Degree Programs

The **Associate of Arts (A.A.)** degree/transfer program is designed to parallel the first two years of a liberal arts education at a four-year college. Credits earned usually can be transferred to West Virginia University or another four-year school granting the baccalaureate degree. The degree encourages students to:

- explore, discover and develop their special aptitudes and interests and to reach beyond their own perceived limitations;
- acquire the knowledge, critical thinking, problem solving, communication, teamwork, ethical, and social skills needed to support their immediate educational goals, as well as life-long learning in a world characterized by change;
- nurture social responsibility and receptive attitudes compatible with citizenship within a global society.

The **Associate of Applied Science (A.A.S.)** degree/career and technical program offers students the opportunity to gain the technical and occupational skills needed for employment. Some four-year colleges accept a portion of A.A.S. degree credits as part of a bachelor’s degree. The degree encourages students to:

- explore, discover and develop their special aptitudes and interests and to reach beyond their own perceived limitations;
- acquire the knowledge, critical thinking, problem solving, communication, teamwork, ethical, and social skills needed to support their immediate educational goals, as well as life-long learning in a world characterized by change;
- nurture social responsibility and receptive attitudes compatible with citizenship within a global society;
- acquire and develop skills necessary to enter the workforce.

The **Bachelor of Applied Science (B.A.S.)** degree allows students holding an Associate of Applied Science (A.A.S.) degree to earn a bachelor’s degree upon completion of a prescribed curriculum of 61 to 62 credits. Emphases are currently offered in Business Management, Computer Information Systems, and Criminal Justice. The degree encourages students to:

- explore, discover and develop their special aptitudes and interests and to reach beyond their own perceived limitations;
- acquire the knowledge, critical thinking, problem solving, communication, teamwork, ethical, and social skills needed to support their immediate educational goals, as well as life-long learning in a world characterized by change;
- nurture social responsibility and receptive attitudes compatible with citizenship within a global society;
- acquire skills necessary to enter the workforce;
- experience leadership;
- experience opportunities for defining relationships between the student’s degree program and post-baccalaureate goals;
- apply acquired skills and knowledge in a capstone experience involving a simulated business (Business Management) or in discipline-related research (Criminal Justice).

**Regents Bachelor of Arts (RBA)**

Potomac State College makes it possible for adults to complete a bachelor’s degree through the Regent’s Bachelor of Arts (RBA) program in the University College of West Virginia University. Students design their degree in conjunction with an adviser at Potomac State. West Virginia University confers the baccalaureate degree.

The College of Education and Human Services instills high expectations for personal academic achievement in students, along with the skills, experience and confidence to succeed. Through nontraditional degree programs, students gain empowerment to set and accomplish personal academic success goals. The Regents Bachelor of Arts (RBA) degree is an innovative baccalaureate designed to be a foundational bachelor’s degree for adult students. It makes use of flexible methods of degree completion including the use of prior learning as credit. The RBA is designed to provide a broad set of core competencies that support general education while allowing students to develop skills and knowledge for the next step in their career, education, or life. Through the guidance of their academic advisor, RBA students design a curriculum that meets their current and future academic and life needs.

The Regents Bachelor of Arts (RBA) degree program will:

- provide ability to communicate effectively in various contexts;
- build on past life experiences for a well-rounded curriculum of knowledge;
- promote development of core competencies;
- demonstrate connections between general education courses and career goals;
- provide a flexible path of an undergraduate degree;
- serve as a foundation to graduate education.
In this section:

- Abbreviations Used in Course Listings (p. 2)
- Plan for Numbering Courses (p. 2)
- Common Course Numbers and Descriptions (p. 2)
- Independent Study Classes (p. 3)
- Final Exams (p. 3)
- Last week of Classes (p. 3)

Abbreviations Used in Course Listings

<table>
<thead>
<tr>
<th>Abbreviation</th>
<th>Description</th>
</tr>
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<tbody>
<tr>
<td>HR</td>
<td>credit hours per course</td>
</tr>
<tr>
<td>Lec</td>
<td>lecture period</td>
</tr>
<tr>
<td>Rec</td>
<td>recitation period</td>
</tr>
<tr>
<td>Lab</td>
<td>laboratory period</td>
</tr>
<tr>
<td>GLAB</td>
<td>graded lab</td>
</tr>
<tr>
<td>WEB</td>
<td>web-based course</td>
</tr>
<tr>
<td>CONC</td>
<td>concurrent - listed with PR meaning the course may be completed at the same time as enrollment in the course for which it is listed</td>
</tr>
<tr>
<td>PR</td>
<td>prerequisite - course must be completed in a term prior to enrollment in the course for which it is listed</td>
</tr>
<tr>
<td>Coreq</td>
<td>co-requisite - courses must be taken in the same term</td>
</tr>
<tr>
<td>Consent</td>
<td>consent of instructor required</td>
</tr>
<tr>
<td>CR</td>
<td>credit but no grade</td>
</tr>
</tbody>
</table>

Plan for Numbering Courses

For convenience, each course of study is designated by the name of the department in which it is given and by the number of that course. The plan for numbering courses is as follows:

Courses 100 Freshman/Lower Division: Intended primarily for freshmen, although upper-division students may take them if needed to complete degree requirements.

Courses 200 Sophomore/Lower Division: Intended primarily for sophomores. These courses may have 100 or 200-level prerequisites.

Courses 300 Juniors/Upper Division: Intended primarily for juniors. These courses may have extensive prerequisites or be limited to specific majors.

Courses 400 Seniors/Upper Division: Intended primarily for seniors and selected graduate students. These courses are typically limited to advanced undergraduates within a particular major or degree program and selected graduate students.

Undergraduate Common Course Numbers & Descriptions

199. Orientation to [subject/field]. 1-2 Hr. Orientation to degree programs and requirements, departmental resources, curriculum options, student responsibilities, and opportunities.

293. Special Topics. 1-6 Hr. PR: Consent. Investigation of topics not covered in regularly scheduled courses.

298. Honors, 1-3 Hr. PR: Students in Honors Program and consent by the honors director. Independent reading, study, or research.

393. Special Topics. 1-6 Hr. PR: Consent. Investigation of topics not covered in regularly scheduled courses.

490. Teaching Practicum. 1-3 Hr. PR: Consent. Teaching practice such as a tutor or assistant.

491. Professional Field Experience. 1-18 Hr. PR: Consent. (May be repeated up to a maximum of 18 hours.) Prearranged experiential learning program to be planned, supervised, and evaluated for credit by faculty and field supervisors. Involves temporary placement with public or private enterprise for professional competence development.

492. Directed Study. 1-3 Hr. Directed study, reading, and/or research.

493. Special Topics. 1-6 Hr. PR: Consent. Investigation of topics not covered in regularly scheduled courses.

494. Seminar. 1-3 Hr. PR: Consent. Presentation and discussion of topics of mutual concern to students and faculty.

495. Independent Study. 1-6 Hr. Faculty-supervised study of topics not available through regular course offerings.
496. Senior Thesis. 1-3 Hr. PR: Consent.

497. Research. 1-6 Hr. Independent research projects.

498. Honors, 1-3 Hr. PR: Students in Honors Program with consent by the honors director. Independent reading, study, or research.

499. Global Service Learning. 1-3 Hr. PR: Consent. Theory and practice of global service-learning. The main objective will be to pair the experiential aspects of meaningful and sustained service in the host community with work from the student’s anchor course by offering a methodological framework for cultural immersion and community service as well as adding to the content of the anchor course.

**Independent Study Classes**

Independent study classes may occasionally be contracted between a student and Potomac State College when:

1. The student has achieved good academic standing (GPA of 2.0 or higher),
2. The course requested for independent study is a requirement for graduation under the student’s major, and
   a. There is no possibility of taking the course be the expected graduation date, or
   b. Unavoidable schedule conflict between required courses that are part of a sequence for which a real hardship would occur for the student to be able to complete his or her program in two years.

Independent study courses may also be contracted between a student and Potomac State College to provide enhanced educational opportunities for students enrolled in the Potomac State College Honors Program or to provide enhanced educational opportunities not regularly available to Potomac State College students.

Students should consult with their advisers. All requests for independent study classes require the approval of the Dean of Academic Affairs.

**Final Exams**

A final exam schedule will be developed each fall and spring by the Office of Academic Affairs. Final examinations for the summer sessions are given on the last day of classes.

If enrolled in a section of a multi-section course, students may be required to take the departmental final examination given during the regular final examination period.

**Last Week of Classes**

Practical laboratory tests, make-up examinations, and regularly scheduled short quizzes are the only tests permitted for day classes during the five days of classes preceding the beginning of final exams. Evening classes have their final exams on the last meeting of the class preceding the final exam schedule for day classes.

**In this section:**

- Classification of Students (p. 3)
- Course Overload (p. 4)
- Credit Hour Definition (p. 4)
- Credit by Examination (p. 4)

**Classification of Students**

Students are classified as freshmen, sophomores, juniors, or seniors. These classifications are based upon the number of hours completed. The classifications are as follows:

<table>
<thead>
<tr>
<th>Classification</th>
<th>Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>Freshman</td>
<td>1-28 Earned Credit Hours, Inclusive</td>
</tr>
<tr>
<td>Sophomore</td>
<td>29-58 Earned Credit Hours, Inclusive</td>
</tr>
<tr>
<td>Junior</td>
<td>59-88 Earned Credit Hours, Inclusive</td>
</tr>
<tr>
<td>Senior</td>
<td>89 or More Earned Hours</td>
</tr>
</tbody>
</table>

**Note:** Classification of students will be updated starting Summer 2018.

The normal semester load for a full-time college student varies from 12 to 18 hours according to the curriculum selected. A college credit or semester hour represents the amount of work done in one recitation hour per week for the duration of a semester. As a rule, two to three hours of laboratory work are equivalent to one hour of recitation.
Course Overload

Students may not enroll for more than 18 credit-hours of course work in a fall or spring semester of 14 credits in a summer semester without first receiving permission from the Dean of Academic Affairs.

Credit Hour Definition

Potomac state college course offered for credit are based on semester hours. Semesters are fifteen weeks long plus one week for final exams. A single credit hour is equivalent to fifty minutes of guided instruction with the classroom. An hour of preparation, or related activity outside of the classroom, is equivalent to sixty minutes.

FACE-TO-FACE CLASSROOM LEARNING

One credit hour is equivalent to one hour of guided instruction (fifty minute class) and a minimum of two hours of out-of-class student work each week for approximately fifteen weeks for one semester or the equivalent amount of work over a different amount of time such as during the summer sessions, which may vary in duration. One credit hour in other academic activities, as established by the institution, including laboratory work, internships, practicums, studio work, study abroad, experiential learning opportunities, online learning, and other academic work must include an equivalent amount of required work listed in the preceding paragraph and is outlined in more detail below.

ONLINE CLASSROOM LEARNING

One credit hour of online learning is equivalent to fifteen hours of direct instruction and thirty hours of student work. Direct instruction can occur via computer-assisted (modules), multi-media interaction, discussions, and/or completion of exams/quizzes/assessments as documented in the course syllabus and approved to meet best practices in online learning. Student work includes activities like readings and supplemental home work. Students must fulfill these hours to complete the course requirements as set forth by the course instructor. Online courses developed from existing face-to-face instruction adhere to the defined learning outcomes and assessments of the original face-to-face format for the course.

EXPERIENTIAL LEARNING

In experiential learning, including opportunities representing laboratory/lecture courses, professional development internships, and service learning, a total of three hours of classroom and preparation time per week over a period of fifteen weeks for one credit hour or the equivalent amount of work over a shorter period of time is required. Courses must incorporate adequate opportunities to document student progress and student completion of the stated learning objectives for each experience.

STUDY ABROAD

One credit hour is equivalent to fifteen hours of guided instruction and thirty hours of cultural, linguistic or other types of engagements as described by the syllabus and approved by the faculty, Division Chair, Dean, and President. Exceptions to this general rule would need to be justified and approved on an individual basis.

Credit by Examination

After admission to Potomac State College, students may elect to take examinations demonstrating competence in specific coursework. While PSC administered credit by examination and placement credit will be excluded from PSC residence credit, it does not interrupt the final fifteen credit hours in residence if earned during this period.

GUIDELINES

1. The student must be enrolled at Potomac State College during the semester that the credit is being sought.
2. The student must never have been enrolled in the class after the first week of the semester. Under unusual circumstances, this requirement may be waived by the Dean of Academic Affairs in consultation with the appropriate Division Chair.
3. No student may attempt institutional credit by examination more than once for the same course.
4. The student must demonstrate a background sufficient to warrant an exam.
5. The student must attempt institutional credit by examination prior to the last day to withdraw from a class.

COURSES NOT ELIGIBLE FOR CREDIT BY EXAMINATION

Due to their particular purposes and content, some courses may not be eligible for credit by examination at Potomac State College. These include foundations courses and ENGL 101 and ENGL 102.

PROCEDURE

1. The student must submit in writing to the appropriate Division Chair an explanation of how the competency was achieved. The Division Chair will determine if the student is eligible and whether the course is appropriate for institutional credit by examination. The Chair's decision can be appealed in writing within five working days to the Dean of Academic Affairs.
2. The Division Chair will procure an appropriate faculty member to develop, administer, and evaluate the exam. The Chair and the faculty member share responsibility for assuring the appropriate level of difficulty of the exam. In order to pass the exam, the student must show proficiency at a level comparable to that of a student receiving a grade of C in the course.

3. Upon successful completion, the student will receive credit for the course with no letter grade designated. Institutional credit will not affect the grade point average of the student.

4. A student who believes that a non-passing grade on the exam was due to capricious, arbitrary, or prejudiced academic evaluation or reflects discrimination based on race, color, creed, sex or national origin, may appeal the decision. The appeal will follow the same procedure as used for the appeal of a grade.

**ANIMAL AND VETERINARY SCIENCE**

A&VS 150. Introduction to Animal Science. 2 Hours.
Survey of major disciplines in animal and veterinary sciences with emphasis on related terminology; study of the development of breeds of livestock and their identification.

A comparative study of the production of meat, milk, eggs and wool. Nutrition, physiology genetics, hygiene and physical environment, and economics are discussed as bases for sound managerial decisions. (1 hr. lab.).

A&VS 275. Companion Animal Science. 3 Hours.
Basic physiology, nutrition and genetics; economic and ethical consideration of pet ownership; benefits of companion animals in society; aspects of handling and training, behavior, and common health diseases and parasite problems of pet animals.

A&VS 293. Special Topics. 1-6 Hours.
PR: Consent. Investigation of topics not covered in regularly scheduled courses.

A&VS 480. Assigned Topics. 1-4 Hours.
To be eligible to register in A&VS 480, the student must: (1) be in good standing, (2) obtain approval of the instructor supervising the topic, and (3) obtain approval from the instructor assigned the course responsibility.

A&VS 491. Professional Field Experience. 1-18 Hours.
PR: Consent. (May be repeated up to a maximum of 18 hours.) Prearranged experiential learning program, to be planned, supervised, and evaluated for credit by faculty and field supervisors. Involves temporary placement with public or private enterprise for professional competence development.

**ACCOUNTING**

ACCT 201. Principles of Accounting. 3 Hours.
The concepts, principles, and procedures pertaining to the preparation, analysis, and interpretation of financial statements.

ACCT 202. Principles of Accounting. 3 Hours.
PR: ACCT 201 with grade of C or better. Utilization of accounting information for purposes of managerial control and decision making; cost concepts, profit and financial budgeting, analysis of financial statements.

**ATHLETIC COACHING EDUCATION**

ACE 106. Athletic Coaching Education. 3 Hours.
Overview of athletic coaching profession including careers opportunities, critical current issues/trends, professional standards and the professional organizations.

ACE 168. Sport Officiating. 2 Hours.
Study of the art, science, industry standards, and best practices of the officiating profession across all levels of sport.

ACE 256. Principles and Problems of Coaching. 3 Hours.
Designed to teach students the principles and problems of interscholastic athletic coaching.

ACE 265. Diversity and Sport. 3 Hours.
Covers historical and current topics relevant to diversity in sport as it relates to current sport practices. Practical strategies for facilitating acceptance of diversity within individual/team sports are discussed.

**APPLIED AND ENVIRONMENTAL MICROBIOLOGY**

AEM 341. General Microbiology. 4 Hours.
PR: CHEM 115. Introductory morphological, cultural, and physiological characteristics of microorganisms; application of microbiology to agriculture, home economics, and health.

**AGRICULTURE, FORESTRY AND CONSUMER SCIENCE**

AFCS 490. Teaching Practicum. 1-3 Hours.
PR: Consent. Teaching practice as a tutor or assistant.
AFCS 491. Professional Field Experience. 1-18 Hours.
PR: Consent. (May be repeated up to a maximum of 18 hours.) Prearranged experiential learning program, to be planned, supervised, and evaluated for credit by faculty and field supervisors. Involves temporary placement with public or private enterprise for professional competence development.

AGRICULTURE AND EXTENSION EDUCATION

AGEE 101. Global Food and Agricultural Industry. 3 Hours.
Examination of the history and current developments, structures, functions, and importance of the international food and agricultural industry; issues, concerns and interrelationships and their impacts on American agriculture and society.

AGEE 103. Basics of Agricultural Mechanization. 2 Hours.
Study and application of the foundation area associated with agricultural mechanization.

AGEE 110. Microcomputer Applications in Agricultural Education. 3 Hours.
PR: Consent. Microcomputer applications in the instructional process of agricultural education; use of applications software, agricultural software, and data bases; and methods of integrating microcomputers into secondary school agriculture and extension programs.

AGEE 187. Welding and Heat Treatment. 1 Hour.
Principles and practices of metal arc welding using mild steel. Safety and electrode selection for various metals is covered. Designed for agriculture applied science students.

AGEE 203. Agriculture Mechanics Practica. 3 Hours.
Theory and practice of designing and constructing structures, electrical circuits, masonry, equipment maintenance, and surveying.

AGEE 220. Group Organization and Leadership. 3 Hours.
Study of the impact of leaders and organized groups on societies. Role of groups in conveying cultural norms. Principles and techniques involved in forming and directing organizations in providing effective leadership.

AGRICULTURE

AGRL 111. Professions in Agriculture. 1 Hour.
An overview of subject matter related to agriculture in current society. Emphasis on agricultural organizations, environmental and food issues, careers, and programs within the college.

AGRL 112. Professions in Agriculture. 1 Hour.
Continuation of AGRL 111.

AGRL 290. Teaching Practicum. 1-3 Hours.
PR: Consent. Teaching practice as a tutor or assistant.

AGRL 291. Professional Field Experience. 1-18 Hours.
PR: Consent. (May be repeated for a maximum of 18 credit hours.) Prearranged experiential learning program, to be planned, supervised, and evaluated for credit by faculty and field supervisors. Involves temporary placement with public or private enterprise for professional competence development.

AGRONOMY

AGRN 202. Principles of Soil Science. 3 Hours.
PR: CHEM 111 or equivalent and PR or CONC: AGRN 203. Introductory course. Soils as a natural resource emphasizing physical, chemical, and biological properties in relation to plant growth and production, land use and management, soil and water pollution, and environmental protection. (Regional campus concurrent.).

AGRN 203. Principles of Soil Science Laboratory. 1 Hour.
PR or CONC: AGRN 202 or consent. (Regional campus concurrent.).

ANIMAL NUTRITION

ANNU 260. Animal Nutrition. 3 Hours.
PR: Two courses in chemistry. Digestion and metabolism of food nutrients, nutrient requirements of farm animals, and nutritive values of feeds and rations.

ANIMAL PRODUCTION

ANPR 308. Animal Production Experience. 1-4 Hours.
Experience in operating a dairy or livestock farm, including layers or broilers, calving, lambing, or farrowing of hogs. (Can be repeated up to a maximum of 4 credits. 3 hr. lab./ per hr. of credit.).

ANPR 338. Horse/Livestock/Poultry Evaluation. 3 Hours.
Appraisal of horses, cattle, sheep, poultry, and swine. Evaluation of scientific techniques used in selecting those species. Tours of representative flocks, herds and stables will be required. (Two 3 hr. labs.).
PR: FDSC 334 or ANPR 336 or ANPR 338 or consent. Advanced selection, evaluation and grading of domestic livestock species and animal products. Tours of representative flocks, herds and processing plants will be required. (Can be repeated up to a maximum of 4 credits. 3 hr. lab./per hr. credit.).

AGRICULTURE AND RESOURCE ECONOMICS

ARE 110. Agribusiness Accounting. 3 Hours.
Introduction to accounting for agricultural, rural, and small business managers. Emphasis on the accounting cycle, analysis and interpretation of financial statements, income taxes, and managerial accounting. (Students having prior college credit in accounting are not eligible for this course.).

ARE 150. Introductory Agricultural and Agribusiness Economics. 3 Hours.
Introduction to basic agricultural economics and agribusiness concepts, and the application of these concepts to agricultural and agribusiness issues.

ARE 204. Agribusiness Management. 3 Hours.
Overview of the agribusiness decision-making process, and the functions of agribusiness management; analysis of financial statements and budgeting for evaluating profitability of alternative enterprises and practices.

ARE 220. Introductory Environmental and Resource Economics. 3 Hours.
Economic analysis of environmental pollution, natural resource conservation and management, outdoor recreation, public land use, wildlife resources, water use, property rights, and benefit-cost issues.

ART HISTORY

ARHS 101. Landmarks of World Art. 3 Hours.
Introduction to the study of art history from prehistory to the present in which major landmarks of world art and architecture are considered as aesthetic objects, cultural documents and within their socio-historical contexts.

ASTRONOMY

ASTR 106. Descriptive Astronomy. 3 Hours.
The celestial sphere, star time, solar time, Kepler's laws, H-R diagram and modern developments. No sophisticated mathematics used; only simple geometrical arguments employed.

ATHLETIC TRAINING

ATTR 121. Sport Injury Control and Management. 3 Hours.
Training, conditioning, protection, and other injury prevention measures. First aid, emergency service, and care related to physical education and athletics.

ATTR 122. Sports Injury Control and Management Lab. 1 Hour.
PR: Consent. Basic skills in athletic conditioning, application of taping and bracing, equipment fitting, record keeping, modality set-up, emergency procedures for athletic-related injuries and the proper management of open wounds. Pre-requisite(s) and/or co-requisite(s) may differ on regional campuses.

BIOLOGY

BIOL 101. General Biology. 3 Hours.
PR or CONC: BIOL 103. Introductory course in biology: cellular, organismal, and population genetics, including reproduction, growth and development, and evolution.

BIOL 102. General Biology. 3 Hours.
PR or CONC: BIOL 104. Introductory biology: energetics and physiology of cells, organisms, and populations, including regulation and control of multicellular organisms.

BIOL 103. General Biology Laboratory. 1 Hour.
PR or CONC: BIOL 101. Experiments in biology: genetics and evolution; reproduction, growth, and development of cells, organisms, and populations.

BIOL 104. General Biology Laboratory. 1 Hour.

BIOL 107. Biotechnology and Society. 3 Hours.
An overview of the use of biotechnology to solve agricultural, medical, and environmental problems. Bioethical concerns and societal impacts of the use of the technologies will be discussed.

BIOL 108. Drugs and the Body. 3 Hours.
An overview of how common prescription, street and over-the-counter drugs alter body functions. How the body absorbs and metabolizes various drugs, drug interactions, and the biology of addiction will also be presented.

BIOL 115. Principles of Biology. 4 Hours.
An introductory course presenting basic principles of modern biology. This course represents the first in a four-course, integrated sequence required of biology majors. Topics include ecology and evolution, organismal biology, and cellular/molecular biology.
BIOL 117. Introductory Physiology. 4 Hours.
PR: BIOL 115 or BIOL 101 and BIOL 102 AND BIOL 103 AND BIOL 104. Continuation of BIOL 115. The diversity of reproductive, developmental, functional, and integrative mechanisms in plants and animals.

BIOL 216. Biochemistry for Pre-Pharmacy. 3 Hours.
BIOL 216. Biochemistry for Pre-Pharmacy. PR: BIOL 115 and BIOL117 and BIOL 219 and 8 hours of general chemistry and CHEM 233 and CHEM 235 and PR or CONC: CHEM 234 and CHEM 236. Introduction to the chemistry of cellular constituents (amino acids, proteins, enzymes, coenzymes, carbohydrates, lipids, nucleotides, and nucleic acids) and their metabolism in humans. Topics also include enzyme kinetics and mechanisms, structure and functions of biomembranes, metabolic pathways, and mechanisms regulating metabolism and gene expression. This course is offered only to Pre-Pharmacy majors.

BIOL 219. The Living Cell. 4 Hours.
PR: (CHEM 115 or CHEM 117) and (BIOL 117 or BIOL 240). Continuation of BIOL 117. Structure, function and diversity of cells with an emphasis on gene expression and cellular phenotype including cell chemistry, energetics, and regulation of cell activities.

BIOL 221. Ecology and Evolution. 3 Hours.

BIOL 230. Human Anatomy and Physiology 1. 4 Hours.
PR: PSC sections require BIOL 102 and BIOL 104 or nursing or consent, WVUIT sections require BIOL 112. The study of human body structure and function. Lecture emphasizes the integumentary, skeletal, muscular, and nervous systems, and special senses. Laboratory includes a complete cat dissection.

BIOL 231. Human Anatomy and Physiology 2. 4 Hours.
PR: PSC sections require BIOL 230 and Nursing major or consent, WVUIT sections require BIOL 230. A continuation of BIOL 230. The following systems are thoroughly studied: endocrine, cardiovascular, lymphatic, respiratory, digestive, urinary, and reproductive. Laboratory work involves physiological investigations and dissections.

BUSINESS CORE

BCOR 199. Introduction to Business. 3 Hours.
This course introduces the student to the major business disciplines, basic business communications, and the University environment.

BUSINESS TECHNOLOGY

BTEC 101. Introduction to Management. 3 Hours.
An introduction to principles and basic considerations of management of all levels, including aspects of management performance in areas of decision-making, planning, organizing, control, and ethics.

BTEC 102. Introduction to Business. 3 Hours.
A course designed to introduce students to the internal organization of business by surveying finance, marketing, ethics, law, and information management. Business structures, changes, will be analyzed. Emphasis will also be placed on the effect of global competition and international marketing.

BTEC 103. Personnel Management. 3 Hours.
Theory and practice and principles involved in the direction, coordination, and payrolls of personnel.

BTEC 107. Business Communications. 3 Hours.

BTEC 109. Business Mathematics. 3 Hours.
A study of the fundamental processes, and of banking procedures, percentage, discount, interest, depreciation, investments, payrolls, and insurance.

BTEC 200. Customer Service Relations. 3 Hours.
Students are introduced to customer service relation topics and methods for handling customer service issues in various industries. The elements of a systematic process for building the necessary customer service skills are explored.

BTEC 205. Introduction to Online Marketing. 3 Hours.
An overview of social media strategies is presented to develop a social media market plan. Effective techniques to identify target markets on the social web and select the appropriate social media platforms to optimize marketing goals are investigated.

BTEC 211. Introduction to Event Logistics. 3 Hours.
An introduction to the foundations of event planning and the significance it serves to business applications. Aspects of event planning and coordination, including site development, control and troubleshooting strategies, marketing and promotional tactics, and food operations. Students coordinate an event that takes place on campus.

BTEC 218. Medical Billing and Coding. 3 Hours.
An introduction to medical coding and billing. The course will cover a variety of medical specialties and issues involved with procedural coding. Insurance carriers, billing requirements and specific forms will be introduced and completed.
BTEC 256. Managerial Accounting. 3 Hours.

BTEC 257. Income Tax Accounting. 3 Hours.
PR: ACCT 202 or consent. Preparation of income tax returns: gross income, capital gains, and losses, deductions, tax credits, and other tax regulations mainly pertaining to individuals.

BTEC 260. Computerized Accounting. 3 Hours.
PR: ACCT 201. This course covers pc-based accounting systems.

BTEC 320. Personal Finance. 3 Hours.
Provides the tools and knowledge for personal short- and long-term financial success; includes the topics of financial planning, money management, income and asset protection, investments, and retirement planning.

BTEC 340. Human Resource Management. 3 Hours.
A study of policies, practices, and systems that influence employees' behavior, attitudes, and performance.

BTEC 350. Advanced Computer Applications in Business. 4 Hours.
PR: CIS 114 and CIS 116 or consent. A study of advanced information concepts for managing business in a competitive environment. The internet, spreadsheet, and database applications will be utilized to research, analyze, and make decisions regarding operations.

BTEC 357. Essentials of Income Taxation. 3 Hours.
PR: ACCT 202 or consent. A study of federal income tax for individuals with a focus on exemptions, credits, deductions, gross income, capital gains and losses.

BTEC 360. Leadership and Human Behavior. 3 Hours.
A study of leadership in relation to employee motivation, decision-making, and team dynamics. Additional topics include ethics and responsibility, diversity, organizational control, and managing change in the workplace.

BTEC 365. Leaders Through History. 3 Hours.
Introduction of ideas and skills to prepare students for leadership positions in the community, whether this is in the workforce (small business, corporations), non-profit organizations, or any civic involvement in their community.

BTEC 370. Intermediate Accounting. 3 Hours.

BTEC 380. Business Ethics. 3 Hours.
A study of ethical, cultural, and societal issues facing business and managers with regard to a global business environment.

BTEC 485. Senior Seminar. 4 Hours.
PR: BTEC 350 and BTEC 370. A capstone course in which the students will integrate the concepts and principles of the B.A.S. management emphasis through the process of case analysis and other methods.

BUSINESS ADMINISTRATION

BUSA 310. Survey of Business Law. 3 Hours.
PR: Sophomore standing. Overview of business law discipline. Topics include laws and the court system, employment and labor law, business forms and capitalization, business competition law and business ethics.

BUSA 320. Survey of Management. 3 Hours.
PR: Sophomore standing. Overview of management discipline as a process involving planning, organizing, controlling and directing. An integrated view of management including organizational behavior is emphasized.

BUSA 330. Survey of Marketing. 3 Hours.
PR: Sophomore standing. Overview of the marketing discipline. Topics include the management of the product, communication, price and distribution variables as well as an introduction to buyer behavior and marketing research.

BUSA 340. Survey of Finance. 3 Hours.
PR: Sophomore standing. Overview of the finance discipline. Topics include financial statement analysis, risk, capital budgeting, investments, and security markets.

CHILD DEVELOPMENT AND FAMILY STUDIES

CDFS 110. Families Across the Life Span. 3 Hours.
Explores the physical, psychological, and cognitive developmental changes of individuals who are functioning in family systems that change across the life-span.

CDFS 112. Introduction to Marriage and Family. 3 Hours.
Explores various dimensions of self-development and personal preference relevant to dating, mate selection, marriage, having children, parenting, divorce, and remarriage.
CDFS 210. Introduction to Parenting. 3 Hours.
Introduction of terminology, descriptions, and explanations of the parental role and parent-child interactions. Emphasis on social and personal definitions of the parental role and on the problems and changes in parent-child relationships.

CDFS 211. Infant Development. 4 Hours.
PR: CDFS 110. Developmental characteristics and environmental effects on the child during the prenatal period and the first two years with implications for guidance and care. Includes practical experience working with infants and toddlers.

CDFS 212. Early Childhood Development. 3 Hours.
PR: CDFS 110. Physical, social, emotional, and cognitive development of children from conception to seven years with implications for guidance and care in practical settings.

CHEMISTRY

CHEM 111. Survey of Chemistry. 4 Hours.
PR: WVU sections require MATH 122 with a minimum grade of C- or ALEKS Score of ML 20 or Math ACT Score of 22 or Math SAT Score of 540 or Math SAT (March 2016) Score of 570 or PR or CONC: MATH 126A or MATH 126B or MATH 126C or MATH 129 or MATH 150 or MATH 153 or MATH 155, WVUIT and PSC sections require MATH 122 with a minimum grade of C- or ALEKS Score of ML 10 or Math ACT Score of 19 or Math SAT Score of 460 or Math SAT (March 2016) Score of 500 or PR or CONC: MATH 126A or MATH 126B or MATH 126C or MATH 129 or MATH 150 or MATH 153 or MATH 155. Designed primarily for students taking only one year of college chemistry. Atomic structure; chemical bonding; acids, bases, and salts; periodicity; properties of gases, liquids, and solids; stoichiometry; oxidation-reduction. (3 hr. lec., 3 hr. lab.) (Students may not receive credit for CHEM 115 or CHEM 117 and for CHEM 111.)

CHEM 112. Survey of Chemistry. 4 Hours.
PR: CHEM 111. Continuation of CHEM 111. Nuclear chemistry; air and water pollution; useful natural materials; consumer chemistry; introduction to organic and biochemistry. (3 hr. lec., 3 hr. lab.) (Students may not receive credit for CHEM 116 or CHEM 118 and for CHEM 112.) (CHEM 111 and CHEM 112 cannot be used as pre-requisite courses for organic chemistry:) students anticipating the possibility or likelihood of taking organic chemistry must have credit for (CHEM 115 and CHEM 116) and (CHEM 117 and CHEM 118).

CHEM 115. Fundamentals of Chemistry. 4 Hours.
PR: Satisfactory ACT/SAT or placement exam performance, or minimum grade of C- in CHEM 110B, or minimum grade of C- in (MATH 126A or MATH 126B or MATH 126C) and MATH 128, or minimum grade of C- in MATH 129 or higher. For students who need more than one year of college chemistry and quantitative relationships on which subsequent chemistry courses are built. (3 hr. lec. 3 hr. lab.) (Students may not receive credit for CHEM 117 and CHEM 115.) Pre-requisite(s) and/or co-requisite(s) may differ on regional campuses.

CHEM 116. Fundamentals of Chemistry. 4 Hours.
PR: CHEM 115. Continuation of CHEM 115. (3 hr. lec., 3 hr. lab.) (Students may not receive credit for CHEM 118 and for CHEM 112 or CHEM 116.) Pre-requisite(s) and/or co-requisite(s) may differ on regional campuses.

CHEM 233. Organic Chemistry. 3 Hours.
PR: CHEM 116 or CHEM 118 and PR or CONC: CHEM 235. Basic principles of organic chemistry. Modern structural concepts, the effect of structure on physical and chemical properties, reactions and their mechanisms and application to syntheses. (3 hr. lec.) (Students may not receive credit for CHEM 233, CHEM 234, and for CHEM 231.)

CHEM 234. Organic Chemistry. 3 Hours.
PR: CHEM 233 and CHEM 235 and PR or CONC: CHEM 236. Continuation of CHEM 233. (3 hr. lec.).

CHEM 235. Organic Chemistry Laboratory. 1 Hour.
PR or CONC: CHEM 233. Fundamental organic reactions and the preparation of organic compounds. (3 hr. lab.).

CHEM 236. Organic Chemistry Laboratory. 1 Hour.
PR: CHEM 233 and CHEM 235 and PR or CONC: CHEM 234. Continuation of CHEM 235. (3 hr. lab.).

COMMUNITY HEALTH PROMOTION

CHPR 172. First Aid and Emergency Care. 2 Hours.
Emergency aid for the sick and injured. Emergency services aimed at reducing the potential of permanent disability or threats to life, as well as pain, damage, or suffering of a less serious nature.

COMPUTER INFORMATION SYSTEMS

CIS 100. Introduction to Computer Information Systems. 3 Hours.
Introductory survey of the needs for and roles of computer information systems in business organizations. Emphasis is hardware functions, systems development, DOS, Windows, and computer operations.

CIS 106. PC Hardware Concepts. 3 Hours.
This course provides hand-on experience and skill development necessary to install, service, and support microcomputers. This course also covers A+ core competencies.
CIS 107. Operating Systems Concepts. 3 Hours.
PR: CIS 100. Introduction to the operating system of a modern general purpose digital computer. The student studies the organization of an operating system and its control language.

CIS 109. Networking Essentials. 3 Hours.
Provides introduction to computer network components, network architecture and data communication fundamentals. Covers essential competencies contained in Network + certification.

CIS 112. Intro to Networking and Security. 3 Hours.
The course is an introduction to concepts terms and basic skills required in the network and security courses offered in the CIS degree. The course emphasizes fundamentals of networking such as trouble shooting and best practices in personal and small business and security implementation.

CIS 113. Microsoft Application 1: WORD. 3 Hours.
PR: CIS 100. This course provides a survey of computer applications in business with emphasis on word processing.

CIS 114. Microsoft Application 2: EXCEL. 3 Hours.
PR: CIS 100 or CIS 106. The student continues the study of microcomputer applications acquiring further skills in the use of spread sheets such as Excel.

CIS 115. Microsoft Application 3: POWER POINT. 3 Hours.
PR: CIS 100 or CIS 106. The student continues the study of microcomputer applications acquiring further skills in presentation software such as PowerPoint.

CIS 116. Microsoft Application 4: Access. 3 Hours.
PR: CIS 100 or CIS 106. The student continues the study of microcomputer applications acquiring further skills in the use of database software such as Access.

CIS 118. Web Page Design. 3 Hours.
Provides hands-on experience and skills development necessary to perform basic and advanced functions in designing and developing web pages and an introduction to a variety of web software tools.

CIS 152. Principles of Management Information Systems. 3 Hours.
This course is a gateway course to the CIS major. It prepares students for further studies in CIS by introducing them to the complexity and breadth of the skills and knowledge required to effectively support stable and secure business environments.

CIS 207. Operating Systems Concepts 2. 3 Hours.
PR: CIS 107. Operating system structures, process and thread handling, memory access, and storage structure will be covered including how files are organized and accessed by an operating system.

CIS 235. Programming Logic. 3 Hours.
This course is a first course in computer programming. The student will learn non-language specific program design, analysis, and structured program flow charting.

CIS 236. Introduction to Cyber Security. 3 Hours.
This course gives students an introduction to computer and network security procedures. A hands-on approach is used to cover securing network services, devices, traffic, and responding to network breaches.

CIS 237. Linux Operating Systems. 3 Hours.
This course introduces the student to Linux operating system. Topics include installation, configuration, and management of Linux in a network setting. Material covered will allow students to take the CompTIA Linux+ certification exam.

CIS 238. Graphic Digital Design. 3 Hours.
This course covers the Adobe Suite applications of Photoshop, Illustrator and In-Design. The student acquires a working knowledge of the applications thorough a project-based approach and creates a portfolio project.

CIS 241. Networking Fundamentals. 4 Hours.
Topics include OSI model, network topologies, IP addressing, networking components, and basic network designs. (Lab fee required.) (Course is part of Cisco Academy.)

CIS 245. Applied Programming. 3 Hours.
PR: CIS 235 This course will provide students a comprehensive understanding and application of programming methods through practical projects.

CIS 248. System Analysis and Design. 3 Hours.
Students learn how to translate business requirements into information systems that support a company’s short and long-term objectives. CIS students apply analytical and problem-solving skills to business needs and are introduced to traditional structured analysis, object-oriented concepts, and agile methods.

CIS 250. Directed Computer Experience 1. 3 Hours.
PR: CIS 100 and CIS 103. Students are placed into practical working situations where they are involved in problem resolution, programming, system design or other areas as deemed appropriate.
CIS 252. Database Design 1. 3 Hours.
The course provides instruction beyond a general understanding of database structure and data types for the CIS student. The student will create database objects based on requirements and business rules. It emphasizes the connection of business processes and database for business reporting and analytics.

CIS 381. Project Management. 3 Hours.
The course is designed to provide the CIS student with knowledge and skills to manage an Information Technology project. The student will not only use tools for assessing the progress of a project, he or she will apply key elements of project management such as: Gantt charts, rough order of magnitude (ROM), Program Evaluation and Review Technique (PERT) as well.

CIS 327. Cloud Computing. 3 Hours.
PR: CIS 152 or consent. CIS students will analyze software as a service (SaaS), platform as a service (PaaS), and infrastructure as a service (IaaS) within the concepts of cost, security, and business needs. Virtualization, cloud security, and managing cloud services are covered as an integral part of the final determination as to whether the service is a benefit to a business enterprise.

CIS 338. Computer and Network Forensics. 3 Hours.
PR: CIS 236 with a minimum grade of C-. The course provides the CIS student with skills the tools, techniques, and methods to perform computer forensics and investigation. An overview of performing forensics in the Windows, Linux, and Macintosh operating systems is covered. The student will be exposed to emerging technologies and future directions in the field of legally defensible documentation and chain of custody.

CIS 367. Applied Programming 2. 3 Hours.
PR: CIS 245 with a minimum grade of C-. The course applies object oriented design (OOD) to the study of data structures and algorithms such as lists, stacks, queues, tress, recursion and sorting in an object oriented programming language. The CIS student will apply programming logic and advanced object oriented programming techniques to create a programmatic business solution.

CIS 417. Database Design 2. 3 Hours.
PR: CIS 252 with a minimum grade of C-. This course provides the CIS student the skills required to continue study in the CIS major as it applies to data mining and business intelligence and advanced programming. The course identifies and describes the key concepts, tips, techniques, and best practices needed to take full advantage of stored procedures using SQL Server’s native Transact-SQL and .NET compatible programming languages.

CIS 436. Cyber Ethics. 3 Hours.
PR: CIS 236 or BTEC 380 with a grade of C- or better. The course introduces key ideas in moral theory and professionalism to explore the current topics in computer ethics. CIS students apply critical thinking skills in the convergence of technical solutions with moral and social implications affecting business needs and personal information in communications and social networks.

CIS 442. Data Mining and Business Intelligence. 3 Hours.
PR: CIS 252 with a minimum grade of C- and (STAT 111 or STAT 211) with a minimum grade of C-. This course presents methods of data mining and analytics to uncover hidden patterns and correlations. The CIS student will apply these methods to improve business decision-making. Data mining processes, methods, and techniques; the role and management of data; and integration with Big Data approaches will be covered.

CIS 488. BAS CIS Capstone. 3 Hours.
PR: CIS 489 with a minimum grade of C- and nine (9) hours in upper level electives in the CIS major. The BAS CIS student will demonstrate the ability to integrate skills and knowledge acquired in Computer Information System courses. The individual project and its presentation demonstrate critical thinking and reasoning in the computer information system technologies.

CIS 489. System Analysis & Design 2. 3 Hours.
PR: CIS 248 and CIS 252 with a minimum grade of C- in each. The CIS student will apply software, system and database knowledge from previous course work to create and update detailed technical documentation required in an information technology project. These may include Concept of Operations, Requirement, Database Design Documentation as well as System or Programming design documentation based on the IEEE standard used in both the private and public sector.

CRIMINAL JUSTICE

CJ 101. Introduction to Criminal Justice. 3 Hours.
This course examines the history, structure, functions and issues related to criminal law, law enforcement, criminal adjudication, and corrections. The course also examines criminological theories and research, and the juvenile justice system. (Equivalent to SOCA 234).

CJ 111. Police Operations. 3 Hours.
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.

CJ 201. Traffic Law Enforcement. 3 Hours.
PR: CJ 101. The role of the police officer in traffic control and enforcement is examined in detail. Among the topics studied will be West Virginia traffic law, accident investigation and reconstruction, traffic education, and the interrelations of local, state, and federal agencies responsible for traffic functions.
CJ 202. Principles of Criminal Law. 3 Hours.
This course focuses on the history, scope, purpose, and definition of the criminal law. Topics include crimes against person, crimes against property, other offenses, interpretation of statutes, legal definitions of specific criminal offenses, rights of the accused, pre-trial procedures, the criminal trial, sentencing, and the appeal process.

CJ 204. Police Defense Tactics. 3 Hours.
The student will be exposed to the methods of physical protection, including the techniques of baton use, disarmament, and defense techniques.

CJ 206. Introduction to Corrections. 3 Hours.
A survey of the current correctional process in America which includes the origin and legal procedures of the present system and the effects of the system 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. Emphasis is also given to the administration of the adult and juvenile institutions and the alternatives and future of the present system.

CJ 225. Criminal Procedure and Constitutional Law. 3 Hours.
PR: CJ 101. Constitutional and procedural issues relating to search and seizure, arrest, confinement; the admissibility and exclusion of evidence; types and degrees of evidence; discussion of court decisions interpreting the guarantees found in the Bill of Rights.

CJ 230. Probation and Parole Operations. 3 Hours.

CJ 233. Juvenile Justice. 3 Hours.
PR: CJ 101 or SOCA 234. The history, philosophy, and processes of the juvenile justice system are studied. The juvenile court’s jurisdiction over juvenile delinquency, status offenses, and abuse and neglect is examined. Topics include juvenile rights, types of juvenile correctional institutions and community based correctional alternatives for juveniles.

CJ 236. Criminal Investigation. 3 Hours.
PR: CJ 101. 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 and case preparation, and courtroom testimony.

CJ 240. Correctional Counseling. 3 Hours.
A survey of contemporary counseling interventions for juvenile and adult offenders with an emphasis on cognitive and behavior modifications strategies. Other counseling models will also be examined.

CJ 255. Analysis of Correctional Operations. 3 Hours.
PR: CJ 206. Problems of management of the correctional process; programming, security, information systems, reports, case management, evaluation process; custody and discipline as they relate to rehabilitative efforts, community adjustment facilities; problems of probation and parole.

CJ 280. Victimology. 3 Hours.
A focused examination of the victims of crime. Concentration on the psychological and emotional harm experienced by victims and victim services and programs. Analysis of domestic violence, victim compensation, rights, and treatment throughout the criminal justice process.

CJ 285. Criminal Justice Technical Writing. 3 Hours.
PR: ENGL 101 and CJ 101. This course will focus on grammar and writing skills and transition into technical writing. Students will engage in such tasks as drafting resumes, learning APA style, writing criminal justice reports, and engaging in legal research/analysis/writing.

CJ 295. Field Practicum. 3 Hours.
PR: Sophomore status and a 2.0 GPA or higher. A supervised professional study conducted in a criminal justice field.

CJ 301. White Collar and Economic Crime. 3 Hours.
Overview of white collar and economic crime in America including an examination of the extent of economic crime, law enforcement effectiveness, theories of causation, and methods of prevention. Also discussing the effect of the Internet on white collar and economic crime.

CJ 302. Terrorism. 3 Hours.
An examination of terrorism both domestic and foreign including its causes and trends. Also examining selected current cases, explanatory theories, methods of prevention or containment, and the effectiveness of law enforcement efforts.

CJ 315. Criminal Evidence. 3 Hours.
PR: CJ 225 or consent. Study of the rules of evidence and admissibility. Students will develop the ability to apply those rules in the collection and presentation of evidence in a court of law. Forensic requirements, statutory law, and other related issues will be emphasized.

CJ 316. Community Based Corrections. 3 Hours.
The history, philosophy, types and current trends in community based corrections is studied. Specifically, probation, parole, diversion programs, and intermediate sanctions including house arrest, community service, restitution, halfway houses, and temporary release are examined.

CJ 324. Drugs, Crime and Society. 3 Hours.
PR: SOCA 101 and (CJ 101 or SOCA 234). Examines the fundamentals of mood-altering chemicals and their effects on the individual, the criminal justice system, and society. Addresses the current US policy regarding substance abuse, investigation, prevention, treatment, criminality, and education.
CJ 325. The Role of Women in Criminal Justice. 3 Hours.
Examination of how the roles of women in criminal justice have changed over time. Focus will be placed on women as practitioners, victims, and offenders.

CJ 410. Criminal Investigations. 3 Hours.
This course focuses on that aspect of the American legal and judicial system associated with the investigative processes as conducted by law enforcement and forensic science. Included will be an examination of the role of crime scene investigation, witness interviewing, and the investigators relationship with the prosecution.

CJ 415. Forensic Techniques. 3 Hours.
This class will explore the scientific disciplines utilized to detect trace evidence at a crime scene. Explain (and demonstrate) the methods used for collection of various types of evidence. The student will learn the importance of the chain of custody from crime scene to the court room.

CJ 455. Ethics/Criminal Justice System. 3 Hours.
PR: CJ 101 and CJ 410 or consent. Focus on the ethical issues faced by individuals as citizens and criminal justice professionals. The course will assist students in clarifying their values and in establishing a framework for ethical decision making. Students will examine ethical issues, which relates to a wide variety of concerns, and a variety of professional ethical codes.

CJ 461. Current Issues/Criminal Justice. 3 Hours.
PR: CJ 101 and CJ 410 or consent. Focus on the current issues facing criminal justice including those related to prevention of crime, law enforcement, corrections, institutional reform, and public opinion. Examination of recent research, emerging trends and policy.

CJ 485. Senior Seminar-Capstone. 3 Hours.
PR: Senior standing and criminal justice major. A senior capstone course. Course allows student to consider the integration of theoretical and methodological issues. Focus will also be given to career or graduate placement.

CLASSICS
CLAS 232. Greek and Roman Myths. 3 Hours.

COMMUNICATION STUDIES
COMM 104. Public Communication. 3 Hours.
Introduction to principles of communication in the one-to-many context. Emphasis is given to the creation and refutation of arguments.

COMM 306. Organizational Communication. 3 Hours.
Instruction on the role that culture plays in organizations with adaption of one’s communication to be successful; understand appropriate and effective communication in the superior-subordinate relationship; evaluate organizational problems with strong communication strategies and the impact of organizational structure on communication.

COMM 308. Nonverbal Communication. 3 Hours.
An examination of the effects of human nonverbal behavior on human communication. Emphasis on specific nonverbal behaviors including touch, time, environmental contexts, physical appearance cues, and social communication cues. This course is not open to freshmen.

COMMUNICATION SCIENCES AND DISORDERS
CSAD 270. Effective Public Speaking. 3 Hours.
Designed for improvement of the student's speech based upon theory and demonstrated performance of voice and diction skills and public-speaking skills for effective communication in a variety of speaking situations.

COUNSELING
COUN 230. Life Choices. 3 Hours.
Students will examine lifestyle choices typically dictated by unconscious customs rather than research. Covers areas of attitude, relationships, physical lifestyle, health and spirituality. The class consists of lectures and required student participation.

COMPUTER ENGINEERING
CPE 271. Introduction to Digital Logic Design. 3 Hours.
PR: MATH 156 or consent. Introduction to the design of digital systems. Topics include number systems, coding, Boolean and switching algebra, minimization of logic, analysis and design of combinational and sequential logic circuits.

COMPUTER SCIENCE
CS 101. Intro to Computer Applications. 4 Hours.
Introduction to spreadsheets and databases for problem-solving in disciplines such as math, science, engineering, business, social sciences, behavioral sciences, and environment: using computer applications to create technical reports and presentations.
ECONOMICS

ECON 201. Principles of Microeconomics. 3 Hours.
PR: Sophomore standing. Introductory microeconomics analysis. Competitive behavior of firms, price determination, efficiency in production and equity in distribution. Pre-requisite(s) and/or co-requisite(s) may differ on regional campuses.

ECON 202. Principles of Macroeconomics. 3 Hours.
PR: ECON 201 or ARE 150. Introductory macroeconomics analysis, prerequisites are not enforced at WVUIT and Potomac State campuses. Aggregate demand and supply, saving, investment, the level of employment and national income determination, monetary and fiscal policy.

EDUCATIONAL PSYCHOLOGY

EDP 101. Learning Strategies for Academic Success. 3 Hours.
The purpose of the course is to help students develop active learning strategies that are research-based and appropriate for the college curriculum that will enable them to achieve academic success.

EDUCATION

EDUC 100. Education Colloquium. 1 Hour.
Components of and requirements for the teacher preparation program, including specializations, professional organizations, requirements for admission to the major, avenues to program completion, and requirements for work with children or youth.

EDUC 200. Professional Inquiry in Education. 3 Hours.
PR: EDUC 100 and ENGL 101 and ENGL 102. An examination of students' preconceptions about education and their socialization process relative to the following: aims and purposes of public education, students as learners, curriculum, instruction.

ELECTRICAL ENGINEERING

EE 221. Introduction to Electrical Engineering. 3 Hours.
PR: WVU and PSC sections require PHYS 111 and MATH 156, WVUIT sections require MATH 156. Electrical engineering units, circuit elements, circuit laws, measurement principles, mesh and node equations, network theorems, operational amplifier circuits, energy storage elements, sinusoids and phasors, sinusoidal steady state analysis, average and RMS values, complex power. Pre-requisite(s) and/or co-requisite(s) may differ on regional campuses.

EE 222. Introduction to Electrical Engineering Laboratory. 1 Hour.
CoReq: EE 221. Design and experimental exercises basic electrical circuits. Use of the digital computer to solve circuit problems. (3 hr. lab.).

EE 223. Electrical Circuits. 3 Hours.
PR: WVU and PSC sections require EE 221 and EE 222 and PHYS 112 and MATH 251 all with a grade of C- or better, WVUIT sections require EE 221 and EE 222 and MATH 251 all with a grade of C- or better. Time response of RC and RL circuits, unit step response, second order circuits, poly-phase systems, mutual inductance, complex frequency, network frequency response, two-port networks and transformers. Fourier methods and Laplace Transforms.

EE 224. Electrical Circuits Laboratory. 1 Hour.
CoReq: EE 223. Design and experimental exercises in circuits. Transient circuits, steady state AC circuits, frequency response of networks. Use of digital computer to solve circuit problems. (3 hr. lab.).

ENGLISH

ENGL 101. Introduction to Composition and Rhetoric. 3 Hours.
Studies the logical, rhetorical, and linguistic structures of expository prose; develops strategies for analyzing purposes, audiences, and conventions; emphasizes processes for drafting, revising, and editing. Required of all bachelor's degree candidates unless equivalent transfer credit or portfolio credit applies. Qualified students may complete ENGL 103 in place of ENGL 101 and 102. Co-requisites will differ at WVUIT and PSC.

ENGL 102. Composition, Rhetoric, and Research. 3 Hours.
PR: ENGL 101 or equiv. Builds on the writing abilities earned in English 101 (or the equivalent). Focuses on the research process, argumentation, and critical inquiry; emphasizes structures, language, documentation, and formats appropriate for specific audiences and purposes. Required of all bachelor's degree candidates unless equivalent transfer credit or portfolio credit applies.

ENGL 111. Introduction to Creative Writing. 3 Hours.
Instruction in reading and writing fiction, nonfiction and poetry in order to enhance creative writing skills.

ENGL 156. Literature of Native America. 3 Hours.
A historical survey of Native American prose, poetry, song, and story from the beginning to the present.

ENGL 171. Literature of Science and Nature. 3 Hours.
Analyzes the representation of science and nature in literature and film across historical periods and genres.

ENGL 185. Technical Writing and Reporting. 3 Hours.
This course is designed to develop skill in presenting and reporting scientific and technical information in a simple, clear, and factual manner. Designed for students in career programs.
ENGL 213. Creative Writing: Poetry. 3 Hours.
An open enrollment introduction to the writing of poetry; practice in the basics of image, metaphor, line, form, sound and voice.

ENGL 214. Creative Writing: Non-Fiction. 3 Hours.
Introductory course in the writing of non-fiction.

ENGL 226. Non-Western World Literature. 3 Hours.
Selected readings in non-Western world literature, ancient and modern.

ENGL 230. Film Studies. 3 Hours.
Topics in the study of film, or film and literature, in a historical, theoretical and/or cultural context.

ENGL 233. The Short Story. 3 Hours.
The short story's structure, history, and contemporary forms.

ENGL 236. The Bible as Literature. 3 Hours.
Analysis of the themes, topics and literary genres of the Old and New Testaments. Issues to be discussed include the unity of the text, the status of authorship, translation, and the depiction of God.

ENGL 241. American Literature 1. 3 Hours.
A historical introduction and survey from its beginnings to the mid-nineteenth century.

ENGL 242. American Literature 2. 3 Hours.
A historical introduction and survey from the mid-nineteenth century to the present.

ENGL 252. Appalachian Fiction. 3 Hours.
Reading of short stories, novels, and other narratives by Appalachian authors.

ENGL 254. African American Literature. 3 Hours.
Studies in the literature of African American authors, 1845 to the present.

ENGL 255. Multiethnic Literature. 3 Hours.
This course examines literature by Americans of diverse ethnicities including, but not limited to, Asian Americans, Latinos, Native Americans, African Americans, and European Americans of various class/religious/regional backgrounds.

ENGL 257. Science Fiction and Fantasy. 3 Hours.
A study of the history and nature of science fiction from H. G. Wells to the present, with special attention to features of prose narration.

ENGL 258. Popular American Culture. 3 Hours.
A survey of modern popular American culture from 1940 to the present, with special emphasis on popular literature, music, television, movies, radio in its golden age, and comic books.

ENGL 261. British Literature 1. 3 Hours.
A historical introduction and survey from the Middle Ages through the eighteenth century.

ENGL 262. British Literature 2. 3 Hours.
A historical introduction and survey from the late eighteenth century to the present.

ENGL 263. Shakespeare 1. 3 Hours.
Several of Shakespeare's most important plays.

ENGL 272. Modern Literature. 3 Hours.
British and American poetry, drama, and fiction from 1900 to 1960.

ENGL 285. Images of Women in Literature. 3 Hours.
Representative literary works studied against a backdrop of social and historical documents to examine the effect of images of women in literature on the self-image of women today.

ENGL 293. Special Topics. 1-6 Hours.
PR: Consent. Investigation of topics not covered in regularly scheduled courses.

ENGL 304. Business and Professional Writing. 3 Hours.
PR: (ENGL 101 and ENGL 102) or ENGL 103. Students will analyze different writing contexts, meet the needs of different audiences, and organize and present material in letters, memos, and reports. Includes some research, Internet components, and a review of style, grammar and usage.

ENGL 318. Topics in Creative Writing. 3 Hours.
PR: ENGL 212 or ENGL 213 or ENGL 214 with a minimum grade of B-.(May be repeated for a maximum of 9 hours.) Advanced work in creative writing; course content changes with genre: fiction, poetry, non-fiction.

ENGL 343. American Poetry. 3 Hours.
Major American poets of the nineteenth and twentieth centuries.

ENGL 383. Introduction to Cultural Studies. 3 Hours.
Students will explore the ways in which we are all simultaneously users of and used by culture, and the ways in which cultural practices influence how we think, feel, and act in everyday life.
ENGL 493. Special Topics. 1-6 Hours.
PR: Consent. Investigation of topics not covered in regularly scheduled courses.

ENGINEERING

ENGR 101. Engineering Problem Solving 1. 2 Hours.
PR or CONC: MATH 154 or MATH 155. Engineering problem solving methodologies and analysis. Use of computers in problem solving, technical report writing, team based project work and presentations.

ENGR 102. Engineering Problem-Solving 2. 3 Hours.
PR: ENGR 101 and (MATH 154 or MATH 155) with a C- in each. Continued development of engineering problem-solving, teamwork, and communication skills with emphases on using the computer as a tool and algorithm development with a high-level language such as MATLAB.

ENGR 199. Orientation to Engineering. 1 Hour.
Orientation to degree programs and requirements, departmental resources, curriculum options, students’ responsibilities, and opportunities. Development of academic success strategies and University experiences to equip students to make life decisions.

ENVIRONMENTAL PROTECTION

ENVP 155. Elements of Environmental Protection. 3 Hours.
An introduction to land and water resources and their management and protection. An evaluation of the relationships between human activities and natural environments and the interaction between natural resource utilization and development.

EQUINE STUDIES

EQST 101. Introduction to Equine Science. 3 Hours.
Provides a basic understanding of equine science and management. Topics include the history and future of the equine industry, breeds, selection, health and nutrition, along with basic management practices.

EQST 105. Equine Safety and Behavior. 3 Hours.
 Discusses and demonstrates safety measures required when working with and around horses. Students will learn the importance of understanding equine behavior for safety, management, and training purposes.

EQST 115. Riding Basics. 1 Hour.
Provides riding instruction aimed at improving the rider’s body position, balance, control, seat, strength, confidence and concentration. Riders will learn the skills and techniques needed to handle and control a horse effectively from the saddle.

EQST 120. Introduction to Horsemanship and Training. 4 Hours.
PR: EQST 105. Focuses on the understanding and application of natural horsemanship and a variety of horsemanship and training techniques, including gaining control and respect, handling, ground work, and starting colts. (3 hr. lec, 3 hr lab.).

EQST 230. Advanced Horsemanship and Training. 4 Hours.
PR: EQST 105 and EQST 120. Improves overall communication between the horse and rider. Students will learn techniques used in training horses to be willing and responsive to the rider’s subtle cues. (3 hr. lec., 3 hr. lab.).

EQST 240. Equine Facilities and Stable Management. 4 Hours.
Teaches practical skills and considerations that will be needed to own or operate an equine facility, including functional requirements, design and layout, safety and operation of farm equipment, and waste management. (3 hr. lec., 3 hr.).

EQST 290. Teaching Practicum. 1-3 Hours.
PR: Consent. Teaching practice as a tutor or assistant.

EQST 291. Professional Field Experience. 1-18 Hours.
PR: Consent. (May be repeated for a maximum of 18 credit hours.) Prearranged experiential learning program, to be planned, supervised, and evaluated for credit by faculty and field supervisors. Involves temporary placement with public or private enterprise for professional competence development.

FOREST MANAGEMENT

FMAN 212. Forest Ecology. 3 Hours.
PR: FOR 205. Forest and environment factors; site and type characteristics.

FMAN 222. Forest Mensuration. 4 Hours.
PR: MATH 155 and STAT 211. Estimating volume and growth of trees and forest stands with emphasis on the mathematical and statistical techniques involved. Laboratories include practical field experience.

FMAN 311. Silvicultural Systems. 4 Hours.
PR: FOR 205 and ((FMAN 212 and FMAN 222)or WMAN 313). The theory and practice of controlling forest stand establishment, composition, structure, and growth. Systems include: reproduction methods, release operations, and intermediate treatments. Pre-requisite(s) and/or co-requisite(s) may differ on regional campuses.
FORESTRY

FOR 101. Careers in Natural Resources Management 1. 1 Hour.
(Required only for students who rank as freshman in the Division of Forestry.) An introduction to professional activities in forest resources management, recreation and parks management, wildlife and fisheries management, and wood science and utilization. Survey of major issues in natural resources management and conservation.

FOR 140. West Virginia's Natural Resources. 3 Hours.
Survey of policies and practices in development and use of soil, water, forest, wildlife, mineral, and human resources in West Virginia.

FOR 203. Careers in Natural Resources Management 2. 1 Hour.
Planning a career in forestry and natural resources professions. Developing a career strategy, resume building, and conducting a successful job search.

FOR 205. Dendrology. 3 Hours.
Classification and silvical characteristics of North American forest trees.

GEOGRAPHY

GEOG 102. World Regions. 3 Hours.
Comparison and relationships of world regions. Geographical perspectives of contemporary global problems. Developing regions contrasted with modernized regions and the consequences of their interactions.

GEOG 106. Physical Geography Laboratory. 1 Hour.
PR or CONC: GEOG 107. Introduction to global environmental systems operating on the earth's surface, emphasizing weather and climate, soils, natural vegetation, and geomorphology, and examination of human interaction with these natural processes.

GEOG 107. Physical Geography. 3 Hours.
Introduction to global environmental systems operating on the earth's surface, emphasizing weather and climate, soils, natural vegetation, and geomorphology, and examination of human interaction with these natural processes.

GEOG 108. Human Geography. 3 Hours.
Introduction to geographical dimension in human behavior and the human altered landscape including social, demographic, economic, and political attributes of societies.

GEOG 205. Natural Resources. 3 Hours.
Introduces the concept of natural resources and surveys such topics as land, soil, rangeland, forests, water, atmosphere, minerals, and energy. Emphasis is on the United States within the context of the global environment.

GEOG 240. United States and Canada. 3 Hours.
Regional study of the United States and Canada emphasizing such geographic features as climate, natural vegetation, topography, natural resources, population distribution and trends, agriculture, manufacturing, transportation systems, and regional culture.

GEOLOGY

GEOL 101. Planet Earth. 3 Hours.
Composition and structure of the Earth and the physical processes that change Earth's surface. GEOL 102 not required with GEOL 101. (Accompanied by registration in GEOL 102, class meets requirements for 4 hr. credit in a laboratory science in geology.) (Students cannot receive credit for GEOL 101 and GEOL 110 or GEOG 110.).

GEOL 102. Planet Earth Laboratory. 1 Hour.
PR or CONC: GEOL 101. Laboratory study of the Earth using rocks, minerals and maps. (2 hr. lab.) (Students cannot receive credit for GEOL 102 and GEOL 111 or GEOG 111.).

GEOL 103. Earth Through Time. 3 Hours.
PR: GEOL 101 or GEOL 110 or GEOG 110. Evolution of the Earth and its inhabitants. (Accompanied by registration in GEOL 104, class meets requirements for 4 hr. credit in a laboratory science in geology.).

GEOL 104. Earth Through Time Laboratory. 1 Hour.
PR or CONC: GEOL 103. Laboratory study of sedimentary rocks, fossils, and geologic maps and their use in interpreting Earth history. (2 hr. lab.).

GEOL 105. A Study of Dinosaurs. 3 Hours.
A beginning course in the study of dinosaurs. Classification, biology and behavior will be studied.

GEOL 110. Environmental Geoscience. 3 Hours.
Physical aspects of the Earth with emphasis on natural resources, environmental degradation and hazards. (Accompanied by GEOL 111 meets requirements for a 4 hr. credit in laboratory science.) (Also listed as GEOG 110.) (Students may not receive credit for GEOL 110 and GEOG 110 or GEOL 101.).

GEOL 111. Environmental Geoscience Laboratory. 1 Hour.
PR or CONC: GEOL 110. (Also listed as GEOG 111.) (Students may not receive credit for GEOG 111 and GEOL 102 or GEOG 111.).
HEALTH INFORMATICS AND INFORMATION MANAGEMENT

HIIM 110. Introduction to U.S. Healthcare Delivery System. 3 Hours.
Overview of Federal, State, and local agencies and their role in the healthcare system. Emphasis on cost, access, quality and types of organizations and services provided.

HIIM 112. Fundamentals of Health Information Management. 3 Hours.
Introduction to the health information management profession and the health record. An overview of the health record, data format, structure, and documentation requirements including accreditation, licensure, regulatory standards and ethical standards of practice.

HIIM 237. Introduction to Professional Practice. 1 Hour.
Exploration of Health Informatics and Health Information Management careers, certifications and requirements, resources, curriculum options, student responsibilities, and opportunities for volunteer service. Observation of practitioners in a variety of facility settings.

HISTORY

HIST 101. Western Civilization: Antiquity to 1600. 3 Hours.
(HIST 101 does not have to precede HIST 102.) A survey of the major developments in Western civilization beginning with the ancient Mediterranean world and concluding with Reformation Europe.

HIST 102. Western Civilization: 1600 to Present. 3 Hours.
(HIST 102 may precede HIST 101.) A survey of major developments in Western civilization from 1600 to the present with attention to Europe's emerging industrial society and changing role in world affairs.

HIST 152. Growth of the American Nation to 1865. 3 Hours.
(HIST 152 does not have to precede HIST 153.) Examines the basic political, economic, and social forces in formation and development of the United States before 1865. Emphasis on national development from independence through the Civil War.

HIST 153. Making of Modern America: 1865 to the Present. 3 Hours.
(HIST 153 may precede HIST 152.) Continues the examination of basic political, economic, and social forces in the development of the United States since the Civil War.

HIST 179. World History to 1500. 3 Hours.
Comparative history of Africa, Asia, and Europe from earliest times until 1500. Political, economic, social, and religious developments with emphasis on patterns of authority, the individual, nature, and society.

HIST 180. World History Since 1500. 0-3 Hours.
Comparative history of Africa, Asia, and Europe 1500 to the present. Political, economic, and social developments with emphasis on patterns of authority, the individual, nature, society, and the impact of the West.

HIST 200. Practicing History. 3 Hours.
Students will acquire the skills to be an effective historian, including critically reading and analyzing primary and secondary sources, learning the basics of historiography, and creating an independent research topic. Students will write an original research paper and present their findings to the class.

HIST 209. Twentieth Century Europe. 3 Hours.
Traces the major political, economic, and social developments of Europe from World War I to the present.

HIST 250. West Virginia. 3 Hours.
Historical foundations and development of West Virginia, with particular emphasis upon the growth of the government, the economy, and the traditions of the state.

HIST 453. Civil War and Reconstruction. 3 Hours.
Causes as well as constitutional and diplomatic aspects of the Civil War; the role of American black in slavery, in war, and in freedom; and the economic and political aspects of Congressional Reconstruction.

HUMAN NUTRITION AND FOODS

HN&F 171. Introduction to Human Nutrition. 3 Hours.
Nutrient structure, metabolism, integrated function and their importance to human well-being during all stages of the life cycle. Current concerns and those of special interest to college students in meeting nutrient needs.

HONORS

HONR 199. Orientation to Honors. 1 Hour.
Orientation to degree programs and requirements, departmental resources, curriculum options, student responsibilities and opportunities.

HORTICULTURE

HORT 220. General Horticulture. 3 Hours.
PR: BIOL 101 and BIOL 103 or consent. Principles underlying present-day horticulture practice with special emphasis on how basic discoveries in plant science have been applied in horticulture.
HORT 260. Woody Plant Materials. 3 Hours.
PR: BIOL 101 and BIOL 103 or equiv. Common ornamental woody plants, their identification, cultural needs, and evaluation of use; some outdoor study and a one-day nursery trip. (2 - 3 hr. lab.).

HORT 262. Herbaceous Plant Materials. 3 Hours.
Identification, description, adaptability, and evaluation of selected herbaceous annuals and perennials with emphasis on their use as design elements.

HOSPITALITY/TOURISM

HTOR 110. Food Production 1. 6 Hours.
Develops basic skills needed in the kitchen. Students learn proper techniques, terminology, and equipment for activities ranging from carving to menu planning. Prepare small quantity menus in a commercial-kitchen setting and review current food quality standards.

HTOR 111. Food Production 2. 6 Hours.
Builds on techniques learned in HTOR 110, with an emphasis on restaurant and dining room operations. Exercises will include exploration in classic cuisines, dinner promotion methods, personnel training, and budget development. Students will develop the culinary skills needed to prepare professional cafeteria style meals as well as catered events.

HTOR 120. Sanitation. 2 Hours.
Stresses the principles of safe food preparation and handling. Topics include safe food purchasing; storage and preparation; causes of food borne illness; insect and rodent control; and government rules and regulations pertaining to food service sanitation.

HTOR 130. Inventory, Labor, and Cost Control. 3 Hours.
Principles of modern food and beverage management as applied to the food service industry. Emphasis on systems of food and labor cost controls, budgets for food service operations, pricing and planning, and menu analysis. Relationships between management and employees and current trends in the food service industry will also be explored.

HTOR 140. Restaurant Management. 6 Hours.
PR: HTOR 110 and HTOR 111. Provides a realistic understanding of how to operate a restaurant. Experience will be provided in cooking food to order, service, managerial skills, training and supervising employees, purchasing food products, and managerial decision making.

HTOR 141. Kitchen Layout. 3 Hours.
Basic facts, principles, and learning experiences involved in planning a commercial kitchen. Appropriate kitchen equipment selection and sequence of work and material flow are analyzed for specific menus.

HTOR 150. Fine Dining. 3 Hours.
PR: HTOR 140. Students learn skills necessary to work in a five-star resort, hotel, or restaurant. Skills include serving foods sent from the kitchen to be prepared tableside, and include carving, flaming, filleting, and mixing of meats, fish and salads.

HTOR 160. Topics in International Cuisine. 1 Hour.
The fundamental principles of this course are based on international cooking and trends in the vast variety of foods around the world to bring new ideas and variety in the cooking. Grading will be pass/fail.

HTOR 162. Topics in Fine Dining. 1 Hour.
The fundamental principles of this course are based on practices associated with fine dining. Topics/activities will include the preparation and presentation of gourmet foods, table preparation, and serving procedures. Course will be graded Pass/Fail.

HTOR 295. Internship. 6 Hours.
PR: Sophomore Status. Supervised professional study conducted in a hospitality or tourism field setting.

HUMANITIES

HUM 101. Introduction to Western Civilization 1. 3 Hours.
Presents the high points of Greco-Roman and Medieval European civilizations: their art, architecture, philosophy, religion, literature and music.

HUM 102. Introduction to Western Civilization 2. 3 Hours.
Presents the art, architecture, philosophy, religion, literature and music of the following periods in Western civilization: the Renaissance, the Age of Classicism and the revolutionary nineteenth and twentieth centuries.

JOURNALISM

JRL 101. Media and Society. 3 Hours.
Examines the relationship between media, culture and society, with emphasis on the history, structure, and organization of the mass media.

JRL 191. College of Media Orientation. 3 Hours.
This course for direct admit Media College students introduces them to university processes, such as scheduling and DegreeWorks; to College of Media organizations, advisors, professors and professional options/curricular majors; and now also includes information about conducting research and basic media literacy.

JRL 215. Media Writing. 3 Hours.
PR: Minimum cumulative GPA of C. Introduction to the fundamental reporting and storytelling skills that are the foundation of all media writing: print, radio, television, public relations, advertising and social media.
JRL 220. Introduction to Photojournalism. 3 Hours.
Basic techniques of journalistic photography, digital imaging and editing. Students must have access to a film or digital camera.

JRL 225. Media Tools & Applications. 3 Hours.
Intended for College of Media majors and Interactive Media Design minors, this lecture/lab course covers fundamental principles and practices of multimedia content gathering and editing in preparation for upper-level courses with the College of Media.

JRL 318. Beat Reporting. 3 Hours.
PR: JRL 215. Essentials of developing and covering a news beat. Students generate stories, cultivate sources, and discover their community.

LANDSCAPE ARCHITECTURE
LARC 212. History of Landscape Architecture. 3 Hours.
A broad survey of the history of the designed human environment with emphasis on the development of landscape architecture. (Does not fulfill Cluster A for landscape architecture students.)

MECHANICAL AND AEROSPACE ENGINEERING
MAE 241. Statics. 3 Hours.
PR: WVU sections require PHYS 111 and (MATH 154 or MATH 155) all with a grade of C- or better, WVUIT sections require MATH 155 as a prerequisite. Engineering applications of force equilibrium. Vector operations, couples and moments, resultants, centers of gravity and pressure, static friction, free-body diagrams, trusses and frames.

MAE 242. Dynamics. 3 Hours.
PR: WVU sections require MATH 156 with a grade of C- or better and MAE 241, WVUIT sections require MATH 156 and MAE 241 as prerequisites. Newtonian dynamics of particles and rigid bodies. Engineering applications of equations of motion, work and energy, conservative forces, acceleration in several coordinate systems, relative motion, instantaneous centers, and plane motion.

MAE 243. Mechanics of Materials. 3 Hours.
PR: WVU sections require MATH 156 with a grade of C- or better and MAE 241, WVUIT sections require MATH 156 and MAE 241 as prerequisites. Stress deformation, and failure of solid bodies under the action of forces. Internal force resultants, stress, strain, Mohr's circle, and mechanical properties of materials, generalized Hooke's law. Axial bending and buckling loads, and combinations.

MAE 320. Thermodynamics. 3 Hours.
PR: WVU sections require PHYS 111 and MATH 156, WVUIT sections require MATH 156 as a prerequisite. Principles of thermodynamics; properties of ideal gases and vapors; first and second laws of thermodynamics; basic gas and vapor cycles; basic refrigeration.

MATHEMATICS
MATH 121. Intro Concepts Of Mathematics. 3 Hours.
(Designed for non-science majors who do not need the techniques of mathematics for other course work in their programs.) Topics in modern mathematics.

MATH 122. Quantitative Skills and Reasoning. 2 Hours.
PR: Minimum HEPC-defined ACT/SAT Math or equivalent assessment score, or satisfactory performance on placement test. An introductory study of quantitative and reasoning skills needed for success in science, technology, engineering, and mathematics.

MATH 124. College Algebra with Applications. 3 Hours.
PR: Satisfactory performance on departmental placement test; or satisfy the minimum ACT/SAT Math score; or a grade of C or better in MATH 122. Study of college algebra with an emphasis on applications for science, business, technology, and social science. Topics include graphing and solving problems using linear, quadratic, square-root, logarithmic, and exponential functions, solving equations, performing operations on matrices, and linear programming.

MATH 125. Applied College Mathematics. 3 Hours.
PR: MATH 91 or satisfy the minimum ACT/SAT Math score. Material covered will include applications involving ratios and proportions, percents, measurement, and geometric relationships to support algebraic modeling of linear, quadratic, exponential and logarithmic functions. Modeling of real world scenarios will be supported through the use of spreadsheets.

MATH 126A. College Algebra 5-Day. 3 Hours.
PR: Satisfy the minimum ACT/SAT math score, or satisfactory performance on departmental placement examination, or C- in MATH 122. (This course is not open to students who have credit for MATH 129 or its equivalent.) Review of the real number system and algebraic expressions, equations, inequalities, graphing, functions, and polynomials. Pre-requisite(s) and/or co-requisite(s) may differ on regional campuses.

MATH 126B. College Algebra 4-Day. 3 Hours.
PR: Satisfy the minimum ACT/SAT math score, or satisfactory performance on departmental placement examination, or MATH 122 with a minimum grade of C-. (This course is not open to students who have credit for MATH 129 or its equivalent.) Review of the real number system and algebraic expressions, equations, inequalities, graphing, functions, and polynomials. Pre-requisite(s) and/or co-requisite(s) may differ on regional campuses.
MATH 126C. College Algebra 3-Day. 3 Hours.
PR: Two units of algebra, one unit of geometry, and satisfactory performance on departmental placement examination or successful completion of the pre-college algebra workshop or its equivalent. (This course is not open to students who have credit for MATH 129 or its equivalent.) Review of the real number system and algebraic expressions, equations, inequalities, graphing, functions, and polynomials. Pre-requisite(s) and/or co-requisite(s) may differ on regional campuses.

MATH 128. Plane Trigonometry. 3 Hours.
PR: A minimum grade of C- in MATH 126A or MATH 126B or MATH 126C. (This course is not open to students who have credit for MATH 129 or equivalent.) Trigonometric functions, identities, vectors, complex numbers, and trigonometric equations. Pre-requisite(s) and/or co-requisite(s) may differ on regional campuses.

MATH 129. Pre-Calculus Mathematics. 4 Hours.
PR: Satisfy the minimum ACT/SAT math score, or satisfactory performance on departmental placement test, or B- in MATH 126B. Not open to students who have credit for the equivalent of either MATH 126 or 128. A treatment of algebra, analytic geometry, and trigonometry. Pre-requisite(s) and/or co-requisite(s) may differ on regional campuses.

MATH 150. Applied Calculus. 3 Hours.
PR: Satisfy the minimum ACT/SAT math score, or satisfactory performance on departmental placement examination, or C- in (MATH 126A or MATH 126B or MATH 126C) or MATH 129. For students in other disciplines needing calculus for applications. Limits of sequences and functions, continuity derivatives, and integrals of polynomials, rational functions, and exponential and logarithmic functions, partial derivatives, maxima and minima. Pre-requisite(s) and/or co-requisite(s) may differ on regional campuses.

MATH 155. Calculus 1. 4 Hours.
PR: Satisfy the minimum ACT/SAT math score, or satisfactory performance on departmental placement examination, or C- in MATH 129. Introduction to limits, continuity, derivatives, antiderivatives, definite integrals, and applications of the derivative. Not open to students who have earned credit in MATH 153 and/or MATH 154.

MATH 156. Calculus 2. 4 Hours.
PR: A minimum grade of C- in MATH 154 or MATH 155. Techniques of integration, application of the definite integral, polar coordinates, indeterminate forms, and infinite series.

MATH 251. Multivariable Calculus. 4 Hours.
PR: MATH 156 with a minimum grade of C-. Introduction to solid analytic geometry, vector algebra, and calculus of several variables.

MATH 261. Elementary Differential Equations. 4 Hours.
PR: MATH 251 with a minimum grade of C-. Ordinary differential equations, Laplace transforms, partial differential equations, Fourier series, and applications.

MICROBIOLOGY

MICB 200. Medical Microbiology. 3 Hours.
PR: CHEM 111 and CHEM 112. General medical terminology with emphasis on clinical and anatomic pathology terminology.

MUSIC

MUCS 111. Introduction to Music. 3 Hours.
(Not open to music majors). Introductory course designed to develop an appreciation and understanding of the significance of music as a fine art, and to help the student develop intelligent listening habits.

MUCS 113. Twentieth Century American Pop Music. 3 Hours.
Introduction of history and development of American popular music.

MUCS 115. Introduction to History of Jazz. 3 Hours.
PR: MUCS 111 or consent. (Not open to music majors). An Introduction to jazz, its characteristics, important performers, and their music, including an historical survey with attention to the changing style of the music.

MUCS 120. History of Musical Theatre. 3 Hours.
This course explores American musical theatre, one of this country’s primary contributions to world culture, covering its origins, components, and its major creative figures.

NURSING

NSG 100. Introduction to Nursing. 2 Hours.
Introduction to the role of the nurse in modern health care: critical thinking, nursing interventions, professionalism, caring and communication in nursing practice with emphasis on safety, quality, health, culture, ethics, leadership, and health policy.

OFFICE SYSTEMS TECHNOLOGY

OSTC 107. Medical Terminology 1. 3 Hours.
Introduction to medical terminology as it applies to the various body systems and practical application in medical office procedures.
OSTC 222. Office Automation. 3 Hours.
PR: CS 101 or CIS 100 and OSTC 113 or consent of the instructor. This course provides an evolutionary perspective on today's changing office. Topics include information flow and management, communications, replication, and records management.

OSTC 223. Directed Office Experience. 3 Hours.
This course is open to students in the BTEC and OSTC programs during the final semester of study or with advisor permission. Students are placed in appropriate work sites in the community and surrounding area to participate in an on-the-job training experience. (A minimum of 56 hours is required.).

OSTC 240. Fundamentals of Desktop Publishing. 3 Hours.
Current hardware and software used in desktop publishing (Microsoft's Publisher). Students will complete projects developed to train the user in basic hardware and software applications.

PATHOLOGY

PATH 200. Medical Terminology. 3 Hours.
General medical terminology with emphasis on clinical and anatomic pathology terminology.

PHYSICAL EDUCATION/TRAINING

PET 124. Human Body: Structure and Function. 2 Hours.
Overview of the structure and function of the organ systems in the human body. Topics covered include the skeletal, muscular, nervous, digestive, respiratory, and cardiovascular systems.

PET 125. Principles of Human Movement. 2 Hours.
PR: PET 124. This course is designed to introduce prospective physical educators to the principles of human movement. Pre-requisite(s) and/or co-requisite(s) may differ on regional campuses.

PET 167. Introduction to Physical Education. 3 Hours.
Overview of physical education teaching profession including career opportunities, critical current issues/trends, professional standards, and the professional organizations.

PET 175. Motor Development. 2 Hours.
To examine changes in human movement behavior across the lifespan, the processes that underline these changes, and the factors that contribute to those changes.

PET 244. Motor Learning and Performance. 2 Hours.
Introduction to principles related to teaching, learning, and performance of motor skills. Emphasizes the application of knowledge to teaching and learning strategies for motor-skill acquisition.

PET 276. Special Physical Education. 2 Hours.
Examines motor developmental characteristics of various handicapped groups and emphasizes physical education role in remediating possible developmental deficiencies.

PHYSICAL EDUCATION

PE 101. Badminton. 1 Hour.
(May be repeated for a maximum of 2 credit hours). Introduction to beginning knowledge and skills in badminton.

PE 103. Beginning Basketball. 1 Hour.
(May be repeated for a maximum of 2 credit hours). This course is designed to provide historical background, rules and regulations, and fundamental skills. These will be accomplished through instruction, drills, games and class team play.

PE 121. Zumba. 1 Hour.
(May be repeated for a maximum of 2 credit hours). Fuses various fast and slow Latin rhythms and movements with resistance training to create dynamic fitness routine, balance, and introduces breathing techniques to increase energy and focus.

PE 124. Fitness Walking. 1 Hour.
(May be repeated for a maximum of 2 credit hours). This course provides a supervised walking program in a safe, enjoyable environment. Classes meet ACSM guidelines for safe, effective classes. Includes warm-up, cardiovascular segment, cool-down, and stretch.

PE 125. Aerobics. 1 Hour.
(May be repeated for a maximum of 2 credit hours). Introduction to beginning knowledge and skills in aerobics.

PE 130. Flag Football. 1 Hour.
(May be repeated for a maximum of 2 credit hours). Introduction to beginning knowledge and skills in flag football.

PE 145. Karate. 1 Hour.
(May be repeated for a maximum of 2 credit hours). Introduction to beginning knowledge and skills in karate.

PE 146. Self-Defense. 1 Hour.
(May be repeated for a maximum of 2 credit hours). Introduction to beginning knowledge and skills in self-defense.
PE 149. Tae Kwon Do. 1 Hour.  
(May be repeated for a maximum of 2 credit hours). Introduction to beginning knowledge and skills in tae kwon do.

PE 152. Beginning Kickboxing. 1 Hour.  
(May be repeated for a maximum of 2 credit hours). An introduction to the popular martial art and competitive sport of kickboxing. Emphasis is given to building flexibility and strength, the foundations of powerful kicking and punching techniques.

PE 153. Yoga for Fitness. 1 Hour.  
(May be repeated for a maximum of 2 credit hours). This course introduces the student to basic yoga techniques that can be practiced as a way of developing a wide variety of sports.

PE 159. Soccer. 1 Hour.  
(May be repeated for a maximum of 2 credit hours). Introduction to beginning knowledge and skills in soccer.

PE 164. Weight Training. 1 Hour.  
(May be repeated for a maximum of 2 credit hours). Introduction to beginning knowledge and skills in weight training.

PE 165. Conditioning. 1 Hour.  
(May be repeated for a maximum of 2 credit hours). Introduction to beginning knowledge and skills in conditioning.

PE 170. Volleyball. 1 Hour.  
(May be repeated for a maximum of 2 credit hours). Introduction to beginning knowledge and skills in volleyball.

PE 182. Bowling. 1 Hour.  
(May be repeated for a maximum of 2 credit hours). Introduction to beginning knowledge and skills in bowling.

PE 187. Golf. 1 Hour.  
(May be repeated for a maximum of 2 credit hours). The course is designed to introduce students to the rules, skills, and strategies involved in golf.

PE 201. Pilates. 1 Hour.  
(May be repeated for a maximum of 2 credit hours). Introduces students to basic techniques, postures, and controlled breathing designed to build core strength, improve flexibility, and increase physical fitness in a non-competitive atmosphere.

PE 202. Intermediate Yoga. 1 Hour.  
(May be repeated for a maximum of 2 credit hours). PR: PE 153 or previous yoga experience. Emphasizes poses which build a combination of strength, flexibility, balance, and introduces breathing techniques to increase energy and focus. Moderately paced for students with previous yoga practice.

PE 223. Net and Wall Games. 1 Hour.  
This teaching games for understanding (TGfU) course is designed to introduce the students to the rules, skills, and strategies involved in playing net and wall games.

PHILOSOPHY

PHIL 100. Problems of Philosophy. 3 Hours.  
An elementary examination of such philosophical problems as the mind-body problem, the existence of God, freedom and determinism, and the nature of persons and their knowledge.

PHIL 140. Historical Introduction to Philosophy. 3 Hours.  
An introductory survey of the major philosophers and philosophical movements from ancient times to the present.

PHIL 170. Introduction to Critical Reasoning. 3 Hours.  
An elementary study of critical thinking and reasoning. For students who want to improve their skills in recognizing fallacious patterns of reasoning, constructing acceptable arguments, and criticizing faulty lines of reasoning.

PHYSICS

PHYS 101. Introductory Physics. 4 Hours.  
PR or CONC: MATH 128 or MATH 129 or MATH 150 or MATH 153 or MATH 154 or MATH 155 or MATH 156 or consent or satisfactory performance on MATH departmental placement exam. The fundamental philosophy and principles of physics are applied to studies of mechanics, sound, heat, and thermodynamics through demonstrations, problems, and experiments. Pre-requisites and/or co-requisites may differ on regional campuses.

PHYS 102. Introductory Physics. 4 Hours.  
PR: PHYS 101. The fundamental philosophy and principles of physics are applied to studies of electricity, magnetism, optics, light, and atomic and nuclear physics through demonstrations, problems, and experiments. Pre-requisite(s) and/or co-requisite(s) may differ on regional campuses.

PHYS 105. Conceptual Physics. 4 Hours.  
Basic principles of physics and their relationship to our modern technological society. Major topics include properties of matter, electricity, optics, motion, heat and temperature, and energy. Nonmathematical approach emphasized.

PHYS 111. General Physics. 4 Hours.  
PR: MATH 155 with a grade of C or better or (MATH 153 with a grade of C or better and PR or CONC: MATH 154). Survey of classical mechanics, thermodynamics and waves.
PHYS 112. General Physics. 4 Hours.
PR: PHYS 111. Survey of electricity, magnetism, and optics.

PLANT SCIENCE
PLSC 206. Principles of Plant Science. 4 Hours.
Anatomy, morphology, and physiology of higher plants. Study of growth and development of economically important plants, their culture, and products.

POLITICAL SCIENCE
POLS 101. Introduction to Political Science. 3 Hours.
Introduction to government and politics. Origins, forms, and functions of the state; organization and processes of government; and the behavior of groups and individuals in various political systems.

POLS 102. Introduction to American Government. 3 Hours.
General survey of American national government and politics.

POLS 103. Global Political Issues. 3 Hours.
Analysis of issues in post-cold war international politics, ranging from traditional major power diplomacy and intervention to the newer problems of economic interdependence and development, human rights, population pressures on limited resources, and the environment.

POLS 210. Law and the Legal System. 3 Hours.
Introductory course on 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.

POLS 220. State and Local Government. 3 Hours.
The legal basis, structure, politics and operation of state and local governments, in the context of the American federal system.

POLS 250. Introduction to Comparative Politics. 3 Hours.
An introduction to the political and governmental systems of industrialized and developing countries. Focuses on approaches to comparative political study, political cultures and participation, and government structures, processes, and policy performance.

POLS 260. Introduction to International Relations. 3 Hours.
Theories and concepts in international politics and their application to contemporary world politics.

POLS 311. Political Parties & Elections. 3 Hours.
Parties and elections in America; emphasis on nomination and general election processes, campaigns, the mass media, campaign finance, voting, the electoral college, and parties in government.

POLS 353. Western Democratic Governments. 3 Hours.
Cross-national and/or cpmtru based analysis of selected western democracies, such as Canada, Great Britain, France, Italy, and the European Union.

PSYCHOLOGY
PSYC 101. Introduction to Psychology. 3 Hours.
Survey of general psychology.

PSYC 202. Research Methods in Psychology. 3 Hours.
PR: PSYC 101 and (STAT 201 or STAT 211). Research methods in experimental, developmental, clinical, and community-social psychology in the laboratory and the natural environment.

PSYC 231. Leadership and Human Relations. 3 Hours.
PR: PSYC 101. Concentrates on principles of psychology that can be applied to improving relations with others as well as being a more effective leader. Pragmatic orientation includes using the principles to solve problems in relationships, in small organizations, and in large systems.

PSYC 232. Sex Roles and Behavior. 3 Hours.
PR: PSYC 101. Relates sex-typed behavior to physiological, social, and cultural processes. Current social concerns such as rape and abortion legislation, child care, and expanded career options for both sexes are examined from a psychological perspective.

PSYC 241. Introduction to Human Development. 3 Hours.
PR: PSYC 101. Survey of human psychological development across the life span with emphasis on change in biological, cognitive, and social-emotional processes. Special attention given to theoretical, conceptual, methodological, and practical issues.

PSYC 251. Introduction to Social Psychology. 3 Hours.
PR: PSYC 101. Examination of social interaction and behavior from a psychological perspective. Topics include: attraction, social perception and cognition, attitudes and attitude change, social influence and group process, prosocial behavior and aggression, cultural influence, and prejudice.

PSYC 281. Introduction to Abnormal Psychology. 3 Hours.

PSYC 343. Child and Adolescent Development. 3 Hours.
PR: PSYC 241 and junior or senior standing. Theory and research on major psychological processes in childhood and adolescence; maturation, personality, socialization, sensory, and cognitive development.
PSYC 345. Adulthood and Aging. 3 Hours.
PR: PSYC 241 and junior or senior standing. Psychological issues in the study of adulthood, with an emphasis on the characteristics of older adults. Topics include the psychosocial and biological context of aging, cognitive and personality changes from early to late adulthood, psychopathology in later life, dementia, issues in caregiving, and death and dying.

PSYC 382. Exceptional Children. 3 Hours.
PR: PSYC 241 and junior or senior standing. Exceptional mental retardation or advancement; organic disabilities having behavioral consequences, such as cerebral palsy or deafness; and behavior disorders.

READING
RDNG 403. Literature for Children. 3 Hours.
A survey of children's literature, with attention to historical development as well as current trends. Emphasizes selection, critical evaluation, and utilization of literary materials for developmental, recreational, and curriculum needs. Appropriate media included.

RELIGIOUS STUDIES
RELG 102. Introduction to World Religions. 3 Hours.
This course explores five of the most widely practiced world religions; Judaism, Christianity, Islam, Hinduism, and Buddhism. Students are introduced to the history and basic tenets of each faith.

RELG 219. The History of Christianity. 3 Hours.
This course explores the birth and evolution of Christianity from its inception until the modern era. Emphasis will be placed upon the significant people and events that shaped Christianity.

RELG 303. Studies in Christian Scripture. 3 Hours.
This course explores the origin and development of the Christian Bible. The historical, cultural, and religious settings of the texts, as well as their theological intent, will be examined.

SUSTAINABLE AGRICULTURE ENTREPRENEURSHIP
SAGE 141. Introduction to Horticulture and Agronomy. 3 Hours.
Hands-on introduction of concepts for crops and soils; evaluation of entrepreneurial benefit for farm income; small farm enterprise; basics of crop needs; and crop scheduling.

SAGE 215. Agricultural Marketing. 3 Hours.
PR: ARE 150. Broad view of marketing; food, timber, product markets and consumption; marketing functions and institutions; practical knowledge and application capabilities for the marketing of agricultural products; exploration of current marketing methods for agricultural products and services; development of efficient, effective marketing schemes and exploration of value-added products.

SAGE 231. Innovation Exploration Seminar. 1 Hour.
Exploration of current issues in the production agriculture arena; agricultural innovations, environmental farming considerations, farming techniques and food production issues producing a preliminary farm enterprise plan and business documents.

SAGE 240. Applied Horticulture and Agronomy. 3 Hours.
PR: SAGE 141. Building on the information learned in SAGE 141, evaluation of the entrepreneurial benefits to the farmer based on; soil management, the harvesting of crops, post-harvest handling methods, point of sale condition, processing and valued added aspects of horticultural and agronomic crops.

SAGE 260. Applied Animal Husbandry. 3 Hours.
PR: A&VS 251. A hands-on study of the production of animals and animal products. Development of animal farming best management plans based on nutrition, physiology, genetics, hygiene, physical environment, economics and daily work requirements.

SAGE 270. Woodlot Management. 3 Hours.
An introduction to the concepts of forest management, with a focus on small woodlots; many facets of the management of forest acreage; and lab-based training on basic forestry and forest management related field methods and data analysis.

SAGE 280. Principles of Ag Entrepreneurship. 3 Hours.
Exploration of the creative processes used by entrepreneurs and of the skills needed to successfully operate an entrepreneurial venture in the agricultural and forestry arenas.

SAGE 312. Integrated Pest Management. 3 Hours.
In depth exploration of crop/animal pest and disease management, sanitation in disease prevention, identification of symptoms, current treatments of disease, insect identification methods, insect scouting, insect control methods, weed identification and beneficial organisms for sustainable production.

SAGE 318. Agricultural Project Management. 3 Hours.
This course provides an understanding of the processes, tools, and practical knowledge needed to successfully manage agricultural projects. Students apply concepts to manage a typical project found in industry.
SAGE 386. Junior Farm Work Experience 1. 3 Hours.
This course will guide the development of the business planning for agriculture or forestry enterprises. With the in-class problem-solving exercises, the enterprises will be evaluated for their human resources, strategic objectives and financial considerations. By the end of the course the business description section of personal business plan will be completed.

SAGE 387. Junior Farm Work Experience 2. 3 Hours.
PR: SAGE 386. This course will guide the development of the business planning for agriculture or forestry enterprises. With the in-class problem-solving exercises, enterprise vision statements, mission statements and goals will be developed. The enterprise operations section of their personal farm business plan will be developed.

SAGE 446. Advanced Agriculture & Forestry Entrepreneurship. 3 Hours.
PR: BUSA 310 or SAGE 280. This course will build on concepts covered in SAGE 280 or BUSA 310 to discuss business formation and how the development of the entrepreneurial mindset can lead to the successful formation and operation of agriculture and forestry enterprises.

SAGE 451. Value-added Agriculture/Forestry Enterprises. 3 Hours.
PR: SAGE 446. The study of agriculture and forestry enterprises where you capture value or create value by marketing a unique product, filling a market niche, simplifying the supply chain, providing a service, or lowering costs.

SAGE 486. Senior Farm Work Experience 1. 3 Hours.
PR: SAGE 387. This course will guide the development of creative and entrepreneurial business planning for agriculture or forestry enterprises. With the in-class creativity and brain-storming activities the students will develop their enterprise strategic plan. By the end of the course the financial section of personal business plan will be completed.

SAGE 487. Senior Farm Work Experience 2. 3 Hours.
PR: SAGE 486. This course will guide the development of creative and entrepreneurial business planning for agriculture or forestry enterprises. With in-class creativity and brain-storming activities the students will develop their specialized test market(s) to match their specific enterprise. By the end of the course the student’s personal farm business plan will be completed.

SPORT AND EXERCISE PSYCHOLOGY

SEP 271. Sport in American Society. 3 Hours.
Sociocultural investigation of sport in American society.

SEP 272. Psychological Perspectives of Sport. 3 Hours.
An examination of personality and behavioral factors as they affect participation in sport. Topics such as stress and sport, body image, aggression and the sport participant, and the licensure of sport psychologists highlight the course.

SEP 373. African Americans in Sports. 3 Hours.
Sociocultural and historical overview of the contributions of African Americans in sport in America.

SEP 385. Social Psychology of Sport. 3 Hours.
PR: SEP 271 and SEP 272 or consent. An introduction to the study of how and why performance is affected by interactions with others in sport.

SPORT MANAGEMENT

SM 167. Introduction to Sport Management. 3 Hours.
Overview of the sport management profession including career opportunities, critical current issues, trends, professional standards and the professional organizations.

SOCIOLOGY AND ANTHROPOLOGY

SOCA 101. Introduction to Sociology. 3 Hours.
Basic course intended to develop a perspective about the nature of social processes and the structure of society.

SOCA 105. Introduction to Anthropology. 3 Hours.
Essentials of human evolution and prehistory with a concentration on the varieties of languages and cultures found among peoples of the world.

SOCA 199. Orientation to Sociology and Anthropology. 1 Hour.
Orientation to degree programs and requirements, departmental resources, curriculum options, student responsibilities and opportunities.

SOCA 207. Social Problems in Contemporary America. 3 Hours.
Sociological analysis of the causes, effects and approaches to preventing and reducing social problems in American society.

SOCA 221. Families and Society. 3 Hours.
Historical comparative approach to changing structure and functions of the family institution. Effect of economic, demographic, and cultural changes on relationships, gender roles, marriage, childcare; variations by socioeconomic status, race, ethnicity, gender, sexual orientation.

SOCA 223. Death and Dying. 3 Hours.
Sociological and anthropological perspectives on death and dying. Examines sociopsychological and structural factors supporting the beliefs and practices associated with the institution of death, both historically and in contemporary society.
SOCA 232. Criminology. 3 Hours.
PR: SOCA 101. Exploration of various theories of criminal behavior; emphasis on a critical study of the criminal justice system and efforts to reform the penal system.

SOCA 235. Race and Ethnic Relations. 3 Hours.
Racial and ethnic groups are examined in terms of their history, transformation over time, and the contemporary conditions and issues they face. Emphasis is on prejudice as well as systemic racism.

SOCA 254. Cultural Anthropology. 3 Hours.
Introduction to the history, methods, and current directions of cultural anthropology. Focus on living cultures across the world, encompassing the whole range of human activities. Consideration of identity, economy, politics, kinship, meaning, language, and inequality.

SOCA 323. Sociology of Rural Life. 3 Hours.

SOCIAL WORK

SOWK 105. Social Welfare Institutions. 3 Hours.
Examines the historical development of social welfare in the United States and the values that shape social welfare institutions. (3 hr. lec.).

SOWK 147. Human Diversity. 3 Hours.
(Must be completed before applying to the major.) Covers a range of diverse populations especially those historically subjected to oppression and social and economic injustice. Addresses the causes and effects of institutionalized forms of oppression.

SOWK 151. Introduction to Social Work. 3 Hours.
PR: Consent. (Must be completed before applying to the major.) Overview of the social welfare field and social work profession. Emphasizes social work values and ethics.

SPANISH

SPAN 101. Elementary Spanish 1. 3 Hours.
PR: Score of S1 on placement test or no prior study of the language or departmental consent. Introduction to the sound and writing systems of the language with emphasis on listening, speaking, reading and writing within an authentic cultural context. (Course presumes no prior knowledge of the language.).

SPAN 102. Elementary Spanish 2. 3 Hours.
PR: SPAN 101 or score of S2 on placement exam. Continuation of SPAN 101. Introduction to the sound and writing systems of the language with emphasis on listening, speaking, reading, and writing within an authentic cultural context.

SPAN 203. Intermediate Spanish 1. 3 Hours.
PR: SPAN 102 or score of S3 on placement exam. Continuation of SPAN 102.

SPAN 204. Intermediate Spanish 2. 3 Hours.
PR: SPAN 203 or score of S4 on placement exam. Foundation for advanced study of Spanish. Emphasis on oral and written communication.

STATISTICS

STAT 111. Understanding Statistics. 3 Hours.
Introduction to basic concepts and ideas of statistics. Methodologies and case studies to prepare students to understand the use of statistics in the mass media and professional publications in their major field of study. Not open to students who have earned credit for STAT 211 or STAT 215.

STAT 211. Elementary Statistical Inference. 3 Hours.
PR: MATH 122 or higher. (Not open to students who have completed STAT 215.) Basic concepts of descriptive and inferential statistics: descriptive measures, random variables, sampling distributions, estimation, tests of hypotheses, chi-square tests, regression and correlation. (Equivalent to ECON 225.).

THEATRE

THET 102. Acting. 3 Hours.
(Open to all students.) Basic theories and concepts in stage acting for the beginning student. Emphasis on the physical, intellectual, emotional, and personality languages of acting.

THET 200. Production Practicum. 1 Hour.
PR: THET 104 or THET 106 or consent. (May be repeated for a maximum of 4 hours.) Assigned theatre projects as an introduction to the elements of theatrical production.
LIBRARY INSTRUCTION

ULIB 101. Introduction to Library Research. 1 Hour.
Focuses on the concepts and logic of information access including using the libraries' online catalog, various databases and the Internet to find quality information. Incorporates hands-on practice with electronic resources for term paper preparation.

UNDERGRADUATE STUDIES

UGST 270. 1 Hour.
A study of careers in the health professions. Readings, lectures, and discussions by professionals in many health fields will include the educational requirements for and functions of their respective health professions. (Pass/fail grading only.).

WOMEN AND GENDER STUDIES

WGST 170. Introduction to Women's and Gender Studies. 0-3 Hours.
The major contexts in which gender identities have been and are defined and of the relationships between these definitions and the roles and history of women and men in society and culture.

WILDLIFE AND FISHERIES MANAGEMENT

WMAN 150. Principles of Conservation Ecology. 3 Hours.
Overview of the science of conservation ecology with emphasis on the concepts of biological diversity, extension, habitat loss and fragmentation, establishment of protected areas, endangered species, and establishment and preservation of new populations.

WV UNIVERSITY EXPERIENCE

WVUE 191. First Year Seminar. 1 Hour.
Exploration of academic experiences through meaningful contexts. The course will envelope a range of academic components needed to achieve student success and successfully transition to West Virginia University.