concepts of Survey Design

Credit Hours: 3

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. When Offered: Offered in Spring semester

Prerequisite(s): SOCY 2240 OR PSYC 2240

SOCY 3390 - Social Change

Credit Hours: 3

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.

Prerequisite(s): SOCY 2220

SOCY 3395 - Sociological Theory

Credit Hours: 3

Writing Intensive

A study of the historical development of modern sociological thought. When Offered: Offered in Fall semester

Prerequisite(s): ENGL 1102 and SOCY 1110 Junior or senior standing

SOCY 4410 - Sociology of Work

Credit Hours: 3

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.

Prerequisite(s): SOCY 1110

SOCY 4450 - Race and Ethnicity

Credit Hours: 3

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.

Prerequisite(s): SOCY 1110 and SOCY 2205

SOCY 4461 - Advanced Methodology

Credit Hours: 3

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.

Prerequisite(s): SOCY 3360 or PSYC 3305; Instructor approval required

SOCY 4471 - Advanced Sociological Theory: A Critical Review

Credit Hours: 3

A comparison, contrast and critical examination of certain selected sociological theorists.

Prerequisite(s): SOCY 3395 or Instructor approval required

SOCY 4480 - Senior Capstone

Credit Hours: 3

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.

Prerequisite(s): SOCY 3370 - Concepts of Survey Design and SOCY 3395 - Sociological Theory

SOCY 4487 - Directed Study in Sociology

Credit Hours: 1-6

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 Up to 3 credit hours may be applied to the sociology major elective requirements

Prerequisite(s): Instructor approval required

SOCY 4488 - Practicum in Sociology

Credit Hours: 1-6

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. Repeatable Up to 3 credit hours may be applied to the sociology major elective requirements

Prerequisite(s): Instructor approval required

SOCY 4489 - Directed Research in Sociology

Credit Hours: 1-6

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. Repeatable Up to 3 credit hours may be applied to the sociology major elective requirements

Prerequisite(s): Instructor approval required

SOCY 4490 - Seminar: Sociological Literature

Credit Hours: 1-12

A course focusing on original sources and publications not primarily used as texts.

Prerequisite(s): SOCY 3395 or Instructor approval required

SOCY 4497 - Seminar: Special Problems in Sociology

Credit Hours: 1-12

Reading and research on subjects suited to the student's needs. Restrictions: Open only to juniors and seniors majoring in Sociology.

Prerequisite(s): SOCY 3395 or Instructor approval required

SOCY 4998 - Undergraduate Research

Credit Hours: 0-6

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. Repeatable Restrictions: Sophomore-Senior Level

Prerequisite(s): Instructor approval required

Spanish

SPAN 1101 - Elementary Spanish I

Credit Hours: 3

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

Credit Hours: 3

A continuation of SPAN 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.

Prerequisite(s): SPAN 1101 or equivalent

SPAN 1199 - Special Topics

Credit Hours: 3

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

Credit Hours: 3

A survey of Peninsular and Latin American media. Media are usually subtitled; no prior knowledge of Spanish required.

SPAN 2201 - Intermediate Spanish I

Credit Hours: 3

Students integrate the grammar studied with the skills acquired in SPAN 1101 and SPAN 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.

Prerequisite(s): SPAN 1102

SPAN 2202 - Intermediate Spanish II

Credit Hours: 3

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.

Prerequisite(s): SPAN 2201

SPAN 2250 - Spanish For the Medical Professions

Credit Hours: 3

This course is designed to enable the student to effectively manage the fundamentals of medical terminology in Spanish. When Offered: Offered on demand

Prerequisite(s): SPAN 1102

SPAN 2251 - Spanish for Criminal Justice

Credit Hours: 3

This course enables the student to effectively manage the fundamentals of law enforcement terminology in Spanish.

Prerequisite(s): SPAN 1102

SPAN 2252 - Spanish for a World Economy

Credit Hours: 3

This course is designed to enable the student to effectively manage the fundamentals of business terminology in Spanish.

Prerequisite(s): SPAN 1102

SPAN 3300 - Undergraduate Student Exchange

Credit Hours: 3-6

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.

Prerequisite(s): SPAN 1102

SPAN 3301 - Spanish Composition and Conversation I

Credit Hours: 3

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.

Prerequisite(s): SPAN 2202

SPAN 3302 - Spanish Composition and Conversation II

Credit Hours: 3

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 SPAN 3301 before 3302.

Prerequisite(s): SPAN 2202

SPAN 3310 - Spanish Civilization and Culture

Credit Hours: 3

The students will study the history, civilization, and culture of Spain through extensive reading, videos, writing and class discussion.

Prerequisite(s): SPAN 3301 or SPAN 3302

SPAN 3320 - Latin American Civilization and Culture

Credit Hours: 3

The students will study the history, civilization, and culture of Latin America through extensive reading, videos, writing and class discussion.

Prerequisite(s): SPAN 3301 or SPAN 3302

SPAN 3350 - History of the Spanish Language

Credit Hours: 3

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.

Prerequisite(s): SPAN 3301 or SPAN 3302

SPAN 4400 - Survey of Latin American Literature

Credit Hours: 3

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.

Prerequisite(s): SPAN 3301 or SPAN 3302

SPAN 4401 - Survey of Peninsular Literature

Credit Hours: 3

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.

Prerequisite(s): SPAN 3301 or SPAN 3302

SPAN 4402 - Independent Study

Credit Hours: 3-6

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.

Prerequisite(s): SPAN 4400 or SPAN 4401, and Instructor approval required

SPAN 4410 - Advanced Skills: Speaking, Writing, Listening and Reading

Credit Hours: 3

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.

Prerequisite(s): SPAN 4400 or SPAN 4401

SPAN 4411 - Spanish Capstone: Proficiency Portfolio

Credit Hours: 1

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.

Prerequisite(s): SPAN 4400 or SPAN 4401

SPAN 4418 - U.S. Hispanic Cultures & Literature

Credit Hours: 3

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.

Prerequisite(s): SPAN 3310 or SPAN 3320

SPAN 4431 - Methods: Second Language Acquisition in the Classroom

Credit Hours: 3

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.

Prerequisite(s): SPAN 4400 or SPAN 4401, and Instructor approval required

SPAN 4998 - Undergraduate Research

Credit Hours: 0-6

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. Repeatable Restrictions: Sophomore-Senior Level

Prerequisite(s): Instructor approval required

Special Education

SPED 2520 - Linking Policy and Practice in Special Education

Credit Hours: 3

Required. 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.

Prerequisite(s): EDUC 2240

SPED 3520 - Behavior Analysis, Intervention, and Support

Credit Hours: 3

Required. 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.

Prerequisite(s): EDUC 2240

SPED 4520 - Assessment and Instruction of Individuals with Exceptionalities (IWE)

Credit Hours: 4

Required. 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.

Prerequisite(s): EDUC 2240 and EDUC 2260

Social Science

SSCI 1199 - Special Topics in Social Science

Credit Hours: 1-12

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

Credit Hours: 3

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. When Offered: Fall semester only

Prerequisite(s): Successful completion of PPST AXIS Test

SSCI 4498 - Interdisciplinary Seminar

Credit Hours: 3

Identification and synthesis of major concepts in the fields of geography, history, political science, psychology, sociology and economics. When Offered: Fall semester only

Prerequisite(s): Instructor approval required (No prerequisites for History Majors)

SSCI 4998 - Undergraduate Research

Credit Hours: 0-6

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. Repeatable Restrictions: Sophomore-Senior Level

Prerequisite(s): Instructor approval required

Technology

TECH 1100 - Technology and Society

Credit Hours: 3

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

Credit Hours: 3

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

Credit Hours: 3

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

Credit Hours: 3

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

Credit Hours: 3

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

Credit Hours: 3

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.

Corequisite(s): TECH 1104

TECH 1199 - Special Topics

Credit Hours: 1-12

A study of special topics of educational, technical, or industrial concern.

Prerequisite(s): Instructor approval required

TECH 2202 - Transportation I

Credit Hours: 4

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.

Prerequisite(s): TECH 1104

TECH 2203 - Manufacturing I

Credit Hours: 4

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.

Prerequisite(s): MANF 1100, TECH 1104

TECH 2204 - Construction I

Credit Hours: 4

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.

Prerequisite(s): TECH 1104, MANF 1100

TECH 2208 - Engineering Graphics II

Credit Hours: 3

This course is a continuation of TECH 1108 - 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.

Prerequisite(s): TECH 1108

TECH 2250 - History of Technology

Credit Hours: 3

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

Credit Hours: 4

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.

Prerequisite(s): Sophomore standing MATH 1520 with a grade of C or better or MATH ACT 25

TECH 2299 - Special Topics

Credit Hours: 1-12

A study of special topics of educational, technical, or industrial concern.

Prerequisite(s): Instructor approval required

TECH 3300 - Engineering Analysis II

Credit Hours: 4

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.

Prerequisite(s): TECH 2290 or MATH 1585 , or MATH 2501 with a grade of C or better

TECH 3301 - Communication

Credit Hours: 4

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.

Prerequisite(s): BISM 1500 , TECH 1104

TECH 3302 - Manufacturing II

Credit Hours: 4

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.

Prerequisite(s): TECH 2203

TECH 3303 - Transportation II

Credit Hours: 4

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.

Prerequisite(s): TECH 2202

TECH 3304 - Construction II

Credit Hours: 4

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.

Prerequisite(s): TECH 2204

TECH 3310 - Man and Technology

Credit Hours: 3

A historical study of humans and technology as a basis for the development of contemporary philosophical systems.

Prerequisite(s): Junior standing

TECH 3331 - Organization and Administration of Technology Education

Credit Hours: 4

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.

Prerequisite(s): TECH 3303 and TECH 3304

TECH 3393 - Future Global Crises

Credit Hours: 3

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)

Prerequisite(s): Junior standing

TECH 3399 - Special Topics

Credit Hours: 1-3

A study of special topics of educational, technical or industrial concern.

Prerequisite(s): Instructor approval required

TECH 4400 - Work Experience Seminar

Credit Hours: 4

A functional analysis of industrial organization and management, and the implementation of these concepts toward the initiation of a new industry.

Prerequisite(s): Sophomore standing as a Technology major or Instructor approval required

TECH 4401 - Work Experience Laboratory

Credit Hours: 8

Professional work experience, including employer evaluation.

Prerequisite(s): Instructor approval required

TECH 4431 - Methods and Materials for Teaching Technology Education

Credit Hours: 3

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.

Prerequisite(s): TECH 3301 and TECH 3331

TECH 4450 - Automation and Robotics

Credit Hours: 3

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.

Prerequisite(s): ELEC 4420 and MECH 3320 and COMP 1130

TECH 4499 - Special Topics

Credit Hours: 1-3

A study of special topics of educational, technical, or industrial concern.

Prerequisite(s): Instructor approval required

TECH 4998 - Undergraduate Research

Credit Hours: 0-6

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. Repeatable Restrictions: Sophomore-Senior Level

Prerequisite(s): Instructor approval required

Theatre

THEA 1110 - Introduction to Theatre

Credit Hours: 3

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. When Offered: Fall semester only

THEA 1114 - Body Training and Stage Movement

Credit Hours: 3

The actor explores the movement of the body as it applies to space, line, focus, effort, strength, communication, connection and emotional release. When Offered: Spring semester only Restrictions: Open to theatre arts majors and minors only.

THEA 1120 - Theatre Appreciation

Credit Hours: 3

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. Course is transferable as general studies credit to all other state institutions of higher education in West Virginia for credit

with the grade earned.

Transferable General Studies Course
THEA 1120~

THEA 1140 - Theatrical Production

Credit Hours: 2

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

Credit Hours: 1

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 Restrictions: Open to freshmen and sophomores. (Juniors and seniors, see THEA 3348)

THEA 1151 - Text Analysis

Credit Hours: 3

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. When Offered: Spring semester only

THEA 1160 - Technical Theatre Practicum: Costuming I

Credit Hours: 1

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 Restrictions: Open to freshmen and sophomores. (Juniors and seniors, see THEA 3360)

Prerequisite(s): Instructor approval

THEA 1162 - Technical Theatre Practicum: Lighting I

Credit Hours: 1

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 Restrictions: Open to freshmen and sophomores. (Junior and seniors, see THEA 3362)

Prerequisite(s): Instructor approval

THEA 1164 - Technical Theatre Practicum: Properties I

Credit Hours: 1

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 Restrictions: Open to freshmen and sophomores. (Juniors and seniors, see THEA 3364)

Prerequisite(s): Instructor approval

THEA 1166 - Technical Theatre Practicum: Scenic I

Credit Hours: 1

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 Restrictions: Open to freshmen and sophomores. (Juniors and seniors, see THEA 3366)

Prerequisite(s): Instructor approval

THEA 1168 - Technical Theatre Practicum: Sound I

Credit Hours: 1

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 Restrictions: Open to freshmen and sophomores. (Juniors and seniors, see THEA 3368)

Prerequisite(s): Instructor approval

THEA 1199 - Special Topics in Theatre

Credit Hours: 1-3

Studies in special selected topics, to be determined by the instructor and approved by the School's Dean. Maximum credit allowed is 3 hours per semester, up to 12 hours total Credits earned will be applicable as free electives in degree and certificate programs.

THEA 2212 - Theatrical Makeup

Credit Hours: 1

Fundamentals of the theory and technique of designing and applying theatrical makeup. A basic makeup kit is required. When Offered: Fall semester only

THEA 2218 - Musical Theatre Dance

Credit Hours: 1

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

Prerequisite(s): Instructor approval required

THEA 2220 - Oral Interpretation

Credit Hours: 3

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. When Offered: Offered on demand

THEA 2228 - Oral Interpretation Practicum I

Credit Hours: 1-4

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 Restrictions: Open to freshmen and sophomores. (Juniors and seniors, see THEA 4428)

THEA 2230 - Acting

Credit Hours: 3

This course is an introduction to the theory and practice of fundamental acting techniques for the stage. When Offered: Fall semester only

Prerequisite(s): No prerequisites

THEA 2238 - Acting Workshop I

Credit Hours: 1

Credit is earned for public performance in faculty-directed Masquers productions. Maximum credit allowed is 2 hours per semester, up to 4 hours total Restrictions: Open to freshmen and sophomores. (Juniors and seniors see THEA 4432)

THEA 2244 - Introduction to Theatrical Design

Credit Hours: 3

An introduction to the principles of theatrical design, including scenic, lighting and costume design. When Offered: Spring semester only

Prerequisite(s): THEA 1140 and THEA 1151

THEA 2251 - Playwriting

Credit Hours: 3

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. When Offered: Offered on demand

Prerequisite(s): THEA 1151 and THEA 2230

THEA 2262 - Production Practicum I

Credit Hours: 1

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. Restrictions: Open to freshmen and sophomores. (Juniors and Seniors, see THEA 4462)

Prerequisite(s): THEA 1148

THEA 3314 - Advanced Theatrical Makeup

Credit Hours: 1

Practice in advanced design and application of theatre makeup, including prosthetics. When Offered: Offered on demand

Prerequisite(s): THEA 2212

THEA 3320 - The Art of Storytelling in Theory and Practice

Credit Hours: 3

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. When Offered: Fall semester, odd-numbered years. Same Course As: FOLK 3320 and COMM 3320

THEA 3326 - Performance Studies

Credit Hours: 3

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. When Offered: Fall semester, odd-numbered years

Prerequisite(s): THEA 2230

THEA 3330 - Advanced Acting

Credit Hours: 3

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. When Offered: Spring semester, odd-

numbered years

Prerequisite(s): THEA 2230

THEA 3336 - Directing

Credit Hours: 3

Principles and techniques of play directing with specific emphasis on play selection and analysis, casting, and staging. When Offered: Spring semester only

Prerequisite(s): THEA 1140, THEA 1151, and THEA 2230

THEA 3340 - Theatre History I

Credit Hours: 3

Writing Intensive

A study of the development of theatre from its beginnings through the eighteenth century. When Offered: Fall semester, even-numbered years

Prerequisite(s): ENGL 1102 and THEA 1110

THEA 3341 - Theatre History II

Credit Hours: 3

Writing Intensive

This course is a continuation of THEA 3340, exploring the development of theatre from the nineteenth century to the present. When Offered: Spring semester, odd-numbered years

Prerequisite(s): ENGL 1102 and THEA 1110

THEA 3344 - Advanced Theatrical Design

Credit Hours: 3

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. When Offered: Fall semester, odd-numbered years

Prerequisite(s): THEA 2244

THEA 3346 - Creative Puppetry

Credit Hours: 3

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. When Offered: Fall semester, odd-numbered years

THEA 3348 - Theatre Workshop II

Credit Hours: 1

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
Restrictions: Open to juniors and seniors. (Freshmen and sophomores see THEA 1148)

THEA 3350 - Children's Drama

Credit Hours: 3

Writing Intensive

A course providing an introduction to the theories and techniques involved in both creative drama for children and children's theatre. When Offered: Spring semester, even-numbered years

Prerequisite(s): ENGL 1102

THEA 3352 - Creative Drama

Credit Hours: 3

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. Satisfies General Studies category Outcome 12. When Offered: Fall semester, even-numbered years

THEA 3354 - Theatre Education Practicum

Credit Hours: 1

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.

Prerequisite(s): THEA 3346, THEA 3350 and THEA 3352

THEA 3356 - Summer Theatre: Rehearsal and Performance

Credit Hours: 1-3

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.

Prerequisite(s): Auditions

THEA 3358 - Summer Theatre: Production and Management

Credit Hours: 1-3

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.

Prerequisite(s): Instructor approval

THEA 3360 - Technical Theatre Practicum: Costuming II

Credit Hours: 1

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
Restrictions: Open to juniors and seniors. (Freshmen and sophomores, see THEA 1160)

Prerequisite(s): Instructor approval

THEA 3362 - Technical Theatre Practicum: Lighting II

Credit Hours: 1

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
Restrictions: Open to juniors and seniors. (Freshmen and sophomores, see THEA 1162)

Prerequisite(s): Instructor approval

THEA 3364 - Technical Theatre Practicum: Properties II

Credit Hours: 1

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
Restrictions: Open to juniors and seniors. (Freshmen and sophomores, see THEA 1164)

Prerequisite(s): Instructor approval

THEA 3366 - Technical Theatre Practicum: Scenic II

Credit Hours: 1

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
Restrictions: Open to juniors and seniors. (Freshmen and sophomores, see THEA 1166)

Prerequisite(s): Instructor approval

THEA 3368 - Technical Theatre Practicum: Sound II

Credit Hours: 1
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 Restrictions: Open to juniors and seniors. (Freshmen and sophomores, see THEA 1168)

Prerequisite(s): Instructor approval

THEA 3375 - Development of Dramatic Art

Credit Hours: 3
Writing Intensive

Study of the works of major playwrights and critical theorists of Western and non-Western theatre. Satisfies General Studies category Outcome 13. When Offered: Fall semester, even-numbered years

Prerequisite(s): ENGL 1102

THEA 3392 - Costume History and Design

Credit Hours: 3
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. When Offered: Offered on demand

Prerequisite(s): THEA 2244

THEA 4428 - Oral Interpretation Practicum II

Credit Hours: 1-4
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 Restrictions: Open to juniors and seniors. (Freshmen and sophomores, see THEA 2228).

THEA 4431 - Methods and Materials in Teaching Communication and Theatre

Credit Hours: 3
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. When Offered: Fall semester only

THEA 4432 - Acting Workshop II

Credit Hours: 1
Credit is earned for public performance in faculty-directed Masquers productions. Maximum credit allowed is 2 hours

per semester, up to 4 hours total Restrictions: Open to juniors and seniors. (Freshmen and sophomores, see THEA 2238).

THEA 4438 - Senior Comprehensive Project

Credit Hours: 3
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. Restrictions: Open to theatre arts majors only.

Prerequisite(s): Senior standing

THEA 4462 - Production Practicum II

Credit Hours: 1
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 Restrictions: Open to juniors and seniors. (Freshmen and sophomores, see THEA 2262)

Prerequisite(s): THEA 1148

THEA 4480 - Theatre Business Management and Promotion

Credit Hours: 3
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. When Offered: Offered on demand

THEA 4484 - Theatre Business Management Practicum

Credit Hours: 1
Practical experience in varied aspects of business management, including box office assignments through work with Masquers productions.

Prerequisite(s): Instructor approval

THEA 4488 - Promotion Practicum

Credit Hours: 1
Practical experience in varied aspects of theatrical promotion through work on Masquers productions.

Prerequisite(s): Instructor approval

THEA 4490 - Directed Study in Theatre

Credit Hours: 1-3

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

Prerequisite(s): Instructor approval

THEA 4998 - Undergraduate Research

Credit Hours: 1-3

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

Prerequisite(s): Sophomore standing and above, instructor approval

Faculty

AHMED, ARREJ (2020)

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