Welcome to Patrick Henry Community College! As we begin this year with a focus on innovation, we are excited to have you join our campus community.

Everything you do on this campus and in your classrooms can be termed innovation, because every time you learn and apply something new, you are innovating. By definition, innovation means disruption, upheaval, shaking things up. In reality, it is using creativity to approach daily life. Our innovative and creative faculty and staff are here to help you reach your academic and career goals, and are committed to your success.

Whether you wish to pursue an Associate degree and continue on to a four-year college or university to complete a Bachelor’s degree or a one or two-year career program that prepares you for a career, PHCC is the right place to start your journey to success. A targeted, short-term workforce training program may be perfect to jumpstart your job skills, landing you a new job, a career promotion, or maybe, a budding personal interest.

At PHCC we help you build a toolbox that includes the kind of career intelligence employers seek: critical thinking; teamwork; problem analysis; communication skills – innovation. It is our goal to ignite that creative spark that we know resides in every student’s mind.

Angeline Godwin
President
Main Campus
645 Patriot Avenue, Martinsville, Virginia 24112
(Route 174 to College Drive)
(276) 638-8777

Visit our Extended Campus Locations

Artisan Center
54 W. Church Street, Martinsville, Virginia 24112
(276) 656-5461, Retail Store: (276) 632-0066

Automotive & Auto Body Technology Center
Martinsville City Public Schools, Chester Lane Vocational Building
200 Hospital Drive, Martinsville, Virginia 24112
(276) 403-5790

PHCC-The Franklin Center for Advanced Learning and Enterprise
50 Claiborne Avenue, Rocky Mount, Virginia 24151
(540) 483-0179

PHCC-Patrick County Site
212 Wood Brothers Drive, Stuart, Virginia 24171
(276) 694-8778

Virginia Motorsports Technology Center
The Racing College of Virginia
67 Motorsports Drive, Martinsville, Virginia 24112
(276) 656-0292

PHCC Website: www.patrickhenry.edu

The statements and provisions in this catalog are not to be regarded as a contract between the student and the college that cannot be recalled. The college reserves the right to change, when warranted, any of the provisions, schedules, programs, courses or fees, as might be required. Supplements may be issued to this catalog as considered necessary by the college.

The Patrick Henry Community College Catalog is published by Patrick Henry Community College.

Patrick Henry Community College does not discriminate on the basis of race, color, national origin, sex, or disability in its programs and activities. The following person has been designated to handle inquiries regarding the non-discrimination policy: Affirmative Action Coordinator, Francis T. West Hall, room 148, (276) 656-0214.
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General Information
The College

Patrick Henry Community College is one of 23 community colleges in Virginia. Patrick Henry was founded in 1962 as a two-year branch of the University of Virginia's School of General Studies and became an autonomous two-year college of the university two years later. The college enrolled its first students in the old Northside Elementary School in Martinsville and moved to its present campus in the fall of 1969 with the completion of the administration building. The Learning Resource Center was completed in the spring of 1971, and the college became part of the Virginia Community College System on July 1, 1971.

As a community college, PHCC has continued to grow. New programs have been added and programs have expanded. William F. Stone Hall, the health, physical education and wellness center, was completed in the spring of 1974 and dedicated to the memory of the late Senator William F. Stone. A division offering occupational and technical programs and courses was established in 1976. In the spring of 1985, A. L. Philpott Hall was completed in order to better serve growing programs to train a competent workforce. An addition to A.L. Philpott Hall was completed in the fall of 1995. The Walker Fine Arts/Student Center was completed in 1990 and dedicated to the memory of Robert Lee Walker and Samuel Stanhope Walker. In 1999, the administration building was named Francis T. West Hall, and the J. Burness Frith Economic Development Center was completed and dedicated to the memory of the late J. Burness Frith.

In order to improve accessibility to college classes, three off-campus sites have been established. Classes are offered at sites in Franklin County, Patrick County, and Uptown Martinsville.

By responding rapidly and effectively to meet community needs and through continuous growth, PHCC seeks to fulfill the purposes assigned to it by the 1966 General Assembly that established the Virginia Community College System.

Accreditation and Recognition

Patrick Henry Community College is accredited by the Commission on Colleges of the Southern Association of Colleges and Schools (1866 Southern Lane, Decatur, Georgia, 30033-4097, Telephone number 404-679-4501) to award the associate degree.

As a member of the Virginia Community College System, Patrick Henry Community College is approved by the State Board for Community Colleges; the associate degree curricula offered in the college have also been approved by the State Council of Higher Education for Virginia. The college is a member of the American Association of Community Colleges. The nursing program is approved by the Virginia Board of Nursing and accredited by the Accreditation Commission for Education in Nursing.

Mission

Patrick Henry Community College is a comprehensive two-year institution committed to student success, lifelong learning, and enrichment of the quality of life in the region it serves.

Vision

PHCC aspires to be nationally recognized as an exemplary learning college.

Core Values

PHCC upholds shared core values that guide the college, define its identity, and endure as constant ideals in a changing global society. As a community of teachers and learners, we value:

1. Excellence. We strive for excellence in instruction and service by upholding high academic and professional standards, providing a quality educational environment, and continuously seeking improvement in all aspects of our work.
2. Inclusiveness. We embrace inclusiveness of people and ideas by respecting the diversity and dignity of each individual, treating all with fairness and equity, recognizing the unique contributions of all individuals, and promoting tolerance, appreciation, and understanding of alternative ideas, beliefs, and cultures.
3. Innovation. We pursue excellence in teaching and learning through institutional encouragement and support of innovation, creativity, experimentation, imagination, originality, entrepreneurial spirit, and visionary leadership.
4. Integrity. We work together to achieve our mission by demonstrating high standards of ethical conduct and celebrating honesty, openness, and trust as foundations to our relationships in the community.
5. Student Centered Learning. We believe that students are the primary reason we exist, and our purpose is to meet their needs, aspirations, and goals.

Types of Programs Offered

In order to fulfill the mission and vision, the college offers programs of instruction in:

Occupational/Technical Education. The occupational and technical programs are designed to meet the increasing demand for technicians, semi-professional workers and skilled craftsmen for employment in industry, business, the professions and government. The curricula are planned primarily to provide workers for the region served by the college.

College Transfer Education. College transfer programs include college freshman and sophomore courses in the arts and sciences and in pre-professional education designed to meet standards acceptable for transfer to baccalaureate degree programs in four-year colleges and universities.

Developmental Education. A developmental education program is offered to prepare individuals for admission to an applied science and engineering technology curriculum or to a
college transfer curriculum of the college. The program is designed to assist the individual with the development of the basic skills and understandings necessary to succeed in other college programs.

Middle College is a program for individuals between the ages of 18 and 24 who do not have a high school diploma or GED. The program allows students to increase their income and employability by simultaneously pursuing a GED, community college education, and a workforce certification in a college environment. In addition, students receive academic and career readiness training.

Specialized Community Services. The facilities and personnel of the college are available for specialized services to meet cultural and educational needs of the region. These services include special programs, cultural events, workshops, meetings, lectures, conferences, seminars and community projects designed to provide a variety of cultural and educational opportunities.

General Education. General education encompasses the common knowledge, skills, and attitudes required by each individual to be more effective as a person, a worker, a consumer and a citizen. VCCS degree graduates will demonstrate competency in the following general education areas:

1. Communication: A competent communicator can interact with others using all forms of communication, resulting in understanding and being understood. Degree graduates will demonstrate the ability to:
   a. understand and interpret complex materials;
   b. assimilate, organize, develop, and present an idea formally and informally;
   c. use standard English;
   d. use appropriate verbal and non-verbal responses in interpersonal relations and group discussions;
   e. use listening skills;
   f. recognize the role of culture in communication.

2. Critical Thinking: A competent critical thinker evaluates evidence carefully and applies reasoning to decide what to believe and how to act. Degree graduates will demonstrate the ability to:
   a. discriminate among degrees of credibility, accuracy, and reliability of inferences drawn from given data;
   b. recognize parallels, assumptions, or presuppositions in any given source of information;
   c. evaluate the strengths and relevance of arguments on a particular question or issue;
   d. weigh evidence and decide if generalizations or conclusions based on the given data are warranted;
   e. determine whether certain conclusions or consequences are supported by the information provided;
   f. use problem solving skills.

3. Cultural and Social Understanding: A culturally and socially competent person possesses an awareness, understanding, and appreciation of the interconnectedness of the social and cultural dimensions within and across local, regional, state, national, and global communities. Degree graduates will demonstrate the ability to:
   a. assess the impact that social institutions have on individuals and culture-past, present, and future;
   b. describe their own as well as others’ personal ethical systems and values within social institutions;
   c. recognize the impact that arts and humanities have upon individuals and cultures;
   d. recognize the role of language in social and cultural contexts;
   e. recognize the interdependence of distinctive worldwide social, economic, geo-political, and cultural systems.

4. Information Literacy: A person who is competent in information literacy recognizes when information is needed and has the ability to locate, evaluate, and use it effectively. (adapted from the American Library Association definition)

   Degree graduates will demonstrate the ability to:
   a. determine the nature and extent of the information needed;
   b. access needed information effectively and efficiently;
   c. evaluate information and its sources critically and incorporate selected information into his or her knowledge base;
   d. use information effectively, individually or as a member of a group, to accomplish a specific purpose;
   e. understand many of the economic, legal, and social issues surrounding the use of information and access and use information ethically and legally.

5. Personal Development: An individual engaged in personal development strives for physical well-being and emotional maturity. Degree graduates will demonstrate the ability to:
   a. develop and/or refine personal wellness goals;
   b. develop and/or enhance the knowledge, skills, and understanding to make informed academic, social, personal, career, and interpersonal decisions.

6. Quantitative Reasoning: A person who is competent in quantitative reasoning possesses the skills and knowledge necessary to apply the use of logic, numbers, and mathematics to deal effectively with common problems and issues. A person who is quantitatively literate can use numerical, geometric, and measurement data and concepts, mathematical skills, and principles of mathematical reasoning to draw logical conclusions and to make well-reasoned decisions. Degree graduates will demonstrate the ability to:
   a. use logical and mathematical reasoning within the context of various disciplines;
   b. interpret and use mathematical formulas;
   c. interpret mathematical models such as graphs, tables and schematics and draw inferences from them;
   d. use graphical, symbolic, and numerical methods to analyze, organize, and interpret data;
e. estimate and consider answers to mathematical problems in order to determine reasonableness;

f. represent mathematical information numerically, symbolically, and visually, using graphs and charts.

7. Scientific Reasoning: A person who is competent in scientific reasoning adheres to a self-correcting system of inquiry (the scientific method) and relies on empirical evidence to describe, understand, predict, and control natural phenomena. Degree graduates will demonstrate the ability to:
   a. generate an empirically evidenced and logical argument;
   b. distinguish a scientific argument from a non-scientific argument;
   c. reason by deduction, induction and analogy;
   d. distinguish between causal and correlational relationships;
   e. recognize methods of inquiry that lead to scientific knowledge.

PHCC Foundation

The Patrick Henry Community College Foundation is a not-for-profit foundation organized under Virginia law and is fiscally and organizationally separate from the college. Its purposes are to enhance community awareness of Patrick Henry Community College; to secure private contributions, bequests, and donations; and to account for, manage, and help appreciate monies or property submitted to the foundation.

The Foundation Board of Directors is composed of people from the college service area who represent positive leadership and community influence and who have expressed an interest and desire to use their influence on behalf of the college through the foundation.

Purpose

The goals and objectives of the foundation include these activities:

- Support the programs of PHCC.
- Help to foster better understanding of the college and secure wide participation in cultural and community activities.
- Encourage potential students to attend the community’s college.
- Raise support needed for students that cannot be funded by public money.
- Provide a means of a perpetual trusteeship of capital funds donated or to be donated to the college by individuals or organizations for programs or activities of benefit to the college and its community.
- Enhance the quality of education through acquisition of state-of-the-art equipment in academic and occupational-technical programs.
- Recognize and promote outstanding teaching and leadership in college activities.
- Develop special capital projects and facilities.
- Raise support for special projects relating to the college which cannot be funded by public money.
- Undertake any other activities that may be to the benefit of PHCC and its community.

Learning Resource Center

The Learning Resource Center embraces the mission of the college and strives to support and strengthen the art of teaching and the process of learning as they affect students, faculty, staff, and the community. To this end, the Learning Resource Center (LRC) provides library, and instructional media services and a comprehensive learning assistance program for students, faculty, and staff. Many of the services and functions of the LRC are open to community patrons. The LRC provides a broad base of services and materials reflective of user needs. Wireless Internet access is available throughout the library and Learning Resource Center. LRC staff members assist patrons in finding needed information, services, or equipment. The LRC has designed its functions to help students learn and teachers teach.

Lester Library

The Lester Library provides a diverse collection of print and non-print resources, including books, periodicals, microforms, videos, DVDs, e-books, as well as access to over 100 full-text and bibliographic databases. Trained library staff is available to provide bibliographic instruction and research assistance both to students and community users. Registered students are able to access online resources from off-campus via a proxy server. Students needing research assistance from off-campus sites can request help by e-mail, fax or phone. For after-hours or off-campus assistance, students can chat with a VCCS reference librarian through LRC Live, a Web-based reference service.

Loan Policy. The current loan policy is four weeks for books and 48 hours for videotapes and DVDs. In most cases, items may be renewed once, prior to the due date, either by phone or in person. Renewals are not allowed on overdue material or material on hold. Periodicals, reserve materials, and reference books are for in-library use only.

Photocopy and Microfilm Printer Machines. A coin-operated copy machine and a microfilm/microfiche reader printer are located on the second floor of the LRC. Photocopy charges are 10 cents per page. Microfilm/microfiche reader printer copies are free. The library cannot provide change.

Library Card. All patrons must present a library card in order to check out materials. The first card is issued free. However, a $1 fee is charged for replacement of a lost or damaged card. To replace a card, the student must pay at the business office and bring a receipt to the library circulation desk.

Overdue Policy. Although the library does not charge fines for overdue material, patrons are encouraged to return library material on or before the due date. Patrons who have library material checked out beyond a specified due date will be notified in writing or through e-mail by the LRC staff. Students with overdue material will not be allowed to check out
additional material, receive transcripts, certificates, diplomas, or degrees; nor will they be allowed to re-register. Community patrons with overdue material will not be allowed to check out additional library materials until the overdues have been cleared. All patrons with overdue materials may be subject to action taken by the business office in accordance with VA Code§ 42.1-74. Habitual abuse of library policies may result in library privileges being suspended.

Lost or Damaged Materials. The cost for lost, stolen, or damaged library material will be assessed based on replacement value of the same or like materials.

Virtual Library of Virginia (VIVA). VIVA is a consortium of the 39 state-assisted, colleges and universities, the 32 independent Virginia institutions, and the Library of Virginia. VIVA’s mission is to provide enhanced access to library and information resources and facilitate cooperation among institutes of higher learning. Through its VIVA membership, the Lester Library makes available a variety of full-text and bibliographic databases, free to students, faculty, staff and community researchers. Details about VIVA and a list of its current database titles are available at http://www.vivalib.org/

Interlibrary Loans. As a member of the OCLC interlibrary loan network, the library can borrow materials from other OCLC member libraries within the state at no charge. Request for out-of-state materials are honored, where possible, although fees and restrictions may apply. To provide high quality document delivery, the library uses Ariel and Odyssey Internet transmission software. For additional information regarding library policies and resources, please see the Lester Library Web page.

LRC Testing Center

Testing is provided for local PHCC students taking distance learning courses through the LRC Testing Center. The Testing Center also provides legitimate make-up testing for students in face-to-face classes as instructed by individual faculty members and will proctor tests for other community college and senior institutions free of charge. Students living outside the Martinsville and Henry County area must find an acceptable proctor, fill out a Student-Proctor form, and submit to the Testing Center for approval at least one week prior to their test. Appointments are not necessary for students taking tests in the Testing Center; however, it is the student’s responsibility to allow an adequate amount of time to complete a test before closing time. Tests will not be given out one hour before closing time. Current semester hours are posted on the college website. A picture ID is required before any test will be given.

Distance Learning

PHCC offers a wide variety of distance learning courses, as well as a number of programs which are available totally in a distance learning format. The majority of the distance learning courses are web-based; however, the college delivers a few courses via compressed video or video conferencing. The compressed video courses are delivered to the college’s off-campus sites and to other institutions within the Virginia Community College System. Web courses allow students to access the course using the Internet. Distance learning courses maintain the same integrity as traditional courses, but provide the course instruction in an alternate format. Distance learning courses are coordinated through Division of Technology. Students are encouraged to complete an orientation to distance learning prior to beginning any of the college’s web-based courses.

Student Support Services Program

Student Support Services is a federally funded grant program (TRIO Program) through the U.S. Department of Education. The Student Support Services office is located on the first floor of the Learning Resource Center Room 109. Students must apply
to participate in the program and meet eligibility criteria. Eligible participants include first generation and low income students and students with disabilities. Free services for program participants include: tutoring; academic advising; financial aid assistance; study skills assistance; cultural and social activities; assistance with transferring to a four-year college or university, including campus visits; and support services and accommodations for a disability (physical, mental, or learning).

**Services for Students with Disabilities**

Support services and accommodations are available, when necessary, appropriate, and reasonable, to allow the full participation of students with disabilities in all programs and services of the college. Disability-related support services may include, but are not limited to, the following: facilitating physical accessibility on campus; academic degree or course requirements may be modified in certain instances to ensure full participation; alternate methods of testing and evaluation are available for students whose disability require such methods; and, auxiliary aids and services are available for students with impaired sensory, manual, speaking, or processing skills.

Student Support Services is responsible for coordinating all disability-related support services. Students with disabilities are encouraged to contact a counselor in Student Support Services as early as possible in order to be eligible to receive and arrange for accommodations. In addition, Student Support Services will facilitate a student’s communication with instructors, when necessary, regarding disclosure of his or her disability and accommodations needed.

Accessible parking is available in all visitor and student parking lots on campus. An appropriate vehicle tag or permit from the Department of Motor Vehicles is required for these spaces. Inquiries about the college’s and student’s rights and responsibilities regarding persons with disabilities may be directed to the 504/ADA Coordinator located on the first floor of the Learning Resource Center, (276) 656-0257. Additional information regarding the college’s disability policies and procedures may be found at the PHCC college web site.

**Student Services**

The Student Services Division exists to help meet the needs of students. Counseling staff assist students in making informed decisions regarding their vocational, educational and personal plans. As a part of this assistance, counselors provide appropriate tests, inventories and occupational and educational information, as well as employment, financial aid, and personal referrals. These services are provided in the Walker Fine Arts/Student Center.

**Individual student assessment.** The Integrated Advising, Testing, and Career Center promotes active curricular and course selection, decision making, lifelong learning, and career development skills. Key services provided through the Center include computerized placement testing, academic counseling, online services for career exploration, online resources for career development, online job posting, and retention services such as the faculty-based Early Warning Program, Peer/Faculty Mentoring, and development of career and transfer specific courses aimed at "reality counseling" related to transfer and career planning issues. In an effort to acquaint entering students with a general knowledge of their academic strengths and weaknesses, a planned assessment program is coordinated by Student Services staff. Students entering any degree, diploma or certificate program are required to take the college placement tests and are encouraged to do this as early as possible, preferably prior to or during SDV 108. Additionally, students must take the college placement tests before enrolling in many courses such as mathematics, English, accounting, psychology, sociology, history, many computer classes, economics, biology courses, etc. (see developmental prerequisites on pages 28, and 119-120). The tests are administered periodically on campus in The Integrated Advising, Testing, and Career Center and, when requested, in the local high schools and in off-campus locations. Test results are used for counseling and placement rather than for college admission purposes. Results of the tests are discussed with the students during individual or group sessions following on-campus tests. A prospective student who does not receive an official report before enrolling should check with The Integrated Advising, Testing, and Career Center for a review of test results. Students who need developmental work to obtain appropriate skills and competencies will be advised of the requirements and availability of these courses. Careful and appropriate interpretation of all test results is provided for each student. Student Services staff also provide assessment tools for career interest, personality characteristics and other special concerns.

**Orientation.** PHCC offers a general orientation session in the summer of each year to acquaint new students with the purposes and programs of the college. New students should initiate a meeting with a college counselor to discuss interests, placement test results and curriculum choices. SDV 108 “College Survival Skills” course offers each student an opportunity to meet individual needs and receive academic credit toward graduation. SDV 108 should be completed within the first 15 credit hours of enrollment, and, for developmental students, in their first semester of enrollment.

**Pre-college counseling.** Student Services staff cooperate with local high schools to schedule appropriate activities for students and counselors to inform them of the programs available. All youth and adults in the service region are invited to visit and/or request information concerning PHCC through the Student Services office.

**Career Counseling Services.** Career counseling services available to new students include computerized career exploration programs, career inventories and personality tests. These services assist students in choosing a career path that is
financially rewarding and personally satisfying. The Integrated Advising, Testing, and Career Center has a number of online resources which provide information on job outlook forecasts, job descriptions, and salary information about a number of occupational opportunities. Career inventories and tests provide important information about individual interests, abilities, values, likes and dislikes, and personality strengths and traits. Career inventories and tests used in the Career Center include Virginia Wizard, CareerScope, and Virginia View. All of these assessment tools create a “snapshot” of each individual as he or she relates to the world of work. The results are explained in a caring, open environment.

*A student who has been convicted of a felony or has a poor credit history may not be employable in their chosen career field. For additional information, contact the Advising Center in the Walker Fine Arts/Student Center.

Transfer preparation. College transfer programs are designed to allow students to transfer to four-year colleges and universities. In addition, Patrick Henry has formal articulation agreements with several institutions to make transfer easier for the student. A counselor can help answer questions about articulation agreements and transfer processes. For information about the Guaranteed Admissions Agreements and other transfer agreements, see the Student Handbook.

Student activities. A student activities program adds to the instructional program by providing a variety of meaningful educational, cultural, social, and civic experiences. The student fee supports this program. The college encourages student participation in extra-curricular activities on campus, and an activity period is provided weekly as a part of the regularly scheduled program. Students should consult the Student Handbook section of the college catalog on all student organizations and contact the Student Activities office in the Walker Fine Arts/Student Center to find out how to become an active member of a campus group.

Faculty advisors. Faculty advisors are appointed to help students complete programs and work through other problems that can affect student performance. Faculty advisors are assigned to all students according to the area of study. New students are informed who their advisors are when they are accepted to the college or when changing curriculum. Counselors serve as primary advisors for most non-curricular students and help advise some part-time students. Students who wish to change their majors may obtain necessary applications at the admissions office and should meet with the assigned advisor. If changes are approved, a new advisor is assigned. See the Student Handbook for detailed information about the role of faculty advisors. Students may only submit a “Student Information Change Form” to change curriculum two times per semester, AND students must be admitted with an eligible curriculum prior to the semester beginning in order to receive financial aid.

Personal problems. Complex problems may suddenly confront a student in situations presented in college; a professional person committed to an individual’s well-being and future success may be needed to assist in reaching a satisfactory decision. This is the function of a counselor. Sessions with a counselor are matters of strict confidence. Our on-campus counselor is located in the Admissions and Counseling office in the Walker Fine Arts/Student Center. Should a personal problem require assistance above and beyond that which the counselor feels prepared to handle, the student will be referred to an appropriate professional or agency that may be able to help more effectively.

MHC After 3. MHC After 3 is a collaborative of many youth serving community partners dedicated to providing exemplary youth development services. MHC After 3 programs serve middle and high school youth in the Martinsville Henry County community during out of school time hours. Students benefit from daily professionally mentored arts, academics, athletics, and personal development programs. MHC After 3 funders include: 21 Century Community Learning Centers, National Science Foundation via Educational Equity Centers, Martinsville Area Community Foundation, The Harvest Foundation, private donors, and in-kind contributions from community partners, Patrick Henry Community College, Martinsville City Public Schools, and Henry County Public Schools.

Upward Bound. Upward Bound and Upward Bound Math and Science provide free high quality year round programming to 130 area high school students in preparation for college entrance and success. Advisors provide weekly sessions to build student capacity for academic, career, financial, and career success. In addition to college, cultural and career exploration activities, students hone leadership, academic, and student success skills through academic year and a 6 week intensive summer discovery institute. These programs are funded through competitive grants funded through the United States Department of Education, each in the amount of $262,500 annually.

Admission Information

Individuals are eligible for admission to the community college if they are high school graduates or the equivalent, or if they are eighteen years of age or older and able to benefit academically from study at the community college, as demonstrated by assessment scores in reading, writing, and mathematics. Minimum scores are noted in the chart below:

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<th>VPT</th>
<th>COMPASS</th>
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<tbody>
<tr>
<td>Reading</td>
<td>ENF 1</td>
<td>62</td>
<td>35</td>
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<tr>
<td>Writing</td>
<td>ENF 1</td>
<td>32</td>
<td>35</td>
</tr>
<tr>
<td>Math</td>
<td>MTE 1</td>
<td>25</td>
<td>33</td>
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Exceptions to this policy may be made by the college president only for documented reasons.

The college reserves the right to evaluate and document special cases and to refuse or revoke admission if it is determined that the applicant or student poses a threat, is a potential danger, is significantly disruptive to the college community, or if such refusal or revocation is considered to be in the best interest of the college. The college also reserves the right to refuse admission for students who have been dismissed, expelled or suspended from, or determined to be a threat, potentially dangerous or significantly disruptive by another college. PHCC will not accept students dismissed from another college within the Virginia Community College System. Students dismissed from another college within the VCCS for misconduct, exhibiting threatening behavior, or who have been determined to be a potential threat will be denied admission to PHCC. Students whose admission is revoked after enrollment must be given due process.

When enrollments must be limited for any curriculum or course, priority must be given to qualified students who apply for admission to the program within a reasonable length of time before registration. Admission priorities are: (1) Virginia residents–legal domiciliaries, and (2) out-of-state and (3) foreign students.

**Admission to Specific Curricula or Courses**

In addition to general admission requirements, other specific requirements may be prescribed for any curriculum. Among the criteria generally considered in determining student eligibility for admission to a curriculum are the student’s educational and occupational experiences and other reasonable standards to insure that the student has the potential to meet program requirements. Specific requirements for each curriculum are listed in the Curricula of Study section of this catalog. People who do not initially meet the requirements for a specific course or curriculum may be eligible for entrance after developmental prerequisites have been completed.

Regular full- or part-time students who are entering a specific curriculum may be required to take the college placement tests unless sufficient appropriate course work has been completed at another college. The test battery is administered at the college prior to registration. Results are discussed with the student by a counselor and used for course placement and curriculum choice.

**Admission of Students on the Sexual Offender Registry**

Section 23 - 2.2:1 of the Code of Virginia requires that the VCCS send enrollment information to the Virginia State Police concerning students to institutions of higher education. This information is transmitted electronically and compared against the Virginia Criminal Information Network Crime Information Center Convicted Sexual Offender Registry. Language on the

web application informs students that their information is being transmitted to the State Police. In the event that the State Police determine that an applicant to Patrick Henry Community College is listed on the Sex Offender Registry, the State Police will notify PHCC. When the college receives such a notification, the following procedures apply:

A. The applicant will be denied initial admission to PHCC and must appeal to the Dean of Student Services. The College reserves the right to evaluate special cases and to refuse admission to students when considered advisable in the best interest of the college.

B. If the applicant registers for classes and becomes a student before the college receives notification from the State Police, the student will be notified immediately that an appeal must be made to the Dean of Student Services within 7 calendar days. If no appeal occurs within 7 days, he/she will be dropped from classes immediately and will receive a refund.

**Appeal Process for Denial of Admission or Withdrawal for Convicted Sex Offender**

When a convicted sex offender is denied initial admission to or is administratively dropped from classes at Patrick Henry Community College, he/she may invoke the following appeal process:

A. The applicant or withdrawn student will receive a letter from the Dean of Student Services stating his/her denial of admission or potential administrative drop from classes.

B. The applicant/student may write a letter of appeal to the Dean of Student Services in which he/she provides the following information:

1. Disclosure of the nature of the offense for which he/ she has been convicted;
2. Justification for consideration of admission/reinstatement;
3. Statement acknowledging his/her understanding that his/her identity and status as a convicted sex offender will be publicized on the college campus in accordance with federal and state law if he/she is admitted or reinstated. Note: If a student is appealing a denial of admission or an administrative drop, he/she must submit the letter of appeal to the Dean of Student Services within seven (7) calendar days of the administrative drop.

C. The Dean of Student Services will review the information submitted and make a decision within fourteen (14) calendar days of receiving the letter of appeal.

D. The Dean of Student Services will inform the applicant/dropped student by letter of the decision of the appeal. The decision of the Dean shall be final.

**Admission Procedures**

**Curricular Admission**

**Application.** Before final action may be taken on an application, a student seeking admission to any curriculum of the college must submit:

1. A completed “Application for Admission” with social security number requested;
2. Official high school transcripts or GED certificate if: You plan to enter the program in either Nursing, EMT-Intermediate, Paramedic, or Licensed Practical Nursing. There are no exceptions.
• NOTE: Applicants for financial aid should be aware that some financial aid programs may require that the high school transcript/GED certificate be submitted without exception before an award may be made.
• NOTE: If you will not have finished high school or GED before enrolling, specific testing may be required for admission evaluation. Contact the Admissions Office for details.
• NOTE: Students must be admitted into an eligible curriculum prior to the semester.
• NOTE: Graduates who complete secondary school in a home school setting must provide a graduation date and may be required to provide documentation of coursework.

3. Official college transcripts for all previous institutions if:
   a. you plan to enter the degree program in either Nursing or EMT-Paramedic or the certificate in Licensed Practical Nursing.
   b. you wish to receive transfer credit. The VCCS Student Information System academic records will be sufficient for colleges within the Virginia Community College System. Please fill out the VCCS Transfer Form in the Counseling and Admissions Office.
• NOTE: If you can transfer at least 20 semester hours to PHCC from a 4-year college or university, you may be exempt from completing SDV 108, College Survival Skills.

4. Other material when applicable.
   a. Nursing (RN and LPN) and EMT-Paramedic applicants need to consult specifics in the Nursing, LPN, or EMT-Paramedic section of the college catalog.
   b. Additional information as stated by the college for admission to specific programs or curricula.

5. International students – Patrick Henry is a two-year, non-residential, commuter college. We welcome applications from qualified international students who meet our academic, financial, and language requirements. Before we are able to process a request for admission to the college and issue a form I-20 for the F-1 Visa, the following documents must be submitted 60 days prior to the beginning of the semester in which you wish to enroll: completed PHCC application, proof of the equivalent of an American high school diploma, official TOEFL scores, verification of financial support sufficient to enroll as a full time student without the need to work off campus, proof of health insurance coverage, a doctor’s statement certifying that you are in good health, a brief written statement of why you want to attend PHCC, and a photocopy of your passport. After the student’s I-20 is issued, the student must complete the college assessment test (VPT), enroll in a minimum of 12 credit hours in a transfer program, and file a copy of your passport and I-94 card with the admissions office. Students are allowed to attend Patrick Henry for two years. International students are not able to sustain employment at the school or in the community. International students are not allowed to receive financial aid.

Foreign Credentials Evaluation Services

Educational Credential Evaluators, Inc.
P.O. Box 514070
Milwaukee, WI 53202-0970
Phone: (414) 289-3400
Web: www.fis-web.com

Foundation for International Services, Inc.
21540 30th Drive SE, Suite 320
Bothell, WA 98201
Phone: (425) 487-2245 FAX: (425) 487-1989
Web: fis-web.com EMAIL: info@fis-web.com

Global Credential Evaluators, Inc.
P.O. Box 36
28 Westhampton Way
Richmond, VA 23173
Phone: (804) 639-3660 FAX: (512) 528-9293
Web: www.gcevaluators.com

World Education Services, Inc.
P.O. Box 5087
Bowling Green Station
New York, NY 10274-5087
Phone (212) 966-6311 FAX: (212) 739-6100
Web: www.wes.org E-MAIL: info@wes.org

6. After application materials have been submitted, you should speak with a counselor about additional procedures (if any) for applying to a specific degree or certificate program. All students who enroll in a curriculum should expect to take the placement test so they can be placed in the appropriate level courses. Transfer students with previous appropriate college success may not need to take the placement test and should ask a counselor to evaluate that need. If you haven’t enrolled in a credit class at PHCC for at least three years, you will need to reapply for admission.

7. Possessing, brandishing, or using a weapon while on any college or VCCS office property, within any college or VCCS office facilities, or while attending any college or VCCS educational or athletic activities by students is prohibited, except where possession is a result of participation in an organized and scheduled instructional exercise for a course, or where the student is a law enforcement professional. By proceeding with the application process, you acknowledge and agree to abide by this policy if accepted to PHCC.

8. Apply for financial aid early!

Non-Curricular Application
Applicants for non-curricular admission must submit a completed “Application for Admission” with social security
Classification of Students

Students are classified according to their educational goals, the time devoted to their education, and the number of credits completed.

Curricular student
A student who has been officially admitted to one of the college associate degree, certificate, or career studies certificate programs is classified as a curricular student.

Non-curricular student
A student, who is not enrolled in a curriculum, either by individual choice or in accordance with college policy, is classified as a non-curricular student. Non-curricular students are not eligible for financial aid, AND students must be admitted into an eligible curriculum prior to the beginning of the semester in order to receive financial aid.

Full-time student
Students are considered full-time students if they are enrolled in 12 or more credits of course work.

Part-time student
Students are considered part-time students if they are enrolled in fewer than 12 credits of course work.

Freshman
Students are classified as freshmen until they have completed 30 credits of study in a designated curriculum. Transferred credits are included if they apply toward meeting requirements of the curriculum.

Sophomore
Students are classified as sophomores when they have completed 30 or more credits of course work in a designated curriculum. Transferred credits are included if they apply toward meeting requirements of the curriculum.

Senior Citizen
Students are classified as senior citizens if they are 60 years of age or older and enrolled in credit or non-credit courses without tuition charge under provisions of the Senior Citizen Higher Education Act of 1974, as amended.

Senior citizens are encouraged to enroll in college classes. Citizens of Virginia who are 60 years of age or older may be eligible to receive special benefits under the provisions of the Senior Citizens Higher Education Act of 1974, as amended. On the last day of registration, eligible senior citizens may enroll tuition-free in credit or noncredit courses on a space-available basis contingent upon a minimum of twelve (12) paying students registering for the course(s).

To be eligible for free tuition and comprehensive fees for credit courses a person must:
- be 60 years of age or older prior to the semester of enrollment;
- be a legal resident of Virginia;
- have had a taxable income not exceeding $15,000 for income tax purposes for the year preceding enrollment; and
- must be admitted to the college as a student.

To be eligible for free tuition for audit of credit courses, or for taking non-credit courses (not to exceed three courses per semester), a person must be:
- 60 years of age or older prior to the semester of enrollment;
- a legal resident of Virginia; and
- admitted to the college as a student.

Interested senior citizens should contact the admissions office for information and required application materials.

Transfer Students

Usually, a student transferring from another college who is eligible for return to the last college will be eligible for admission to PHCC. If a student is ineligible to return to a curriculum at a previous college, generally the student will not be allowed to enroll in the same curriculum at PHCC until one semester elapses or until the student completes an approved developmental education program. Special conditions may be imposed for admission.

Students transferring from other colleges must submit official transcripts for ALL previous college or high school work as outlined above (Admissions Procedures). If possible, transfer credits will be evaluated to determine the student’s standing before registration for classes, but not before ALL transcripts are received. See section entitled “transfer credit” for more information.

Transfer between Curricula

During the course of study, a student may desire to change to another curriculum. The student should discuss the intended change with the faculty advisor or a counselor, who will advise the student about the requirements and effects of the change.

The student’s academic history will be evaluated by the appropriate college official to determine what courses can be applied to the new curriculum. No change in curriculum is official until a “Student Information Change Form” has been submitted to, and approved by, appropriate Admissions Office personnel. Students may only submit a “Student Information Change Form” to change curriculum two times a semester, AND students must be admitted into an eligible curriculum prior to the semester beginning in order to receive financial aid.

High School Students

Students attending high school who wish to attend college concurrently to take credit classes must coordinate consideration with the school guidance counselor and the
college’s Accelerated Learning Coordinator. The admissions office will evaluate the merits of each case individually. Placement tests may be required depending on desired courses.

**Dual Enrollment.** Although high school and home school students are normally not qualified for general admission, colleges may offer admission to those students who meet additional criteria. Dual enrollment is restricted to high school juniors and seniors and home school students studying at the high school junior or senior levels. Home school students must also provide a copy of a home school agreement approved by the school district or a letter from the local school board or a copy of the letter filed by the parent/legal guardian declaring home school for religious exemption. Documentation of parental permission is required for all dual enrollment students.

Because admitting freshmen and sophomores is considered exceptional, the college ready status of each prospective freshman and sophomore student will be treated on a case-by-case basis. Formal approval by the college president is required for admitting freshmen or sophomores.

**All students admitted under this section must demonstrate readiness for college by meeting the criteria below.**

**Students enrolling in a dual enrollment course must meet all course pre-requisites.**

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<tr>
<th>Admission Criteria for Transfer Courses</th>
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<td><strong>Virginia Placement Test (VPT)</strong></td>
<td><strong>COMPASS</strong></td>
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<td><strong>English / Writing</strong></td>
<td>ENG 111</td>
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<tr>
<td><strong>Mathematics</strong></td>
<td>MTE 1</td>
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<td>MTE 1</td>
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</tbody>
</table>

**Readmission After Suspension or Dismissal**

Students desiring readmission after suspension or dismissal should contact the admissions office for appropriate application materials and counseling. Such applications should be submitted well in advance of the beginning of the college semester.

**Academic Renewal Policy**

Students who return to the college after a separation of five (5) full years or more may petition for academic renewal. The request must be submitted to the Admissions and Records Office by completion of the “Academic Renewal Petition Form”.

If a student is awarded academic renewal, “D” and “F” grades earned prior to re-enrollment will remain on the student’s official records and transcripts but be deleted from the cumulative and curriculum grade point average (GPA), subject to the following conditions:

1. Prior to petitioning for academic renewal the student must demonstrate a renewed academic interest and effort by earning at least a 2.5 GPA in the first twelve (12) semester hours (graded A, B, C, D, F) completed after re-enrollment.
2. All grades received at the college will be a part of the student’s official transcript.
3. Students will receive degree credit only for courses in which grades of C or better were earned prior to academic renewal, providing that such courses meet current curriculum requirements.
4. Total hours for graduation will be based on all course work taken at the college after readmission, as well as former course work for which a grade of “C” or better was earned, credits transferred from other colleges or universities, or awarded at PHCC by other approved methods.
5. The academic renewal policy may be used only once and cannot be revoked once approved.
6. An “Academic Renewal” notation will be made on the permanent record.
7. The granting of Academic Renewal does not affect any previous academic, financial, or administrative determination made by the college.
8. Other institutions/agencies may not utilize this policy in evaluating the student’s record.

A thorough explanation of the academic renewal policy and analysis of an individual student’s situation and eligibility may be obtained from the Coordinator of Admissions and Records. If a student disagrees with the decision of the coordinator in administering the policy, an appeal may be filed by following the grievance procedure outlined in the student handbook.

**Cancellation of Classes Due to Insufficient Enrollment**

The college may cancel any class that is deemed to have insufficient enrollment (as determined by college policy) at the beginning of each semester.
Domicile Determination and Appeal Procedures

The college makes an initial determination of a student applicant’s eligibility for in-state tuition rates (domiciliary status) based on the information supplied on the “Application for Admission.” This determination is made under provisions of Section 23-7.4 of the Code of Virginia. Additional information, clarification or supporting evidence may be required.

A Virginia resident is one who has been domiciled in and has been an actual bona fide legal resident of Virginia and paid taxes to Virginia for one full year prior to enrolling.

Domicile involves more than presence in Virginia for a one-year period. The burden of proving domicile rests with the applicant. The intent of domicile is evidenced through the filing of state income tax, voter registration, automobile registration, driver’s license, and the like. All applicants to the college who are claiming entitlement to Virginia in-state tuition rates must complete the domicile items on the application for admission.

If a student disagrees with the determination, an appeal may be filed with the Coordinator of Admissions and Records within 30 days of the notice of determination. The coordinator may require additional information, clarification or supporting evidence. Once all required information is received, the coordinator will review the case and notify the student of the decision within 10 working days. If the student disagrees, an appeal may be filed with the Domiciliary Status Appeal Committee within 10 days. The committee may require additional information before making a decision within 20 working days after receipt of all information. If the student is denied in-state tuition privileges by the final decision, an appeal may be made to the circuit court within 30 days of receipt of the committee’s decision. If a student initially classified as out-of-state wishes to have that status re-evaluated for a later semester, the student must submit an updated “Application for Virginia In-state Tuition Rates” to the Admissions office. That application MUST be submitted BEFORE the beginning of the term for which in-state tuition rate reclassification is sought.

Tuition and Fees

The State Board for Community Colleges establishes the cost for tuition each year. Tuition for 2014-15 is $122.50 per credit hour for in-state students and $299.10 per credit hour for out-of-state students. Tuition rates and all fees are subject to change as authorized by the State Board for Community Colleges. Such changes will be retroactively effective for early bird registrants.

Payment of tuition also enables the student to use the library, bookstore, student lounge and other facilities at the college. Students are expected to pay charges for any college property that they damage or lose (such as laboratory or shop equipment, supplies, library books and other materials). Formal registration takes place on the dates listed in the calendar. A student is not officially registered and is not allowed to attend class until tuition and fees have been paid.

Refund Policy

Students are eligible for a refund for those credit hours dropped during the same add/drop period within which the credit hours were added. The refund will be at the per-credit rate. A refund is given for the difference between (1) the student’s tuition charges and (2) revised tuition charges using the per-credit rate calculated from the number of credit hours in which the student remains enrolled. Students who withdraw from all classes by the refund date will also receive a refund of the student fee. Refund checks are mailed directly to students from the treasurer’s office in Richmond.

Student Fee

A student fee of $2.33 per credit hour is charged to all students. This fee is used to cover the cost of student activities and cultural events; placement, career assessment, learning skills and graduate core competency testing; tutoring and lab maintenance; transcripts and record maintenance; and parking maintenance, construction and site improvements.

Technology Fee

A $7.50 fee is charged to all students for each credit hour of enrollment. The State Board for Community Colleges adopted the technology fee to finance major improvements in information technology at Virginia’s community colleges. The funds will be used along with revenue from additional sources to implement a state-wide program of technology improvements designed to allow faculty members to use technology to improve instruction and to improve efficiencies in delivering instructional and student support services.

Capital Fee

A fee of $15.50 is charged to all out-of-state students for each credit hour of enrollment. This fee is used to help offset debt service on bonds issued for capital construction.

Special Fees

Some classes require special materials such as uniforms, specialized equipment and tools (electronics, welding, art, therapeutic massage, etc.) that will be the property of the student. These materials are purchased by the student and paid for at the time of purchase. Consult with your advisor or course instructor concerning these special costs.
Student Testing Fees

Each student may be required to pay a charge for certain tests, such as examinations administered to award advanced placement credit. Fees vary with the type of test taken.

Delinquent Accounts

Students will not be permitted to register or graduate, nor will grade reports or transcripts be issued, until all delinquent accounts have been paid in full.

Bad Check Fee

The college must assess a $35 service charge for handling returned checks or dishonored credit card or debit card payments for accounts not in past due collection status. The college must assess a $50 service charge for handling returned checks or dishonored credit card or debit card payments when the account is in past-due collection status. NSF checks not redeemed by the student will not be allowed to register for classes, receive a transcript or grades from the college.

Other Expenses

Books and Materials. Students are expected to obtain their own books, supplies and consumable materials needed in their studies. Items purchased at the bookstore must be paid for at the time of purchase. The estimated cost for those items will average $300 to $400 per semester for a full-time student. Students may be able to reduce this cost by purchasing used books.

Field Trips. Students are expected to pay any expenses, including transportation costs, for participation in field trips; they must also sign a form releasing the college for any liability. If a field trip is a required activity of a course, students will be notified, made aware of additional costs involved, and provided with appropriate substitute assignments if they cannot participate.

Malpractice Insurance. Students enrolled in nursing or other health-related courses that require off-campus hospital or other clinical affiliations are required to obtain individual malpractice coverage.

Financial Assistance

Financial assistance is available to eligible students who need additional resources to meet college costs. A comprehensive assistance program, which includes on and off-campus employment, scholarships, grants, and loans, is available to qualified students.

Most of PHCC’s financial aid programs are awarded to students based on financial need as determined by an analysis of the Free Application for Federal Student Aid (FAFSA) completed by the students and/or parents. Assistance is awarded for one academic year only, but may be renewed yearly if need continues and the student otherwise applies and qualifies. Applications may be completed online at www.fafsa.ed.gov (FAFSA website). Applications for mailing will need to be requested by phone at 1-800-433-3243.

Students must be admitted into an eligible curriculum in order to receive financial aid for that term.

Students must have a high school diploma or a GED to receive Title IV financial aid. Primary sources of assistance are provided by the federal government and include the following programs: Federal Pell Grant (PELL), Federal Supplemental Educational Opportunity Grant (FSEOG), and Federal Work Study Program (FWS). The Virginia Commonwealth Award (COMA), Virginia Guaranteed Assistance Program (VGAP) and Part-Time Tuition Assistance Program (PTAP) are available to Virginia residents. Applications completed and submitted to the financial aid office by June 1 will receive priority.

Types of Financial Aid

Grants are awards based on financial need that do not require repayment. PHCC students may be eligible for the following types of grants:

• Federal Pell Grant (PELL)—Students may apply by completing the Free Application for Federal Student Aid (FAFSA). Under this federal program, students are entitled to financial aid that varies according to the student’s financial need and to the cost of education. The grant is made to students who are enrolled in an eligible program and is prorated according to the number of credits enrolled each semester.

• Federal Supplemental Educational Opportunity Grant (FSEOG) — Federal Pell Grant students with the lowest expected family contribution (EFC) will be eligible for FSEOG of at least $200 from federal funds. All applicants for financial aid who complete a FAFSA and are eligible for the Pell Grant are given consideration for the FSEOG funds if funding is available.

• The Virginia Commonwealth Award (COMA) — This is a state grant that will assist with tuition only. Students who are enrolled at least half time, are domiciliary residents of Virginia, and demonstrate financial need will be considered for this grant if funding is available.

• The Virginia Guaranteed Assistance Program (VGAP) — This grant assists with tuition for students who are entering college for the first time. They must enroll full-time, be graduates of a Virginia high school, have a GPA of at least 2.5 and demonstrate financial need. This grant is renewable if full-time status and GPA of at least 2.0 are maintained.
• The Part-time Tuition Assistance Program (PTAP) assists eligible students who enroll for 1 to 8 credits, who generally, because of their less than half-time status, do not qualify for other forms of financial aid. This grant also assists with tuition only and based upon available funding.

Federal Work Study (FWS) can provide money to eligible students to help with educational costs while attending college. This federally sponsored program provides students part-time employment on the college campus or with off-campus non-profit organizations. Students must be enrolled for at least six credit hours and demonstrate financial need to be considered. Students desiring this form of assistance should contact the financial aid office and fill out the FAFSA.

Loans borrowed are to be repaid according to established guidelines. By accepting a loan, students have a legal responsibility to pay the loan amount as instructed in a promissory note. PHCC does not participate in the Federal Family Education Loan Programs (Federal Stafford, Federal Perkins, and Federal Plus).

Students who may need to consider loans to attend Patrick Henry Community College will need to seek private or alternative student loans. Links are made available under the Financial Aid section of our website for some lender options.

Scholarships Provided funding is available, the PHCC Foundation provides scholarships which are financial awards to students on the basis of grades, community service or other requirements set forth by individual scholarship donors. Gifts from individuals and local community organizations have made the following scholarships possible. They are available to all qualified students enrolled at PHCC. See the PHCC Website for current information.

• Christopher M. Abercrombie Memorial Endowed Scholarship — This scholarship is awarded to qualified students who are graduates of a high school in Martinsville or Henry County and who are enrolled as full-time students in a college transfer program. Preference is given to children of Virginia Mirror Company, Inc. employees.

• Carolyn R. Adams, RN, Nursing Scholarship— This scholarship is awarded to qualified and deserving students who are enrolled in the second year of the RN nursing program. Students must provide a letter of recommendation from a member of the PHCC nursing faculty describing an applicant’s commitment to patient care. Students must maintain a 3.0 GPA.

• Sylvia Adams Nursing Scholarship— This scholarship is awarded to a nursing student who has good academic standing. Preference will be given to students who plan to work in the nursing field in the Henry County area.

• J.D. Bassett, Sr. Endowed Scholarship—This scholarship is awarded to a full-time student who demonstrates financial need. Priority is given to transfer students who reside in Martinsville, Henry or Patrick County. Preference is given to students enrolled in a transfer curriculum.

• Beta Sigma Phi, Virginia Xi Epsilon Chapter Scholarship—This scholarship is awarded to a female student who is 25 years of age or older returning to school. Students must be full-time and maintain a 3.0 GPA. Student cannot be receiving any other scholarships.

• Bill Brammer Memorial Endowed Scholarship— This scholarship is awarded to qualified and deserving full-time students who demonstrate financial need. First priority is given to employees or dependents of employees of Bassett Furniture Company. Students must have and maintain a cumulative GPA of 2.5.

• Steve Branch STEM Scholarship - This scholarship is awarded to a student who is enrolled in the General Engineering Technologies curriculum. Student must be enrolled full time and have a 2.5 GPA.

• H. Earl Bullard Memorial Scholarship— This scholarship is awarded to students residing in the Fieldale area who are at least 25 years of age. Students must demonstrate community involvement and financial need. Students must maintain good academic standing.

• Samuel Byrd and Beatrice Minter May Memorial Endowed Scholarship— This scholarship is awarded to a full-time student enrolled in a degree or certificate program who resides in Fieldale. Students should demonstrate financial need and maintain a 2.0 GPA.

• The Dr. J.W. Clark Memorial Endowed Scholarship— This scholarship is awarded to a qualified and deserving full-time student who expresses the intention of entering a medical field. Students in pre-med, nursing, biological sciences, medical/health technology, or health-related programs are eligible. Students must maintain a 2.5 GPA.

• CMP-HR Electrical Engineering Scholarship— This scholarship is awarded to a student who is a graduate of Patrick County High School and entering PHCC as a first year student. The student must be a resident or native of Patrick County who is enrolling in a transfer curriculum involving Electrical Engineering, maintain a 3.0 GPA, and provide 2 letters of recommendation.

• CMP-HR Human Resources Scholarship— This scholarship is awarded to a student who is a graduate of Patrick County High School and is enrolling as a first year student. The student must be a resident or native of Patrick County and enrolling in a transfer curriculum of Business and Human Resources, maintain a 2.5 GPA, and provide 2 letters of recommendation.

• Gary and Susan Collins Men's Baseball Scholarship - This scholarship is awarded to a student athlete who is in good
standing with the team. Preference is given to a student enrolled full time in a Business curriculum with a 2.75 GPA.

• Gary and Susan Collins Women’s Basketball Scholarship - This scholarship is awarded to a student athlete who is in good standing with the team. Preference is given to a student enrolled full time in a Business curriculum with a 2.75 GPA.

• Gary and Susan Collins Men’s Basketball Scholarship - This scholarship is awarded to a student athlete who is in good standing with the team. Preference is given to a student enrolled full time in a Business curriculum with a 2.75 GPA.

• Gary and Susan Collins Men’s Soccer Scholarship - This scholarship is awarded to a student athlete who is in good standing with the team. Preference is given to a student enrolled full time in a Business curriculum with a 2.75 GPA.

• Commonwealth Legacy Scholarship— This scholarship was established by The Virginia Foundation for Community College Education. Awards will be made to full-time, associate’s degree seeking students who plan to graduate from a Virginia community college. Selections are based on academic excellence and students who demonstrate a willingness to promote community college education, show a willingness to mentor future scholars, and demonstrate a commitment to developing leadership potential.

• Community Service Endowed Scholarship— This scholarship is awarded to qualified students who have a demonstrated commitment to community service by ongoing participation in volunteer activities or students who have diagnosed, documented ADD or learning disabilities and who are involved in community service. Recipients must maintain a 2.5 GPA.

• Bernard Craig Scholarship—This scholarship is awarded to a full-time student who has demonstrated financial need and maintains a 2.5 GPA. Preference is given to students pursuing a career in business.

• Daughters of the American Revolution (DAR) Scholarship— The General Joseph Martin Chapter of the Daughters of the American Revolution awards a scholarship to a deserving student enrolled in the educational field. Student must be a resident of Martinsville/Henry County, maintain a 2.0 GPA and demonstrate financial need.

• Daughters of the American Revolution (DAR) Scholarship— The Patrick Henry Chapter of the Daughters of the American Revolution awards a scholarship to a deserving student. Student must have a 2.5 GPA.

• Dean David Deal Technology Scholarship - This scholarship is awarded to a student who is a graduate of a Martinsville or Henry County high school. Student must be enrolled full time in the Information Technology curriculum and have a 2.5 GPA.

• Delta Kappa Gamma, Sigma Chapter, Sigma Memorial Scholarship— This scholarship is awarded to a deserving Martinsville or Henry County high school graduate, preferably a female entering the education field. Must demonstrate financial need.

• Alma M. Dillon Memorial Endowed Scholarship—This scholarship is awarded to a qualified and deserving student who has maintained a 2.5 GPA and is currently enrolled in the Horticulture program. Student must also have demonstrated community service.

• Dillow-Meador Scholarship— This scholarship is awarded to a student enrolled in a degree or certificate program in good academic standing. Student must demonstrate financial need and maintain a 2.5 GPA.

• H. Clay Earles Endowed Scholarship Fund— This scholarship is awarded each year to an entering freshman with a 2.5 GPA.

• Entre Nous Book Club Scholarship—This scholarship is awarded to a resident of Martinsville or Henry County who demonstrates financial need and maintains a 2.5 GPA. Preference is given to students planning to pursue an English major.

• Dr. Ron and Wendy Epperly Family Softball Scholarship - This scholarship is awarded to a student athlete who has signed a letter of intent at PHCC. Student must be enrolled full time and have a 3.0 GPA.

• Sandra Moore Estes Memorial Nursing Scholarship— This scholarship is awarded to students enrolled in the RN or LPN nursing programs. Preference is given to students who are single mothers. An additional essay submission is required.

• Henry County Rotary Club Annual Scholarship—The Henry County Rotary Club awards a scholarship to a Martinsville or Henry County high school graduate entering PHCC full time and who has at least a cumulative 2.5 GPA. Students must demonstrate financial need.

• Henry County Rotary Club Endowed Scholarship — This scholarship is awarded to a PHCC full-time student who is enrolled in a degree or certificate program. The student must reside in Martinsville or Henry County, maintain a 2.5 GPA, and demonstrate financial need. Student must agree to have picture published in local media as student of scholarship.

• Jeff Fields Applied Science Scholarship - This scholarship is awarded to a student who demonstrates financial need.

• Figsboro-Pleasant Grove Endowed Scholarship—Established by the Figsboro-Pleasant Grove Home Demonstration Club, two scholarships are given to students living within 25 miles of the Franklin County-Henry County line on state road 108-890 in all directions. Preference is given to students living in the Franklin County or Figsboro communities. Students must have attained
must be enrolled full time and maintain a 2.0 GPA.

- **Gretchen Freeman Scholarship**—This scholarship is awarded to a deserving student who is enrolled full-time in the nursing program. Students must maintain a 2.0 GPA.

- **Dr. John D. French Memorial Scholarship**—This scholarship is awarded to a deserving student who is preparing for a career in the medical field. Student must be enrolled full-time and maintain a 2.5 GPA.

- **Friends of Drewry Mason Scholarship**—This scholarship will be awarded to full-time students who are graduates of a Martinsville or Henry County school. Student must show financial need and maintain a 3.0 GPA.

- **Ellen P. Gale Memorial Scholarship**—This scholarship is awarded to a student who is enrolled in the Business or Education curriculum. Student must demonstrate financial need and have a 2.5 GPA.

- **Dr. Angeline Godwin and Jim Hatten Presidential Leadership Scholarship**—This scholarship is awarded to a member of the Presidential Student Leadership Cabinet. Student must have a 3.5 HS GPA or a 3.0 PHCC GPA. A letter of recommendation from teaching faculty or administration is required. Student must have significant community service, extracurricular activity, documented and/or innovative activity, and specific leadership experience.

- **Irving M. Groves, Jr. Endowed Scholarship**—This scholarship is awarded to deserving students. Students must maintain a 2.0 GPA.

- **Paul Grubb Memorial Scholarship**—This scholarship is awarded to a student in the Administration of Justice program who is enrolled for at least six semester credits, demonstrates financial need and has attained a 2.0 GPA.

- **Gene Haas Foundation Scholarship**—This scholarship is awarded to students enrolled in the General Engineering or Motorsports curriculum. Students must have been enrolled full time, have a 3.0 GPA, and submit a recommendation letter from PHCC Faculty/Administration or High School Faculty/Administration.

- **Wayne Haley Memorial Golf Scholarship**—This scholarship is awarded to a signed student athlete of the PHCC golf team. Student must be enrolled full time and have a 3.0 GPA.

- **Marguerite R. Hammack Scholarship**—This scholarship is awarded to a student pursuing a career in education. Students must be enrolled full time and maintain a 3.0 GPA.

- **John and Sally Hanbury Vice Presidential Scholarship**—This scholarship is awarded to a student who is enrolled in the Business Administration, Accounting, or Legal Assisting curriculum. Student must demonstrate financial need and have a 2.5 GPA.

- **Hardworking Student Scholarship**—This scholarship is awarded to students who are employed full time and who have been a full time student for at least the last 12 months of the year. Students must be valued employees and provide a letter of recommendation confirming employment status and value to the organization. Students must have a 3.0 GPA. Priority is given to students who are ineligible for Federal or State aid due to income.

- **Dean Hodges Workforce Development Scholarship**—This scholarship is awarded to a student who has met the entrance requirements for a non-credit workforce development certification program but who is not eligible for other training funds.

- **Greg and Renee Hodges Scholarship**—This scholarship is awarded to a student who has successfully completed developmental education credits. Student must be enrolled full time with a 2.5 GPA. Priority is given to a student planning a career in the Education field.

- **Human Services Scholarship**—This scholarship is awarded to students enrolled in the Human Services Certificate program. The student should demonstrate financial need and maintain a 2.5 GPA.

- **E. Johnson Ingram Scholarship**—This scholarship is awarded to a deserving full-time student pursuing a career in business. Students must maintain a 2.5 GPA.

- **Dr. Jethro Hurt Irby Endowed Nursing Scholarship**—This scholarship is awarded to deserving students preparing for a career in nursing. Students must be enrolled for at least 9 credit hours and maintain a 3.0 GPA.

- **William R. Jamison, Jr., Memorial Scholarship**—This scholarship is awarded to a deserving student who is enrolled full-time in the Administration of Justice program. Student must maintain a 2.5 GPA and demonstrate financial need.

- **Jessie H. Key Memorial Scholarship**—This scholarship is awarded to a deserving PHCC LPN student and will be presented at the LPN pinning ceremony. Student must plan to begin work in the geriatric field and award will help cover expenses of licensing exam, uniforms and nursing shoes.

- **Kiwanis General Scholarship**—This scholarship is awarded to a student who is a graduate of Martinsville, Bassett, or Magna Vista High School. Student must be enrolled full time and have a 3.0 GPA.

- **Evelyn Lawing Educational Endowed Scholarship**—This scholarship is awarded to deserving students who reside within a 200-mile radius of the Henry County Clerk’s Office. Student must maintain 2.0 GPA.
• **Kate Legard Honorary Scholarship**—This scholarship will be awarded to a student who maintains a 3.0 GPA and is a resident of Martinsville or Henry County.

• **Alice Lester Memorial Endowed Scholarship**—This scholarship is awarded to full-time students, with first priority being given to residents of the counties of Henry, Patrick, Franklin or the city of Martinsville. Preference is given to students in the following curriculums: business, nursing, occupational/technical, applied science, or engineering technology. PHCC students who continue their education with an affiliated on-campus program of a four-year institution may qualify.

• **Myrts and Jack Lester Scholarship**—This scholarship is awarded to a worthy part-time student who demonstrates financial need. Student must maintain a 3.0 GPA.

• **Sarah L. Mansfield, RN, Memorial Nursing Scholarship**—This scholarship is awarded to a first year nursing student in the fall semester and a second year nursing student in the spring semester. Students must be enrolled in the RN nursing program with preference given to displaced homemakers. An additional essay submission is required.

• **Charles Steven Martin Memorial Scholarship**—This scholarship is awarded to an entering freshman student who graduated from Patrick County High School. Student must have a 3.0 GPA, demonstrated community service, and be enrolled full time.

• **Wesley F. Martin Memorial Scholarship**—This scholarship will be awarded to a student enrolled in the Education program. The student should demonstrate financial need and maintain a 3.0 GPA.

• **Martinsville DuPont Credit Union Scholarship**—This scholarship is given to a sophomore student enrolled in business curriculum. Student must be enrolled full-time, demonstrate financial need, and maintain a 2.0 GPA.

• **Martinsville Garden Club Scholarship**—This scholarship is awarded to a Martinsville or Henry County high school graduate. Student must maintain a 2.5 GPA. Preference will be given to students enrolled in the Viticulture/Enology/Horticulture program.

• **Martinsville and Henry County Lions Club Scholarship**—This scholarship is awarded to a full-time student enrolled in a degree or certificate program. The student must have a 2.5 GPA and be a resident of the city of Martinsville or Henry County. First preference will be given to the son, daughter or grandchild of a current Martinsville Lions Club member; second preference will be given to the son, daughter or grandchild of any past member; third preference will be given to the son, daughter or grandchild of a current member of any Lions Club. Preference will also be given to students pursuing a career in medicine, nursing or a health-related field.

• **Martinsville Rotary Club Scholarship**—This scholarship is awarded to a full-time student who has maintained a 2.0 GPA. Preference will be given to students who show community involvement. Students must also provide a list of completed courses and achievements, as well as a letter stating their goals/ambitions and why they are deserving of this scholarship.

• **Julie Meador Honorary Scholarship**—This scholarship is awarded to a student who is enrolled in a certificate or degree program and maintains a 3.0 GPA. Priority will be given to a student living with a potentially disabling condition or who is the primary caretaker of a disabled relative.

• **Memorial Hospital of Martinsville and Henry County Volunteer Auxiliary Board Nursing Scholarship**—This scholarship is awarded to residents of Martinsville or Henry County who are enrolled in the LPN or RN nursing program. Students must demonstrate financial need, be enrolled full time, and maintain a 2.5 GPA.

• **H. Grady Moore, Jr. Memorial Endowed Scholarship**—This scholarship is awarded to a female student who is participating in the athletic program. Students must maintain a 2.0 GPA and be attending PHCC full time.

• **Walter N. Morris Endowed Scholarship**—This scholarship is awarded to a student who demonstrates financial need and maintains a 2.5 GPA. Preference will be given to a resident of Henry County, Patrick County, or the City of Martinsville.

• **Jack A. Mullins Memorial Educational and Athletic Scholarship**—This scholarship is awarded to a student athlete who is enrolled full time in the Education curriculum. Student athlete must have a 2.75 GPA.

• **Mystical Riders Motorcycle Organization Scholarship**—This scholarship is awarded to a student with demonstrated community or church involvement with a 2.0 GPA. Additional requirements include an essay and a letter of reference from a PHCC faculty member.

• **Virginia Laureate Beta Lambda Sorority, Wiley T. Nance Memorial Scholarship**—This scholarship is awarded to a qualified student who demonstrates financial need. Student must be in good academic standing.

• **Fleetus Lee Owens Memorial Endowed Scholarship**—This scholarship is awarded to a student in the Business Technology curriculum, with preference to students in the Entrepreneurship/Small Business specialization. Students must be full time, demonstrate financial need, and maintain a 3.0 GPA.

• **William Letcher Pannill Endowed Scholarship**—This scholarship is awarded to full-time students who demonstrate financial need and have a 2.5 GPA.
• **Christopher Parker Executive Director Scholarship** - This scholarship is awarded to a student with a 3.0 GPA.

• **Wanda Parker and Margaret Mullins Educational Scholarship** - This scholarship is awarded to a student who is enrolled in the Education curriculum and plans to become a teacher. Student must have a 2.75 GPA.

• **Patrick Henry Scholars**—This merit award program is administered by the Patrick Henry Community College Foundation. Up to ten students are selected from high schools in the college’s service region and granted a full-tuition scholarship. Selected by the foundation’s scholarship committee, students must display academic and leadership potential. Students must maintain a 3.2 GPA at PHCC and perform volunteer, community service, and extracurricular activities while a member of the Scholars program. Interested students should apply online on the PHCC website during February and March each year. Students selected as Patrick Henry Scholars become members of a prestigious community of scholars, and the program provides them an intense and enriching college experience. Selected scholars are afforded a variety of events, activities, and services designed to create a stimulating learning environment, and they receive special recognition as a group and as individuals for this distinguished achievement.

• **Kathleen Smith General Scholarship**—This scholarship is awarded to a full-time student enrolled in a degree or certificate program. Student must maintain a 2.0 GPA and demonstrate financial need.

• **A. L. Philpott Memorial Endowed Scholarship**—This scholarship is given to a student maintaining a 2.5 GPA and enrolling full-time. Financial need, leadership ability, and extracurricular activities are considered. First priority is given to a Bassett High School graduate. Second priority is given to students from any Martinsville or Henry County high school who meet the scholarship criteria.

• **Helen B. Racey Endowed Scholarship**—This scholarship is awarded to needy students in the educational field. Students must be enrolled full-time.

• **Jessie Frye Rhodes Nursing Scholarship**—This scholarship is awarded to nursing students who are in the final semester and eligible for graduation from the RN and LPN programs. Students must demonstrate financial need, have a 3.0 GPA, reside in the PHCC service area, and submit an additional essay.

• **Jessie Frye Rhodes Nursing Textbook Scholarship** - This scholarship is awarded to a RN and PN student who is a resident of the PHCC service area. Student must demonstrate financial need and have a 2.5 GPA.

• **Jessie Frye Rhodes Nursing Uniform Scholarship** - This scholarship is awarded to a RN and PN student who is a resident of the PHCC service area. Student must demonstrate financial need and have a 2.5 GPA.

• **Barbara Emmett Richman Memorial Scholarship**—This scholarship is awarded to a student who has been accepted into the nursing program or who is a pre-med student. The student is required to be full-time and maintain a 2.0 GPA.

• **Mike Rogers Honorary Scholarship** - This scholarship is awarded to a student who is enrolled in the Administration of Justice curriculum. Student must be enrolled full time and have a 2.5 GPA.

• **River Community Bank, N.A. Scholarship** - This scholarship is awarded to a student who is a graduate of a high school in the PHCC service region or the Carlisle school. Student must be enrolled full time and have a 2.5 GPA.

• **Sells, Hogg, and Associates Scholarship** - This scholarship is awarded to a student who is enrolled in the Business curriculum. Student must have a 2.5 GPA.

• **Betty Jane Simpson Memorial Scholarship**—This scholarship is awarded to a qualified student who is enrolled in the nursing program. Students must maintain a 3.0 GPA.

• **William L. Slate Memorial Scholarship**—This scholarship is awarded to a full-time student who is a dependent of a full-time Martinsville city employee. Students must have a 2.5 GPA.

• **Smith Mountain Lake Garden Club Scholarship** - This scholarship is awarded to a student who is enrolled in the Horticulture, Viticulture, or Agribusiness curriculum. Student must be enrolled in a minimum of 6 credits and provide 2 reference letters. Student must have a 2.0 GPA.

• **Peggy Spencer Memorial Scholarship**—This scholarship is awarded to a student who maintains a 3.0 GPA and is a resident of Martinsville or Henry County.

• **Stanley Family Foundation Scholarship**—This scholarship will be given to a resident of the Bassett/Stanleytown area enrolling as a freshman in an occupational or technical program. Scholarship may be renewable for a second year provided the student maintains good academic standing at the college.

• **Frank J. Still Memorial Scholarship**—This scholarship is awarded to a full-time student who demonstrates financial need and maintains a 2.0 GPA.

• **Roy C. Stone Memorial Endowed Scholarship**—This scholarship is awarded to a qualified full-time student who demonstrates financial need and has a 2.5 GPA.

• **William F. Stone, Sr. Memorial Endowed Scholarship**—This scholarship is awarded to qualified students who demonstrate financial need and who exhibit the following traits and characteristics: personal honesty and good moral character;
demonstrated willingness to work hard; respect for others as well as oneself as exhibited by neatness and personal grooming; and perceived commitment to improve oneself and one’s station in life by personal efforts. A letter of recommendation from a non-relative is required.

- **Lloyd Swain Memorial Endowed Scholarship**—This scholarship is awarded to a student enrolled in the electronics or electrical program. The student will demonstrate financial need and maintain a 2.5 GPA.

- **David A. Swanson Memorial Scholarship**—This scholarship is awarded to a resident of Martinsville or Henry County with preference given to students enrolled in the Business or Education curriculum. Student must maintain a 2.5 GPA, demonstrate financial need, and provide 2 letters of recommendation.

- **Archie W. Vipperman Memorial Endowed Scholarship**—This scholarship is awarded to full-time students who demonstrate financial need. The students must be Virginia residents who have and maintain a cumulative GPA of 2.0 and who plan to pursue a four-year degree.

- **Virginia Firefighters Foundation Scholarship**—This scholarship is awarded to a Virginia firefighter or dependent of a Virginia firefighter.

- **Virginia Tech Transfer Endowed Scholarship**—This scholarship is awarded to a student who is in their final semester and is accepted as a documented transfer student at Virginia Tech. Students must be enrolled in the transfer curriculum and have a 2.5 GPA.

- **Virginia Tobacco Indemnification and Community Revitalization Commission Scholarship for Tobacco Farmers**—Students must be a Tobacco farmer, have an immediate family member who is a Tobacco farmer, or have an occupation that is related to the decline or loss of Tobacco production since the year 2000. Immediate family is defined on the application. Student must maintain good academic standing and be a Virginia resident in the Southside or Southwest region, as defined by the Tobacco Commission.

- **Virginia Transformer Corporation Scholarship**—This scholarship is awarded to students enrolled in a transfer program majoring in math/science related careers. Students must maintain a math and science GPA of 3.5 as well as a cumulative GPA of 3.2. An essay addressing specific questions is required.

- **Dr. Kristen and Mark Westover Vice Presidential Scholarship**—This scholarship is awarded to a student enrolled in the Science, Engineering, Technology (STEM) curriculum. Student must have completed a minimum of 6 developmental education credits and have a 3.0 GPA.

- **Kathy Whitley Honorary Nursing Scholarship**—This scholarship is awarded to a second year nursing student with a 2.5 GPA. A letter of recommendation from the nursing faculty is required.

- **Max and Roslyn Wingett Athletic Scholarship**—This scholarship is awarded to a student athlete. Student must be enrolled full time and maintain a 3.0 GPA.

- **Wood Brothers Honorary Scholarship**—This scholarship is awarded to a student in the Motorsports curriculum. Student must be full time and have a 2.5 GPA.

**Satisfactory Academic Progress Policy**

Federal regulations required that a student receiving federal financial aid make satisfactory academic progress in accordance with the standards set by the college and the federal government. These limitations include all terms of enrollment, whether or not aid was awarded or received. Satisfactory Academic Progress (SAP) standards apply to state aid also.

The college Financial Aid Office will evaluate SAP before aid is awarded and after grades post for every term, beginning with the student’s first term of enrollment. Some career studies certificate programs are ineligible for student financial aid, but those credits will be counted toward all SAP requirements (GPA, completion rate, maximum timeframe, and developmental maximum) if the student later enrolls in an eligible program.

**I. Student Financial Aid Status**

A. **Financial Aid Good Standing (GS)**—Students who are meeting all aspects of the SAP policy or successfully following a designated academic progress plan.

B. **Financial Aid Warning Status (WS)**—Students who fail to meet SAP for the first time (excluding students who have attempted 150% of the credits required for their program of study) will be automatically placed in a Warning Status for one (1) term and are expected to meet SAP requirements by the end of that term. Students who fail to meet satisfactory academic progress requirements at the end of the warning status term will be placed on financial aid suspension. However, with a successful SAP appeal, those students will be placed on financial aid probation and will retain financial aid eligibility.

C. **Financial Aid Probation Status (PS)**—Students who have successfully appealed financial aid suspension are placed in Probation Status (PS). Students in Probation Status (PS) are eligible to receive financial aid for one (1) semester, after which they MUST be in Good Standing (GS) or meeting the requirements of an academic progress plan that was pre-approved by the College Financial Aid Office (see “IV. Appeals” for additional information.)
II. Evaluating Progress

A. Quantitative Standards or Pace of Completion

Completion Rate (67% Rule): Students must, at a minimum, receive satisfactory grades in 67% of their cumulative credits attempted. This calculation is performed by dividing the cumulative total number of successfully completed credits by the cumulative total number of credits attempted. All credits attempted at PHCC are included. All credits accepted in transfer count as both attempted and successfully completed credits. Credits with satisfactory grades at PHCC are those for which a grade of A, B, C, D, S or P is earned.

Example: A student has attempted 25 credits at PHCC, but only successfully completed 12 credits at PHCC. They also have 12 transfer credits. Divide the successfully completed credits (12 PHCC + 12 transfer credits) by the attempted credits (25 PHCC + 12 transfer credits). 24/37 = .64

This student has a completion rate of 64%, meaning that they are not meeting the 67% completion rate and their financial aid may be lost.

Maximum Hours (150% Rule): In order to continue receiving financial aid, a student must complete his/her program of study before attempting 150% of the credits required for that program. Developmental and ESL course work are excluded from this calculation. Attempted credits from all enrollment periods at PHCC plus all accepted transfer credits are counted; whether or not the student received financial aid for those terms is of no consequence.

Example: A student is enrolled in the Business Administration program, which requires a total of 63 credits to complete. 150% of this student’s program equals 94 credits. If this student hasn’t graduated after the 94 credits of coursework, their financial aid will be cancelled.

Transfer Students: Credits officially accepted in transfer will be counted in determining the maximum number of allowable semester credit hours for financial aid eligibility.

ESL and Developmental Studies: Students may receive financial aid for a maximum of 30 semester hours of developmental studies courses as long as the courses are required as a result of placement testing, the student is in an eligible program of study, and SAP requirements continue to be met. ESL credits are unlimited in number as long as they are taken as part of an eligible program and SAP requirements continue to be met.

Additional Considerations for Qualitative or Pace of Completion Standards:

• Withdrawals (W grades): Withdrawals that are recorded on the student’s permanent academic transcript will be included as credits attempted and will have an adverse effect on the student’s ability to meet the requirements of the completion rate for financial aid.

• Incomplete (I grades): Courses that are assigned an incomplete grade are included in cumulative credits attempted. These cannot be used as credits earned in the progress standard until a successful grade is assigned.

• Repeated Courses: Repeated courses enable the student to achieve a higher cumulative grade point average. Students’ can repeat courses with financial aid until successfully completed, but repeating courses adversely affects the student’s ability to meet completion rate requirements. Financial Aid can be considered for successfully completed classes that are repeated to achieve a higher grade but for only one additional attempt. Only the latest attempt will count toward the cumulative grade point average.

B. Qualitative Standards

Cumulative GPA Requirements (GPA Rule): In order to remain eligible for financial aid, students must meet minimum cumulative grade point average requirements based on a progressive scale. Only non-remedial courses with grades of A, B, C, D and F are included in this calculation. Transfer credits are excluded. A minimum grade point average of 2.0 is required for graduation.

<table>
<thead>
<tr>
<th>Total Number of Credits Attempted</th>
<th>GPA Requirement</th>
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<tbody>
<tr>
<td>1 - 15</td>
<td>1.5</td>
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<tr>
<td>16 - 30</td>
<td>1.75</td>
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<tr>
<td>30 +</td>
<td>2.0</td>
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III. Regaining Eligibility for Financial Aid

Students who do not meet the credit progression requirements (quantitative or pace of completion) and/or cumulative grade point average requirements (qualitative) will be immediately ineligible for financial aid. Removal from financial aid does not prevent students from enrolling without financial aid if they are otherwise eligible to continue their enrollment.

Unless extenuating circumstances exist and an appeal is granted (see “Appeals” for additional information), a student on financial aid suspension should expect to continue classes at his/her own expense until SAP requirements are again met.
Students who audit courses will have their aid reduced determining percentage of credits completed each semester. Developmental courses is calculated as an "F" for determining eligibility. Financial Aid cannot include any late added courses as established for standard sessions (see academic calendar for dates). Students who enroll in courses outside of their curriculum will have their aid reduced accordingly.

**Audit (X) Grade** – Financial Aid is not awarded to students who audit courses. "X" grades are considered as "W" grades for determining percentage of credits completed each semester. Students who audit courses will have their aid reduced accordingly.

**Re-Enroll (R) Grade** – A grade of “R” is considered a failing grade for purposes of Satisfactory Academic Progress.

**Withdrawal (W) Grade** – Students who completely withdraw before their grant check(s) are written may be ineligible to receive a cash disbursement for that semester. Refer to the Refund/Repayment Policy in section III for additional information.

**Change of Enrollment Status** – Students altering their enrollment status by auditing, dropping or withdrawing from classes should remember that they must meet the requirements as published in section II part B of this policy.

**Ineligible Curricula** – Students must be enrolled in a degree, diploma or certificate program requiring at least 16 credit hours for completion to be eligible for aid. Students who have not completed all of the requirements for admission into an eligible curriculum are not eligible for federal/state financial aid.

**Developmental Classes** – Students taking developmental classes necessary for completion of their degrees, certificates or diplomas are eligible for financial aid. Students are limited to one year (30 credits) of enrollment in developmental classes. Developmental classes will be included in the total number of credit hours “attempted” in calculating the minimum percentage of credits completed for purposes of maintaining Satisfactory Academic Progress.

**Repetitions** – Students who receive an “F”, “X” or a “W” in any course can receive financial aid for only one repeat of the same course, regardless of how payment was made.

**Financial Aid will ONLY pay for courses required** for the program of study in which the student is enrolled. Students who enroll in courses outside of their curriculum will have their aid reduced accordingly.

**Financial Aid Suspension** – Students who do not maintain the appropriate cumulative grade point average and/or have not successfully completed the required minimum percentage of credits per semester are not eligible for payment under Title IV Regulations. Students who receive financial aid and subsequently withdraw from all classes after the first (10) days of classes will be placed on Financial Aid Suspension until SAP is met. Students have the option of appealing the suspension status; however, this option does not apply to the Federal Work-Study Program.

**Appeals** – Appeals may be approved by majority rule by the Student Success Committee. To appeal, the student must complete an Application for Reinstatement of Financial Aid (available online at www.ph.vccs.edu under Student Information/financial aid/satisfactory academic appeal form). It must be submitted to the Financial Aid Office by the first day of classes. Appeals received after first day of classes (see academic calendar) of each term will NOT be considered. Once a student’s appeal is declined, they must complete a semester (3 credit, non-development course minimum) without financial assistance before any other appeals will be considered.
*Treatment of Transfer Credits* - Transfer credits which apply to a student’s major program will be included on the maximum time frame standards as explained in section II.

*Repayment Policy* – The amount of Title IV aid that a student must repay is determined via the Federal Formula for Return of Title IV funds as specified in Section 484B of the Higher Education Act. The student is responsible for repayment of funds they did not earn. The amount of Title IV aid earned is determined by multiplying the total Title IV aid (other than FWS) for which the student qualified by the percentage of time during the term that the student attended/participated. If less aid was disbursed than was earned, the student may receive a late disbursement for the difference. If more aid was disbursed than was earned, the amount of Title IV aid that must be returned (i.e., that was unearned) is determined by subtracting the earned amount from the amount actually disbursed. The student will receive a bill for the amount (s) he owes and the funds repaid by the student will be receipted into the appropriate Title IV program account.

**Veterans Benefits**

Most programs of study at PHCC are approved for Veterans Administration educational benefits by the State’s Veteran Department of Education. The financial aid office serves veteran students in the application for VA benefits, the certification process, and in the maintenance of accurate enrollment and student status records. All veterans receiving educational benefits must be enrolled in an official curriculum leading to a certificate or degree.

Veterans are reminded that changes in course load (add/drop, cancellations, etc.), may affect their educational benefits. Veterans who are enrolled in non-standard classes (dynamic or accelerated classes) must note that their pay rate will be adjusted with the Department of Veteran Affairs when the classes begin or end. This change must also be reported on the monthly verification for VRAP, Chapter 1606, Chapter 1607 and Chapter 30. In addition to these certification requirements, veterans are cautioned that only those courses applying toward graduation requirements in their curriculum will be certified to the Veterans Administration Regional Office for payment of educational benefits.

Educational benefits are suspended when the veteran fails to maintain minimum standards of academic progress or to submit required information.

**Virginia Military Survivors and Dependents Education Program - Tuition Waiver**

The Virginia Military Survivors and Dependents Education Program provides educational assistance to children of certain armed forces veterans. The program provides free tuition and required fees. To be eligible for assistance under this program, an applicant must meet the following basic eligibility requirements:

1. The applicant must be no less than 16 years of age, or no more than 29 years of age.
2. The applicant’s parent must have served in a branch of the armed forces of the United States, and the parent must have been killed or permanently disabled due to injury or disease, a prisoner of war, or missing in action during a time of war or armed conflict; and
3. The applicant’s parent on which eligibility is based must have been a resident of the Commonwealth of Virginia at the time of entry into active military duty; or
4. The applicant’s parent on whom eligibility is based must have been a resident of the Commonwealth of Virginia for at least ten consecutive years immediately prior to the date of application.
5. The applicant must provide written verification to the Department of Veterans’ Affairs attesting to his/her acceptance as a student at a state-supported educational institution.
6. Approval from the Department of Veterans’ Affairs must be provided to the state-supported educational institution.
7. The applicant must maintain satisfactory progress for continued eligibility.

**Surviving Spouse and Any Child of Those Killed in the Line of Duty – Tuition Waiver**

Children and spouses of law enforcement officers, firefighters, correctional and jail personnel, special forest warden, special agents of the Department of Alcohol Beverage Control, members of the Virginia State Defense Force, sheriff, deputy sheriff, Virginia National Guard members or rescue squad members who have been killed in the line of duty are entitled to free tuition and required fees. To be eligible for assistance under this program, an applicant must meet the following eligibility criteria:

1. The children must be no less than 16 years of age, or no more than 25 years of age.
2. The applicant’s parent must have been killed while in the line of duty, and the parent must have been a resident of the Commonwealth of Virginia at the time of death.
3. The chief administrative office of the law-enforcement agency or other appropriate agency must certify that the deceased parent was employed or serving in the required capacity and was killed in the line of duty. The applicant must provide written verification of acceptance as a student in a public institution of higher education.
4. The certification must be submitted to the college Financial Aid office.
5. The applicant must maintain satisfactory progress for continuation of eligibility.

**Policy on Refunds, Credits, and Reinstatement as a Result of Military Service**

Pursuant to 23-9.6:2 of the Code of Virginia, and corresponding SCHEV Guidelines, each community college shall have a policy
statement providing for the tuition relief, refund, and reinstatement of students whose service in the uniformed services has required their sudden withdrawal or prolonged absence from their enrollment. Service in the uniformed services is defined as service (whether voluntary or involuntary) on active duty in the Armed Forces, including such service by a member of the National Guard or Reserve, for a period of more than 30 days under call or order to active duty of more than 30 days. Each community college shall provide for the following:

A. Tuition and Required Fees
   Should a student be ordered to active duty (for reservists) or be mobilized (active military) as described in the Code of Virginia, Section 23-9.6:2 and the State Council’s Virginia Tuition Relief, Refund, and Reinstatement Guidelines, the student requests to be withdrawn from the college the census date, the student may elect either to be deleted from the registration file and be awarded a full refund or to be administratively withdrawn with no refund and assigned a grade of "W". Each community college shall also have a policy statement regarding the granting of refunds of tuition and fees charged in the semester or term in which the student returns to study.

B. Deposits
   Each community college shall have a policy statement regarding the granting of refunds of deposits to students.

C. Textbooks
   Each community college shall process refunds for textbooks according to contractual arrangement with local vendors.

D. Academic Credits and Grades
   Students who are called to active duty or are mobilized, meaning serving in the uniformed services, as described in Virginia Tuition Relief, Refund, and Reinstatement Guidelines, should have the opportunity to receive an incomplete grade ("I") until released from active duty (for reservists) or mobilization (for active military personnel). All course requirements shall be completed within one year from the date of release from active duty or mobilization. Students may be given the option of taking their examinations prior to regularly scheduled times as an exception to VCCS policy 5.6.1 in accordance with the Virginia Tuition Relief, Refund, and Reinstatement Guidelines. Careful consideration should be given and special options are advised for students who receive student financial aid or Veterans Administration benefits.

E. Reinstatement
   Students who are called to active duty or are mobilized shall be assured a reasonable opportunity to be reinstated in the same programs of study without having to re-apply for admission if they return to the same community college after a cumulative absence of not more than five years so long as the student provides notice of intent to return to the institution not later than three years after the completion of the period of service.

F. Dissemination of Information
   Community college officials should make every effort to ensure that the aforementioned VCCS policies relative to tuition relief, refund, academic credit and reinstatement are well disseminated and carefully explained in accordance with the requirements of the Code of Virginia, Section 23-9.6:2, and the Virginia Tuition Relief, Refund, and Reinstatement Guidelines in the appropriate college publications. Moreover, the college shall designate an administrative unit to ensure that these policies are properly disseminated and administered.

College Programs

Associate Degree Programs

PHCC awards associate degrees in arts and sciences and in applied science. Associate of Arts and Science degrees provide the first two years of instruction in major fields that prepare students for transfer to colleges and universities to complete baccalaureate degrees. Students are encouraged to investigate the requirements of the institution to which transfer is anticipated. Associate of Applied Science degrees provide knowledge and skills leading to employment in specialized fields.

Diploma Programs

The college may offer two-year diploma programs designed to prepare the student for employment immediately after completion of the program. However, there are no active diploma programs as of the publications of this catalog.

Certificate Programs

Certificate programs are less than two years in length with a major in an occupational area; career studies certificates require less than a full year of study in an occupational area. Certificate programs differ from associate degree programs because they are presented at a different educational level and are developed in response to employment needs identified by local curriculum advisory committees. Several of these programs are offered on a part-time, day or night basis for students who are already employed.

Computer Competency Requirement

PHCC believes that all students should experience a teaching-learning environment that espouses computer and information
literacy in accessing electronic resources and applying knowledge through technology. PHCC endorses the principle of computer competency for all students intent on completing a curriculum in excess of 45 semester credits. A computer competent student will be able to:

- demonstrate a working knowledge of computing concepts, components, and operations to accomplish educational and career tasks;
- use appropriate components of an integrated productivity software package involving word processing, spreadsheet, database, presentation, and communication applications;
- access, retrieve, assess, and apply networked information resources (e.g., on-line catalogs, virtual libraries, the internet and world wide web); and
- use telecommunication software (e.g., electronic mail, listservs, bulletin boards, and newsgroups) to communicate with faculty, students, and information providers.

Students may demonstrate their computer competence by successfully passing ITE 115/119 or by passing a proficiency test.

**Developmental Education**

The developmental education program helps students gain needed skills to pursue their college and career goals. The program serves those who need additional classes to prepare for college-level coursework and those who may need to improve basic academic skills. Students who are enrolled in any degree, diploma, or certificate program and score below established cut scores on the college’s placement test are generally required to enroll in the appropriate developmental course before enrolling in on-level English or math courses and certain other courses (see pages 199-120). It is extremely important that students meet with a developmental advisor prior to registering. There are some on-level courses in which developmental students may enroll with advisor approval. Students whose placement test results indicate a need for developmental education should read carefully the section on “Entry Placement Requirement” and schedule an appointment with a developmental education advisor prior to enrollment.

**Great Expectations**

Great Expectations is a college transition program designed to help young adults (17-24 years old) who are or were recently affiliated with the foster care system. The program offers individual support to young adults transitioning into college by increasing awareness of the value and availability of a college education, and assisting students and service providers with accessing and successfully navigating the community college system. These services are offered free of charge to those students who qualify and are ready to make a commitment to their future.

**Middle College**

Middle College is a program for individuals between the ages of 18 and 24 who do not have a high school diploma or GED. The program allows students to increase their income and employability by simultaneously pursuing a GED, community college education, and a workforce certification in a college environment. In addition, students receive academic and career readiness training. Middle College is an open enrollment program and is FREE to all participants. Middle College completers will earn: GED (approximately a 10-week program), Virginia’s Career Readiness Certificate (CRC), and College Credit (Career Education Course).

**College Success Coaching Program**

The College Success Coaching program is a grant-funding initiative with the Virginia Community College System (VCCS) and seeks to use the "coaching" model in an academic setting. Two college success coaches maintain a case-load of 100 students each and assist them in all aspects of successfully navigating from first course enrollment to graduation or credential attainment. College Success Coaches are located in the Learning Resource Center.

**Entry Placement Requirement**

All students planning to enter one of the degree or certificate programs are required to take the college placement test before they can begin their college courses. Students are encouraged to participate in a Placement Test Refresher Course prior to taking the test. Students should complete the placement test well in advance. Student must satisfactorily complete placement tests before enrolling in many courses. Up-to-date information is available from the Integrated Advising, Testing, and Career Center. Students may have placement test requirements waived on the basis of prior completion of pertinent college courses or by meeting minimum test scores of the SAT and ACT tests. A student who provides official evidence of a minimum score of 500 on both the critical reading and writing sections of the SAT, or a minimum score of 21 on both the English Test and Reading Test of the ACT, taken within the last two years, is exempt from taking the VCCS English placement test. A student who provides official evidence of a minimum score of 520 on the mathematics section of the SAT, or a minimum score of 22 on the mathematics section of the ACT, taken within the last two years, may be exempt from taking the VCCS mathematics placement test based on the mathematics requirements in the student’s academic plan.

Students who need developmental work to obtain the appropriate skills and competencies will be advised of the requirements and availability of the courses. Developmental courses are offered in a variety of formats including an
accelerated pace. It is extremely important students meet with an advisor prior to enrolling in any developmental course. Students who are required to take developmental courses must satisfactorily complete the developmental requirements prior to taking certain on-level courses. A list of the developmental prerequisites is shown on pages 120-121. A description of each developmental course is included under the course description section of the catalog. Students requiring developmental courses must enroll in the appropriate course in their first semester. Students requiring developmental courses should not enroll after classes begin. Students are required to complete their developmental course requirements within one academic year or 30 credit hours. A developmental advisor must approve any exception to this policy.

Registration

To receive credit for a course, students must register for the course through established procedures. Each student is assigned an advisor to help the student develop a schedule. The student will either complete an official student registration permit, have it approved by his/her advisor and have data entry completed by college staff before paying fees or self register via the college web page. Registration is not complete until all tuition and fees are paid.

Complete procedures for class registration and drop/add can change during an academic year. Published directions can be found on the college web page.

Changes of Registration

Students must follow the correct methods of making any change in their class schedule after registration. Failure to do so could place the students’ record at risk.

Add/Drop Policy. A student may add or register for courses during the first week of the session. Normally students may not enter a new class after the add deadline of the semester, which is typically the end of the first week of a semester. Exceptions to this policy will be considered on the merits of the individual case. During the first 15% of a session (usually 14 days), students may drop a course without financial penalty. Weekend classes and special session classes have shorter periods for adding or dropping. Students should consult the college calendar or instructor for specific dates.

Withdrawal from a Course. No grade point credit. A grade of "W" is awarded to students who withdraw or are withdrawn from a course after the add/drop period but prior to the completion of 60% of the session. After that time, the students shall receive a grade of "F" except under mitigating circumstances which must be documented and a copy of the documentation must be placed in the students' academic files.

For purposes of enrollment reporting, the following procedures shall apply:

a. If a student withdraws from a class prior to the termination of the add/drop period for the session, the student is removed from the class roster and no grade is awarded.

b. After the add/drop period, but prior to completion of 60% of a session, a student who withdraws or is withdrawn from a course shall be assigned a grade of “W.”

c. After that time, if a student withdraws or is withdrawn from a course, a grade of "F" shall be assigned. Exceptions to this policy may be made under mitigating circumstances; such circumstances must be documented and a copy of the documentation placed in the student’s academic file. Only the chief academic officer of the campus or his/her designee can approve an exception to this policy under mitigating circumstances.

Late Addition of a Course. A student may not enter a new course after the add deadline of the semester. Any request for entry after that period must be approved by the Vice President of Academic and Student Development Services. The student must complete an official PHCC Registration Request form. This form must be approved by an advisor, the Vice President for Academic and Student Development Services (if appropriate), and recorded in the registrar’s office.

Withdrawal from the College. A student who wishes to withdraw from the college should contact a counselor to determine the appropriate procedure. Failure to follow established procedures to formally withdraw from college will result in the grade of “F” for each course of enrollment for the semester.

Auditing a Course. Students who want to attend a class without taking examinations or receiving credit may do so by registering to audit the class. Students who want to audit a class will register in the usual manner and pay the regular tuition. Audited classes carry no credit and do not count as part of the student’s course load. Permission of the Registrar, a counselor, or the dean of student services is required to audit a class. Changes from credit to audit must be made by the official last day for students to withdraw from a class without academic penalty. The vice president of academic and student services must approve exceptions.

Course Credit

Credits are assigned to each course based on the time required to complete its requirements. This may consist of lectures, out-of-class study, laboratory and shop study, or combinations as follows:

One hour of lecture (including lecture, seminar, discussion or other similar experiences) per week for 16 weeks including the examination period = 1 collegiate semester hour credit. Two or three hours, depending on the academic discipline, of laboratory (including laboratory, shop, clinical training, supervised work experience, coordinated internship, or other
similar experiences) per week for 16 weeks including the examination period = 1 collegiate semester hour credit. One to five credits with variable hours for the general usage courses: coordinated internship, cooperative education, seminar and project, and supervised study.

Transfer Credit

Provided certain criteria are met, the college routinely accepts credit from similarly accredited institutions. Credits earned at institutions not so accredited can be evaluated provided detailed information regarding course content, texts, evaluation methods, faculty credentials, etc. are provided. Transfer credit evaluations are based on official transcripts from the previous institutions. No credit is given for courses with grades lower than "C". A transfer student may be advised to repeat a course if it is clearly to the student’s advantage in order to make satisfactory progress in the curriculum. Students with a minimum of 20 semester hours of transferred credit from a four-year college or university may be exempt from SDV 108.

Students with educational credentials from foreign countries who wish to receive transfer credit for any of that work must have a credit evaluation provided to the admissions office from a college-approved foreign credential evaluation service (see page 11). The student must absorb all costs. PHCC faculty makes the final decisions on the granting of credit at PHCC.

Questions about any of these policies may be referred to the Coordinator of Admissions and Records (276) 656-0311

Evaluation of Military Transcripts

A student’s military training, courses, and occupational specialty may all be considered for college credit. As a participating member of Servicemembers Opportunity Colleges (SOC), Patrick Henry follows the American Council on Education’s (ACE) Guide to the Evaluation of Educational Experiences in the Armed Services in determining the value of learning acquired in military service when applicable to the service member’s program of study. Military service credit in the occupational/technical areas (i.e., Engineering, Health Technology) may require approval by the appropriate school dean prior to award.

In order to receive credit for military training, the student must submit a military transcript which includes the ACE recommended credit and initiate a request for evaluation to the PHCC Records. Note: If the student submits only the DD214 and no military transcript, only credit for HLT 110 will be awarded. Students who have completed basic training, regardless of the date of military experience, and have been honorably discharged may receive up to three credits for HLT 110.

Army, Coast Guard, Marines and Navy

Patrick Henry Community College receives official Joint Services Transcripts (JST) electronically from the DoD Joint Services Transcript System. The JST is used by the Army, Navy, Marines, and Coast Guard. Requests received by the JST System are processed and sent electronically to PHCC within one business day. To request this transcript, please do the following:

Complete a JST request available at this website: https://jst.doded.mil/smart/signin.do.

Submit the on-line Request to Evaluate Previous Educational Experiences form and submit it to our office electronically.

NOTE: If you need to have an AARTS or Coast Guard Institute Transcript sent to us, please see the links below and be sure to complete and submit our on-line Request to Evaluate Previous Educational Experiences form as well.

Air Force

Air Force members should request an official Community College of the Air Force/Air University transcript from the following web site: www.au.af.mil/au/ccaf/transcripts.asp then complete the PHCC on-line Request to Evaluate Previous Educational Experiences form and submit electronically to the Admissions Office.

Additional questions or concerns regarding the evaluation of military transcripts should be directed via email to ttisdale@ph.vccs.edu or by telephone at (276) 656-0311.

Credit for Prior Experience and Training

A student who believes that previous educational studies, training programs, work experience, or acceptable nationally recognized proficiency examination scores may justify an adjustment in the course work required in a particular curriculum should contact the Registrar to determine the required procedures for credit evaluation before registering for classes.

Course credit may be granted for completion of proficiency exams such as the Advanced Placement Program of the College Board or CLEP. Official documentation must be provided to the Coordinator of Admissions and Records.

Credit by examination (Internal means of achieving Advanced Standing through satisfactorily demonstrating subject matter competency by means of an examination administered by the college) may be obtained by completing the required application and submitting it to the division dean for approval. Once approved, students must pay $25 per examination prior to testing.

Credit for training provided by non-collegiate institutions and for professional certification will be considered on an individual basis. Students must contact their division dean and provide official documentation of training and certification. Awarding of such credit will be formalized after receipt of a $25 fee for each
The normal academic load for a student is 15 to 17 credits. The minimum full-time load is 12 credits, and the normal maximum full-time load is 18 credits excluding College Survival Skills (SDV 108). A student wishing to enroll for more than 18 credits must have the approval of the Vice President of Academic and Student Services. Students on academic warning or academic probation may be required to take less than the normal semester course load.

Class Attendance

It is extremely important for students to attend classes and laboratory sessions. When absence from a class becomes necessary, it is the responsibility of the student to inform the instructor prior to the absence. Each instructor will establish an attendance policy and reasonable time limit for making up an incomplete assignment. The student is responsible for making up all work missed during an absence.

In the event that a student has not reported to class (or logged into Blackboard for a web course) by the last date to drop the course, the instructor will submit the proper form to administratively drop the student from the course.

Tests and Examinations

Students are expected to take tests and examinations when scheduled. Students may arrange with the instructor to postpone or reschedule a test; such arrangements must be made prior to the day or time of the test.

Grading System

The quality of performance in any academic course is reported by a letter grade assigned by the course instructor. The significance and value of each grade is:

- **A** (Excellent) 4 grade points per credit
- **B** (Good) 3 grade points per credit
- **C** (Average) 2 grade points per credit
- **D** (Poor) 1 grade point per credit
- **F** (Failure) 0 grade point per credit
- **W** (Withdrawal). No grade point credit. A grade of "W" is awarded to students who withdraw or are withdrawn from a course after the add/drop period but prior to the completion of 60% of the session. After that time, the students shall receive a grade of "F" except under mitigating circumstances which must be documented and a copy of the documentation must be placed in the students' academic files.

For purposes of enrollment reporting, the following procedures shall apply:

a. If a student withdraws from a class prior to the termination of the add/drop period for the session, the student is removed from the class roster and no grade is awarded.
After the add/drop period, but prior to completion of 60% of a session, a student who withdraws or is withdrawn from a course shall be assigned a grade of “W”.

After that time, if a student withdraws or is withdrawn from a course, a grade of “F” shall be assigned. Exceptions to this policy may be made under mitigating circumstances; such circumstances must be documented and a copy of the documentation placed in the student’s academic file. Only the chief academic officer of the campus or his/her designee can approve an exception to this policy under mitigating circumstances.

I (Incomplete). No grade point credit. The “I” grade is to be used only for verifiable unavoidable reasons that a student is unable to complete a course within the normal course time. To be eligible to receive an “I” grade, the student must (1) have satisfactorily completed more than 50% of the course requirements and (2) must request the faculty member to assign the “I” grade and indicate why it is warranted. The faculty member has the discretion to decide whether the “I” grade will be awarded. Since the “incomplete” extends enrollment in the course, requirements for satisfactory completion shall be established through consultation between the faculty member and the student. In assigning the “I” grade, the faculty member must complete documentation that (1) states the reason for assigning the grade; (2) specifies the work to be completed and indicates its percentage in relation to the total work of the course; (3) specifies the date by which the work must be completed; and (4) identifies the default (B, C, D, F, P, R, or U) based upon course work already completed. Completion dates may not be set beyond the subsequent semester (to include summer term) without written approval of the chief academic officer of the campus. The student will be provided a copy of the documentation. Colleges will establish procedures to ensure that all “I” grades that have not been changed by the faculty member through the normal grade change processes are subsequently changed to the default grade assigned by the faculty member. An “I” grade will be changed to a “W” only under documented mitigating circumstances which must be approved by the chief academic officer of the campus.

X (Audit). No credit.

R (Re-enroll). The “R” grade may be used as an option, interim in nature, in courses which employ a mode of instruction characterized by explicit terminal objectives covering the various content areas in such a way that specific determination of student progress toward total course completion can be made (e.g., individualized, self-paced instruction; modularized, group-paced instruction). The “R” grade may be given only in courses which will be offered in any semester and which will employ a mode of instruction described above. The courses in which this methodology will be used will be designated by their applicability to the established procedures for the “R” grade and will be identified by the division dean and approved by the vice president.

P (Pass). No grade point credit; applies only to specialized courses and seminars at the discretion of the college. Does not apply to developmental education courses.

S (Satisfactory). No grade point credit. Used only for developmental education and ESL courses.

Grading for Developmental Education and ESL Courses

A grade of “S” (Satisfactory) will be assigned for satisfactory completion of each course in developmental education (courses numbered 01-09) and ESL courses numbered 11-29. Students making satisfactory progress but not completing all of the instructional objectives for courses in developmental education courses or ESL will be graded with an “R” (Re-Enroll) and must re-enroll in the course to complete the instructional objectives. Students not making satisfactory progress in developmental education courses will be graded “U” (Unsatisfactory) and counselors will recommend consultation with the instructor to determine the subsequent sequence of courses for the student who receives a grade of “U”. Grades “S,” “R,” and “U” have no credit value and are not computed in the student’s grade point average.

Grade Point Average (GPA)

The grade point average (GPA) is determined by dividing the total number of grade points earned in courses by the total number of credits attempted.

Semester Grade Point Average: Semester GPA is determined by dividing the total number of grade points earned in courses attempted for the semester by the total number of credits attempted.

Cumulative Grade Point Average: Cumulative GPA, which includes all courses attempted, is computed each semester and is maintained on a continuing basis as a record of the student’s academic standing. When students repeat a course taken during summer 1988 or later generally only the last grade earned is counted in the computation of the cumulative GPA. Grades of “W”, “X”, and “I” do not count as first or subsequent attempts in this instance. See “Repeated Course Policy” below for full description of criteria which apply.

Curriculum Grade Point Average: A curriculum GPA, which includes only those courses applicable to the student’s curriculum, is computed in order to ensure that the student satisfies the graduation requirement for that curriculum. When students repeat a course, only the last grade earned is counted in the computation of the curriculum GPA.

Policy for Repeating Courses

Students are normally limited to two (2) enrollments in the same course. Exceptions to this policy must be approved by the Vice President for Academic and Student Services.
Some courses are exempt from normal limitations as repeats and may be repeated without specific approval. Exempted courses are those numbered in the 90’s, 95’s, 97’s, 98’s and 99’s, courses identified as “may be repeated for credit,” and selected other courses. Questions about this policy should be referred to the Registrar or Coordinator of Admissions and Records.

Repeated Course Grade Forgiveness Policy

Students should consult with a counselor or faculty advisor before repeating a course. All grades earned for all courses taken one or more times are shown on the student’s permanent academic record, but only the last grade earned is used in calculating the students’ cumulative grade point average and for satisfying curricular requirements for graduation. This policy applies only to courses taken and repeated Summer, 1988 and later.

Some courses are exempt from consideration as repeats and an adjustment to the GPA is NOT made. Exempted courses are those numbered in the 90’s, 95’s, 97’s, 98’s and 99’s, developmental education courses, courses identified as “may be repeated for credit,” and selected other courses. Periodically, the VCCS will rename or renumber courses but they remain equivalent to the previous named and numbered courses. Completion of a renamed or renumbered course may be determined to be a repeat of a course completed previously under another department and/or course number. Determinations are made on a campus-wide basis, and exceptions cannot be made for an individual student.

Implementation of this policy does not affect any GPA calculations for prior terms or any academic, financial, or administrative events that have occurred in the past. Additionally, adjustments made as a part of “academic renewal” (see p. 14) is not affected. As always, only the latest attempt is used in determining if graduation requirements are met.

Any questions should be directed to the Coordinator of Admissions and Records, (276) 656-0311. Repeating VCCS courses may negatively affect financial aid eligibility.

Grade Reporting

Final grades are provided by data entry at the end of each semester or as reported to the Registrar by faculty. Grades can be reviewed and printed by students using their individual access to their academic record. This access is provided via myPHCC options on the college website, www.ph.vccs.edu. Students should examine the recorded grades carefully and immediately upon completion. Students who discover an error should contact the faculty member immediately for the opportunity to correct their records. See the Grade Appeal Procedures in the Student Handbook.

Honor’s and Dean’s Lists

Those students who have attained a cumulative grade point average of 3.5 or higher, and who have completed 30 or more credits and who are enrolled for 12 or more college credits are recognized by being placed on the Honor’s List. Students who have earned a grade point average of 3.2 or higher for the semester and who are enrolled for 12 or more college credits are recognized by being placed on the Dean’s List. Names of students who meet the requirements for each list will be released for publication to local newspapers and radio stations. Developmental courses do not count towards the credit total requirements.

Graduation Honors

Students who have fulfilled the requirements of degree, diploma, or certificate programs (with the exception of career studies certificates), are eligible for graduation honors.

Cumulative Grade Point Average 

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<tr>
<th>Honor</th>
<th>Cumulative Grade Point Average</th>
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</tr>
<tr>
<td>3.2</td>
<td>Cum laude (with honor)</td>
</tr>
<tr>
<td>3.5</td>
<td>Magna cum laude (with high honor)</td>
</tr>
<tr>
<td>3.8</td>
<td>Summa cum laude (with highest honor)</td>
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</tbody>
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Academic Warning

Students who fail to attain a minimum GPA of 2.00 for any semester shall be placed on academic warning. Students on academic warning should be encouraged to consult with their advisor/counselor and take advantage of academic support services provided by the college. The statement “Academic Warning” will appear on the student’s grade report.

Academic Probation

Students who fail to maintain a cumulative GPA of 1.50 shall be on academic probation until such time as their cumulative average is 1.75 or better. The statement “Academic Probation” shall be placed on their permanent records. Students on probation are ineligible for appointive or elective office in student organizations unless special permission is granted by the Dean of Student Services or another appropriate college administrator. Students may be required to carry less than a normal load the following semester and are required to consult with their advisor/counselor. Students shall be placed on probation only after they have attempted 12 semester credits.

Academic Suspension

Students on academic probation who fail to attain a semester GPA of 1.50 or better shall be placed on suspension only after they have attempted 24 semester credits. Academic suspension shall be for one semester. The statement “Academic
Suspension” shall be placed on the students’ permanent records.

Students who are placed on academic suspension and wish to appeal should follow the appeal process established by the college. Suspended students may be reinstated at the conclusion of the suspension period by following the process established by the college.

Students who have been reinstated from academic suspension must achieve a 2.00 GPA for the semester of their reinstatement and must earn at least a 1.75 GPA in each subsequent semester of attendance. The statement “Subject to Dismissal” shall be placed on the students’ permanent records. Students who have been reinstated from academic suspension will remain subject to dismissal until their cumulative GPA is raised to a minimum of 1.75. Reinstated students may be required to carry less than a normal course load the following semester and are required to consult with their advisor/counselor. Colleges are encouraged to make additional academic support available to students who have been reinstated following academic suspension.

**Academic Dismissal**

Students who do not attain at least a 2.00 GPA for the semester of reinstatement following academic suspension shall be academically dismissed. Students who achieve at least a 2.00 GPA for the semester of their reinstatement following academic suspension must earn at least a 1.75 GPA in each subsequent semester of enrollment. Failure to attain a 1.75 GPA in each subsequent semester until the cumulative GPA reaches 1.75 shall result in academic dismissal. The statement “Academic Dismissal” shall be placed on the students’ permanent records. Academic dismissal is normally permanent. In exceptional circumstances, students may appeal and be reinstated following processes established by the college. Students who have been reinstated after academic dismissal will remain subject to dismissal until their cumulative GPA is raised to a minimum of 1.75. Reinstated students may be required to carry less than a normal course load the following semester and are required to consult with their advisor/counselor. Colleges are encouraged to make additional academic support available to students who have been reinstated following academic dismissal.

**Requirement Term (Catalog Year) for Graduation**

The Requirement Term (Catalog Year) used to determine graduation requirements is the one in effect at the time the student declares their major. Students who wish to graduate under current catalog requirements may do so by completing the student information change form. Students may not meet graduation requirements based on any catalog that is prior to their initial enrollment in a declared major.

Graduation requirements for students who remain actively enrolled in a program of study will be determined by the catalog current upon initial enrollment in a declared major. Students who have not enrolled for a calendar year or longer must meet the requirements of the catalog current at the time the student re-enrolls, unless otherwise approved by the Vice President of Academic and Student Services.

Students intending to receive a degree, diploma, certificate, or career studies certificate must submit an “Application to Graduate” to the Registrar’s office. To be awarded an associate degree, diploma, certificate, or career studies certificate at PHCC, a student must have been admitted to a curriculum; and

1. have fulfilled all of the course and credit hour requirements of the program as set forth in the college catalog; and
2. have acquired at least 25% of program requirements for an associate degree or diploma through course completion at PHCC; and
3. have demonstrated computer competency skills as defined by the college; and
4. have acquired at least 25% of the credits in specialized courses for a certificate through course completion at PHCC; and
5. have been recommended for graduation by the appropriate instructional authority in the program of study; and
6. have earned a grade point average of at least 2.0 in all courses attempted which are applicable toward graduation in the program of study;
7. have filed an application for graduation (which may be waived in case of the General Education Certificate) by the established deadline; and
8. have resolved all financial obligations to the college and returned all library and other college materials.

**Outcomes Assessment.** In order to meet PHCC graduation requirements, all degree students must satisfactorily complete Virginia Community College System Core Competency testing standards. Core Competency testing is scheduled during a two week assessment period twice each year, once in October and once in March. Please see your program advisor to determine the best time for you to complete the testing.

**Multiple Degrees**

Students may be eligible to graduate with multiple degrees and certificates if the content of the curricula differs from one another by at least 25 percent. Questions regarding the awarding of multiple degrees should be directed to the appropriate Academic Dean or to the Registrar.

**Replacement Degrees**

PHCC will issue replacement degrees, diplomas, certificates, and career studies certificates previously awarded to students for a $10 fee provided the graduate does not have an outstanding debt to the college.
Official Transcripts

All of the information required to identify a student and describe the student’s academic progress is recorded on a permanent record, including courses failed and repeated and courses not applicable to the curriculum of graduation. When a transcript is issued, all of this information is included and accompanied by explanation, if necessary. The Registrar issues transcripts upon the student’s electronic request received via myPHCC options on the college’s web site www.ph.vccs.edu or upon signed, written request.

A student file folder apart from the permanent record may be kept for each student. The folder shall be developed cooperatively by college staff members and may include the following information: college achievement and experience; results of standardized tests; health records; in-school and out-of-school activities; and educational and vocational plans. Retention of records and specific records retained are outlined in the VCCS Policy Manual, Section 6.2.7.

Privacy of Information

PHCC abides by the Family Educational Rights and Privacy Act of 1974 as amended, and the U. S. Department of Education’s regulations implementing this act. Student records are treated as confidential information available only for the student’s personal inspection and upon the student’s personally authorized release, with very limited lawful exceptions. “Directory Information” such as the student’s name, participation in officially recognized activities and sports, address, telephone listing, weight and height of members of athletic teams, electronic mail address, degrees, honors, and awards received, date and place of birth, major field of study, dates of attendance, grade level, the most recent educational agency or institution attended, and course credit load may be released unless a student notifies the Registrar by the first week of classes in each semester that this information is to remain confidential. Requests for information will be evaluated by the Vice President of Academic and Student Services or designee.

PHCC is part of the Virginia Community College System which has a shared database of student information. As such, recorded data from one college may be viewed by appropriate staff at another or at the VCCS Central Office, if needed.

The Family Educational Rights and Privacy Act (FERPA) affords students certain rights with respect to their education records. These rights include:
- Inspect and review their educational records;
- Request an amendment to records that are believed to be inaccurate;
- Require the school to obtain written consent prior to disclosure of personally identifiable information, except those items noted herein;
- File a complaint with the U.S. Department of Education concerning alleged failures by the college to comply with FERPA.

- “Educational information: refers to any record maintained by an educational institution, including files, documents, and materials of any type which contain information directly related to students, and which allows a student to be identified. What is not included in the Educational Information is:
  - Sole possession records or private notes held by educational personnel which are not accessible or released to other personnel;
  - Law enforcement or campus security records which are solely for the law enforcement purposes;
  - Records related to individuals who are employed by the institution;
  - Records related to treatment provided by a physician, psychiatrist, psychologist, or other recognized professional;
  - Records of an institution which contain only information about an individual obtained after that person is no longer a student at the institution (i.e., alumni records).

Students who are protected under FERPA are those students who are currently enrolled or formerly enrolled, regardless of their age or status in regard to parental dependency. Students who have applied but have not attended an institution, and deceased students do not come under FERPA guidelines.

Information about college policy, rights of students under the Act, and procedure for handling alleged violations of the Act and/or regulations may be obtained from the coordinator of admissions and records, (276) 656-0311.

Parents’ Rights Under FERPA

Parents lose their FERPA rights when their child turns 18 or starts attending or taking classes in college (or any post-secondary institution), whichever happens first.

Under 20 USC 1232g(d) all rights of parents (including the right to inspect educational records and to consent to the disclosure of personally identifiable information) transfers to the student at the earlier of: 1) the attainment of age 18, or 2) attendance at an “institution of postsecondary education.” However, as stated later in this document, parents of a financially dependent student (defined by the IRS) may obtain their child’s records, but must submit proof of the student’s dependency (via most recent tax form) prior to receiving the requested information. As far as FERPA is concerned, a student’s spouse is an “unrelated third party,” and therefore, has no rights under FERPA. While there is an exception that allows a college to disclose educational information to parents of a financially dependent student in the absence of consent, there is no such exception for spouses, even if the spouse is supporting the student.
Student Records

In compliance with policies of the Virginia Community College System, the Virginia State Library and Archives, and guidelines of the American Association of Collegiate Registrars and Admissions Officers, the college maintains records listed.

1. Student Permanent Record. This includes:
   • credits transferred from other institutions, including the number of credit hours given;
   • semester in which the student is currently enrolled;
   • student social security number or ID number;
   • curriculum code;
   • course number, the course title, the hours attempted, the hours completed, and grade for each course;
   • grade point average for each semester attended;
   • cumulative grade point average of the student; and
   • academic action taken against the student including academic probation, suspension, and dismissal.

Disciplinary probation and disciplinary dismissal are not placed on student permanent records. If students request that transcripts of their records be sent to another college during the period in which they are involved in disciplinary action, statements may be placed on the transcripts stating “additional information available upon request from the Vice President of Academic and Student Services.”

2. Student Academic File. A student academic file, apart from the permanent record, may be kept for each student. The file may include, but is not limited to, the following information: college application; course substitution forms; results of standardized tests and college placement tests; demographic information; and changes in curriculum.

Retention of Student Records

Academic records shall be retained either on paper copy or electronically for permanent, three-year, and one-year periods at least as indicated below.

• Permanent Retention - from date of student graduation or transfer from the college.
  Student Permanent Record - The record is retained electronically and the original may be destroyed afterward.

• Three-Year Retention - from the date of student graduation or withdrawal from the college. These documents, which generally comprise the Student Admissions files, shall not be microfilmed.
  1. Application forms (Matriculated students)
  2. Letter(s) of acceptance
  3. Relevant admission correspondence
  4. Transcripts - other colleges
  5. Transcripts - high schools
  6. Immigration and Naturalization Service forms
  7. Advanced Placement information
  8. Readmission forms

  9. Withdrawal from college forms
  10. Residency classification forms
  11. Requests and disclosures of information (only transactions without student’s permission)

• Three-Year Retention - From date of origin. These documents shall not be microfilmed.
  1. Registration/Identification forms (hard copy)
  2. Add/Drop forms (hard copy)
  3. Withdrawal from class forms (hard copy)
  4. Faculty grade reports (Registrar’s copy)
  5. Educational placement tests results

• One-Year Retention - From date of origin. These documents shall not be microfilmed.
  1. Transcript request forms
  2. Graduation request forms
  3. Application forms (Non-matriculated students)
  4. Change of Grade forms
  5. Curriculum acceptance/change forms
  6. Graduation certifications
  7. Graduation checklists
  8. Name change requests and authorizations

Disposal/destruction of original records will be done by shredding, burning, pulping, or any combination thereof. The Student Permanent Record shall be the only official document of a student’s academic history and for records reconciliation.
Programs of Study
Associate of Arts & Sciences Degrees

Business Administration

General Studies

Specialization: African-American Studies
Specialization: Appalachian Studies
Specialization: Criminal Justice
Specialization: Gender Studies
Specialization: Human Services
Specialization: Information Technology
Specialization: Performing Arts
Specialization: Recreation, Parks, & Leisure Studies
Specialization: Teacher Education Preparation
Specialization: Visual Arts

Science

Specialization: Medical Science

Associate of Applied Science Degrees

Administration of Justice

Business Technology

Major: Accounting
Major: Administrative Support Technology
  Specialization: Medical Office
Major: Management
  Specialization: E-Commerce
  Specialization: Entrepreneurship/Small Business
  Specialization: International Business

Education Assisting

Emergency Medical Services
  Paramedic

General Engineering Technologies

Health Technology
  Nursing

Industrial Electronics Technology

Information Systems Technology
  Specialization: Accounting Information Systems
  Specialization: Game Design and Development
  Specialization: Internet Services

Legal Assisting

Technical Studies
  Specialization: Agribusiness
  Specialization: Motorsports Technology

Graduation Requirements

In order to meet Patrick Henry Community College graduation requirements, all associates-degree students must complete Virginia Community College Core Competency testing. Testing is an on-going process and will be primarily administered during the capstone course (or other designated course) associated with a given degree. Please see the program advisor to determine and schedule appropriate times to complete Core Competency testing.
Business Administration

**Award:** Associate of Arts & Sciences  
**Length:** 4 Semesters

**Purpose:** The curriculum is designed for the student who plans to complete a baccalaureate degree program. The transfer institution’s catalog and transfer guide are the best sources of information for planning a course of study. Final responsibility for transferability of courses rests with the student and the registrar of that institution.

**Admission Requirements:** Students must meet the general admission requirements established by the college. Students with deficiencies in English or mathematics will complete appropriate developmental education courses. Students with deficiencies in computer skills will complete additional coursework.

**Other Information:** Students planning ahead for this curriculum will find it most helpful to have completed college preparatory curriculum courses in high school in areas such as English, mathematics (two units of algebra and one of plane geometry), laboratory science, social studies, and foreign language.

**Transfer Information:** The student should become familiar with the requirements of the major department in the college or university to which transfer is contemplated and also consult the assigned academic advisor before planning a program of study. In order to prepare for junior class standing at a four-year college or university, the student must complete a program that is comparable in length and course content to the first two years of the program at the four-year institution.

Counselors have transfer guides from many institutions to assist in selection of courses. Every institution has unique requirements, so the student should investigate the programs of each institution under consideration for transfer.

Students should be particularly careful to select electives that correspond to requirements of the transfer institution.

**Curriculum Requirements:** Students must successfully complete all of the requirements listed below to be awarded this degree.

**Program Outcomes:** A student will be able to:
- Demonstrate minimum proficiency in General Education Skills which are defined as oral communication, written communication, mathematical/problem solving, scientific reasoning, information literacy, and critical thinking;
- Apply the principles of financial accounting;
- Define key terminology associated with microeconomics;
- Apply the key principles associated with macroeconomics;

**General Education Requirements (23 Credits):**

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>CST</td>
<td>110</td>
<td>Introduction to Communication (3)</td>
</tr>
<tr>
<td>ENG</td>
<td>111-112</td>
<td>College Composition I-II (6)</td>
</tr>
<tr>
<td>HIS</td>
<td>121-122</td>
<td>United States History I-II (6)</td>
</tr>
<tr>
<td>[or HIS 101-102]</td>
<td>History of Western Civilization I-II (6)</td>
<td></td>
</tr>
<tr>
<td>MTH</td>
<td>163</td>
<td>Precalculus I (3)</td>
</tr>
</tbody>
</table>

**Program Requirements (37 Credits):**

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>ACC</td>
<td>211-212</td>
<td>Principles of Accounting I-II (6)</td>
</tr>
<tr>
<td>ECO</td>
<td>201</td>
<td>Principles of Macroeconomics (3)</td>
</tr>
<tr>
<td>ECO</td>
<td>202</td>
<td>Principles of Microeconomics (3)</td>
</tr>
<tr>
<td>ITE</td>
<td>119</td>
<td>Information Literacy (3)</td>
</tr>
<tr>
<td>MTH</td>
<td>241</td>
<td>Statistics I (3)</td>
</tr>
<tr>
<td>SDV</td>
<td>108</td>
<td>College Survival Skills (1)</td>
</tr>
<tr>
<td>SDV</td>
<td>199</td>
<td>Supervised Study in Transfer Programs (1)</td>
</tr>
</tbody>
</table>

**Transfer Laboratory Science (8 Credits):**

Must complete a two semester sequence

Courses may be selected from the following (other combinations approved by Division Dean):

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>BIO</td>
<td>101-102</td>
<td>General Biology I-II (4)(4)</td>
</tr>
<tr>
<td>BIO</td>
<td>231-232</td>
<td>Human Anatomy and Physiology I-II(4)(4)</td>
</tr>
<tr>
<td>CHM</td>
<td>111-112</td>
<td>College Chemistry I-II(4)(4)</td>
</tr>
<tr>
<td>GOL</td>
<td>105-106</td>
<td>Physical Geology – Historical Geology(4)(4)</td>
</tr>
<tr>
<td>PHY</td>
<td>201-202</td>
<td>General College Physics I-II(4)(4)</td>
</tr>
<tr>
<td>PHY</td>
<td>241-242</td>
<td>University Physics I-II(4)(4)</td>
</tr>
</tbody>
</table>

**Social Science Elective (3 Credits):**

Courses may be selected from the following:

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>GEO</td>
<td>210</td>
<td>People &amp; the Land: Introduction to Cultural Geography (3)</td>
</tr>
<tr>
<td>PLS</td>
<td>211</td>
<td>U.S. Government I (3)</td>
</tr>
<tr>
<td>PLS</td>
<td>212</td>
<td>U.S. Government II (3)</td>
</tr>
<tr>
<td>PSY</td>
<td>200</td>
<td>Principles of Psychology (3)</td>
</tr>
<tr>
<td>SOC</td>
<td>200</td>
<td>Principles of Sociology (3)</td>
</tr>
<tr>
<td>SOC</td>
<td>268</td>
<td>Social Problems (3)</td>
</tr>
</tbody>
</table>

**Fine Arts Electives (3 Credits):**

Selected from among transfer courses in art, literature, foreign language, music, philosophy, religion, or communication studies and theatre.

**College Transfer Electives (3 credits):**

Selected from transfer courses in business, information technology, science, mathematics, social sciences, the humanities, fine arts, and foreign language. MTH 242 (Statistics II) may be required at the transfer institution; check with the college or university for specific requirements. Other business courses which may be required at the transfer institution include BUS 100 (Intro. to Business) and/or BUS 241 (Business Law I); check with the college or university for specific requirements.

**Minimum required for degree:** 60 Credits
Sample Schedule
Business Administration

FIRST YEAR

Fall Semester
ENG 111 College Composition I 3
HIS 121 United States History I 3
(or HIS 101)
MTH 163 Precalculus I 3
SDV 108 College Survival Skills 1
Science with Laboratory Elective 4
14

Spring Semester
ENG 112 College Composition II 3
HIS 122 United States History II 3
(or HIS 102)
ITE 119 Information Literacy 3
MTH 271 Applied Calculus I 3
Science with Laboratory Elective 4
16

SECOND YEAR

Fall Semester
ACC 211 Principles of Accounting I 3
MTH 241 Statistics I 3
ECO 201 Principles of Macroeconomics 3
College Transfer Elective 3
Wellness Elective 2
Fine Arts Elective 3
17

Spring Semester
ACC 212 Principles of Accounting II 3
ECO 202 Principles of Microeconomics 3
CST 110 Introduction to Communication 3
SDV 199 Supervised Study in Transfer Programs 1
Social Science Elective 3
13

Total Semester Hours: 60
General Studies

**Award:** Associate of Arts and Sciences  
**Length:** 4 Semesters  
**Purpose:** The curriculum is designed for the student who plans to complete a baccalaureate degree program. Students often select the general studies program if they intend to transfer to a four-year institution but are uncertain what their major will be. The transfer institution’s catalog and transfer guide are the best sources of information for planning a course of study. Final responsibility for transferability of courses rests with the student and the registrar of that institution. Contact the division dean or an advisor for additional information.

**Admission Requirements:** Students must meet the general admission requirements established by the college. Students with deficiencies in English or mathematics will complete appropriate developmental education courses. Students with deficiencies in computer skills will complete additional coursework.

**Other Information:** Students planning ahead for this curriculum will find it most helpful to have completed college preparatory curriculum courses in high school in areas such as English, mathematics (two units of algebra and one of plane geometry), laboratory science, social studies, and foreign language.

**Transfer Information:** The student should become familiar with the requirements of the major department in the college or university to which transfer is contemplated and also consult the transfer institution's catalog and transfer guide are the best sources of information for planning a course of study. Final responsibility for transferability of courses rests with the student and the registrar of that institution. Contact the division dean or an advisor for additional information.

**Students should be particularly careful to select electives that correspond to requirements of the transfer institution.**

**Curriculum Requirements:** Students who successfully complete all of the requirements as listed will be awarded this degree.}

** Program Outcomes:** A student will be able to:  
** General Education:**  
- Demonstrate proficiency in oral communication;  
- Demonstrate effective written communication skills;  
- Demonstrate proficiency in mathematical skills to solve problems;  
- Demonstrate proficiency in scientific reasoning;  
- Demonstrate proficiency in information literacy;  
- Demonstrate the ability to reason critically and apply logic to solve problems;  

**Additional Program Learning Outcomes for Each Specialization:**  
- Identify and analyze the societal and cultural contributions of African-Americans prior to emancipation (African-American Studies Specialization);  
- Relate the themes and techniques of selected authors of the Appalachian region to the distinctive cultural elements of the region (Appalachian Studies Specialization);  
- Identify the social, cultural, and historical influences on gender and interpret those influences light of modern society (Gender Studies Specialization);  
- Comprehend areas of employment within the field of Human Services (Human Services Specialization);  
- Create a philosophy of education based on recreation and parks management. (Recreation, Parks, & Leisure Services Specialization);  
- Investigate areas of employment associated with performing arts (Performing Arts Specialization);  
- Create a portfolio of artwork demonstrating proficiency in specified concepts and techniques (Visual Arts Specialization);  

**Graduation Requirements:** In order to meet Patrick Henry Community College graduation requirements, all associates-degree students must complete Virginia Community College Core Competency testing. Testing is an on-going process and will be primarily administered during the capstone course (or other designated course) associated with a given degree. Please see the program advisor to determine and schedule appropriate times to complete Core Competency testing.

**General Education Requirements (23 Credits):**

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>ENG</td>
<td>College Composition I-II</td>
<td>6</td>
</tr>
<tr>
<td>CST</td>
<td>Introduction to Communication</td>
<td>3</td>
</tr>
<tr>
<td>HIS</td>
<td>United States History I-II</td>
<td>6</td>
</tr>
<tr>
<td>[or HIS 101-102 History of Western Civilization I-II (6)]</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

Choose one of the following combinations to fulfill the Math requirement (choose based on the requirements of the transfer institution):

- [a] MTH 163 Precalculus I (3)  
- and MTH 271 Applied Calculus I (3)  
- [b] MTH 151 Mathematics for the Liberal Arts I (3)  
- and MTH 152 Mathematics for the Liberal Arts II (3)  
- [c] MTH 163 Precalculus I (3)  
- and MTH 164 Precalculus II (3)  
- (d) MTH 175 Calculus of One Variable I (3)  
- and MTH 176 Calculus of One Variable II (3)  
- and MTH 177 Introductory Linear Algebra (2)  
- and MTH 178 Topics in Analytic Geometry (2)  
- [e] MTH 163 Precalculus I (3)  
- and MTH 241 Statistics I (3)  
- Wellness (2)—Health, P.E. or recreation courses which promote physical and emotional well being

**Program Requirements (37 Credits):**

NOTE: To select courses, student should consult the catalog of the institution(s) to which transfer is anticipated in addition to these requirements:

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>ITE</td>
<td>Information Literacy</td>
<td>3</td>
</tr>
<tr>
<td>SDV</td>
<td>College Survival Skills</td>
<td>1</td>
</tr>
<tr>
<td>SDV</td>
<td>Supervised Study in Transfer Programs</td>
<td>1</td>
</tr>
</tbody>
</table>
English (Literature Elective)(3 Credits) selected from:
ENG 241-242 Survey of American Literature I-II (3)(3)
ENG 243-244 Survey of English Literature I-II (3)(3)
ENG 251-252 Survey of World Literature I-II (3)(3)
ENG 253-254 Survey of African-American Literature I-II (3)(3)

Transfer Laboratory Science (8 Credits):
Must complete a two semester sequence
Courses may be selected from the following (other combinations approved by Division Dean):
BIO 101-102 General Biology I-II(4)(4)
BIO 231-232 Human Anatomy and Physiology I-II(4)(4)
CHM 111-112 College Chemistry I-II(4)(4)
GOL 105-106 Physical Geology – Historical Geology(4)(4)
PHY 201-202 General College Physics I-II(4)(4)
PHY 241-242 University Physics I-II(4)(4)

Social Science (6 Credits):
Courses may be selected from the following:
ECO 201 Principles of Macroeconomics (3)
ECO 202 Principles of Microeconomics (3)
GEO 210 People & the Land: Intro. to Cultural Geography (3)
PLS 211 U.S. Government I (3)
PLS 212 U.S. Government II (3)
PSY 200 Principles of Psychology (3)
SOC 200 Principles of Sociology (3)
SOC 268 Social Problems (3)

Specified Fine Arts Course (3 credits) selected from:
ART 101 Appreciation and History of Art I (3)
[or ART 201 History of Art I (3)]
ART 102 Appreciation and History of Art II (3)
[or ART 202 History of Art II (3)]
MUS 121 Music Appreciation I (3)
CST 130 Introduction to the Theatre (3)
[or CST 231 History of the Theatre I (3)]

Fine Art Elective (3 credits):
Selected from ART 101 or 201, ART 102 or 202, ENG 241-242, ENG 243-244, ENG 251-252, ENG 253-254, CST 130, CST 231, MUS 121, PHI 101, PHI 220, REL 200, REL 210, REL 231

College Transfer Electives (9 credits):
Selected from transfer courses in business, information technology, science, mathematics, social sciences, the humanities, fine arts, physical education, and foreign language.

Minimum required for degree: 60 Credits

Sample Schedule
General Studies
Without Specialization

FIRST YEAR

Fall Semester
ENG 111 College Composition I 3
HIS 121 United States History I 3
[or HIS 101]
MTH 163 Precalculus I 3
[or other approved math requirement ]
SDV 108 College Survival Skills 1
Science with Laboratory 4
14

Spring Semester
ENG 112 College Composition II 3
HIS 122 United States History II 3
[or HIS 102]
MTH 271 Applied Calculus I 3
[or other approved math requirement ]
ITE 119 Information Literacy 3
Science with Laboratory 4
16

SECOND YEAR

Fall Semester
CST 110 Introduction to Communication 3
ENG Lit. Literature Elective 3
SDV 199 Supervised Study in Transfer Program 1
Social Science 3
College Transfer Elective 3
Fine Arts Elective 3
16

Spring Semester
Social Science 3
Wellness 2
College Transfer Electives 6
Specified Fine Arts 3
14

Total Semester Hours: 60
General Studies
African American Studies Specialization

Award: Associate of Arts & Sciences
Length: 4 Semesters

General Education Requirements (23 Credits):
ENG 111-112 College Composition I-II (6)
CST 110 Introduction to Communication (3)
HIS 121-122 United States History I-II (6)
[HIS 101-102 History of Western Civilization I-II (6)]
ITE 119 Information Literacy (3)
MTH 151 Mathematics for Liberal Arts I (3)
Wellness (2)—Health, P.E. or recreation courses which promote physical and emotional well being

Program Requirements (37 Credits):
NOTE: To select courses, student should consult the catalog of the institution(s) to which transfer is anticipated in addition to these requirements:
SDV 108 College Survival Skills (1)
SDV 199 Supervised Study in Transfer Programs (1)
HIS 141 African-American History I (3)

Laboratory Science Elective (8 Credits):
Must complete a two semester sequence
Courses may be selected from the following (other combinations approved by Division Dean):
BIO 101-102 General Biology I-II (4)(4)
BIO 231-232 Human Anatomy and Physiology I-II (4)(4)
CHM 111-112 College Chemistry I-II (4)(4)
GOL 105-106 Physical Geology – Historical Geology (4)(4)
PHY 201-202 General College Physics I-II (4)(4)
PHY 241-242 University Physics I-II (4)(4)

Social Science Elective (6 Credits): Select from:
ECO 201 Principles of Macroeconomics (3)
ECO 202 Principles of Microeconomics (3)
GEO 210 People & Land: Intro. To Cultural Geography (3)
PLS 211 U.S. Government I (3)
PLS 212 U.S. Government II (3)
PSY 200 Principles of Psychology (3)
PSY 230 Developmental Psychology (3)
SOC 200 Principles to Sociology (3)

Humanities Elective (6 credits): Select from:
ART 101 Appreciation and History of Art I (3)
[ART 201 History of Art I (3)]
ART 102 Appreciation and History of Art II (3)
[ART 202 History of Art II (3)]
CST 130 Introduction to the Theatre (3)
[or CST 231 History of the Theatre I (3)]
ENG 241-242 Survey of American Literature I-II (3)(3)
ENG 243-244 Survey of English Literature I-II (3)(3)
ENG 251-252 Survey of World Literature I-II (3)(3)
FRE 101-102 Beginning French I-II (4)(4)
MUS 121 Music Appreciation I (3)
PHI 101 Introduction to Philosophy I (3)
PHI 220 Ethics (3)
REL 200 Survey of the Old Testament (3)
REL 210 Survey of the New Testament (3)
REL 231 Religions of the World I (3)
SPA 101-102 Beginning Spanish I-II (4)(4)

African American Studies Elective (6 credits):
Select from the following:
ENG 253 Survey of African-American Literature I (3)
ENG 254 Survey of African-American Literature II (3)
HIS 142 African-American History II (3)

PSY 219 Cross-Cultural Psychology (3)
SOC 295 Crime in the African-American Community (3)

Transfer Electives (6 credits)

Minimum required for degree: 60 Credits

Sample Schedule
African American Studies

FIRST YEAR
Fall Semester
ENG 111 College Composition I 3
HIS 121 United States History I 3
[HIS 101]
ITE 119 Information Literacy 3
SDV 108 College Survival Skills 1
Science with Laboratory 4 14

Spring Semester
ENG 112 College Composition II 3
HIS 122 United States History II 3
[HIS 102]
African American Studies Elective 3
Science with Laboratory 4
Transfer Elective 3 16

SECOND YEAR
Fall Semester
CST 110 Introduction to Communication 3
MTH 151 Math for Liberal Arts I 3
[or other approved math requirement]
African American Studies Elective 3
Humanities Elective 3
Social Science Elective 3

Spring Semester
African American Studies Elective 3
Humanities Elective 3
Social Science Elective 3
Wellness 2
Transfer Elective 3 14

Total Semester Hours: 60
General Studies

Appalachian Studies Specialization

**Award:** Associate of Arts & Sciences
**Length:** 4 Semesters

**General Education Requirements (23 Credits):**
- ENG 111-112 College Composition I-II (6)
- CST 110 Introduction to Communication (3)
- HIS 121-122 United States History I-II (6)
- [or HIS 101-102 History of Western Civilization I-II (6)]
- ITE 119 Information Literacy (3)
- MTH 151 Mathematics for Liberal Arts I (3)
- Wellness (2) Health, P.E. or recreation courses which promote physical and emotional well being

**Program Requirements (37 Credits):**
NOTE: To select courses, student should consult the catalog of the institution(s) to which transfer is anticipated in addition to these requirements:
- SDV 108 College Survival Skills (1)
- SDV 199 Supervised Study in Transfer Programs (1)
- ENG 278 Appalachian Literature (3)

**Laboratory Science Elective** (8 Credits):
Must complete a two semester sequence
Courses may be selected from the following (other combinations approved by Division Dean):
- BIO 101-102 General Biology I-II (4)(4)
- BIO 231-232 Human Anatomy and Physiology I-II (4)(4)
- CHM 111-112 College Chemistry I-II (4)(4)
- GOL 105-106 Physical Geology – Historical Geology (4)(4)
- PHY 201-202 General College Physics I-II (4)(4)
- PHY 241-242 University Physics I-II (4)(4)

**Social Science Elective** (6 Credits): Select from:
- ECO 201 Principles of Macroeconomics (3)
- ECO 203 Principles of Microeconomics (3)
- GEO 210 People & Land: Intro. Cultural Geography (3)
- PLS 211 U.S. Government I (3)
- PLS 212 U.S. Government II (3)
- PSY 200 Principles of Psychology (3)
- PSY 230 Developmental Psychology (3)
- SOC 200 Principles to Sociology (3)

**Humanities Elective** (6 credits): Select from:
- ART 101 Appreciation and History of Art I (3)
- [or ART 201 History of Art I (3)]
- ART 102 Appreciation and History of Art II (3)
- [or ART 202 History of Art II (3)]
- CST 130 Introduction to the Theatre (3)
- [or CST 231 History of the Theatre I (3)]
- ENG 241-242 Survey of American Literature I-II (3)(3)
- ENG 243-244 Survey of English Literature I-II (3)(3)
- ENG 251-252 Survey of World Literature I-II (3)(3)
- FRE 101-102 Beginning French I-II (4)(4)
- MUS 121 Music Appreciation I (3)
- PHI 101 Introduction to Philosophy I (3)
- PHI 220 Ethics (3)
- REL 200 Survey of the Old Testament (3)
- REL 210 Survey of the New Testament (3)
- REL 231 Religions of the World I (3)
- SPA 101-102 Beginning Spanish I-II (4)(4)

**Appalachian Studies Electives** (6 credits):
Select from the following:
- ENG 278 Appalachian Literature (3)
- ENG 288 Appalachian Folklore (3)
- MUS 218 Traditional Music and Musicians of Central Appalachia (3)
- GEO 210 People and Land: Intro to Cultural Geography (3)
- SOC 205 Rural Sociology (3)
- HIS 295 Special Topics in Appalachian Studies (3)
- PSY 219 Cross-Cultural Psychology (3)

**Transfer Electives** (6 credits)

**Minimum required for degree:** 60 Credits

Sample Schedule

Appalachian Studies

**FIRST YEAR**

**Fall Semester**
- ENG 111 College Composition I (3)
- HIS 121 United States History I (3)
- ITE 119 Information Literacy (3)
- SDV 108 College Survival Skills (1)
- Science with Laboratory (4)
- Transfer Elective (3)
- **Total Semester Hours:** 16

**Spring Semester**
- ENG 112 College Composition II (3)
- HIS 122 United States History II (3)
- MTH 151 Math for Liberal Arts I (3)
- Appalachian Studies Elective (3)
- Science with Laboratory (4)
- Transfer Elective (3)
- **Total Semester Hours:** 16

**SECOND YEAR**

**Fall Semester**
- CST 110 Introduction to Communication (3)
- MTH 151 Math for Liberal Arts I (3)
- Appalachian Studies Elective (3)
- Humanities Elective (3)
- Social Science Elective (3)
- SDV 199 Supervised Study in Transfer Programs (1)
- **Total Semester Hours:** 14

**Spring Semester**
- Appalachian Studies Elective (3)
- Humanities Elective (3)
- Social Science Elective (3)
- Wellness (2)
- Transfer Elective (3)
- **Total Semester Hours:** 14

**Total Semester Hours:** 60
General Studies

Criminal Justice Specialization

**Award:** Associate of Arts & Sciences

**Length:** 4 Semesters

**General Education Requirements (20 Credits):**

- ENG 111-112 College Composition I-II (6)
- CST 110 Introduction to Communication (3)
- HIS 121-122 United States History I-II (6)
- [or HIS 101-102 History of Western Civilization I-II (6)]
- MTH 163 Precalculus I (3)
- [or MTH 241 Statistics I (3)] *See a program advisor for the appropriate course selection.

**Social Science Elective (3 Credits):** Select from:

- ECO 201 Principles of Macroeconomics (3)
- ECO 202 Principles of Microeconomics (3)
- GEO 210 People & Land: Intro. to Cultural Geography (3)
- PLS 211 U.S. Government I (3)
- PSY 200 Principles of Psychology (3)
- SOC 200 Principles of Sociology (3)
- SOC 268 Social Problems (3)

**Humanities (3 credits):**

- REL 231 Religions of the World I (3)

**Humanities Elective (3 credits):** Select from:

- ART 101 Appreciation and History of Art I (3)
- ART 102 Appreciation and History of Art II (3)
- CST 130 Introduction to the Theatre (3)
- CST 231 History of the Theatre I (3)
- ENG 241-242 Survey of American Literature I (3)
- ENG 243-244 Survey of English Literature I (3)
- ENG 251-252 Survey of World Literature I (3)
- ENG 253-254 Survey of African-American Literature I (3)
- MUS 121 Music Appreciation I (3)
- PHI 101 Introduction to Philosophy I (3)
- PHI 220 Ethics (3)
- REL 200 Survey of the Old Testament (3)
- REL 210 Survey of the New Testament (3)
- REL 231 Religions of the World I (3)

**English (Literature Elective) (3 Credits)—selected from:**

- ENG 241-242 Survey of American Literature I (3)
- ENG 243-244 Survey of English Literature I (3)
- ENG 251-252 Survey of World Literature I (3)
- ENG 253-254 Survey of African-American Literature I (3)

**Criminal Justice Electives (9) Select from:**

- ADJ 100 Survey of Criminal Justice (3)
- ADJ 105 The Juvenile Justice System (3)
- ADJ 145 Corrections and the Community (3)
- ADJ 146 Adult Correctional Institutions (3)
- [or ADJ 140 Introduction to Corrections (3)]
- ADJ 201 Criminology (3)

**Minimum required for degree: 60 Credits**

**Sample Schedule**

**Criminal Justice**

**FIRST YEAR**

**Fall Semester**

- ENG 111 College Composition 3
- HIS 121 United States History I 3
- BIO 101-102 General Biology I-II(4)(4)
- CHM 111-112 College Chemistry I-II(4)(4)
- GOL 105-106 Physical Geology – Historical Geology (4)(4)
- PHY 201-202 General College Physics I-II(4)(4)
- ITE 119 Information Literacy (3)
- SDV 108 College Survival Skills (1)
- SDV 199 Supervised Study in Transfer Programs (1)
- ADJ 140 Introduction to Corrections (3)
- SDV 108 College Survival Skills (1)
- ADJ 100 Survey of Criminal Justice 3
- Transfer Lab Science 4
- Wellness 1
- Total Semester Hours: 45

**Spring Semester**

- ENG 112 College Composition II 3
- HIS 122 United States History II 3
- BIO 101-102 General Biology I-II(4)(4)
- CHM 111-112 College Chemistry I-II(4)(4)
- GOL 105-106 Physical Geology – Historical Geology (4)(4)
- PHY 201-202 General College Physics I-II(4)(4)
- ITE 119 Information Literacy (3)
- SDV 108 College Survival Skills (1)
- ADJ 100 Survey of Criminal Justice 3
- Transfer Lab Science 4
- Social Science Elective 3
- Total Semester Hours: 45

**SECOND YEAR**

**Fall Semester**

- ITE 119 Information Literacy 3
- REL 231 Religions of the World I 3
- Humanities Elective 3
- Wellness 1
- Foreign Language Elective 4
- MTH 163 Pre-calculus I 3
- Spring Semester
- SDV 199 Supervised Study in Transfer Programs 1
- Foreign Language Elective 4
- Humanities Elective 3
- Criminal Justice Elective 3
- English (Literature Elective) 3
- Total Semester Hours: 62
General Studies

Gender Studies Specialization

Award: Associate of Arts & Sciences
Length: 4 Semesters

General Education Requirements (23 Credits):
ENG 111-112 College Composition I-II (6)
CST 110 Introduction to Communication (3)
HIS 121-122 United States History I-II (6)
ITE 119 Information Literacy (3)
MTH 151 Mathematics for Liberal Arts I (3)
Wellness (2) Health, P.E. or recreation courses which promote physical and emotional well being

Program Requirements (37 Credits):
NOTE: To select courses, student should consult the catalog of the institution(s) to which transfer is anticipated in addition to these requirements:
SDV 108 College Survival Skills (1)
SDV 199 Supervised Study in Transfer Programs (1)

Laboratory Science Elective (8 Credits):
Must complete a two semester sequence
Courses may be selected from the following (other combinations approved by Division Dean):
BIO 101-102 General Biology I-II (4)(4)
BIO 231-232 Human Anatomy and Physiology I-II (4)(4)
CHM 111-112 College Chemistry I-II (4)(4)
GOL 105-106 Physical Geology – Historical Geology (4)(4)
PHY 241-242 University Physics I-II (4)(4)

Social Science Elective (6 Credits): Select from:
ECO 201 Principles of Macroeconomics (3)
ECO 202 Principles of Microeconomics (3)
GEO 210 People & Land: Intro. To Cultural Geography (3)
PLS 211 U.S. Government I (3)
PLS 212 U.S. Government II (3)
PSY 200 Principles of Psychology (3)
SOC 200 Principles to Sociology (3)

Humanities Elective (6 credits): Select from:
ART 101 Appreciation and History of Art I (3)
[or ART 201 History of Art I (3)]
ART 102 Appreciation and History of Art II (3)
[or ART 202 History of Art II (3)]
CST 130 Introduction to the Theatre (3)
[or CST 231 History of the Theatre I (3)]
ENG 241-242 Survey of American Literature I-II (3)(3)
ENG 243-244 Survey of English Literature I-II (3)(3)
ENG 251-252 Survey of World Literature I-II (3)(3)
ENG 253-254 Survey of African-American Literature I-II (3)(3)
FRE 101-102 Beginning French I-II (4)(4)
MUS 121 Music Appreciation I (3)
PHI 101 Introduction to Philosophy I (3)
PHI 220 Ethics (3)
REL 200 Survey of the Old Testament (3)
REL 210 Survey of the New Testament (3)
REL 231 Religions of the World I (3)
SPA 101-102 Beginning Spanish I-II (4)(4)

Gender Studies Electives (9 credits):
Select from the following:
ENG 273 Women in Literature I (3)
HIS 127 Women in American History (3)

Transfer Electives (6 credits)

Minimum required for degree: 60 Credits

Sample Schedule

Gender Studies

FIRST YEAR

Fall Semester
ENG 111 College Composition I 3
HIS 121 United States History I 3
ITE 119 Information Literacy 3
SDV 108 College Survival Skills 1
Science with Laboratory 4
Wellness 2
Transfer Elective 3

Spring Semester
ENG 112 College Composition II 3
HIS 122 United States History II 3
ITE 119 Information Literacy 3
SDV 108 College Survival Skills 1
Science with Laboratory 4
Transfer Elective 3

SECOND YEAR

Fall Semester
CST 110 Introduction to Communication 3
MTH 151 Math for Liberal Arts I 3
[or other approved math requirement]
Gender Studies Elective 3
Humanities Elective 3
Social Science Elective 3
SDV 199 Supervised Study in Transfer Programs 1

Spring Semester
Gender Studies Elective 3
Humanities Elective 3
Social Science Elective 3
Wellness 2
Transfer Elective 3

Total Semester Hours: 60
General Studies
Human Services Specialization

Award: Associate of Arts & Sciences
Length: 4 Semesters

General Education Requirements (20 Credits):
ENG 111-112 College Composition I-II (6)
CST 110 Introduction to Communication (3)
HIS 121-122 United States History I-II (6)
[or HIS 101-102 History of Western Civilization I-II (6)]
(MTH 151 - Mathematics for Liberal Arts I - or MTH 157 -
Elementary Statistics - is also accepted. Students should check with
their advisor before selected appropriate math courses).
MTH 152 Mathematics for Liberal Arts II (3)
Wellness (2) — Health, P.E. or recreation courses which
promote physical and emotional well being

Program Requirements (40 Credits):
NOTE: To select courses, student should consult the catalog of the
institution(s) to which transfer is anticipated in addition to these
requirements:
ITE 119 Information Literacy (3)
SDV 108 College Survival Skills (1)
SDV 199 Supervised Study in Transfer Programs (1)

Transfer Laboratory Science (8 Credits):
Must complete a two semester sequence
Courses may be selected from the following:
BIO 101-102 General Biology I-II(4)(4)
BIO 231-232 Human Anatomy and Physiology I-II(4)(4)

Social Science (6 Credits):
PSY 200 Principles of Psychology (3)
SOC 200 Principles to Sociology (3)

Humanities Elective (6 credits): Select from:
ART 101 Appreciation and History of Art I (3)
[or ART 201 History of Art I (3)]
ART 102 Appreciation and History of Art II (3)
[or ART 202 History of Art II (3)]
CST 130 Introduction to the Theatre (3)
[or CST 231 History of the Theatre I (3)]
ENG 241-242 Survey of American Literature I-II (3)(3)
ENG 243-244 Survey of English Literature I-II (3)(3)
ENG 251-252 Survey of World Literature I-II (3)(3)
ENG 253-254 Survey of African-American Literature I-II (3)(3)
MUS 121 Music Appreciation I (3)
PHI 101 Introduction to Philosophy I (3)
PHI 220 Ethics (3)
REL 200 Survey of the Old Testament (3)
REL 210 Survey of the New Testament (3)
REL 231 Religions of the World I (3)
SPA 101-102 Beginning Spanish I-II (4)(4)

Human Services (15 credits):
HMS 100 Introduction to Human Services (3)
HMS 162 Communication Skills for Human Services
Professionals (3)
HMS 195 Introduction to Developmental Disabilities (3)
HMS EEE Approved HMS Electives (6) Select from:
PSY 216 Social Psychology (3)
PSY 230 Developmental Psychology (3)
SOC 215 Sociology of the Family (3)
HMS 251 Substance Abuse I (3)
PSY 215 Abnormal Psychology (3)
HMS 290 Coordinated Internship in Human Services (3)
HMS 236 Gerontology (3)
PSY 219 Cross Cultural Psychology (3)
SOC 225 Sociology of Gender (3)

Minimum required for degree: 60 Credits

Sample Schedule

Human Services

FIRST YEAR

Fall Semester
ENG 111 College Composition I 3
HIS 121 United States History I 3
(or HIS 101)
SDV 108 College Survival Skills 1
HMS 100 Introduction to Human Services 3
Science with Laboratory 4

Spring Semester
ENG 112 College Composition II 3
HIS 122 United States History II 3
(or HIS 102)
HMS 162 Communication Skills for Human Services Professionals 3
PSY 200 Principles of Psychology I 3
Science with Laboratory 4

SECOND YEAR

Fall Semester
CST 110 Introduction to Communication 3
HMS 195 Introduction to Developmental Disabilities 3
HMS EEE Approved HMS Elective 3
Humanities Elective 3
SOC 200 Principles of Sociology 3
SDV 199 Supervised Study in Transfer Programs 1

Spring Semester
HMS EEE Approved Human Services Elective 3
ITE 119 Information Literacy 3
Humanities Elective 3
MTH 152 Math for Liberal Arts II 3
(or other approved math requirement)
Wellness 1

Total Semester Hours: 60
General Studies
Information Technology Specialization

Award: Associate of Arts and Sciences
Length: 4 Semesters

General Education Requirements (23 Credits):
ENG 111-112 College Composition I-II (6)
CST 110 Introduction to Communication (3)
HIS 121 United States History I-II (3)
[or HIS 101-102 History of Western Civilization I-II (6)]

Choose one of the following combinations to fulfill the Math requirement (choose based on the requirements of the transfer institution):
[a] MTH 163 Precalculus I (3) and MTH 271 Applied Calculus I (3)
[b] MTH 151 Mathematics for the Liberal Arts I (3) and MTH 152 Mathematics for the Liberal Arts II (3)
[c] MTH 163 Precalculus I (3) and MTH 164 Precalculus II (3)
[d] MTH 175 Calculus of One Variable I (3) and MTH 176 Calculus of One Variable II (3)
and MTH 177 Introduction to Linear Algebra (2) and MTH 178 Topics in Analytic Geometry (2)
[e] MTH 163 Precalculus I (3) and MTH 241 Statistics I (3)
SDV 108 College Survival Skills (1) Wellness (1)—Health, P.E. or recreation courses which promote physical and emotional well being

Program Requirements (38 Credits):
NOTE: To select courses, student should consult the catalog of the institution(s) to which transfer is anticipated in addition to these requirements:
SDV 199 Supervised Study in Transfer Programs (1)

Transfer Laboratory Science (8 Credits):
Must complete a two semester sequence
Courses may be selected from the following (other combinations approved by Division Dean):
BIO 101-102 General Biology I-II (4)(4)
BIO 231-232 Human Anatomy and Physiology I-II (4)(4)
CHM 111-112 College Chemistry I-II (4)(4)
GOL 105-106 Physical Geology – Historical Geology (4)(4)
PHY 201-202 General College Physics I-II (4)(4)
PHY 241-242 University Physics I-II (4)(4)

Social Science Electives (6 Credits):
Courses may be selected from the following:
ECO 201 Principles of Macroeconomics (3)
ECO 202 Principles of Microeconomics (3)
GEO 210 People & Land: Intro. to Cultural Geography (3)
PLS 211 U.S. Government I (3)
PLS 212 U.S. Government II (3)
PSY 200 Principles of Psychology (3)
SOC 200 Principles of Sociology (3)
SOC 268 Social Problems (3)

Fine Arts Elective (3 credits):
Selected from college transfer courses in art, communication studies, foreign language, literature, music, philosophy, religion and theatre.

Information Systems Requirements (14 credits):
Courses may be selected from the following:
CSC 200 Introduction to Computer Science (3)
CSC 201 Computer Science I (4)
CSC 202 Computer Science II (4)
CSC 205 Computer Organization (3)

College Transfer Electives (6 Credits)
Selected from transfer courses in business, engineering, fine arts, the humanities, information technology (ITE 119, ITN 154, ITN 155, ITP 132, ITP 120, ITP 220), mathematics, physical education, science and social sciences.

Minimum required for degree: 61 Credits

Sample Schedule
Information Technology Specialization

FIRST YEAR

Fall Semester
ENG 111 College Composition I 3
MTH (from approved math requirement list) 3
SDV 108 College Survival Skills 1
CSC 200 Introduction to Computer Science 3
CSC 201 Computer Science I 4
Wellness 1
15

Spring Semester
ENG 112 College Composition II 3
CST 110 Introduction to Communication 3
MTH (from approved math requirement list) 3
CSC 202 Computer Science II 4
College Transfer Elective 3
16

SECOND YEAR

Fall Semester
HIS 121 United States History I 3
(or HIS 101)
Social Science 3
Science with Laboratory 4
CSC 205 Computer Organization 3
Fine Arts Elective 3
16

Spring Semester
HIS 122 United States History II 3
(or HIS 102)
Social Science 3
SDV 199 Supervised Study in Transfer Programs 1
Science with Laboratory 4
College Transfer Elective 3
14

Total Semester Hours: 61
General Studies
Performing Arts Specialization

General Education Requirements (28 Credits):
ENG 111-112 College Composition I-II (6)
CST 110 Introduction to Communication (3)
HIS 121-122 United States History I-II (6)
[or HIS 101-102 History of Western Civilization I-II (6)]
ITE 119 Information Literacy (3)
MTH 151 Mathematics for Liberal Arts I (3)
MTH 157 Elementary Statistics (3)
SDV 108 College Survival Skills (1)
SDV 199 Supervised Study in Transfer Programs (1)
Wellness (2)—Health, P.E. or recreation courses which promote physical and emotional well being

Program Requirements (32 Credits):
NOTE: To select courses, student should consult the catalog of the institution(s) to which transfer is anticipated in addition to these requirements:

Laboratory Science Elective (8 Credits):
Must complete a two semester sequence
Courses may be selected from the following (other combinations approved by Division Dean):
BIO 101-102 General Biology I-II (4)(4)
BIO 141-142 Human Anatomy and Physiology I-II (4)(4)
CHM 111-112 College Chemistry I-II (4)(4)
GOL 105-106 Physical Geology – Historical Geology (4)(4)
PHY 201-202 General College Physics I-II (4)(4)
PHY 241-242 University Physics I-II (4)(4)

Social Science Elective (6 Credits): Select from:
ECO 201 Principles of Macroeconomics (3)
ECO 202 Principles of Microeconomics (3)
GEO 210 People & Land: Intro. to Cultural Geography (3)
PLS 211 U.S. Government I (3)
PLS 212 U.S. Government II (3)
PSY 200 Principles of Psychology (3)
PSY 230 Developmental Psychology (3)
SOC 200 Principles to Sociology (3)

Humanities Elective (6 credits): Select from:
ART 101 Appreciation and History of Art I (3)
[or ART 201 History of Art I (3)]
ART 102 Appreciation and History of Art II (3)
[or ART 202 History of Art II (3)]
ENG 241-242 Survey of American Literature I-II (3)(3)
ENG 243-244 Survey of English Literature I-II (3)(3)
ENG 251-252 Survey of World Literature I-II (3)(3)
ENG 253-254 Survey of African-American Literature I-II (3)(3)
FRE 101-102 Beginning French I-II (4)(4)
MUS 121 Music Appreciation I (3)
PHI 101 Introduction to Philosophy I (3)
PHI 220 Ethics (3)
REL 200 Survey of the Old Testament (3)
REL 210 Survey of the New Testament (3)
REL 231 Religions of the World I (3)
SPA 101-102 Beginning Spanish I-II (4)(4)

Performing Arts Electives (12 credits):
Choose from the following:
CST 130 Introduction to the Theater (3)
CST 131 Acting I (3)
CST 132 Acting II (3)
CST 136 Theater Workshop (3)
CST 231 History of Theater (3)

Minimum required for degree: 60 Credits

Sample Schedule
Performing Arts Specialization

FIRST YEAR
Fall Semester
ENG 111 College Composition I 3
HIS 121 United States History I 3
[or HIS 101]
ITE 119 Information Literacy 3
SDV 108 College Survival Skills 1
Science with Laboratory 4
MTH 151 Math for Liberal Arts I 3
Total Semester Hours: 16

Spring Semester
ENG 112 College Composition II 3
HIS 122 United States History II 3
[or HIS 102]
Performing Arts Elective 3
Science with Laboratory 4
MTH 151 Math for Liberal Arts I 3
Total Semester Hours: 16

SECOND YEAR
Fall Semester
CST 110 Introduction to Communication 3
MTH 157 Elementary Statistics 3
Performing Arts Elective 3
Humanities Elective 3
Social Science Elective 3
Total Semester Hours: 16

Spring Semester
Wellness 2
Performing Arts Elective 3
Performing Arts Elective 3
Humanities Elective 3
Social Science Elective 3
Total Semester Hours: 14

Total Semester Hours: 60
General Studies
Recreation, Parks, and Leisure Studies Specialization

**Award:** Associate of Arts & Sciences  
**Length:** 4 Semesters

**General Education Requirements (23 Credits):**
- ENG 111-112 College Composition I-II (6)
- CST 110 Introduction to Communication (3)
- HIS 121-122 United States History I-II (6)
  
**[or HIS 101-102] History of Western Civilization I-II (6)**
- ITE 119 Information Literacy (3)
- MTH 151 Mathematics for Liberal Arts I (3)
- Wellness (2) Health, P.E. or recreation courses which promote physical and emotional well being

**Program Requirements (37 Credits):**

**NOTE:** To select courses, student should consult the catalog of the institution(s) to which transfer is anticipated in addition to these requirements:
- SDV 108 College Survival Skills (1)
- SDV 199 Supervised Study in Transfer Programs (1)

**Laboratory Science Elective (8 Credits):**
Must complete a two semester sequence  
Courses may be selected from the following (other combinations approved by Division Dean):
- BIO 101-102 General Biology I-II (4)(4)
- BIO 231-232 Human Anatomy and Physiology I-II (4)(4)
- CHM 111-112 College Chemistry I-II (4)(4)
- GOL 105-106 Physical Geology – Historical Geology (4)(4)
- PHY 201-202 General College Physics I-II (4)(4)
- PHY 241-242 University Physics I-II (4)(4)

**Social Science Elective (6 Credits):** Select from:  
- ECO 201 Principles of Macroeconomics (3)
- ECO 202 Principles of Microeconomics (3)
- GEO 210 People & the Land: Intro. Cultural Geography (3)
- PLS 211 U.S. Government I (3)
- PLS 212 U.S. Government II (3)
- PSY 200 Principles of Psychology (3)
- PSY 230 Developmental Psychology (3)
- SOC 200 Principles to Sociology (3)

**Humanities Electives (6 credits):** Select from:  
- ART 101 Appreciation and History of Art I (3)
- [or ART 201] History of Art I (3)
- ART 102 Appreciation and History of Art II (3)
- [or ART 202] History of Art II (3)
- CST 130 Introduction to the Theatre (3)
- [or CST 231] History of the Theatre I (3)
- ENG 241-242 Survey of American Literature I-II (3)(3)
- ENG 243-244 Survey of English Literature I-II (3)(3)
- ENG 251-252 Survey of World Literature I-II (3)(3)
- ENG 253-254 Survey of African-American Literature I-II (3)(3)
- FRE 101-102 Beginning French I-II (4)(4)
- MUS 121 Music Appreciation I (3)
- PHI 101 Introduction to Philosophy I (3)
- PHI 220 Ethics (3)
- REL 200 Survey of the Old Testament (3)
- REL 210 Survey of the New Testament (3)
- REL 231 Religions of the World I (3)
- SPA 101-102 Beginning Spanish I-II (4)(4)

**Recreation, Parks, and Leisure Studies** (15 credits):
- PED 210 Introduction to Physical Education and Health (3)
- RPK 100 Introduction to Recreation, Parks, and Leisure Studies (3)
- RPK 201 Recreation and Parks Management (3)
- RPK 210 Principles and Psychology of Coaching (3)
- RPK 265 Risk Management (3)

**Minimum required for degree:** 60 Credits

Sample Schedule
Recreation, Parks, & Leisure Studies

**FIRST YEAR**

**Fall Semester**
- ENG 111 College Composition I 3
- HIS 121 United States History I 3
- PED 210 Introduction to Physical Education & Health 3
- SDV 108 College Survival Skills 1
- Science with Laboratory 4
- **Total Semester Hours: 14**

**Spring Semester**
- ENG 112 College Composition II 3
- HIS 122 United States History II 3
- ITE 119 Information Literacy 3
- RPK 100 Intro. to Recreation, Parks, & Leisure Studies 3
- Science with Laboratory 4
- **Total Semester Hours: 16**

**SECOND YEAR**

**Fall Semester**
- CST 110 Introduction to Communication 3
- Humanities Elective 3
- MTH 151 Math for Liberal Arts I 3
- [or other approved math requirement]
- RPK 201 Recreation & Parks Management 3
- Social Science Elective 3
- SDV 199 Supervised Study in Transfer Programs 1
- **Total Semester Hours: 16**

**Spring Semester**
- Humanities Elective 3
- RPK 210 Principles & Psychology of Coaching 3
- RPK 265 Risk Management 3
- Social Science Elective 3
- Wellness 2
- **Total Semester Hours: 14**

**Total Semester Hours: 60**
General Studies

Visual Arts Specialization

Award: Associate of Arts & Sciences
Length: 4 Semesters

General Education Requirements (23 Credits):
ENG 111-112 College Composition I-II (6)
HIS 121-122 United States History I-II (6)
[or HIS 101-102 History of Western Civilization I-II (6)]
Choose one of the following combinations to fulfill the Math requirement based on requirements of the transfer institution:
[a] MTH 163 Precalculus I (3)
and MTH 271 Applied Calculus I (3)
[b] MTH 151 Mathematics for the Liberal Arts I (3)
and MTH 152 Mathematics for the Liberal Arts II (3)
[c] MTH 163 Precalculus I (3)
and MTH 164 Precalculus II (3)
[d] MTH 175 Calculus of One Variable I (3)
and MTH 176 Calculus of One Variable II (3)
and MTH 177 Introductory Linear Algebra (2)
and MTH 178 Topics in Analytic Geometry (2)
[e] MTH 163 Precalculus I (3)
and MTH 241 Statistics I (3)
CST 110 Introduction to Communication (3)
Wellness (2) Health, P.E. or recreation courses which promote physical and emotional well being

Program Requirements (37 Credits):
ITE 119 Information Literacy (3)
SDV 108 College Survival Skills (1)
SDV 199 Supervised Study in Transfer Programs (1)

ART Electives (12): Select from:
ART 101 Appreciation and History of Art I (3)
ART 102 Appreciation and History of Art II (3)
ART 122 Drawing II (3)
ART 151 Theory and Practice of Ceramics I (3)
ART 201 Art History I (3)
ART 202 Art History II (3)
ART 241 Painting I (3)
ART 242 Painting II (3)

English (Literature Elective)(3 Credits)—selected from:
ENG 241-242 Survey of American Literature I-II (3)(3)
ENG 243-244 Survey of English Literature I-II (3)(3)
ENG 251-252 Survey of World Literature I-II (3)(3)
ENG 253-254 Survey of African-American Literature I-II (3)(3)

Transfer Laboratory Science (8 Credits):
Must complete a two semester sequence

Social Science (6 Credits):
Courses may be selected from the following:
ECO 201 Principles of Macroeconomics (3)
ECO 202 Principles of Microeconomics (3)
GEO 210 People & the Land: Intro. to Cult. Geog. (3)
PLS 211 U.S. Government I (3)
PLS 212 U.S. Government II (3)
PSY 200 Principles of Psychology (3)
PSY 201 Introduction to Psychology I (3)
PSY 202 Introduction to Psychology II (3)
SOC 200 Principles of Sociology (3)

Total Semester Hours: 60

College Transfer Electives (3 credits)

Minimum required for degree: 60 Credits

Sample Schedule

Visual Arts

FIRST YEAR

Fall Semester
Art Program Elective 3
ENG 111 College Composition I 3
HIS 121 United States History I 3
[or HIS 101]
SDV 108 College Survival Skills 1
Science with Laboratory 4

Spring Semester
Art Program Elective 3
ENG 112 College Composition II 3
HIS 122 United States History II 3
[or HIS 102]
ITE 119 Information Literacy 3
Science with Laboratory 4

SECOND YEAR

Fall Semester
Art Program Elective 3
Art Program Elective 3
ENG Literature Elective 3
SDV 199 Supervised Study in Transfer Programs 1
Social Science 3
MTH 163 Precalculus I 3
[or other approved math requirement ]

Spring Semester
Art Program Elective 3
Social Science 3
MTH 271 Applied Calculus I3
[or other approved math requirement ]
CST 110 Introduction to Communication 3
Wellness 2

Total Semester Hours: 60
General Studies
Teacher Education Preparation Specialization

Award:  Associate of Arts & Sciences
Length:  4 Semesters

Purpose: This specialization has been developed to facilitate transfer of credits earned by students with the Associate of Arts & Science (AA&S) degree in General Studies by taking a prescribed set of courses at Patrick Henry Community College to the Liberal Studies Elementary Education PreK-6 Initial Licensure Program at Longwood University.

NOTE: Students wishing to complete teacher education at institutions other than Longwood University should enroll in the General Studies (no specialization) program. Moreover, students should also contact their transfer institution in order to determine specific degree requirements.

Admission Requirements: Longwood will guarantee acceptance of qualified PHCC graduates with an AA&S degree who have earned a minimum grade point average (GPA) of 2.5 on a four point scale at the time of application and graduation. This cumulative GPA includes the GPA as calculated by PHCC and the cumulative GPA of all other colleges attended. The GPA of 2.5 may not include more than five classes retaken with only the higher grade being calculated by the GPA. Students with a GPA below 2.5 at the time of application and/or time of graduation may be considered for admission but without the guaranteed acceptance.

Other Information: Students are strongly encouraged to apply by March 1 (for fall term) and November 1 (for spring term).

Credits earned through examination (AP, IB, CLEP, or DANTES) that were awarded credit by PHCC will be treated on an equal basis as other credits earned at PHCC. Official transcripts from each college attended and/or official documentation regarding these examinations must be provided.

Students are required to pass PRAXIS I.

Transfer Information: Longwood University agrees that PHCC graduates who are accepted will be granted junior status; all of their credits earned toward their AA&S degree will transfer (including D grades except for ENG 111, PSY 230, and EDU 200); and all of their lower-division general education goals will be met. This assumption is based on the fact that students have completed courses as outlined below.

PHCC students who complete the associate degree through dual enrollment are NOT guaranteed admission under the terms of the transfer agreement. However, such students may apply to Longwood as freshmen. When these students' applications are reviewed, high school performance, test scores (SAT/ACT), and other criteria used in the freshman review process will be considered.

Program Outcomes: A student will be able to:
• Demonstrate proficiency in oral communication;
• Demonstrate effective written communication skills;
• Demonstrate proficiency in mathematical skills to solve problems;
• Demonstrate proficiency in scientific reasoning;
• Demonstrate proficiency in information literacy;
• Demonstrate the ability to reason critically and apply logic to solve problems;
• Complete a supervised field placement of a minim of 40 hours in a preK-6 environment (Teacher Education Preparation);

Graduation Requirements: In order to meet Patrick Henry Community College graduation requirements, all associates-degree students must complete Virginia Community College Core Competency testing. Testing is an on-going process and will be primarily administered during the capstone course (or other designated course) associated with a given degree. Please see the program advisor to determine and schedule appropriate times to complete Core Competency testing.

General Education Requirements (29 Credits):

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
</tr>
</thead>
<tbody>
<tr>
<td>ENG 111</td>
<td>College Composition I (3)</td>
</tr>
<tr>
<td>ENG 112</td>
<td>College Composition II (3)</td>
</tr>
<tr>
<td>ENG 241</td>
<td>Survey of American Literature I (3)</td>
</tr>
<tr>
<td>or ENG 242</td>
<td>Survey of American Literature II (3)</td>
</tr>
<tr>
<td>or ENG 243</td>
<td>Survey of English Literature I (3)</td>
</tr>
<tr>
<td>or ENG 244</td>
<td>Survey of English Literature II (3)</td>
</tr>
<tr>
<td>or ENG 251</td>
<td>Survey of World Literature I (3)</td>
</tr>
<tr>
<td>or ENG 252</td>
<td>Survey of World Literature II (3)</td>
</tr>
<tr>
<td>HIS 121</td>
<td>United States History I (3)</td>
</tr>
<tr>
<td>HIS 122</td>
<td>United States History II (3)</td>
</tr>
<tr>
<td>HIS 101</td>
<td>History of Western Civilization I (3)</td>
</tr>
<tr>
<td>or HIS 102</td>
<td>History of Western Civilization II (3)</td>
</tr>
</tbody>
</table>

Choose one of the following combinations [a or b] to fulfill the Math requirement (choose based on the requirements of the transfer institution):

[a] MTH 163  Precalculus I (3)
and MTH 241  Statistics I (3)
[b] MTH 151  Mathematics for the Liberal Arts I (3)
and MTH 152  Mathematics for the Liberal Arts II (3)

CST 110  Introduction to Communication (3)
Wellness (2)  Health, P.E. or recreation courses which promote physical and emotional well being

Program Requirements (31 Credits):

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
</tr>
</thead>
<tbody>
<tr>
<td>EDU 200</td>
<td>Introduction to Teaching as a Profession (3)</td>
</tr>
<tr>
<td>GEO 210</td>
<td>People and Land: Intro to Cultural Geography (3)</td>
</tr>
<tr>
<td>ITE 119</td>
<td>Information Literacy (3)</td>
</tr>
<tr>
<td>SDV 101</td>
<td>Orientation to Education (1)</td>
</tr>
<tr>
<td>or SDV 108</td>
<td>College Survival Skills (1)</td>
</tr>
<tr>
<td>SDV 199</td>
<td>Supervised Study in Transfer Programs (1)</td>
</tr>
</tbody>
</table>

Transfer Laboratory Science (8 Credits)

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
</tr>
</thead>
<tbody>
<tr>
<td>BIO 101</td>
<td>General Biology I (4)</td>
</tr>
<tr>
<td>BIO 102</td>
<td>General Biology II (4)</td>
</tr>
</tbody>
</table>
**Social Science Elective (6 Credits):**
ECO  201  Principles of Macroeconomics (3)
[or ECO 202  Principles of Microeconomics (3)]
PLS  135  American National Politics (3)

**Humanities/Fine Arts Electives (6 Credits):**
Courses may be selected from the following:
ART  101  History and Appreciation of Art I (3)
ART  102  History and Appreciation of Art II (3)
ART  201  History of Art I (3)
ART  202  History of Art II (3)
CST  130  Introduction to the Theatre (3)
MUS  121  Music Appreciation I (3)
MUS  122  Music Appreciation II (3)]

Minimum required for degree: 60 Credits

**Sample Schedule**

**Teacher Education Preparation**

**FIRST YEAR**

**Fall Semester**
ENG   111  College Composition I  3
HIS   121  United States History I   3
MTH   163  Precalculus I   3
(or MTH 151 )
SDV   101  Orientation to Education   1
(or SDV 108)
Wellness Elective  2

**Spring Semester**
ART/MUS/CST  Humanities/Fine Arts Elective  3
ENG   112  College Composition II   3
HIS   122  United States History II   3
ITE   119  Information Literacy   3
MTH   241  Statistics I   3
(or MTH 152)
PLS   135  American National Politics   3

**SECOND YEAR**

**Fall Semester**
BIO   101  General Biology I   4
ECO   201  Principles of Macroeconomics   3
(or ECO 202)
EDU   200  Introduction to Teaching as a Profession   3
HIS   101  History of Western Civilization I   3
(or HIS 102)
CST   110  Introduction to Communication   3

**Spring Semester**
ART/MUS/CST  Humanities/Fine Arts Elective  3
BIO   102  General Biology II   4
ENG   Literature Elective   3
GEO   210  People & the Land: Intro. to Cult. Geography   3
SDV   199  Supervised Study in Transfer Programs   1

**Total Semester Hours: 60**
Science

Award: Associate of Arts and Sciences
Length: 4 Semesters

Purpose: The curriculum is designed for the student who plans to complete a baccalaureate degree program. The transfer institution's catalog and transfer guide are the best sources of information for planning a course of study. Final responsibility for transferability of courses rests with the student and the registrar of that institution.

Admission Requirements: Students must meet the general admission requirements established by the college. Students with deficiencies in English or mathematics will complete appropriate developmental education courses. Students with deficiencies in computer skills will complete additional coursework.

Other Information: Students planning ahead for this curriculum will find it most helpful to have completed college preparatory curriculum courses in high school in areas such as English, mathematics (two units of algebra and one of plane geometry), laboratory science, social studies, and foreign language.

Transfer Information: The student should become familiar with the requirements of the major department in the college or university to which transfer is contemplated and also consult the assigned academic advisor before planning a program of study. In order to prepare for junior class standing at a four-year college or university, the student must complete a program that is comparable in length and course content to the first two years of the program at the four-year institution.

Counselors have transfer guides from many institutions to assist in selection of courses. Every institution has unique requirements, so the student should investigate the programs of each institution under consideration for transfer.

Students should be particularly careful to select electives that correspond to requirements of the transfer institution.

Curriculum Requirements: Students must successfully complete all of the requirements listed below to be awarded this degree.

Program Outcomes: A student will be able to:
- Demonstrate effective verbal and written communication skills.
- Apply mathematical and scientific reasoning skills to formulate and solve problems.
- Demonstrate proficiency in personal computer operations and applications.
- Demonstrate proficiency in information literacy.
- Demonstrate ability to reason critically and problem-solve.
- Demonstrate proficiency in oral communication methods.
- Demonstrate accepted ethical behaviors and interpersonal skills that reflect an understanding of diversity and teamwork.
- Use laboratory equipment in a safe and proficient manner.
- Demonstrate the ability to compose a formal scientific report.

- Demonstrate the ability to use scientific tools for processing, evaluation, and presentation.

Graduation Requirements: In order to meet Patrick Henry Community College graduation requirements, all associates-degree students must complete Virginia Community College Core Competency testing. Testing is an on-going process and will be primarily administered during the capstone course (or other designated course) associated with a given degree. Please see the program advisor to determine and schedule appropriate times to complete Core Competency testing.

General Education Requirements (23-24 Credits):
ENG 111-112 College Composition I-II (6)
CST 110 Introduction to Communication (3)
HIS 121-122 United States History I-II (6)
[or HIS 101 History of Western Civilization I-II (3)]
Choose one of the following combinations to fulfill the Math requirement (choose based on the requirements of the transfer institution):

[a] MTH 166 Precalculus with Trigonometry (4)
and MTH 273 Calculus 1 (4)
[b] MTH 273 Calculus 1 (4)
and MTH 274 Calculus 2 (4)
[c] MTH 166 Precalculus with Trigonometry (4)
and MTH 241 Statistics 1 (3)
or MTH 271 Applied Calculus 1 (3)
d) MTH 175 Calculus of One Variable 1 (3)
and MTH 176 Calculus of One Variable 11 (3)
or MTH 177 Introductory of Linear Algebra (2)
or MTH 178 Topics in Analytic Geometry (2)
e) MTH 163 Precalculus 1 (3)
and MTH 157 Elementary Statistics 3 (3)
or MTH 241 Statistics 1 (3)
or MTH 271 Applied Calculus 1 (3)
SDV 108 College Survival Skills (1)
Wellness (1) Health, P.E. or recreation courses which promote physical and emotional well being

Program Requirements (35 Credits):
NOTE: To select courses, student should consult the catalog of the institution(s) to which transfer is anticipated in addition to these degree requirements.
ITE 119 Information Literacy (3)
SDV 199 Supervised Study in Transfer Programs (1)

Transfer Laboratory Science (16 Credits):
Must complete 2 two-semester sequences

Social Science (6 Credits):
Courses may be selected from the following:
ECO 201 Principles of Macroeconomics (3)
ECO 202 Principles of Microeconomics (3)
GEO 210 People & the Land: Intro. to Cult. Geography (3)
PLS 211 U.S. Government I (3)
PLS 212 U.S. Government II (3)
PSY 200 Principles of Psychology (3)
SOC 200 Principles of Sociology (3)
SOC 268 Social Problems (3)
College Transfer Electives (6-8 Credits):
Selected from transfer courses in business, information technology, science, mathematics, engineering, physical education, social sciences, the humanities, and fine arts.

Fine Arts Electives (3 Credits):
Selected from college transfer courses in art, literature, foreign language, music, philosophy, religion, or communication studies and theatre.

Minimum required for degree: 60 Credits

Sample Schedule

Science

FIRST YEAR

Fall Semester

ENG 111 College Composition I 3
HIS 121 United States History I 3
(or HIS 101)
MTH 166 Precalculus with Trigonometry 4
(or other approved math requirement)
SDV 108 College Survival Skills 1
Science with Laboratory 4
Wellness 1

16

Spring Semester

ENG 112 College Composition II 3
HIS 122 United States History II 3
(or HIS 102)
MTH 273 Calculus I 4
(or other approved math requirement)
Science with Laboratory 4

14

SECOND YEAR

Fall Semester

CST 110 Introduction to Communication 3
ITE 119 Information Literacy 3
Science with Laboratory 4
Social Science 3
Fine Arts Elective 3

16

Spring Semester

SDV 199 Supervised Study in Transfer Programs 1
Science with Laboratory 4
Social Science 3
College Transfer Electives 6

14

Total Semester Hours: 60

Science

Medical Science Specialization – pending approval

Award: Associate of Arts and Sciences
Length: 4 Semesters

Purpose: This curriculum is designed for the student who plans to apply to medical school, dental school, veterinary school or other science related field. The transfer institution’s catalog and transfer guide are the best sources of information for planning a course of study. Final responsibility for transferability of courses rests with the student and the registrar of that institution.

Admission Requirements: Students must meet the general admission requirements established by the college. Students with deficiencies in English or mathematics will complete appropriate developmental education courses. Students with deficiencies in computer skills will complete additional coursework.

Other Information: Students planning ahead for this curriculum will find it most helpful to have completed college preparatory curriculum courses in high school in areas such as English, mathematics (two units of algebra and one of plane geometry), laboratory science, social studies, and foreign language.

Transfer Information: The student should become familiar with the requirements of the major department in the college or university to which transfer is contemplated and also consult the assigned academic advisor before planning a program of study. In order to prepare for junior class standing at a four-year college or university, the student must complete a program that is comparable in length and course content to the first two years of the program at the four-year institution. Counselors have transfer guides from many institutions to assist in selection of courses. Every institution has unique requirements, so the student should investigate the programs of each institution under consideration for transfer.

Students should be particularly careful to select electives that correspond to requirements of the transfer institution.

Curriculum Requirements: Students must successfully complete all of the requirements listed below to be awarded this degree.

Program Outcomes: A student will be able to:
• Demonstrate effective verbal and written communication skills.
• Apply mathematical and scientific reasoning skills to formulate and solve problems.
• Demonstrate proficiency in personal computer operations and applications.
• Demonstrate proficiency in information literacy.
• Demonstrate ability to reason critically and problem-solve.
• Demonstrate proficiency in oral communication methods.
• Demonstrate accepted ethical behaviors and interpersonal skills that reflect an understanding of diversity and teamwork.
• Use laboratory equipment in a safe and proficient manner.
• Demonstrate the ability to compose a formal scientific report.
• Demonstrate the ability to use scientific tools for processing, evaluation, and presentation.

**Graduation Requirements:** In order to meet Patrick Henry Community College graduation requirements, all associates-degree students **must** complete Virginia Community College Core Competency testing. Testing is an on-going process and will be primarily administered during the capstone course (or other designated course) associated with a given degree. Please see the program advisor to determine and schedule appropriate times to complete Core Competency testing.

**General Education Requirements (14-15 Credits):**

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>ENG 111-112</td>
<td>College Composition I-II</td>
<td>(3)</td>
</tr>
</tbody>
</table>

Choose one of the following combinations to fulfill the Math requirement (choose based on the requirements of the transfer institution):

- [a] MTH 166 Precalculus with Trigonometry (4)
- [b] MTH 273 Calculus 1 (4)
- [c] MTH 166 Precalculus with Trigonometry (4)
- [d] MTH 241 Statistics 1 (3)

**Program Requirements (49 Credits):**

NOTE: To select courses, student should consult the catalog of the institution(s) to which transfer is anticipated in addition to these degree requirements.

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>ITE 119</td>
<td>Information Literacy</td>
<td>3</td>
</tr>
<tr>
<td>SDV 108</td>
<td>College Survival Skills</td>
<td>1</td>
</tr>
</tbody>
</table>

**Transfer Laboratory Science (16 Credits):**

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>BIO 101-102</td>
<td>General Biology I-II</td>
<td>(4)</td>
</tr>
<tr>
<td>BIO 231-232</td>
<td>Human Anatomy and Physiology I-II</td>
<td>(4)</td>
</tr>
</tbody>
</table>

**Social Science (6 credits):**

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>PSY 200</td>
<td>Principles of Psychology</td>
<td>3</td>
</tr>
<tr>
<td>SOC 207</td>
<td>Medical Sociology</td>
<td>3</td>
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</tbody>
</table>

**College Transfer Electives (20 Credits):**

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Credits</th>
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</thead>
<tbody>
<tr>
<td>BIO 151</td>
<td>Human Gross Anatomy I</td>
<td>1</td>
</tr>
<tr>
<td>BIO 152</td>
<td>Human Gross Anatomy II</td>
<td>1</td>
</tr>
<tr>
<td>BIO 205</td>
<td>General Microbiology</td>
<td>4</td>
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<tr>
<td>CHM 111</td>
<td>College Chemistry I</td>
<td>4</td>
</tr>
<tr>
<td>CHM 241</td>
<td>Organic Chemistry</td>
<td>4</td>
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<tr>
<td>PHY 241</td>
<td>University Physics I</td>
<td>4</td>
</tr>
<tr>
<td>SOC 295</td>
<td>Medical Anthropology</td>
<td>2</td>
</tr>
</tbody>
</table>

**Fine Arts Electives (3 Credits):**

Selected from college transfer courses in art, literature, foreign language, music, philosophy, religion, or communication studies and theatre.

**Minimum required for degree: 63 Credits**

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**Sample Schedule**

**Medical Science**

**FIRST YEAR**

**Fall Semester:**

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>ENG 111</td>
<td>College Composition I</td>
<td>3</td>
</tr>
<tr>
<td>MTH 273</td>
<td>Calculus I</td>
<td>4</td>
</tr>
<tr>
<td>SDV 108</td>
<td>College Survival Skills</td>
<td>1</td>
</tr>
<tr>
<td>Science with Laboratory</td>
<td>4</td>
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<tr>
<td>College Transfer Electives</td>
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</table>

**Spring Semester:**

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Credits</th>
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</thead>
<tbody>
<tr>
<td>ENG 112</td>
<td>College Composition II</td>
<td>3</td>
</tr>
<tr>
<td>MTH 241</td>
<td>Statistics I (3)</td>
<td>3</td>
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<tr>
<td>Science with Laboratory</td>
<td>4</td>
<td></td>
</tr>
<tr>
<td>College Transfer Electives</td>
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**SECOND YEAR**

**Fall Semester:**

<table>
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<tr>
<th>Course</th>
<th>Title</th>
<th>Credits</th>
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<tbody>
<tr>
<td>ITE 119</td>
<td>Information Literacy</td>
<td>3</td>
</tr>
<tr>
<td>SDV 199</td>
<td>Supervised Study in Transfer Program</td>
<td>1</td>
</tr>
</tbody>
</table>

**Spring Semester:**

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>SDV 199</td>
<td>Supervised Study in Transfer Program</td>
<td>1</td>
</tr>
</tbody>
</table>

**Total Semester Hours: 63**
Administration of Justice

**Award:** Associate of Applied Science  
**Length:** 4 Semesters

**Purpose:** The curriculum is designed to provide a theoretical and practical understanding of the criminal justice profession in local, state, and federal criminal justice systems.

**Program Learning Outcomes:**
The student will be able to:
- Demonstrate minimum proficiency in General Education Skills which are defined as oral communication, written communication, mathematical/problem solving, scientific reasoning, information literacy and critical thinking.
- Demonstrate competency of effects of crime, law, and law enforcement systems in society.
- Demonstrate competency of legal and non-legal drugs including identification, societal influences, and legal consequences.
- Demonstrate proficiency to evaluate tort and criminal case charges, elements, victims, perpetrators, and outcomes.
- Demonstrate proficiency of proper criminal investigation methods that follow laws from judicial, executive, and legislative branches.
- Demonstrate acceptable workplace skills, attitudes, and behaviors.

**Occupational Objectives:** The program prepares students for career service in the following areas: local and state police departments, federal agencies, correctional institutions, and security officers in commercial or industrial areas.

**Admission Requirements:** Students must meet the general admission requirements established by the college. Students with deficiencies in English or mathematics will complete appropriate developmental education courses. Students with deficiencies in computer skills will complete additional coursework.

**Curriculum Requirements:** The student must satisfactorily complete all general education, program and elective requirements to receive this degree.

**Graduation Requirements:** In order to meet Patrick Henry Community College graduation requirements, all associates-degree students must complete Virginia Community College Core Competency testing. Testing is an on-going process and will be primarily administered during the capstone course (or other designated course) associated with a given degree. Please see the program advisor to determine and schedule appropriate times to complete Core Competency testing.

**General Education Requirements (29 Credits):**

<table>
<thead>
<tr>
<th>Code</th>
<th>Course Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>ENG</td>
<td>111-112</td>
<td>College Composition I-II</td>
</tr>
<tr>
<td>MTH</td>
<td>120</td>
<td>Introduction to Mathematics</td>
</tr>
<tr>
<td>HIS</td>
<td>101-102</td>
<td>History of Western Civilization</td>
</tr>
<tr>
<td>[or HIS 121-122]</td>
<td>U.S. History</td>
<td>(6)</td>
</tr>
<tr>
<td>[or PLS 211-212]</td>
<td>U.S. Government I-II</td>
<td>(6)</td>
</tr>
<tr>
<td>CST</td>
<td>110</td>
<td>Introduction to Communication</td>
</tr>
<tr>
<td>PSY</td>
<td>200</td>
<td>Introduction to Psychology I</td>
</tr>
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</table>

**Program Requirements (38 Credits):**

<table>
<thead>
<tr>
<th>Code</th>
<th>Course Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>ADJ</td>
<td>100</td>
<td>Survey of Criminal Justice</td>
</tr>
<tr>
<td>ADJ</td>
<td>105</td>
<td>The Juvenile Justice System</td>
</tr>
<tr>
<td>ADJ</td>
<td>201</td>
<td>Criminology</td>
</tr>
<tr>
<td>ADJ</td>
<td>111</td>
<td>Law Enforcement Organization &amp; Administration I</td>
</tr>
<tr>
<td>ADJ</td>
<td>130</td>
<td>Introduction to Criminal Law</td>
</tr>
<tr>
<td>ADJ</td>
<td>131</td>
<td>Legal Evidence</td>
</tr>
<tr>
<td>ADJ</td>
<td>146</td>
<td>Adult Correctional Institutions</td>
</tr>
<tr>
<td>[or ADJ 140]</td>
<td>Introduction to Corrections</td>
<td>(3)</td>
</tr>
<tr>
<td>[or ADJ 145]</td>
<td>Corrections and the Community</td>
<td>(3)</td>
</tr>
<tr>
<td>ADJ</td>
<td>228</td>
<td>Narcotics and Dangerous Drugs</td>
</tr>
<tr>
<td>ADJ</td>
<td>236</td>
<td>Principles of Criminal Investigation</td>
</tr>
<tr>
<td>ADJ</td>
<td>237</td>
<td>Advanced Criminal Investigation</td>
</tr>
<tr>
<td>ADJ</td>
<td>280</td>
<td>Capstone Project</td>
</tr>
<tr>
<td>ADJ</td>
<td>299</td>
<td>Supervised Study in ADJ</td>
</tr>
<tr>
<td>ITE</td>
<td>115</td>
<td>Intro. to Computer Applications &amp; Concepts</td>
</tr>
</tbody>
</table>

**Electives (3 Credits)**

**Minimum required for degree: 67 Credits**
# Sample Schedule
## Administration of Justice

### FIRST YEAR

#### Fall Semester
<table>
<thead>
<tr>
<th>Course</th>
<th>Course Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>ADJ 100</td>
<td>Survey of Criminal Justice</td>
<td>3</td>
</tr>
<tr>
<td>ADJ 111</td>
<td>Law Enforcement Organization &amp; Administration</td>
<td>3</td>
</tr>
<tr>
<td>ENG 111</td>
<td>College Composition I</td>
<td>3</td>
</tr>
<tr>
<td>ITE 115</td>
<td>Intro. to Computer Applications &amp; Concepts</td>
<td>3</td>
</tr>
<tr>
<td>CST 110</td>
<td>Introduction to Communication</td>
<td>3</td>
</tr>
<tr>
<td>SDV 101</td>
<td>Introduction to Administration of Justice</td>
<td>1</td>
</tr>
<tr>
<td>SDV 108</td>
<td>College Survival Skills</td>
<td>1</td>
</tr>
<tr>
<td></td>
<td><strong>Total Credits</strong></td>
<td><strong>17</strong></td>
</tr>
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</table>

#### Spring Semester
<table>
<thead>
<tr>
<th>Course</th>
<th>Course Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>ADJ 105</td>
<td>The Juvenile Justice System</td>
<td>3</td>
</tr>
<tr>
<td>ADJ 201</td>
<td>Criminology</td>
<td>3</td>
</tr>
<tr>
<td>ADJ 146</td>
<td>Adult Correctional Institutions</td>
<td>3</td>
</tr>
<tr>
<td>ADJ 228</td>
<td>Narcotics and Dangerous Drugs</td>
<td>3</td>
</tr>
<tr>
<td>ENG 112</td>
<td>College Composition II</td>
<td>3</td>
</tr>
<tr>
<td>PSY 200</td>
<td>Introduction to Psychology</td>
<td>3</td>
</tr>
<tr>
<td></td>
<td><strong>Total Credits</strong></td>
<td><strong>18</strong></td>
</tr>
</tbody>
</table>

### SECOND YEAR

#### Fall Semester
<table>
<thead>
<tr>
<th>Course</th>
<th>Course Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>ADJ 130</td>
<td>Introduction to Criminal Law</td>
<td>3</td>
</tr>
<tr>
<td>ADJ 131</td>
<td>Legal Evidence I</td>
<td>3</td>
</tr>
<tr>
<td>MTH 120</td>
<td>Introduction to Mathematics</td>
<td>3</td>
</tr>
<tr>
<td>PLS 211</td>
<td>U.S. Government I</td>
<td>3</td>
</tr>
<tr>
<td>SOC 200</td>
<td>Introduction to Sociology</td>
<td>3</td>
</tr>
<tr>
<td></td>
<td><strong>Total Credits</strong></td>
<td><strong>15</strong></td>
</tr>
</tbody>
</table>

#### Spring Semester
<table>
<thead>
<tr>
<th>Course</th>
<th>Course Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>ADJ 236</td>
<td>Principles of Criminal Investigation</td>
<td>3</td>
</tr>
<tr>
<td>ADJ 237</td>
<td>Advanced Criminal Investigation</td>
<td>3</td>
</tr>
<tr>
<td>ADJ 280</td>
<td>Capstone Project</td>
<td>1</td>
</tr>
<tr>
<td>ADJ 299</td>
<td>Supervised Study in ADJ</td>
<td>1</td>
</tr>
<tr>
<td>PLS 212</td>
<td>U.S. Government II</td>
<td>3</td>
</tr>
<tr>
<td></td>
<td><strong>Total Credits</strong></td>
<td><strong>17</strong></td>
</tr>
</tbody>
</table>

### Total Semester Hours: 67

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# Business Technology
## Accounting Major

### Award: Associate of Applied Science
### Length: 4 Semesters

### Purpose: This program provides knowledge and skills leading to immediate employment in the field of accounting. People who wish to qualify for promotion in a present position to another field may benefit from this program. Students are strongly urged to consult their faculty advisor in planning programs.

### Occupational Objectives: Some of the occupations and positions for which graduates of this program may qualify are accounting technician, junior accountant or accountant.

### Potential Certification: A student may elect to take an industry-specific certification exam. The examinations generally require a testing fee paid by the student. After completion of this program, a student will be academically prepared to take the following examinations:
- Microsoft Office Specialist (MOS) - Excel
- American Institute of Professional Bookkeepers – Certified Bookkeeper (CB) (requires related work experience and code of ethics agreement)
- Quickbooks

### Admission Requirements: Students must meet the general admission requirements established by the college. Students with deficiencies in English or mathematics will complete appropriate developmental education courses. Students with deficiencies in computer skills will complete additional coursework.

### Curriculum Requirements: Students must satisfactorily complete all of the requirements listed below to be awarded this degree.

### Program Learning Outcomes: A student will be able to:
- Demonstrate minimum proficiency in General Education Skills which are defined as oral communication, written communication, mathematical/problem solving, scientific reasoning, information literacy, and critical thinking.
- Demonstrate the ability to perform payroll.
- Demonstrate the ability to prepare a complex tax return.
- Demonstrate a mastery of Quickbooks Accounting Software
- Demonstrate acceptable workplace skills, attitudes, and behaviors

### Graduation Requirements: In order to meet Patrick Henry Community College graduation requirements, all associates-degree students must complete Virginia Community College Core Competency testing. Testing is an on-going process and will be primarily administered during the capstone course (or other designated course) associated with a given degree. Please see the program advisor to determine and schedule appropriate times to complete Core Competency testing.
General Education Requirements (20-21 Credits):
ECO 201 Principles of Macroeconomics (3)
[or ECO 202 Principles of Microeconomics (3)]
ENG 111 College Composition I (3)
ENG 112 College Composition II (3)
MTH 120 Introduction to Mathematics (3)
[or MTH 151 Mathematics for the Liberal Arts I (3)]
Science Elective [BIO, CHM, ENV, GOL, NAS, PHY] (3-4)
CST 110 Introduction to Communication (3)
Wellness (2)-- Health, P.E. or recreation courses which promote physical and emotional well being.

Program Requirements (48 Credits):
ACC 124 Payroll Accounting (3)
ACC 211-212 Principles of Accounting I-II (6)
ACC 215 Computerized Accounting (3)
ACC 221-222 Intermediate Accounting I-II (6)
ACC 231 Cost Accounting I (3)
ACC 261 Principles of Federal Taxation I (3)
ACC 290 Coordinated Internship (3)
[or ACC 297 Cooperative Education (3)]
ACC 299 Supervised Study in Accounting (1)
BUS 125 Applied Business Mathematics (3)
BUS 241 Business Law I (3)
FIN 215 Financial Management (3)
ITE 115 Intro. to Computer Applications & Concepts (3)
ITE 130 Introduction to Internet Services (3)
ITE 140 Spreadsheet Software (3)
SDV 101 Orientation to Business Technology (1)
SDV 108 College Survival Skills (1)

Minimum required for degree: 69 Credits

Sample Schedule
Accounting

FIRST YEAR

Fall Semester
ACC 211 Principles of Accounting I 3
BUS 241 Business Law I 3
ENG 111 College Composition I 3
ITE 115 Intro. to Computer Applications & Concepts 3
MTH 120 Introduction to Mathematics [or MTH 151] 3
SDV 101 Orientation to Business Technology 1
SDV 108 College Survival Skills 1

Spring Semester
ACC 212 Principles of Accounting II 3
BUS 125 Applied Business Mathematics 3
CST 110 Introduction to Communication 3
ECO 201 Principles of Macroeconomics [or ECO 202] 3
ENG 112 College Composition II 3
ITE 140 Spreadsheet Software 3

SECOND YEAR

Fall Semester
ACC 221 Intermediate Accounting I 3
ACC 215 Computerized Accounting 3
ACC 261 Principles of Federal Taxation I 3
ITE 130 Introduction to Internet Services 3
Science Elective 3-4
Wellness 2

Spring Semester
ACC 222 Intermediate Accounting II 3
ACC 231 Cost Accounting I 3
ACC 290 Coordinated Internship [or ACC 297] 3
ACC 299 Supervised Study in Accounting 1
FIN 215 Financial Management 2

Total Semester Hours: 68-69
Business Technology
Administrative Support Technology Major

Award: Associate of Applied Science
Length: 4 Semesters

Purpose: Individuals who are seeking their first employment or those who wish to qualify for promotion in a present position or to another field, including self-employment, may benefit from this program. This program prepares a student for work in a general office setting as well as offering skills in the legal and medical office areas. The program enables the student to become proficient in administrative duties and skills in a variety of companies -- including manufacturing, service-oriented, and government--or as a virtual assistant.

Occupational Objectives: Completion of this program may lead to employment or career advancement in any of a wide variety of positions such as administrative assistant, administrative secretary, executive secretary, medical secretary, medical transcriptionist, customer service representative, legal secretary, office services specialist, and clerical supervisor.

Potential Certification: A student may elect to take an industry-specific certification exam. The examinations generally require a testing fee paid by the student. After completion of this program, a student will be academically prepared to take the following examinations:
- Microsoft Office Specialist (MOS) - Word, Excel, PowerPoint, Access
- Certified Administrative Professional (CAP) and Certified Professional Secretary (CPS) - sponsored by the International Association of Administrative Professionals (IAAP) (requires related work experience)

Admission Requirements: Students must meet the general admission requirements established by the college. Students with deficiencies in English or mathematics must complete appropriate developmental education courses. Students with deficiencies in computer skills or keyboarding will complete additional coursework.

Curriculum Requirements: The student must satisfactorily complete all requirements listed below to receive this degree.

Program Learning Outcomes: A student will be able to:
- Demonstrate minimum proficiency in General Education Skills which are defined as oral communication, written communication, mathematical/problem solving, scientific reasoning, information literacy, and critical thinking.
- Demonstrate the supervisory role of the administrative professional including ethical behaviors and appropriate interpersonal skills.
- Demonstrate proficiency with computer software, business application, and information literacy.
- Produce business documents using correct grammar, punctuation, spelling, and formatting techniques.
- Demonstrate acceptable workplace skills, attitudes, and behaviors.

Graduation Requirements: In order to meet Patrick Henry Community College graduation requirements, all associates-degree students must complete Virginia Community College Core Competency testing. Testing is an on-going process and will be primarily administered during the capstone course (or other designated course) associated with a given degree. Please see the program advisor to determine and schedule appropriate times to complete Core Competency testing.

General Education Requirements (19-20 Credits):
- CST 110 Introduction to Communication (3)
- ENG 111 College Composition I (3)
- ENG 112 College Composition II (3)
- MTH 120 Introduction to Mathematics (3)
- [or MTH 151 Mathematics for the Liberal Arts I (3)]
- Science Elective [BIO, CHM, ENV, GOL, NAS, PHY] (3-4)
- Social Science Elective [HIS, SOC, PSY, PLS, ECO, GEO] (3)
- Wellness Health, P.E., or recreation courses which promote physical and emotional well being (1)

Program Requirements (49 Credits):
- ACC 124 Payroll Accounting (3)
- [or ACC 211 Principles of Accounting I (3)]
- AST 101 Keyboarding I (3)
- AST 102 Keyboarding II (3)
- AST 154 Introduction to Voice Recognition Software (1)
- AST 141 Word Processing (3)
- ITE 150 Desktop Database Software (3)
- AST 238 Word Processing Advanced Operations (3)
- AST 243 Office Administration I (3)
- AST 244 Office Administration II (3)
- AST 260 Presentation Software (3)
- AST 290 Coordinated Internship (3)
- AST 299 Supervised Study in AST (1)
- BUS 125 Applied Business Mathematics (3)
- ITE 115 Intro. to Computer Applications & Concepts (3)
- ITE 130 Introduction to Internet Services (3)
- ITE 140 Spreadsheet Software (3)
- SDV 101 Orientation to Business Technology (1)
- SDV 108 College Survival Skills (1)
- SPA 103 Basic Spoken Spanish I (3)

Minimum required for degree: 68-69 Credits
Sample Schedule
Administrative Support Technology

FIRST YEAR

Fall Semester
AST 101  Keyboarding I  3
CST 110  Introduction to Communication  3
ENG 111  College Composition I  3
ITE 115  Intro. to Computer Applications & Concepts  3
MTH 120  Introduction to Mathematics [or MTH 151]  3
SDV 101  Orientation to Business Technology  1
SDV 108  College Survival Skills  1

Spring Semester
AST 102  Keyboarding II  3
AST 141  Word Processing I  3
AST 234  Records and Database Management  3
BUS 125  Applied Business Mathematics  3
ENG 112  College Composition II  3
ITE 140  Spreadsheet Software  3

SECOND YEAR

Fall Semester
AST 238  Word Processing Advanced Operations  3
ITE 150  Presentation Software  3
AST 260  Desktop Database Software  3
ITE 130  Introduction to Internet Services  3
SPA 103  Basic Spoken Spanish I  3
Wellness Elective  1

Spring Semester
ACC 124  Payroll Accounting [or ACC 211]  3
AST 154  Intro to Voice Recognition Software  1
AST 244  Office Administration II  3
AST 290  Coordinated Internship  3
AST 299  Supervised Study in AST  1
Science Elective  3-4
Social Science Elective  3

Total Semester Hours: 68-69

Business Technology
Administrative Support Technology Major
Medical Office Specialization

Award:  Associate of Applied Science
Length:  4 Semesters

Purpose: Individuals who are seeking their first employment or those who wish to qualify for promotion in a present position or to another field, including self-employment, may benefit from this program. This program prepares a student for work in a general office setting with specialized training in various medical office areas. The program enables the student to become proficient in administrative duties and provides additional skills in a medical setting.

Occupational Objectives: Completion of this program may lead to employment or career advancement in any of a wide variety of positions such as administrative assistant, administrative secretary, executive secretary, medical secretary, medical transcriptionist, medical coder, customer service representative, office services specialist, and clerical supervisor.

Potential Certification: A student may elect to take an industry-specific certification exam. The examinations generally require a testing fee paid by the student. After completion of this program, a student will be academically prepared to take the following examinations:
• Microsoft Office Specialist (MOS) - Word, PowerPoint, Access
• American Academy of Professional Coders – Certified Professional Coder (CPC) (requires related work experience and letters of recommendation)

Admission Requirements: Students must meet the general admission requirements established by the college. Students with deficiencies in English or mathematics must complete appropriate developmental education courses. Students with deficiencies in computer skills or keyboarding will complete additional coursework.

Curriculum Requirements: The student must satisfactorily complete all requirements listed below to receive this degree.

Program Learning Outcomes: A student will be able to:
• Demonstrate minimum proficiency in General Education Skills which are defined as oral communication, written communication, mathematical/problem solving, scientific reasoning, information literacy, and critical thinking.
• Demonstrate the management of health information through the use of filing system and electronic health records.
• Apply mathematical reasoning skills to formulate and solve problems as applied to electronic billing.
• Demonstrate proficiency with computer software, business application, and information literacy.
• Demonstrate acceptable workplace skills, attitudes, and behaviors.
**Graduation Requirements:** In order to meet Patrick Henry Community College graduation requirements, all associates-degree students must complete Virginia Community College Core Competency testing. Testing is an on-going process and will be primarily administered during the capstone course (or other designated course) associated with a given degree. Please see the program advisor to determine and schedule appropriate times to complete Core Competency testing.

**General Education Requirements (21-22 Credits):**
- CST 110 Introduction to Communication (3)
- ENG 111 College Composition I (3)
- ENG 112 College Composition II (3)
- HLT 143 Medical Terminology I (3)
- MTH 120 Introduction to Mathematics (3) [or MTH 151 Mathematics for the Liberal Arts I (3)]
- Science Elective [BIO, CHM, ENV, GOL, NAS, PHY] (3-4)
- Social Science Elective [HIS, SOC, PSY, PLS, ECO, GEO] (3)

**Program Requirements (47 Credits):**
- AST 101 Keyboarding I (3)
- AST 102 Keyboarding II (3)
- AST 154 Introduction to Voice Recognition Software (1)
- AST 141 Word Processing (3)
- AST 234 Records and Database Management (3)
- AST 238 Word Processing Advanced Operations (3)
- AST 243 Office Administration I (3)
- AST 245 Medical Machine Transcription (2)
- AST 260 Presentation Software (3)
- AST 271 Medical Office Procedures I (3)
- AST 290 Coordinated Internship (3) [or AST 297 Cooperative Education (3)]
- AST 299 Supervised Study in AST (1)
- HIM 143 Managing Electronic Billing in a Med. Practice (2)
- ITE 115 Intro. to Computer Applications & Concepts (3)
- ITE 130 Introduction to Internet Services (3)
- ITE 140 Spreadsheet Software (3)
- SPA 103 Basic Spoken Spanish I (3)
- SDV 101 Orientation to Business Technology (1)
- SDV 108 College Survival Skills (1)

Minimum required for degree: 68-69 Credits

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**Sample Schedule**

**Medical Office**

**FIRST YEAR**

**Fall Semester**
- AST 101 Keyboarding I 3
- ENG 111 College Composition I 3
- HLT 143 Medical Terminology I 3
- ITE 115 Intro. to Computer Applications & Concepts 3
- MTH 120 Introduction to Mathematics [or MTH 151] 3
- SDV 101 Orientation to Business Technology 1
- SDV 108 College Survival Skills 1

17 Credits

**Spring Semester**
- AST 102 Keyboarding II 3
- AST 141 Word Processing I 3
- ITE 150 Desktop Database Software 3
- ENG 112 College Composition II 3
- ITE 130 Introduction to Internet Services 3
- ITE 140 Spreadsheet Software 3

18 Credits

**SECOND YEAR**

**Fall Semester**
- AST 238 Word Processing Advanced Operations 3
- AST 243 Office Administration I 3
- AST 245 Medical Machine Transcription 2
- AST 260 Presentation Software 3
- Science Elective 3-4
- CST 110 Introduction to Communication 3

17-18 Credits

**Spring Semester**
- AST 154 Intro. to Voice Recognition Software 1
- AST 271 Medical Office Procedures I 3
- AST 290 Coordinated Internship 3
- AST 299 Supervised Study in AST 1
- HIM 143 Managing Electronic Billing in a Med. Practice 2
- Social Science Elective 3
- SPA 103 Basic Spoken Spanish I 3

16 Credits

**Total Semester Hours:** 68-69
Business Technology
Management Major

Award: Associate of Applied Science
Length: 4 Semesters

Purpose: This program provides knowledge and skills leading to immediate employment in the area of management within a small to mid-size business or retail setting. People who are seeking their first employment or wish to qualify for promotion in a present position to another field may benefit from this program.

Occupational Objectives: Graduates of this program may qualify for positions in general management, manufacturing or industrial management, customer service, sales management or retail management.

Potential Certification: A student may elect to take an industry-specific certification exam. Examinations generally require a testing fee paid by the student. After completion of this program, a student will be academically prepared to take the following exams:
• Microsoft Office Specialist (MOS) - Excel

Admission Requirements: Students must meet the general admission requirements established by the college. Students with deficiencies in English or mathematics will complete appropriate developmental education courses. Students with deficiencies in computer skills will complete additional coursework.

Curriculum Requirements: The student must satisfactorily complete requirements listed below to receive this degree.

Program Learning Outcomes: A student will be able to:
• Demonstrate minimum proficiency in General Education Skills which are defined as oral communication, written communication, mathematical/problem solving, scientific reasoning, information literacy, and critical thinking.
• Outline the decision making process for managers using various decision making techniques.
• Demonstrate the ability to gather, interpret, and disseminate financial information.
• Demonstrate acceptable workplace skills, attitudes, and behaviors.

Graduation Requirements: In order to meet Patrick Henry Community College graduation requirements, all associates-degree students must complete Virginia Community College Core Competency testing. Testing is an on-going process and will be primarily administered during the capstone course (or other designated course) associated with a given degree. Please see the program advisor to determine and schedule appropriate times to complete Core Competency testing.

General Education Requirements (20-21 Credits):
CST 110 Introduction to Communication (3)
ECO 201 Principles of Macroeconomics (3)
[or ECO 202 Principles of Microeconomics (3)]

ENG 111 College Composition I (3)
ENG 112 College Composition II (3)
MTH 120 Introduction to Mathematics (3)
[or MTH 151 Mathematics for the Liberal Arts I (3)]
Science Elective [BIO, CHM, ENV, GOL, NAS, PHY] (3-4)
Wellness (2)--Health, P.E. or recreation courses which promote physical and emotional well being

Program Requirements (48 Credits):
ACC 211 Principles of Accounting I (3)
BUS 100 Introduction to Business (3)
BUS 125 Applied Business Mathematics (3)
BUS 165 Small Business Management (3)
BUS 200 Principles of Management (3)
BUS 205 Human Resource Management (3)
BUS 241 Business Law I (3)
BUS 280 Introduction to International Business (3)
BUS 290 Coordinated Internship (3)
[or BUS 297 Cooperative Education (3)]
BUS 299 Supervised Study in Business Management (1)
FIN 215 Financial Management (3)
ITE 115 Intro. to Computer Applications & Concepts (3)
ITE 130 Introduction to Internet Services (3)
ITE 140 Spreadsheet Software (3)
MKT 100 Principles of Marketing (3)
MKT 260 Customer Service Management (3)
SDV 101 Orientation to Business Technology (1)
SDV 108 College Survival Skills (1)

Minimum required for degree: 68-69 Credits
Sample Schedule
Management

FIRST YEAR

Fall Semester
BUS 100 Introduction to Business 3
ENG 111 College Composition I 3
ITE 115 Intro. to Computer Applications & Concepts 3
MTH 120 Introduction to Mathematics [or MTH 151] 3
SDV 101 Orientation to Business Technology 1
SDV 108 College Survival Skills 1
CST 110 Introduction to Communication 1

Spring Semester
BUS 125 Applied Business Mathematics 3
BUS 200 Principles of Management 3
ECO 201 Principles of Macroeconomics [or ECO 202] 3
ENG 112 College Composition II 3
ITE 130 Introduction to Internet Services 3
ITE 140 Spreadsheet Software 3

SECOND YEAR

Fall Semester
ACC 211 Principles of Accounting I 3
BUS 205 Human Resource Management 3
BUS 241 Business Law I 3
BUS 280 Introduction to International Business 3
MKT 100 Principles of Marketing 3
Wellness Elective 2

Spring Semester
BUS 165 Small Business Management 3
BUS 290 Coordinated Internship [or BUS 297] 3
BUS 299 Supervised Study in Business Management 1
FIN 215 Financial Management 3
MKT 260 Customer Service Management 3
Science Elective 3-4

Total Semester Hours: 68-69

Business Technology
Management Major
E-Commerce Management Specialization

Award: Associate of Applied Science
Length: 4 Semesters

Purpose: Individuals seeking their first job or those who wish to qualify for promotion in a present position or to another field, including self-employment, may benefit from this program. Students will be provided knowledge, skills, and training necessary to perform mid-management level functions in a company using the Internet for marketing or sales or any company wanting to begin e-commerce in their operations. Coursework includes instruction in mathematics, critical thinking, technical writing, interpersonal relationships, communications, team building, human relations, management, law, computer applications and the Internet, accounting, marketing, electronic commerce, electronic marketing, web page design, and other areas related to electronic commerce and business management.

Occupational Objectives: Completing this program may lead to employment or career advancement in a wide variety of positions such as Internet marketing specialist, e-commerce specialist, web page designer, electronic business advisor, or electronic advertising specialist.

Potential Certification: Students may elect to take an industry-specific certification exam, which generally require a testing fee paid by the student. After completion of this program, a student will be academically prepared to take the following examinations:
• Microsoft Office Specialist (MOS) – Excel

Curriculum Requirements: The student must satisfactorily complete requirements listed below to receive this degree.

Program Learning Outcomes: A student will be able to:
• Demonstrate minimum proficiency in General Education Skills which are defined as oral communication, written communication, mathematical/problem solving, scientific reasoning, information literacy, and critical thinking.
• Outline the decision making process for managers using various decision making techniques.
• Demonstrate the ability to gather, interpret, and disseminate financial information.
• Demonstrate acceptable workplace skills, attitudes, and behaviors.
• Demonstrate the usage of web page design to enhance business marketing.

Graduation Requirements: In order to meet Patrick Henry Community College graduation requirements, all associates-degree students must complete Virginia Community College Core Competency testing. Testing is an on-going process and will be primarily administered during the capstone course (or other designated course) associated with a given degree. Please see the program advisor to determine and schedule appropriate times to complete Core Competency testing.
General Education Requirements (20-21 Credits):
CST  110  Introduction to Communication (3)
ECO  201  Principles of Macroeconomics (3)
[or ECO 202 Principles of Microeconomics (3)]
ENG  111  College Composition I (3)
ENG  112  College Composition II (3)
MTH  120  Introduction to Mathematics (3)
[or MTH 151 Mathematics for the Liberal Arts I (3)]

Science Elective [BIO, CHM, ENV, GOL, NAS, PHY] (3-4)
Wellness (2)— Health, P.E., or recreation courses which promote physical and emotional well-being.

Program Requirements (48 Credits):
ACC  211  Principles of Accounting I (3)
BUS  100  Introduction to Business (3)
BUS  125  Applied Business Mathematics (3)
BUS  200  Principles of Management (3)
BUS  241  Business Law I (3)
BUS  280  Introduction to International Business (3)
BUS  290  Coordinated Internship (3)
[or BUS 297 Cooperative Education (3)]
BUS  299  Supervised Study in Business Management (1)
FIN  215  Financial Management (3)
ITD  110  Web Page Design I (3)
ITE  115  Intro. to Computer Applications & Concepts (3)
ITE  130  Introduction to Internet Services (3)
ITE  140  Spreadsheet Software (3)
MKT  100  Principles of Marketing (3)
MKT  260  Customer Service Management (3)
MKT  281  Principles of Internet Marketing (3)
SDV  101  Orientation to Business Technology (1)
SDV  108  College Survival Skills (1)

Minimum required for degree: 68-69 Credits

Sample Schedule
E-Commerce Management

FIRST YEAR

Fall Semester
BUS  100  Introduction to Business            3
ENG  111  College Composition I               3
ITE  115  Intro. to Computer Applications & Concepts 3
MTH  120  Introduction to Mathematics [or MTH 151] 3
SDV  101  Orientation to Business Technology   1
SDV  108  College Survival Skills              1
CST  110  Introduction to Communication        3

Spring Semester
BUS  125  Applied Business Mathematics        3
BUS  200  Principles of Management              3
ENG  112  College Composition II               3
ITE  130  Introduction to Internet Services     3
ITE  140  Spreadsheet Software                  3
MKT  281  Principles of Internet Marketing      3

SECOND YEAR

Fall Semester
ACC  211  Principles of Accounting I           3
BUS  241  Business Law I                       3
BUS  280  Introduction to International Business 3
ITD  110  Web Page Design I                     3
MKT  100  Principles of Marketing               3
Wellness Elective                              2

Spring Semester
BUS  290  Coordinated Internship [or BUS 297]  3
BUS  299  Supervised Study in Business Management 1
ECO  201  Principles of Macroeconomics [or ECO 202] 3
FIN  215  Financial Management                   3
MKT  260  Customer Service Management           3
Science Elective                               3-4

Total Semester Hours: 68-69
Business Technology Management Major
Entrepreneurship/Small Business Specialization

Award: Associate of Applied Science
Length: 4 Semesters

Purpose: Individuals, who are seeking their first job or those who wish to qualify for promotion in a present position or to another field, including self-employment, may benefit from this program. Students will be provided knowledge, skills, and training necessary to start a business and manage the functional areas of the business to become a successful entrepreneur. Coursework includes instruction in mathematics, critical thinking, technical writing, interpersonal relationships, communications, team building, human relations, management, law, computer applications and the Internet, accounting, marketing, international business, electronic commerce, small business management, small business marketing, taxation for the small business, financing for the small business, and other areas related to small business management and the entrepreneur.

Occupational Objectives: Completion of this program may lead to employment or career advancement in a wide variety of positions such as entrepreneur, small business owner, small business advisor, small business partner, proprietor, owner-operator, or consultant for small business.

Potential Certification: A student may elect to take an industry-specific certification exam. The examinations generally require a testing fee paid by the student. After completion of this program, a student will be academically prepared to take the following examinations:
• Microsoft Office Specialist (MOS) – Excel

Curriculum Requirements: The student must satisfactorily complete requirements listed below to receive this degree.

Program Learning Outcomes: A student will be able to:
• Demonstrate minimum proficiency in General Education Skills which are defined as oral communication, written communication, mathematical/problem solving, scientific reasoning, information literacy, and critical thinking.
• Outline the decision making process for managers using various decision making techniques.
• Demonstrate the ability to gather, interpret, and disseminate financial information.
• Demonstrate acceptable workplace skills, attitudes, and behaviors.
• Create a business plan necessary to initiate and open a small business

Graduation Requirements: In order to meet Patrick Henry Community College graduation requirements, all associates-degree students must complete Virginia Community College Core Competency testing. Testing is an on-going process and will be primarily administered during the capstone course (or other designated course) associated with a given degree. Please see the program advisor to determine and schedule appropriate times to complete Core Competency testing.

General Education Requirements (20-21 Credits):
ECO 201 Principles of Macroeconomics (3)
[or ECO 202 Principles of Microeconomics (3)]
ENG 111 College Composition I (3)
ENG 112 College Composition II (3)
MTH 120 Introduction to Mathematics (3)
[or MTH 151 Mathematics for the Liberal Arts I (3)]
Science Elective [BIO, CHM, ENV, GOL, NAS, PHY] (3-4)
CST 110 Introduction to Communication (3)
Wellness (2)—Health, P.E., or recreation courses which promote physical and emotional well-being.

Program Requirements (48 Credits):
ACC 134 Small Business Taxes (3)
ACC 211 Principles of Accounting I (3)
BUS 100 Introduction to Business (3)
BUS 116 Entrepreneurship (3)
BUS 125 Applied Business Mathematics (3)
BUS 160 Legal Aspects for Small Business Operations (1)
BUS 165 Small Business Management (3)
BUS 241 Business Law I (3)
BUS 280 Introduction to International Business (3)
BUS 290 Coordinated Internship (3)
[or BUS 297 Cooperative Education (3)]
[or Approved Elective (3)]
BUS 299 Supervised Study in Business Management (1)
FIN 260 Financial Management for Small Business (2)
ITE 115 Intro. to Computer Applications & Concepts (3)
ITE 130 Introduction to Internet Services (3)
ITE 140 Spreadsheet Software (3)
MKT 160 Marketing for Small Business (3)
MKT 260 Customer Service Management (3)
SDV 101 Orientation to Business Technology (1)
SDV 108 College Survival Skills (1)

Minimum required for degree: 68-69 Credits
Sample Schedule
Entrepreneurship/Small Business

FIRST YEAR

Fall Semester
BUS 100 Introduction to Business 3
ENG 111 College Composition I 3
ITE 115 Intro. to Computer Applications & Concepts 3
MTH 120 Introduction to Mathematics [or MTH 151] 3
SDV 101 Orientation to Business Technology 1
SDV 108 College Survival Skills 1
CST 110 Introduction to Communication 3

Spring Semester
BUS 116 Entrepreneurship 3
BUS 125 Applied Business Mathematics 3
ENG 112 College Composition II 3
ITE 140 Spreadsheet Software 3
Science Elective 3-4
Wellness Elective 2

Total Semester Hours: 68-69

SECOND YEAR

Fall Semester
ACC 211 Principles of Accounting I 3
BUS 165 Small Business Management 3
BUS 241 Business Law I 3
BUS 280 Introduction to International Business 3
ECO 201 Principles of Macroeconomics [or ECO 202] 3
MKT 160 Marketing for Small Business 3

Spring Semester
ACC 134 Small Business Taxes 3
BUS 290 Legal Aspects for Small Business Operations 1
BUS 299 Supervised Study in Business Management 1
FIN 260 Financial Management for Small Business 2
ITE 130 Introduction to Internet Services 3
MKT 260 Customer Service Management 3

Total Semester Hours: 68-69
Competency testing. Testing is an on-going process and will be primarily administered during the capstone course (or other designated course) associated with a given degree. Please see the program advisor to determine and schedule appropriate times to complete Core Competency testing.

General Education Requirements (20-21 Credits):
ECO 201 Principles of Macroeconomics (3)
[or ECO 202 Principles of Microeconomics (3)]
ENG 111 College Composition I (3)
ENG 112 College Composition II (3)
MTH 120 Introduction to Mathematics (3)
[or MTH 151 Mathematics for the Liberal Arts I (3)]
Science Elective [BIO, CHM, ENV, GOL, NAS, PHY] (3-4)
CST 110 Introduction to Communication (3)
Wellness (2) Health, P.E., or recreation courses which promote physical and emotional well-being.

Program Requirements (48 Credits):
ACC 211 Principles of Accounting I (3)
BUS 100 Introduction to Business (3)
BUS 125 Applied Business Mathematics (3)
BUS 200 Principles of Management (3)
BUS 241 Business Law I (3)
BUS 280 Introduction to International Business (3)
BUS 290 Coordinated Internship (3)
BUS 299 Supervised Study in Business Management (1)
FIN 215 Financial Management (3)
GEO 210 People and the Land: Introduction to Cultural Geography (3)
ITE 115 Intro. to Computer Applications & Concepts (3)
ITE 130 Introduction to Internet Services (3)
ITE 140 Spreadsheet Software (3)
MKT 100 Principles of Marketing (3)
MKT 275 International Marketing (3)
SDV 101 Orientation to Business Technology (1)
SDV 108 College Survival Skills (1)
Foreign Language Elective (3)

Minimum required for degree: 68-69 Credits

Sample Schedule
International Business

FIRST YEAR

Fall Semester
BUS 100 Introduction to Business 3
CST 110 Introduction to Communication 3
ENG 111 College Composition I 3
ITE 115 Intro. to Computer Applications & Concepts 3
MTH 120 Introduction to Mathematics [or MTH 151] 3
SDV 101 Orientation to Business Technology 1
SDV 108 College Survival Skills 1

Spring Semester
BUS 125 Applied Business Mathematics 3
BUS 200 Principles of Management 3
BUS 280 Introduction to International Business 3
ECO 201 Principles of Macroeconomics [or ECO 202] 3
ENG 112 College Composition II 3
ITE 140 Spreadsheet Software 3

SECOND YEAR

Fall Semester
ACC 211 Principles of Accounting I 3
BUS 241 Business Law I 3
GEO 210 People & the Land: Intro. to Cultural Geography 3
ITE 130 Introduction to Internet Services 3
MKT 100 Principles of Marketing 3
Wellness Elective 2

Spring Semester
BUS 290 Coordinated Internship 3
BUS 299 Supervised Study in Business Management 1
FIN 215 Financial Management 3
Foreign Language Elective 3
MKT 275 International Marketing 3
Science Elective 3-4

Total Semester Hours: 68-69
Education Assisting

Award: Associate of Applied Science
Length: 4 Semesters

Purpose: The program is designed to meet a current workforce development need within the educational delivery system. It will provide the basic or entry-level skill sets required within the teaching profession as it relates to direct instruction and a variety of instructional assistance. Graduates will be prepared to meet Virginia certification requirements for preschool public and private agencies as well as public school teaching assistants. Students will learn to use an array of teaching methods, approaches to classroom management, and styles of behavior guidance. The program is a terminal degree for regional workforce development and not intended for transfer. Students who know they want to acquire a bachelor’s degree and a license to teach should investigate the PHCC General Studies degree.

Program Learning Outcomes: A student will be able to:
- Demonstrate minimum proficiency in General Education Skills which are defined as oral communication, written communication, mathematical/problem solving, scientific reasoning, information literacy and critical thinking.
- Create lesson plans that teach the Virginia Standards of Learning and the Common Core Competencies.
- Enhance lesson plans for students with disabilities in order to clarify the VA Standards of Learning and the Common Core Competencies.
- Compile student portfolios which will include work samples, recorded observations, and pertinent information for parent-teacher conferences and administrative purposes.
- Produce and maintain a professional portfolio in order to present a finished product outlining professional ethics, up-to-date vitae, lesson plans, accomplishments, references, awards, etc.

Admission Requirements: Students must meet the general admission requirements established by the college. Students with deficiencies in English or Mathematics will complete appropriate developmental prerequisites, prior to enrollment in the program requirements. Students with deficiencies in computer skills will complete additional coursework.

Curriculum Requirements: The student must satisfactorily complete all general education requirements and program requirements to receive an Associate of Applied Science in Education Assisting.

Graduation Requirements: In order to meet Patrick Henry Community College graduation requirements, all associates-degree students must complete Virginia Community College Core Competency testing. Testing is an on-going process and will be primarily administered during the capstone course (or other designated course) associated with a given degree. Please see the program advisor to determine and schedule appropriate times to complete Core Competency testing.

General Education Requirements (23 Credits)

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>ENG 111</td>
<td>College Composition I</td>
<td>3</td>
</tr>
<tr>
<td>ENG 112</td>
<td>College Composition II</td>
<td>3</td>
</tr>
<tr>
<td>HLT 100</td>
<td>First Aid and Cardiopulmonary Resuscitation</td>
<td>3</td>
</tr>
<tr>
<td>MTH 151</td>
<td>Mathematics for the Liberal Arts I</td>
<td>3</td>
</tr>
<tr>
<td>PSY 200</td>
<td>Introduction to Psychology</td>
<td>3</td>
</tr>
<tr>
<td>SPA 103</td>
<td>Basic Spoken Spanish I</td>
<td>3</td>
</tr>
<tr>
<td>SDV 101</td>
<td>Orientation to Education as a Discipline</td>
<td>1</td>
</tr>
<tr>
<td>SDV 108</td>
<td>College Survival Skills</td>
<td>1</td>
</tr>
</tbody>
</table>

Program Requirements (43 Credits)

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>CHD 118</td>
<td>Methods and Materials in the Language Arts for Children</td>
<td>3</td>
</tr>
<tr>
<td>CHD 125</td>
<td>Creative Activities for Children</td>
<td>3</td>
</tr>
<tr>
<td>CHD 126</td>
<td>Science and Math Concepts for Children</td>
<td>3</td>
</tr>
<tr>
<td>CHD 165</td>
<td>Observation and Participation in ECE Settings</td>
<td>3</td>
</tr>
<tr>
<td>CHD 210</td>
<td>Introduction to Exceptional Children</td>
<td>3</td>
</tr>
<tr>
<td>CHD 220</td>
<td>Introduction to School Age Child Care</td>
<td>3</td>
</tr>
<tr>
<td>[or CHD 120] Introduction to Early Childhood Education</td>
<td>3</td>
<td></td>
</tr>
<tr>
<td>CHD 225</td>
<td>Curriculum Development for School Age Children</td>
<td>3</td>
</tr>
<tr>
<td>[or CHD 145] Teaching Art, Music and Movement to Children</td>
<td>3</td>
<td></td>
</tr>
<tr>
<td>CHD 230</td>
<td>Behavior Manage. for School-Age Child Care</td>
<td>3</td>
</tr>
<tr>
<td>[or CHD 205] Guiding the Behavior of Children</td>
<td>3</td>
<td></td>
</tr>
<tr>
<td>CHD 235</td>
<td>Health/Recreation - School-age Child Care</td>
<td>3</td>
</tr>
<tr>
<td>[or CHD 270] Administration of Early Childhood Programs</td>
<td>3</td>
<td></td>
</tr>
<tr>
<td>CHD 265</td>
<td>Observation and Participation in Early Childhood/Primary Settings</td>
<td>3</td>
</tr>
<tr>
<td>EDU 200</td>
<td>Introduction to Teaching as a Profession</td>
<td>3</td>
</tr>
<tr>
<td>EDU 225</td>
<td>Audio Visual Materials &amp; Computer Software</td>
<td>3</td>
</tr>
<tr>
<td>EDU 235</td>
<td>Health &amp; Recreation for School Age Child Care</td>
<td>3</td>
</tr>
<tr>
<td>EDU 299</td>
<td>Supervised Study in Education Assisting</td>
<td>1</td>
</tr>
<tr>
<td>ITE 115</td>
<td>Intro. to Computer Applications &amp; Concepts</td>
<td>3</td>
</tr>
</tbody>
</table>

Minimum required for degree: 66 Credits
Sample Schedule
Education Assisting

FIRST YEAR
Fall Semester
ENG 111 College Composition I 3
ITE 115 Intro. to Computer Applications & Concepts 3
CHD 165 Observation & Participation in ECE Settings 3
HLT 100 First Aid and Cardiopulmonary Resuscitation 3
SDV 101 Orientation to Education as a Discipline 1
SDV 108 College Survival Skills 1

Spring Semester
CHD 220 Introduction to School Age Child Care 3
ENG 112 College Composition II 3
SPA 103 Basic Spoken Spanish I 3
MTH 120 Introduction to Mathematics 3
PSY 200 Introduction to Psychology 3

Summer Session
CHD 225 Curriculum Development for School Age Children 3
EDU 225 Audio Visual Materials & Computer Software 3

SECOND YEAR
Fall Semester
CHD 118 Language Arts for Young Children 3
CHD 265 Adv. Observation & Participation in Early Childhood Settings 3
EDU 200 Introduction to Teaching as a Profession 3
EDU 235 Health, Safety and Nutrition 3
PSY 230 Developmental Psychology 3

Spring Semester
CHD 126 Science & Math Concepts for Children 3
CHD 230 Behavior Management for School Age Child Care 3
CHD 235 Health and Recreation for School Age Child Care 3
CHD 210 Introduction to Exceptional Children 3
CHD 125 Creative Activities for Children 3
EDU 299 Supervised Study in Education Assisting 1

Total Semester Hours: 66

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Emergency Medical Services
Paramedic Major

Award: Associate of Applied Science
Length: 5 Semesters

Purpose: This program is designed to provide knowledge and skills to prepare selected students to qualify as practitioners of emergency medical services in a variety of health service facilities. After successful completion of the program, students will be eligible for the National Registry of Emergency Medical Technicians Paramedic Certification examination.

Program Learning Outcomes: Graduates of the program will:
• Demonstrate minimum competency to practice as an entry level paramedic provider.
• Apply principles of mathematical reasoning and scientific reasoning to assist in facilitating optimal client care.
• Demonstrate use of critical thinking skills while utilizing the core paramedic competencies to facilitate optimal client care.
• Demonstrate required clinical competencies necessary for skillful delivery of client care.
• Demonstrate effective written communication skills.

Occupational Objectives: Employment opportunities for the paramedic include pre-hospital EMS agencies, municipal fire departments, emergency departments in hospitals, nursing homes, physician’s offices, clinics, industry, and home health care agencies.

Admission Requirements: The applicant must meet the following requirements for admission to the EMS Education program. Interested students should contact the EMS Program Director for academic advising.

1. Be accepted as a student to the college.

2. Graduation from high school or satisfactory completion of the GED. Verification of high school graduation or GED is required by Virginia OEMS for this level of certification. Submission of official transcripts or GED scores is mandatory for all applicants.

3. Completion of PHCC College Placement tests unless appropriate college level English or math courses have been successfully completed. If any developmental courses in English or math are needed as indicated by student’s scores, these courses must be successfully completed before the student can enroll in EMS 151 – Introduction to Advanced Life Support. Failure to successfully complete pre-requisites for enrollment in EMS 151 will delay program progression in the EMS curriculum by one academic year.

4. A cumulative college grade point average of 2.0 or better in all related and general education requirements completed before admission into the EMS Education program is desired and will be given higher priority for admission into the program.
5. Students currently enrolled at the college, in addition to students holding current Virginia certification as either an Emergency Medical Technician, EMT-Enhanced, EMT-Intermediate or holding current National Registry EMT-Intermediate certification, will be given priority for admission into the program and may be considered for advanced placement after all other admission requirements are met.

6. Submit an EMS Program Application form along with required paperwork, i.e. high school transcripts, college transcripts, current EMS certification, etc. during the specified EMS Education program application period.

Admission Procedure: Applications to the program will be accepted during the specified EMS Education program application periods. After the application period has concluded all completed application files will be reviewed and considered. Qualified applicants enrolled at the college or holding current Virginia certification as an Emergency Medical, Virginia EMT-Enhanced, or holding current National Registry and/or Virginia EMT-Intermediate certification will be given first priority for admission. Incomplete files will not be considered. A completed application file includes the following:

1. The completed EMS Program Application form.
2. Official transcripts of all high school work and all prior college work other than PHCC.
3. Results of the college placement test, if not from PHCC.
4. A copy of your Virginia EMS certification, if applicable.

Because the EMS Education program addresses the educational needs of students with a variety of experiences and prior education, a limited number of entering class positions may be designated for certified EMT-Intermediates who graduated from accredited programs or for prospective high school graduates who also have been enrolled at PHCC as part of an EMT approved program of dual enrollment. Interested high school sophomores should see their counselors in the spring of their sophomore year. Interested high school juniors should see their counselors in the fall of their junior year.

The typical physical demands of a paramedic include the following: full range of motion including handling and lifting patients and/or equipment, manual and finger dexterity and eye-hand coordination. The job generally requires standing, walking for extensive periods of time, and working in all type of environments. The paramedic should be able to lift and carry items weighing up to 50 pounds. The job settings may have stressful conditions and/or irregular hours. There is a potential for exposure to communicable diseases. After admission to the EMS Education program, the prospective student is provided with an EMS Physical Examination form that must be completed by a physician prior to enrolling in the clinical or field internship classes.

Upon admission, all students are required to undergo mandatory drug screening. Students must have a negative drug screen in order to begin the clinical or field internship classes.

Please note that any prospective EMS student with a criminal conviction needs to speak with the EMS Program Director prior to enrollment at PHCC. Certain convictions will prevent the person from being certified as an Emergency Medical Services Provider in Virginia. Students must produce a satisfactory criminal background check to the standards of all clinical agencies used by the college for experiential learning prior to enrolling in the EMS program.

Readmission Requirements: Any student wishing to reenroll in the EMS Education program must have at least a 2.0 cumulative grade point average at PHCC to be considered. A student who wishes to re-enter the EMS Education program must follow the procedure outlined in the EMS Education Program Student Handbook. The student may be required to enroll in and satisfactorily complete specific courses before and/or after readmission. Additional data may be required. The EMS faculty will consider each student’s application for readmission and the decision to readmit will be based on additional data, prior performance in the EMS Education program and space availability.

Students who fail an EMS course or withdraw for any reason from the EMS Education program may be readmitted to the program only once. All readmissions are at the discretion of the EMS faculty.

Advanced Placement: Currently certified Virginia EMT, EMT-Enhanced or EMT-Intermediate providers may be eligible for advanced placement. (NREMT-Intermediate will be accepted).

Financial Requirements: In addition to the usual college tuition and fees, this program requires additional expenses. Approximate costs include:

<table>
<thead>
<tr>
<th>Service</th>
<th>Cost</th>
</tr>
</thead>
<tbody>
<tr>
<td>Drug Screening</td>
<td>minimum of $38</td>
</tr>
<tr>
<td>Criminal Background Check</td>
<td>minimum of $48</td>
</tr>
<tr>
<td>Books</td>
<td>$650</td>
</tr>
<tr>
<td>Uniforms</td>
<td>$100</td>
</tr>
<tr>
<td>Physical Examination</td>
<td>$100</td>
</tr>
<tr>
<td>AHA BCLS CPR certification</td>
<td>$125</td>
</tr>
<tr>
<td>Transportation to clinical agencies, seminars, etc. as required.</td>
<td>$100</td>
</tr>
</tbody>
</table>

Transfer of EMS Credit: Students seeking to transfer credit received from EMS courses at other institutions will be considered on an individual basis by the EMS faculty. The student may be asked to provide course descriptions, course syllabi, achievement scores and selected data from the course instructor in order to determine placement in the EMS program, subject to availability of space. Since there frequently are differences among EMS programs, students wishing to transfer should be aware that there might be an interruption in program progression.

Curriculum Requirements: In addition to formal lectures and laboratory exercises, selected experiences within driving distance of the college will be scheduled at day, evening and/or weekend times, depending on availability of facilities.

EMS students will be required to successfully pass cognitive and psychomotor examinations at various points in the curriculum in order to continue in the program. Students who are unsuccessful will be counseled and guided in a specified number of remediation efforts. Upon successful completion of remedial requirements and
passing the appropriate examinations, students may continue in the program.

To remain in the program, a student must have a “C” or above in all required EMS courses. Additionally, a grade of “C” or above in all semesters of biology and psychology is required to meet degree requirements.

Graduation Requirements: In order to meet Patrick Henry Community College graduation requirements, all associates-degree students must complete Virginia Community College Core Competency testing. Testing is an on-going process and will be primarily administered during the capstone course (or other designated course) associated with a given degree. Please see the program advisor to determine and schedule appropriate times to complete Core Competency testing.

General Education Requirements (12 Credits):
- CST 110 Introduction to Speech Communication (3)
- ENG 111 College Composition I (3)
- ITE 115 Intro. to Computer Applications & Concepts (3)
- PSY 230 Developmental Psychology (3)

Program Requirements (57 Credits):
- EMS 111 Emergency Medical Technician – Basic (7)
- EMS 120 EMT-Basic Clinical (1)
- EMS 151 Introduction to Advanced Life Support (4)
- EMS 153 Basic ECG Recognition (2)
- EMS 155 ALS Medical Care (4)
- EMS 157 ALS Trauma Care (3)
- EMS 159 ALS Special Populations (3)
- EMS 170 ALS Internship I (2)
- EMS 172 ALS Clinical Internship II (2)
- EMS 173 ALS Field Internship II (1)
- EMS 201 Professional Development (3)
- EMS 205 Advanced Pathophysiology (4)
- EMS 207 Advanced Patient Assessment (3)
- EMS 209 Advanced Pharmacology (4)
- EMS 211 Operations (2)
- EMS 242 ALS Clinical Internship III (1)
- EMS 243 ALS Field Internship III (1)
- EMS 244 ALS Clinical Internship IV (1)
- EMS 245 ALS Field Internship IV (1)
- EMS 299 Supervised Study in Emergency Medical Services (1)
- EMS/HLT Electives (2)
- NAS 150 Human Biology (4)
- [or BIO 231 Human Anatomy and Physiology I (4)]
- [or BIO 232 Human Anatomy and Physiology II (4)]
- SVD 108 College Survival Skills (1)

Minimum required for degree: 69 Credits

Sample Schedule
Emergency Medical Services
Paramedic Major

FIRST YEAR

Spring Semester
- EMS 111 Emergency Medical Technician – Basic 7
- EMS 120 EMT-Basic Clinical 1
- NAS 150 Human Biology 4
- SVD 108 College Survival Skills 1

Fall Semester
- EMS 151 Introduction to Advanced Life Support 4
- EMS 153 Basic ECG Recognition 2
- EMS 157 ALS Trauma Care 3
- EMS 170 ALS Internship I 2
- ENG 111 College Composition I 3

Spring Semester
- EMS 155 ALS Medical Care 4
- EMS 159 ALS Special Populations 3
- EMS 172 ALS Clinical Internship II 1
- EMS/HLT Elective 1
- CST 110 Introduction to Speech Communication 3

SECOND YEAR

Fall Semester
- EMS 201 Professional Development 2
- EMS 205 Advanced Pathophysiology 4
- EMS 207 Advanced Patient Assessment 3
- EMS 242 ALS Clinical Internship III 1
- EMS 243 ALS Field Internship III 1
- PSY 230 Developmental Psychology 3

Spring Semester
- EMS 209 Advanced Pharmacology 4
- EMS 211 Operations 2
- EMS 244 ALS Clinical Internship IV 1
- EMS 245 ALS Field Internship IV 1
- EMS 299 Supervised Study in Emergency Medical Services 1
- EMS/HLT Elective 1
- ITE 115 Introduction to Computer Applications 3

Total Semester Hours: 69
General Engineering Technologies

**Award:** Associate of Applied Science  
**Length:** 4 Semesters

**Purpose:** Upon successful completion of this program, graduates will possess broad skills in both the application of theories and hands-on experience in a variety of manufacturing related disciplines. Students seeking the unique technical skills in a specific discipline should review related PHCC programs of study.

**Program Learning Outcomes:** A student will be able to:  
- Demonstrate proficiency in oral communication.  
- Demonstrate effective written communication skills.  
- Demonstrate proficiency in mathematical skills to solve problems.  
- Demonstrate proficiency in scientific reasoning.  
- Demonstrate proficiency in information technology.  
- Demonstrate the ability to reason critically and apply logic to solve problems.  
- Graduates of the GET Program will be able to identify the electrical and electronic components of an advanced mechatronic system.  
- Graduates will be able to apply hydraulic, pneumatic and hydrostatics in designing, testing and trouble-shooting control circuits in complex mechatronic systems.  
- Mechanical Engineering principles will be demonstrated by students calculating static equilibrium and structural analysis on rigid bodies.  
- Students will learn the role PLC’s play in a mechatronic system and write a ladder program with two inputs and one output.

**Occupational Objectives:** Graduates will be qualified in jobs such as engineer’s assistant, supervisor trainee, manufacturing specialist, quality assurance auditor, CAD technician, maintenance lead person, team leader, and computer controlled process technician.

**Admission Requirements:** Students must meet the general admission requirements established by the college. Students with deficiencies in English or mathematics must complete appropriate developmental education courses. Students with deficiencies in computer skills will complete additional coursework.

**Curriculum Requirements:** The student must satisfactorily complete all requirements to receive an Associate of Applied Science Degree in Engineering Technologies.

**Advancement Options:** Program specializations offer Siemens Mechatronic System Certification. Old Dominion University offers graduates of this program advanced credit transfer options for completing a baccalaureate degree.

**Graduation Requirements:** In order to meet Patrick Henry Community College graduation requirements, all associates-degree students must complete Virginia Community College Core Competency testing. Testing is an on-going process and will be primarily administered during the capstone course (or other designated course) associated with a given degree. Please see the program advisor to determine and schedule appropriate times to complete Core Competency testing.

**General Education Requirements (15-16 Credits):**

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Credits</th>
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<tbody>
<tr>
<td>CST   110</td>
<td>Introduction to Communication</td>
<td>3</td>
</tr>
<tr>
<td>ENG   111</td>
<td>College Composition I</td>
<td>3</td>
</tr>
<tr>
<td>HLT   105</td>
<td>Cardiopulmonary Resuscitation</td>
<td>1</td>
</tr>
<tr>
<td>MTH   103</td>
<td>Applied Technical Mathematics</td>
<td>3</td>
</tr>
<tr>
<td>or MTH 163</td>
<td>Pre-Calculus I</td>
<td>3</td>
</tr>
<tr>
<td>or MTH 166</td>
<td>Pre-Calculus with Trigonometry</td>
<td>4-5</td>
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<tr>
<td>SDV   108</td>
<td>College Survival Skills</td>
<td>1</td>
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<tr>
<td>Social Science Elective</td>
<td>(3)</td>
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<tr>
<td>Wellness Health, P. E. or recreation courses which promote physical and emotional well-being</td>
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**Core Program Requirements (52-54 Credits):**

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<td>Computer Aided Machining</td>
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</tr>
<tr>
<td>CAD     241</td>
<td>Parametric Solid Modeling</td>
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</tr>
<tr>
<td>EGR     123</td>
<td>Introduction to Engineering Design</td>
<td>2</td>
</tr>
<tr>
<td>EGR     136</td>
<td>Strength of Materials for Engineering Technology</td>
<td>3</td>
</tr>
<tr>
<td>EGR     140</td>
<td>Engineering Mechanics – Statics</td>
<td>3</td>
</tr>
<tr>
<td>EGR     216</td>
<td>Computer Methods in Engineering</td>
<td>3</td>
</tr>
<tr>
<td>EGR     277</td>
<td>Digital Logic</td>
<td>3</td>
</tr>
<tr>
<td>EGR     298</td>
<td>Seminar and Project</td>
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</tr>
<tr>
<td>ELE     143</td>
<td>Programmable Controllers I</td>
<td>3</td>
</tr>
<tr>
<td>ELE     144</td>
<td>Programmable Controllers II</td>
<td>3</td>
</tr>
<tr>
<td>IND     243</td>
<td>Principles and Applications of Mechatronics</td>
<td>3</td>
</tr>
<tr>
<td>IND     246</td>
<td>Industrial Robotics Programming</td>
<td>3</td>
</tr>
<tr>
<td>IND     290</td>
<td>Coordinated Internship</td>
<td>1</td>
</tr>
<tr>
<td>MEC     113</td>
<td>Materials and Processes of Industry</td>
<td>3</td>
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<tr>
<td>MEC     140</td>
<td>Introduction to Mechatronics</td>
<td>3</td>
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<tr>
<td>MEC     155</td>
<td>Mechanisms</td>
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<tr>
<td>MEC     165</td>
<td>Applied Hydraulics, Pneumatics and Hydrostatics</td>
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<tr>
<td>PHY     201</td>
<td>General College Physics I</td>
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<tr>
<td>or PHY 131</td>
<td>Applied Physics I</td>
<td>3</td>
</tr>
<tr>
<td>PHY     202</td>
<td>General College Physics II</td>
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<tr>
<td>or PHY 132</td>
<td>Applied Physics II</td>
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</table>

**Minimum required for degree: 67-70 Credits**
Sample Schedule
General Engineering Technologies
Mechatronics Certification

FIRST YEAR

Fall Semester
CAD 241  Parametric Solid Modeling I  3
CST 110  Introduction to Communication  3
EGR 123  Introduction to Engineering Design  2
MEC 113  Materials and Processes of Industry  3
MEC 140  Introduction to Mechatronics  3
SDV 108  College Survival Skills  1
Social Science Elective  3

Spring Semester
CAD 226  Computer Aided Machining  3
ENG 111  College Composition I  3
EGR 216  Computer Methods in Engineering  3
EGR 277  Digital Logic  3
MEC 155  Mechanisms  3
MTH 103  Applied Technical Mathematics  3

SECOND YEAR

Fall Semester
EGR 140  Engineering Mechanics – Statics  3
ELE 143  Programmable Controllers I  3
IND 246  Industrial Robotics Programming  3
MEC 165  Applied Hydraulics, Pneumatics & Hydrostatics  3
PHY 201  Gen. College Physics I  4

Spring Semester
EGR 136  Strength of Materials for Engineering Tech.  3
EGR 298  Seminar and Project  1
ELE 144  Programmable Controllers II  3
HLT 105  Cardiopulmonary Resuscitation  1
IND 243  Principles & Applications of Mechatronics  3
IND 290  Coordinated Internship  1
PHY 202  Gen. College Physics II  4

Total Semester Hours: 68

Health Technology
Nursing Major
Award: Associate of Applied Science
Length: 4 Semesters

Purpose: The nursing major prepares selected students to qualify as practitioners of technical nursing in a variety of health service facilities. After successful completion of the program, students will be eligible to apply to take the National Council Licensure Exam – Registered Nurse (NCLEX-RN) in the Commonwealth of Virginia.

Program Learning Outcomes: Graduates of this program will:
• Demonstrate effective written communication skills.
• Effectively apply the principles of safe and effective care incorporating the foundational principles of nursing
• Demonstrate minimum competency to practice nursing at entry level
• Apply principles of mathematical reasoning and scientific reasoning to assist in facilitating optimal client care
• Demonstrate use of critical thinking skills while utilizing the nursing process to facilitate optimal client care.

Special Accreditation Status: The program is approved by the Virginia Board of Nursing and accredited by the Accreditation Commission for Education in Nursing (ACEN).

NCLEX-RN Pass Rates for PHCC, State and National last 5 years:

<table>
<thead>
<tr>
<th>Year</th>
<th>PHCC</th>
<th>State</th>
<th>National</th>
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<tbody>
<tr>
<td>2013</td>
<td>84.38%</td>
<td>83.06%</td>
<td>83.04%</td>
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<tr>
<td>2012</td>
<td>92.11%</td>
<td>90.43%</td>
<td>90.34%</td>
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<tr>
<td>2011</td>
<td>86.96%</td>
<td>89.5%</td>
<td>89.32%</td>
</tr>
<tr>
<td>2010</td>
<td>77.78%</td>
<td>86.26%</td>
<td>89.91%</td>
</tr>
<tr>
<td>2009</td>
<td>80.65%</td>
<td>87.33%</td>
<td>88.07%</td>
</tr>
</tbody>
</table>

Occupational Objectives: Employment opportunities for the registered nurse include staff positions in hospitals, long term care facilities, rehabilitation centers, health departments, physicians’ offices, clinics, day care centers, industry, and home health care agencies. They also work in correctional facilities, schools, summer camps, and with the military.

Admission Procedure: Applications to the nursing program are processed twice a year during specified advertised application periods. At the end of the advertised application period, completed applications with required supporting documents, will be reviewed and considered. Admission testing will be offered to students meeting admission requirements. Students who meet criteria, meaning score within the state regulation (45th percentile ranking) will be given priority.

NOTE: When admission must be limited because the number of qualified applicants exceeds available space, admission to the program will be given to applicants who scored at or above the 45th percentile ranking, and are also residents of the college service area. If seats are still available applicants who scored at or above the 45th percentile ranking, who live outside of the college service area will be offered admission starting with the higher percentile ranking, until all seats are filled.
Applicants who are not accepted will be eligible to reapply at the next application period, at which time applicants meeting admission requirements will be allowed to repeat the admission test, and the most recent scores will be used for admission consideration.

Applicants are responsible for making certain that all application materials are on file in the nursing department. The materials needed are:
1. The completed nursing application.
2. Official transcripts of all secondary school work and all prior college work from colleges other than PHCC.

Admission Requirements: The applicant must meet the following requirements for admission to the required nursing clinical courses (NUR 111, 115, 118, 221, 222, 247, 254). Interested students should contact the nursing office for academic advising.

1. Be accepted as a student to the college.
2. Graduation from high school or satisfactory completion of the GED.
3. Complete the college placement test. If scores indicate, the applicant will be required to successfully complete developmental courses before submitting a nursing application.
4. Complete one unit of algebra (if college placement scores indicate content was not retained the course(s) will have to be repeated to included modules 1-6). Students are also required to have two units of high school college prep level science which includes Biology and Chemistry, with no grade below a "C". Deficiencies can be made up through approved developmental or college level courses. Deficiencies must be completed before submitting an application.
5. A cumulative college grade point average of 2.5 or higher in all related and general education requirements completed before admission into the nursing program courses.
6. After meeting the above criteria, submit an Application for the Associate Degree Nursing program, during the specified advertised application period, along with required paperwork, i.e. high school transcripts, college transcripts, etc. during the application period.
7. Pre-RN Admission Examination: The Health Education Systems, Inc. (HESI) test or equivalent is the final step in the admission process. Once you have met the above educational criteria and your application file has been approved, you will be scheduled for this test. Applicants must have satisfactory scores in reading, vocabulary, chemistry and mathematics (45th percentile ranking).

Because the nursing program addresses the educational needs of students with a variety of experiences and prior education, a limited number of entering class positions may be designated for experienced Licensed Practical Nurses that meet the accreditation requirements of the Virginia State Board of Nursing. They can be contacted at: Accreditation Commission for Education in Nursing 3343 Peachtree Road NE, Suite 850 Atlanta, Georgia 30326 1-404-975-5000

Readmission Requirements: Any student wishing to re-enroll in the nursing clinical courses must have at least a 2.5 cumulative grade point average at PHCC to be considered. A student who wishes to re-enter the nursing curriculum must follow the procedure outlined in the Nursing Student Handbook. The student must be readmitted after meeting the above criteria, submit an Application for the Associate Degree Nursing program. Any charges or costs to secure the evaluation are the responsibility of the student.

The Accreditation Commission for Education in Nursing is a resource for information regarding the required tuition, fees and length of nursing programs. They can be contacted at:

Accreditation Commission for Education in Nursing 3343 Peachtree Road NE, Suite 850 Atlanta, Georgia 30326 1-404-975-5000

Advanced Placement: Licensed Practical Nurses that meet the admission requirements may be eligible for advanced placement. To be considered for advanced placement, an LPN must have:
1. Graduated from an approved practical nursing school.
2. Passed the LPN licensing exam and hold a current Virginia license.
LPN’s receiving advanced placement will be required to take NUR 115, LPN Transition, (2 credits). Please contact the nursing office for additional information.

Financial Requirements: In addition to the usual college tuition and fees, this program requires additional expenses. Approximate costs include:
Uniforms $230
Physical Examination $100
Books $700-$1200
Graduation Pin cost depends on price of gold or silver
AHA BCLS CPR certification $127
Drug Screen Minimum of $38
Criminal Background Checks $48 minimum
Application for Licensure fees $390
Transportation to clinical agencies, seminars, etc. as required

Transfer of Nursing Credit: Students seeking to transfer credit received from nursing courses at other institutions will be considered on an individual basis by the nursing faculty. The student may be asked to provide course descriptions, course syllabi, standardized test scores, and selected data from the course instructor in order to determine placement in the nursing program, subject to availability of space. Since there frequently are differences among nursing programs, students wishing to transfer should be aware that there might be an interruption in program progression.

Curriculum Requirements: In addition to formal lectures and laboratory exercises, selected experiences within driving distance of the college will be scheduled at day, evening and/or weekend times, depending on availability of facilities. Field trips, at an additional cost, may be included.

Clinical nursing students expected to complete end of the semester testing. The results of the end of semester testing will be counted as a percentage of the final course grade. Students must pass the clinical nursing courses to continue in the program. Grading guidelines are specifically addressed in the course syllabi, and Nursing Student Handbook issued upon program admission.

The student must complete all general education and related courses either before or concurrent with nursing program requirements. To remain in the program, a student must have a “C” or above in all nursing courses. Additionally, a grade of “C” or above in all semesters of biology, social sciences, and health courses is required to continue in the nursing program.

Graduation Requirements: In order to meet Patrick Henry Community College graduation requirements, all associates-degree students must complete Virginia Community College Core Competency testing. Testing is an on-going process and will be primarily administered during the capstone course (or other designated course) associated with a given degree. Please see the program advisor to determine and schedule appropriate times to complete Core Competency testing.

General Education Requirements (18 Credits):
ENG 111-112 College Composition I-II (6)
HLT 230 Principles of Nutrition and Human Development (3)
SOC 200 Principles of Sociology (3)
[or PSY 200 Principles of Psychology (3)]
PSY 230 Developmental Psychology (3)
CST 110 Introduction to Communication (3)

Program Requirements (51 Credits):
BIO 231-232 Human Anatomy and Physiology I-II (8)
NUR 111 Nursing I (7)
NUR 118 Fist Level Nursing II (8)
NUR 135 Drug Dosage Calculations (2)
NUR 247 Psychiatric/Mental Health Nursing (3)
NUR 221-222 Second Level Nursing Principles & Concepts I-II (19)
NUR 254 Dimensions of Professional Nursing (2)
SDV 101* Orientation to Careers (1)
SDV 108 College Survival Skills (1)

Minimum requirement for degree: 69 Credits

*Corequisite with NUR 111

Sample Schedule
Nursing

FIRST YEAR
First Semester
BIO 231 Human Anatomy and Physiology I 4
NUR 135 Drug Dosage Calculations 2
NUR 111 Nursing I 7
PSY 230 Developmental Psychology 3
SDV 108 College Survival Skills 1
SDV 101 Orientation to Careers 1

Second Semester
BIO 232 Human Anatomy and Physiology II 4
NUR 247 Psychiatric/Mental Health Nursing 3
NUR 118 First Level Nursing II 8
SOC 200 Principles of Sociology [or PSY 200] 3

SECOND YEAR
Third Semester
ENG 111 College Composition I 3
HLT 230 Principles of Nutrition & Human Development 3
NUR 221 Second Level Nursing Principles & Concepts I 9
CST 110 Introduction to Communication 3

Fourth Semester
ENG 112 College Composition II 3
NUR 222 Second Level Nursing Principles & Concepts II 10
NUR 254 Dimensions of Professional Nursing 2

Total Semester Hours: 69
Industrial Electronics Technology

**Award:** Associate of Applied Science  
**Length:** 4 Semesters

**Purpose:** The focus of this program is to provide highly skilled industrial technicians for a regional workforce. Qualified electronic technicians are needed in ever increasing numbers to assist local business and industry in taking full advantage of computerized systems, automation, and controls. The manufacturing environment of the 21st century integrates several advanced technologies including sensors, transducers, automated controls, programmable logic controls, motor control circuits, motor drives, pneumatics, microprocessors, computer hardware, and software applications. A strong educational background is required to install, maintain, troubleshoot, and repair such advanced systems.

**Program Learning Outcomes:** A student will be able to:
- Demonstrate proficiency in oral communication.
- Demonstrate effective written communication skills.
- Demonstrate proficiency in mathematical skills to solve problems.
- Demonstrate proficiency in scientific reasoning.
- Demonstrate proficiency in information technology.
- Demonstrate the ability to reason critically and apply logic to solve problems.
- Students will receive training in PLC’s that will enable them to write a ladder program with two inputs and one output.
- Students will learn schematic symbols that apply to building a circuit with electronic devices on a bread board from a schematic diagram.
- Three phase motor structure and function will be emphasized to enable students to wire a single start-stop control station with a motor starter from a line diagram.

**Occupational Objectives:** Employment opportunities for graduates of this program include positions as electronics technician, industrial electronics technician or service technician. Admission Requirements: Students must meet the general admission requirements established by the college. Students with deficiencies in English or mathematics must complete appropriate developmental education courses. Students with deficiencies in computer skills will complete additional coursework.

**Curriculum Requirements:** The student must satisfactorily complete all general education, program and elective requirements to be awarded the Associate of Applied Science in Industrial Electronics Technology.

**Graduation Requirements:** In order to meet Patrick Henry Community College graduation requirements, all associates-degree students must complete Virginia Community College Core Competency testing. Testing is an on-going process and will be primarily administered during the capstone course (or other designated course) associated with a given degree. Please see the program advisor to determine and schedule appropriate times to complete Core Competency testing.

**General Education Requirements (15 Credits):**
- CST 110 Introduction to Communication (3)
- ENG 111 College Composition I (3)  
  or ENG 131 Technical Writing (3)  
- HLT 105 Cardiopulmonary Resuscitation (1)
- MTH 120 I ntroduction to Mathematics (3)
- SDV 108 College Survival Skills (1)
- Social Science Elective (3)

Wellness Health, P. E. or recreation courses which promote physical and emotional well-being (1)

**Program Requirements (51 Credits):**
- EGR 216 Computer Methods in Engineering (3)  
- ELE 143 Programmable Controllers (3)  
- ELE 144 Programmable Controllers (3)  
- ELE 216 Industrial Electricity (3)  
  or ELE 133 Practical Electricity I (3)  
- ELE 225 Electrical Control Systems (4)  
  and ELE 134 Practical Electricity II (1)  
- ETR 100 Electronic Problem Solving Lab (1) or ELE 134 Practical Electricity II (1)  
- ETR 113 D.C. and A.C. Fundamentals I (4)  
  or ELE 113 Electricity I (3)  
  and ETR 140 Introduction to Mechatronics (1)  
- ETR 114 D.C. and A.C. Fundamentals II (4)  
  or ELE 114 Electricity II (3)  
  and ETR 140 Introduction to Mechatronics (1)  
- ETR 143 Devices and Application I (3)  
  or ETR 141 Electronics I (3)  
- ETR 144 Devices and Application II (4)  
  or ETR 142 Electronics II (3)  
  and ETR 140 Introduction to Mechatronics (1)  
- ETR 151 Electronic Circuits and Troubleshooting (2)  
- ETR 250 Solid State Circuits (4)  
  or ETR 259 Linear Integrated Circuits (3)  
  and ELE 134 Practical Electricity II (1)  
- ETR 266 Microprocessor Applications (3)  
  or ELE 246 Industrial Robotics Programming (3)  
- ETR 281 Digital Systems (3) or EGR 277 Digital Logic (3)  
- ETR 298 Seminar and Project (1)  
- INS 210 Principles of Instrumentation (3)  
- MEC 155 Mechanisms (3)

Minimum required for degree: 66 Credits
Sample Schedule
Industrial Electronics Technology

**FIRST YEAR**

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<thead>
<tr>
<th>Semester</th>
<th>Course Code</th>
<th>Course Title</th>
<th>Credits</th>
</tr>
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<tbody>
<tr>
<td>Fall Semester</td>
<td>CST 110</td>
<td>Introduction to Communication</td>
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<tr>
<td></td>
<td>ETR 113</td>
<td>DC/AC Fundamentals I</td>
<td>4</td>
</tr>
<tr>
<td></td>
<td>ETR 143</td>
<td>Devices and Applications I</td>
<td>3</td>
</tr>
<tr>
<td></td>
<td>ETR 281</td>
<td>Digital Systems</td>
<td>3</td>
</tr>
<tr>
<td></td>
<td>MTH 120</td>
<td>Introduction to Mathematics</td>
<td>3</td>
</tr>
<tr>
<td></td>
<td>SDV 108</td>
<td>College Survival Skills</td>
<td>1</td>
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<table>
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<th>Course Title</th>
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<tbody>
<tr>
<td>Spring Semester</td>
<td>EGR 216</td>
<td>Computer Methods in Engineering &amp; Technology</td>
<td>3</td>
</tr>
<tr>
<td></td>
<td>ETR 114</td>
<td>DC/AC Fundamentals II</td>
<td>4</td>
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<td></td>
<td>ETR 144</td>
<td>Devices and Applications II</td>
<td>4</td>
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<tr>
<td></td>
<td>HLT 105</td>
<td>Cardiopulmonary Resuscitation</td>
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<td>MEC 155</td>
<td>Mechanisms</td>
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<td>PED/HLT</td>
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**SECOND YEAR**

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<tr>
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<td>ENG 111</td>
<td>College Composition I</td>
<td>3</td>
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<tr>
<td></td>
<td>ELE 143</td>
<td>Programmable Controllers I</td>
<td>3</td>
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<tr>
<td></td>
<td>ELE 216</td>
<td>Industrial Electricity</td>
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<td>ETR 250</td>
<td>Solid State Circuits</td>
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<td>ETR 266</td>
<td>Microprocessor Applications</td>
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<th>Course Title</th>
<th>Credits</th>
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<tr>
<td>Spring Semester</td>
<td>ELE 144</td>
<td>Programmable Logic Controllers II</td>
<td>3</td>
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<tr>
<td></td>
<td>ELE 225</td>
<td>Electrical Control Systems</td>
<td>4</td>
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<tr>
<td></td>
<td>ETR 100</td>
<td>Electronic Problem Solving Lab</td>
<td>1</td>
</tr>
<tr>
<td></td>
<td>ETR 151</td>
<td>Electronic Circuits &amp; Troubleshooting</td>
<td>2</td>
</tr>
<tr>
<td></td>
<td>ETR 298</td>
<td>Seminar and Project</td>
<td>1</td>
</tr>
<tr>
<td></td>
<td>INS 210</td>
<td>Principles of Instrumentation</td>
<td>3</td>
</tr>
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<td></td>
<td>Social Science Elective</td>
<td>3</td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td>17</td>
</tr>
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**Total Credit Hours: 66**

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Information Systems Technology

**Award:** Associate of Applied Science  
**Length:** 4 Semesters

**Purpose:** Individuals who are seeking their first employment or those who wish to qualify for promotion in a present position or to another field, including self-employment, may benefit from this program. Students will learn to use a wide array of business-oriented computer software and choose specific courses to meet career goals. The program provides a base of general skills in information systems and gives the individual the option to specialize in a particular area or complete the degree with a more generalist tract. The program provides base skills in software applications, basic PC troubleshooting and repair, networking terminology, programming concepts, and Internet resources. Upon completion of the program, the student will be prepared for immediate employment.

**Occupational Objectives:** Completion of this program may lead to employment or career advancement in any of a wide variety of positions such as PC support technician, software specialist, helpdesk technician, or PC advisor. Primary tasks and functions graduates will be able to perform include management of tasks, software operations, and basic problem solving.

**Potential Certification:** A student may elect to take a certification exam. The examinations generally require a testing fee paid by the student. After completion of this program, a student will be academically prepared to take the following examinations:
- Microsoft Office Specialist (MOS) – Access, Excel
- CompTIA - A+, Network+
- Certiport, Inc. - IC3

**Admission Requirements:** Students must meet the general admission requirements established by the college. Students with deficiencies in English or mathematics must complete appropriate developmental education courses. Students with deficiencies in computer skills or keyboarding will complete additional coursework.

**Curriculum Requirements:** Students must successfully complete all of the general education and program requirements listed below to be awarded this degree.

**Program Learning Outcomes:** A student will be able to:
- Demonstrate minimum proficiency in General Education Skills which are defined as oral communication, written communication, mathematical/problem solving, scientific reasoning, information literacy, and critical thinking.
- Demonstrate proficiency with computer hardware, software, operating systems, and business applications.
- Demonstrate acceptable workplace skills, attitudes, and behaviors.

**Graduation Requirements:** In order to meet Patrick Henry Community College graduation requirements, all associates-degree students must complete Virginia Community College Core
Competency testing. Testing is an on-going process and will be primarily administered during the capstone course (or other designated course) associated with a given degree. Please see the program advisor to determine and schedule appropriate times to complete Core Competency testing.

**General Education Requirements (21-22 Credits):**

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>ENG</td>
<td>College Composition I</td>
<td>3</td>
</tr>
<tr>
<td>ENG</td>
<td>College Composition II</td>
<td>3</td>
</tr>
<tr>
<td>MTH</td>
<td>Mathematics for the Liberal Arts I</td>
<td>3</td>
</tr>
<tr>
<td></td>
<td>[or MTH 163 Precalculus I (3)]</td>
<td></td>
</tr>
<tr>
<td>Science Elective</td>
<td>[BIO, CHM, ENV, GOL, NAS, PHY] (3-4)</td>
<td></td>
</tr>
<tr>
<td>CST</td>
<td>Introduction to Communication</td>
<td>3</td>
</tr>
<tr>
<td>Social Science Elective</td>
<td>[HIS, SOC, PSY, PLS, ECO, GEO] (3)</td>
<td></td>
</tr>
<tr>
<td>SDV</td>
<td>108 College Survival Skills</td>
<td>1</td>
</tr>
</tbody>
</table>

Wellness Health, P.E., or recreation courses which promote physical and emotional well-being (2)

**Program Requirements (44 Credits):**

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>CSC 200</td>
<td>Introduction to Computing</td>
<td>3</td>
</tr>
<tr>
<td>ITD 110</td>
<td>Web Page Design I</td>
<td>3</td>
</tr>
<tr>
<td>ITD 112</td>
<td>Designing Web Page Graphics</td>
<td>3</td>
</tr>
<tr>
<td>ITE 115</td>
<td>Intro. to Computer Applications &amp; Concepts</td>
<td>3</td>
</tr>
<tr>
<td>[or ITE 119 Information Literacy (3)]</td>
<td></td>
<td></td>
</tr>
<tr>
<td>or EGR 216 Computer Methods in Engineering]</td>
<td></td>
<td></td>
</tr>
<tr>
<td>ITE 130</td>
<td>Introduction to Internet Services</td>
<td>3</td>
</tr>
<tr>
<td>ITE 140</td>
<td>Spreadsheet Software</td>
<td>3</td>
</tr>
<tr>
<td>ITE 150</td>
<td>Desktop Database Software</td>
<td>3</td>
</tr>
<tr>
<td>ITE 290</td>
<td>Coordinated Internship</td>
<td>3</td>
</tr>
<tr>
<td>[or ITE 297 Cooperative Education (3)]</td>
<td></td>
<td></td>
</tr>
<tr>
<td>ITE 299</td>
<td>Supervised Study in IST</td>
<td>1</td>
</tr>
<tr>
<td>ITN 101</td>
<td>Introduction to Network Concepts</td>
<td>3</td>
</tr>
<tr>
<td>ITN 106</td>
<td>Microcomputer Operating Systems</td>
<td>3</td>
</tr>
<tr>
<td>ITN 107</td>
<td>Personal Computer Hardware &amp; Troubleshooting</td>
<td>3</td>
</tr>
<tr>
<td>ITP 110</td>
<td>Visual Basic Programming I</td>
<td>3</td>
</tr>
<tr>
<td>ITP 160</td>
<td>Intro. to Game Design and Development</td>
<td>3</td>
</tr>
<tr>
<td>MKT 260</td>
<td>Customer Service Management</td>
<td>3</td>
</tr>
<tr>
<td>[or ACC 211 Principles of Accounting (3)]</td>
<td></td>
<td></td>
</tr>
<tr>
<td>or BUS 100 Introduction to Business]</td>
<td></td>
<td></td>
</tr>
<tr>
<td>SDV 101</td>
<td>Orientation to Information Systems</td>
<td>1</td>
</tr>
<tr>
<td>SDV 108</td>
<td>College Survival Skills</td>
<td>1</td>
</tr>
</tbody>
</table>

**Minimum required for degree: 65-66 Credits**

---

**Sample Schedule**

**Information Systems Technology**

**FIRST YEAR**

**Fall Semester**

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>CSC</td>
<td>200 Introduction to Computing</td>
<td>3</td>
</tr>
<tr>
<td>ENG</td>
<td>111 College Composition I</td>
<td>3</td>
</tr>
<tr>
<td>Science Elective</td>
<td>[or ITE 119 (3) or EGR 216 (3)]</td>
<td>3</td>
</tr>
<tr>
<td>MTH</td>
<td>151 Mathematics for the Liberal Arts I</td>
<td>3</td>
</tr>
<tr>
<td>SDV</td>
<td>101 Orientation to Information Systems</td>
<td>1</td>
</tr>
<tr>
<td>SDV</td>
<td>108 College Survival Skills</td>
<td>1</td>
</tr>
</tbody>
</table>

**Total Semester Hours: 65-66**

**Spring Semester**

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>ENG</td>
<td>112 College Composition II</td>
<td>3</td>
</tr>
<tr>
<td>ITE</td>
<td>130 Introduction to Internet Services</td>
<td>3</td>
</tr>
<tr>
<td>ITE</td>
<td>140 Spreadsheet Software</td>
<td>3</td>
</tr>
<tr>
<td>ITN</td>
<td>106 Microcomputer Operating Systems</td>
<td>3</td>
</tr>
<tr>
<td>CST</td>
<td>110 Intro. to Communication</td>
<td>3</td>
</tr>
<tr>
<td>Wellness Elective</td>
<td>1</td>
<td>1</td>
</tr>
</tbody>
</table>

**SECOND YEAR**

**Fall Semester**

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>ITD</td>
<td>110 Web Page Design I</td>
<td>3</td>
</tr>
<tr>
<td>ITD</td>
<td>150 Desktop Database Software</td>
<td>3</td>
</tr>
<tr>
<td>ITN</td>
<td>101 Introduction to Network Concepts</td>
<td>3</td>
</tr>
<tr>
<td>MKT</td>
<td>260 Customer Service Management</td>
<td>3</td>
</tr>
<tr>
<td>Social Science Elective</td>
<td>3</td>
<td>3</td>
</tr>
<tr>
<td>Wellness Elective</td>
<td>1</td>
<td>1</td>
</tr>
</tbody>
</table>

**Spring Semester**

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>ITD</td>
<td>112 Designing Web Page Graphics</td>
<td>3</td>
</tr>
<tr>
<td>ITE</td>
<td>290 Coordinated Internship [or ITE 297]</td>
<td>3</td>
</tr>
<tr>
<td>ITE</td>
<td>299 Supervised Study in IST</td>
<td>1</td>
</tr>
<tr>
<td>ITN</td>
<td>107 Personal Computer Hardware &amp; Troubleshooting</td>
<td>3</td>
</tr>
<tr>
<td>ITP</td>
<td>110 Visual Basic Programming I</td>
<td>3</td>
</tr>
<tr>
<td>ITP</td>
<td>160 Introduction to Game Design &amp; Development</td>
<td>3</td>
</tr>
</tbody>
</table>

**Total Semester Hours: 65-66**
Accounting Information Systems Technology

**Award:** Associate of Applied Science

**Length:** 4 Semesters

**Purpose:** Individuals who are seeking their first employment or those who wish to qualify for promotion in a present position or to another field, including self-employment, may benefit from this program. Students will be provided with technical knowledge and skill in various areas of computerized accounting systems and related information technology topics. This program provides skills to analyze financial reports and solve problems to meet functional objectives of the business related to accounting systems. Upon completion of the program, the student will be prepared for immediate employment.

**Occupational Objectives:** Completion of this program may lead to employment or career advancement in any of a wide variety of positions such as accounting systems technician, accounts receivable/accounts payable technician, payroll technician, and other positions related to information technology and accounting systems. Primary tasks and functions graduates will be able to perform include the ability to utilize accounting systems in the operation of a business, analyze financial reports, and maintain computerized accounting systems.

**Potential Certification:** A student may elect to take a certification exam. The examinations generally require a testing fee paid by the student. After completion of this program, a student will be academically prepared to take the following examinations:

- Microsoft Office Specialist (MOS) – Excel, Access
- Certiport, Inc. – IC3
- Quickbooks

**Admission Requirements:** Students must meet the general admission requirements established by the college. Students with deficiencies in English or mathematics must complete appropriate developmental education courses. Students with deficiencies in computer skills or keyboarding will complete additional coursework.

**Curriculum Requirements:** Students must successfully complete all of the general education and program requirements listed below to be awarded this degree.

**Program Learning Outcomes:** A student will be able to:
- Demonstrate minimum proficiency in General Education Skills which are defined as oral communication, written communication, mathematical/problem solving, scientific reasoning, information literacy, and critical thinking.
- Demonstrate proficiency with computer hardware, software, operating systems, and business applications.
- Demonstrate acceptable workplace skills, attitudes, and behaviors.

**Graduation Requirements:** In order to meet Patrick Henry Community College graduation requirements, all associates-degree students must complete Virginia Community College Core Competency testing. Testing is an on-going process and will be primarily administered during the capstone course (or other designated course) associated with a given degree. Please see the program advisor to determine and schedule appropriate times to complete Core Competency testing.

**General Education Requirements (21-22 Credits):**

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>ENG 111</td>
<td>College Composition I</td>
<td>3</td>
</tr>
<tr>
<td>ENG 112</td>
<td>College Composition II</td>
<td>3</td>
</tr>
<tr>
<td>MTH 151</td>
<td>Mathematics for the Liberal Arts I</td>
<td>3</td>
</tr>
<tr>
<td>or MTH 163</td>
<td>Precalculus I</td>
<td>3</td>
</tr>
</tbody>
</table>

**Science Elective [BIO, CHM, ENV, GOL, NAS, PHY] (3-4)**

**CST** | Introduction to Communication | 3 |

**Social Science Elective [HIS, SOC, PSY, PLS, ECO, GEO] (3)**

**SDV 108** | College Survival Skills | 1 |

**Wellness** | Health, P.E., or recreation courses which promote physical and emotional well-being | 2 |

**Program Requirements (44 Credits):**

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>ACC 211</td>
<td>Principles of Accounting I</td>
<td>3</td>
</tr>
<tr>
<td>ACC 212</td>
<td>Principles of Accounting II</td>
<td>3</td>
</tr>
<tr>
<td>ACC 215</td>
<td>Computerized Accounting</td>
<td>3</td>
</tr>
<tr>
<td>ACC 221</td>
<td>Intermediate Accounting I</td>
<td>3</td>
</tr>
<tr>
<td>ACC 222</td>
<td>Intermediate Accounting II</td>
<td>3</td>
</tr>
<tr>
<td>CSC 200</td>
<td>Introduction to Computer Science</td>
<td>3</td>
</tr>
<tr>
<td>ITD 110</td>
<td>Web Page Design</td>
<td>3</td>
</tr>
<tr>
<td>ITE 115</td>
<td>Intro. to Computer Applications &amp; Concepts</td>
<td>3</td>
</tr>
<tr>
<td>ITE 119</td>
<td>Information Literacy</td>
<td>3</td>
</tr>
<tr>
<td>or EGR 216</td>
<td>Computer Methods in Engineering &amp; Technology</td>
<td>3</td>
</tr>
<tr>
<td>ITE 140</td>
<td>Spreadsheet Software</td>
<td>3</td>
</tr>
<tr>
<td>ITE 150</td>
<td>Desktop Database Software</td>
<td>3</td>
</tr>
<tr>
<td>ITE 290</td>
<td>Coordinated Internship</td>
<td>3</td>
</tr>
<tr>
<td>or ITE 297</td>
<td>Cooperative Education</td>
<td>3</td>
</tr>
<tr>
<td>ITE 299</td>
<td>Supervised Study in IST</td>
<td>1</td>
</tr>
<tr>
<td>ITN 106</td>
<td>Microcomputer Operating Systems</td>
<td>3</td>
</tr>
<tr>
<td>ITP 110</td>
<td>Visual Basic Programming</td>
<td>3</td>
</tr>
<tr>
<td>MKT 260</td>
<td>Customer Service Management</td>
<td>3</td>
</tr>
<tr>
<td>or BUS 100</td>
<td>Introduction to Business</td>
<td>3</td>
</tr>
<tr>
<td>SDV 101</td>
<td>Orientation to Information Systems</td>
<td>1</td>
</tr>
</tbody>
</table>

**Minimum required for degree:** 65-66 Credits
Sample Schedule
Accounting Information Systems

FIRST YEAR

Fall Semester
ACC 211 Principles of Accounting I 3
CSC 200 Introduction to Computer Science 3
CST 110 Intro to Speech Communication 3
ENG 111 College Composition I 3
ITE 115 Intro. to Computer Applications & Concepts 3
[or ITE 119 Information Literacy (3) or EGR 216 Computer Methods in Engineering & Technology (3)]
MTH 151 Mathematics for the Liberal Arts I [or MTH 163] 3
SDV 101 Orientation to Information Systems 1
SDV 108 College Survival Skills 1

Spring Semester
ACC 212 Principles of Accounting II 3
CST 110 Intro to Speech Communication 3
ENG 112 College Composition II 3
ITE 140 Spreadsheet Software 3
ITN 106 Microcomputer Operating Systems 3
Wellness Elective 1

SECOND YEAR

Fall Semester
ACC 215 Computerized Accounting 3
ACC 221 Intermediate Accounting I 3
ITD 110 Web Page Design I 3
IST 150 Desktop Database Software 3
Science Elective 3-4
Wellness Elective 1

Spring Semester
ACC 222 Intermediate Accounting II 3
ITE 290 Coordinated Internship [or ITE 297] 3
ITE 299 Supervised Study in IST 1
ITP 110 Visual Basic Programming I 3
MKT 260 Customer Service Management 3
[or BUS 100]
Social Science Elective 3

Total Semester Hours: 65-66

Information Systems Technology
Game Design and Development Specialization

Award:  Associate of Applied Science
Length:  4 Semesters

Purpose: Individuals who are seeking their first employment or those who wish to qualify for promotion in a present position or to another field, including self-employment, may benefit from this program. Students will be provided a broad background in game and simulation development, with practical applications in creative arts, audio/video technology, creative writing, modeling, design, and programming. Upon completion of the program, the student will be prepared for immediate employment.

Occupational Objectives: Completion of this program may lead to employment or career advancement in any of a wide variety of positions such as game and simulation technician, art-animation specialist, game/simulation designer, testers, programmers, and audio/video specialist. Primary tasks and functions graduates will be able to perform include the design and development of programs related to game and simulation in such industries as health care, forensics, education, entertainment, engineering, and government.

Potential Certification: A student may elect to take a certification exam. The examinations generally require a testing fee paid by the student. After completion of this program, a student will be academically prepared to take the following examinations:
• Microsoft Certified Solution Developer (MCSD) – Visual Basic, C++
• Certiport, Inc. - IC3

Admission Requirements: Students must meet the general admission requirements established by the college. Students with deficiencies in English or mathematics must complete appropriate developmental education courses. Students with deficiencies in computer skills or keyboarding will complete additional coursework.

Curriculum Requirements: Students must successfully complete all of the general education and program requirements listed below to be awarded this degree.

Program Learning Outcomes: A student will be able to:
• Demonstrate minimum proficiency in General Education Skills which are defined as oral communication, written communication, mathematical/problem solving, scientific reasoning, information literacy, and critical thinking.
• Demonstrate proficiency with computer hardware, software, operating systems, and business applications.
• Demonstrate acceptable workplace skills, attitudes, and behaviors.
• Design and develop a computer game using professional principles and standards.

Graduation Requirements: In order to meet Patrick Henry Community College graduation requirements, all associates-degree students must complete Virginia Community College Core
Competency testing. Testing is an on-going process and will be primarily administered during the capstone course (or other designated course) associated with a given degree. Please see the program advisor to determine and schedule appropriate times to complete Core Competency testing.

General Education Requirements (21-22 Credits):

ENG 111 College Composition I (3)
ENG 112 College Composition II (3)
MTH 151 Mathematics for the Liberal Arts I (3)
[or MTH 163 Precalculus I (3)]
Science Elective [BIO, CHM, ENV, GOL, NAS, PHY] (3-4)
CST 110 Introduction to Communication (3)
Social Science Elective [HIS, SOC, PSY, PLS, ECO, GEO] (3)
SDV 108 College Survival Skills (1)
Wellness Health, P.E., or recreation courses which promote physical and emotional well-being (2)

Program Requirements (44 Credits):

ART 121 Drawing I (3)
CAD 238 Computer Aided Modeling 1 (3)
CAD 241 Parametric Solid Modeling 1 (3)
CSC 200 Introduction to Computing (3)
ITD 110 Web Page Design I (3)
ITD 112 Designing Web Page Graphics (3)
ITE 115 Intro. to Computer Applications & Concepts (3)
[or ITE 119 Information Literacy (3)]
[or EGR 216 Computer Methods & Technology (3)]
ITE 290 Coordinated Internship (3)
[or ITE 297 Cooperative Education (3)]
ITE 299 Supervised Study in IST (1)
ITN 106 Microcomputer Operating Systems (3)
ITP 110 Visual Basic Programming I (3)
ITP 120 Java Programming I (3)
ITP 132 C++ Programming I (3)
[or CSC 201 Computer Science I (4)]
ITP 160 Intro. to Game Design and Development (3)
MKT 260 Customer Service Management (3)
[or ACC 211 or BUS 100]
SDV 101 Orientation to Information Systems (1)

Minimum required for degree: 65-67 Credits

Sample Schedule

Game Design and Development

FIRST YEAR

Fall Semester
CAD 238 Computer Aided Modeling 1 3
CSC 200 Introduction to Computing 3
ENG 111 College Composition I 3
ITE 115 Intro. to Computer Applications & Concepts 3
[or ITE 119 or EGR 216]
MTH 151 Mathematics for the Liberal Arts I or MTH 163 3
SDV 108 College Survival Skills 1 16

Spring Semester
CAD 241 Parametric Solid Modeling 1 1
ENG 112 College Composition II 3
ITN 106 Microcomputer Operating Systems 3
ITP 110 Visual Basic Programming I 3
ITP 160 Intro. to Game Design & Development 3
CST 110 Intro. to Communication 3 18

SECOND YEAR

Fall Semester
Art 121 Drawing I 3
ITD 110 Web Page Design I 3
ITP 132 C++ Programming I 3
[or CSC 201]
MKT 260 Customer Service Management 3
[or ACC 211 or BUS 165]
Science Elective 3-4
Wellness Elective 2 15-17

Spring Semester
SDV 101 Orientation to Information Systems 1
ITD 112 Designing Web Page Graphics 3
ITE 290 Coordinated Internship or ITE 297 3
ITE 299 Supervised Study in IST 1
ITP 120 Java Programming I 3
Social Science Elective 3
Wellness Elective 2 16

Total Semester Hours: 65-67
**Information Systems Technology**

**Internet Services Specialization**

**Award:** Associate of Applied Science  
**Length:** 4 Semesters

**Purpose:** Individuals seeking their first employment or who wish to qualify for promotion in a present position or to another field, including self-employment, may benefit from this program. Students will be provided with technical knowledge and skill in Web page design, Internet programming, Internet database design, and related topics. This program provides skills to develop and design Web pages, use programming languages to develop Web pages, and be familiar with Internet protocols, security, and applications.

**Occupational Objectives:** Completion of this program may lead to employment or career advancement in any of a wide variety of positions such as Web page designer, Internet programmer, Web site manager, or Web author. Primary tasks and functions graduates will be able to perform include the ability to analyze and design Web pages using Internet programming languages, test and implement programs on the Web, develop Web pages, develop Internet databases, and manage the technical duties related to Internet services.

**Potential Certification:** A student may elect to take a certification exam. The examinations generally require a testing fee paid by the student. After completion of this program, a student will be academically prepared to take the following examinations:
- Microsoft Office Specialist (MOS) - Access
- CompTIA - A+, Network+
- Certified Internet Webmaster (CIW) – CIW Associate
- Certiport, Inc. - IC3

**Admission Requirements:** Students must meet the general admission requirements established by the college. Students with deficiencies in English or mathematics must complete appropriate developmental education courses. Students with deficiencies in computer skills or keyboarding will complete additional coursework.

**Curriculum Requirements:** Students must successfully complete all of the general education and program requirements listed below to be awarded this degree.

**Program Learning Outcomes:** A student will be able to:
- Demonstrate minimum proficiency in General Education Skills which are defined as oral communication, written communication, mathematical/problem solving, scientific reasoning, information literacy, and critical thinking.
- Demonstrate proficiency with computer hardware, software, operating systems, and business applications.
- Demonstrate acceptable workplace skills, attitudes, and behaviors.
- Design and develop a website using professional principles and standards.

**Graduation Requirements:** In order to meet Patrick Henry Community College graduation requirements, all associates-degree students must complete Virginia Community College Core Competency testing. Testing is an on-going process and will be primarily administered during the capstone course (or other designated course) associated with a given degree. Please see the program advisor to determine and schedule appropriate times to complete Core Competency testing.

**General Education Requirements (21-22 Credits):**
- ENG 111 College Composition I (3)
- ENG 112 College Composition II (3)
- MTH 151 Mathematics for the Liberal Arts I (3)
- [or MTH 163 Precalculus I (3)]
- Science Elective [BIO, CHM, ENV, GOL, NAS, PHY] (3)
- CST 200 Introduction to Communication (3)
- Social Science Elective [HIS, SOC, PSY, PLS, ECO, GEO] (3)
- SDV 108 College Survival Skills 1
- Wellness Health, P.E., or recreation courses which promote physical and emotional well-being (2)

**Program Requirements (44-45 Credits):**
- CSC 200 Introduction to Computing (3)
- ITD 110 Web Page Design I (3)
- ITD 112 Designing Web Page Graphics (3)
- ITD 210 Web Page Design II (3)
- ITE 115 Intro. to Computer Applications & Concepts (3)
- [or EGR 216 Computer Methods in Engineering and Technology (3) or ITE 119 Information Technology (3)]
- ITE 130 Introduction to Internet Services (3)
- ITE 150 Desktop Database Software (3)
- ITE 290 Coordinated Internship (3)
- [or ITE 297 Cooperative Education (3)]
- ITE 299 Supervised Study in IST (1)
- ITN 101 Introduction to Network Concepts (3)
- ITN 106 Microcomputer Operating Systems (3)
- ITP 120 Java Programming I (3)
- ITP 132 C++ Programming (3)
- [or CSC 201 Computer Science I (4)]
- ITP 160 Intro. to Game Design and Development (3)
- MKT 260 Customer Service Management (3)
- [or ACC 211 Principles of Accounting I (3) or BUS 165 Small Business Management (3)]
- SDV 101 Orientation to Information Systems (1)
- SDV 108 College Survival Skills (1)

**Minimum required for degree:** 65-67 Credits
## First Year

### Fall Semester
- **CSC 200** Introduction to Computer Science 3
- **ENG 111** English Composition I 3
- **ITE 115** Intro. to Computer Applications & Concepts 3
  or **ITE 119** or **EGR 216**
- **MTH 151** Mathematics for the Liberal Arts I or **MTH 163** 3
- **Science Elective** 3
- **ITE 115** Intro. to Computer Applications & Concepts 3
- **MTH 151** Mathematics for the Liberal Arts I or **MTH 163** 3
- **Science Elective** 3
- **ITE 115** Intro. to Computer Applications & Concepts 3
- **MTH 151** Mathematics for the Liberal Arts I or **MTH 163** 3
- **Science Elective** 3
- **ITE 115** Intro. to Computer Applications & Concepts 3
- **MTH 151** Mathematics for the Liberal Arts I or **MTH 163** 3
- **Science Elective** 3

### Spring Semester
- **ENG 112** College Composition II 3
- **ITE 130** Introduction to Internet Services 3
- **ITN 106** Microcomputer Operating Systems 3
- **ITN 101** Introduction to Network Concepts 3
- **ITP 160** Introduction to Game Design & Development 3
- **CST 110** Intro. to Communication 3

### Total Semester Hours: 65-67

## Second Year

### Fall Semester
- **ITE 150** Desktop Database Software 3
- **ITD 110** Web Page Design I 3
- **ITP 132** C++ Programming 3
  or **CSC 201** (4)
- **MKT 260** Customer Service Management 3
  or **ACC 211** (3) or **BUS 165** (3)
- **Social Science Elective** 3

### Spring Semester
- **ITD 112** Designing Web Page Graphics 3
- **ITD 210** Web Page Design II 3
- **ITE 290** Supervised Study in IST 1
- **ITP 120** Java Programming I 3
- **Wellness Elective** 2

### Total Semester Hours: 15-16

## Legal Assisting

### Award: Associate of Applied Science
### Length: 4 Semesters

### Purpose: The curriculum provides knowledge and skills leading to immediate employment in the field of paraprofessionals in the legal setting.

### Occupational Objectives: A graduate of this program may work as a paralegal or legal assistant in law offices, law enforcement agencies, court systems, municipal offices, corporate office - contract/legal department, banks, real estate offices, insurance agencies, and contracting agencies.

### Admission Requirements: Students must meet the general admission requirements established by the college. Students with deficiencies in English or mathematics will complete appropriate developmental education courses.

### Curriculum Requirements: Student must successfully complete all of the General Education and program requirements listed below to be awarded this degree.

### Program Learning Outcomes: A student will be able to:
- Demonstrate minimum proficiency in General Education Skills which are defined as oral communication, written communication, mathematical/problem solving, scientific reasoning, information literacy, and critical thinking,
- Produce a variety of legal documents using correct grammar, punctuation, and spelling in a format acceptable for the modern business environment,
- Demonstrate acceptable workplace skills, attitudes, and behaviors.

### Graduation Requirements: In order to meet Patrick Henry Community College graduation requirements, all associates-degree students must complete Virginia Community College Core Competency testing. Testing is an on-going process and will be primarily administered during the capstone course (or other designated course) associated with a given degree. Please see the program advisor to determine and schedule appropriate times to complete Core Competency testing.

### General Education Requirements (20 Credits):
- **ENG 111-112** College Composition I-II (6)
- **HLT-PED** Health/Physical Education Elective(s) (2)
- **MTH 120** Introduction to Mathematics (3)
- **PLS 211** U. S. Government I (3)
- **CST 110** Introduction to Communication (3)
- **Social Science Elective** (3)

### Program Requirements (48 Credits):
- **ADJ 130** Introduction to Criminal Law (3)
- **BUS 125** Applied Business Mathematics (3)
- **ITE 115** Intro. to Computer Applications & Concepts (3)
- **LGL 110** Introduction to Law and the Legal Assistant (3)
- **LGL 115** Real Estate Law for Legal Assistants (3)
- **LGL 117** Family Law (3)
- **LGL 125** Legal Research (3)
- **LGL 126** Legal Writing (3)
Sample Schedule

Legal Assisting

FIRST YEAR

Fall Semester
<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>ENG 111</td>
<td>College Composition I</td>
<td>3</td>
</tr>
<tr>
<td>ITE 115</td>
<td>Intro. to Computer Applications &amp; Concepts</td>
<td>3</td>
</tr>
<tr>
<td>LGL 110</td>
<td>Introduction to Law and the Legal Assistant</td>
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</tr>
<tr>
<td>LGL 125</td>
<td>Legal Research</td>
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<tr>
<td>LGL 200</td>
<td>Ethics for the Legal Assistant</td>
<td>1</td>
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<tr>
<td>MTH 120</td>
<td>Introduction to Mathematics</td>
<td>3</td>
</tr>
<tr>
<td>SDV 101</td>
<td>Introduction to Legal Assisting</td>
<td>1</td>
</tr>
<tr>
<td>SDV 108</td>
<td>College Survival Skills</td>
<td>1</td>
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Spring Semester
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<th>Title</th>
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<tbody>
<tr>
<td>BUS 125</td>
<td>Applied Business Mathematics</td>
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<tr>
<td>ENG 112</td>
<td>College Composition II</td>
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<tr>
<td>LGL 126</td>
<td>Legal Writing</td>
<td>3</td>
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<tr>
<td>LGL 215</td>
<td>Torts</td>
<td>3</td>
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<tr>
<td>CST 110</td>
<td>Introduction to Communication</td>
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<tr>
<td>Social Science Elective</td>
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</table>

SECOND YEAR

Fall Semester
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<tr>
<td>HLT-PED</td>
<td>Health/Physical Education Elective(s)</td>
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<td>LGL 115</td>
<td>Real Estate Law for Legal Assistants</td>
<td>3</td>
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<tr>
<td>LGL 117</td>
<td>Family Law</td>
<td>3</td>
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<tr>
<td>LGL 230</td>
<td>Legal Transactions</td>
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<tr>
<td>PLS 211</td>
<td>U.S. Government I</td>
<td>3</td>
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<tr>
<td>Elective</td>
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Spring Semester
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<th>Credits</th>
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</thead>
<tbody>
<tr>
<td>ADJ 130</td>
<td>Introduction to Criminal Law</td>
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</tr>
<tr>
<td>LGL 219</td>
<td>Basics of Litigation Support</td>
<td>3</td>
</tr>
<tr>
<td>LGL 225</td>
<td>Estate Planning and Probate</td>
<td>3</td>
</tr>
<tr>
<td>LGL 226</td>
<td>Real Estate Abstracting</td>
<td>3</td>
</tr>
<tr>
<td>LGL 290</td>
<td>Coordinated Internship</td>
<td>2</td>
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<tr>
<td>LGL 299</td>
<td>Supervised Study in Legal Assisting</td>
<td>1</td>
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Total Semester Hours: 68

Minimum required for degree: 68 Credits
General Education Requirements (17 Credits):

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
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<tbody>
<tr>
<td>ENG 111</td>
<td>College Composition I (3)</td>
</tr>
<tr>
<td>HUM 165</td>
<td>Controversial Issues in Contemporary American Culture (3)</td>
</tr>
<tr>
<td>ECO 201</td>
<td>Principles of Macroeconomics (3)</td>
</tr>
<tr>
<td>SOC 200</td>
<td>Principles of Sociology (3)</td>
</tr>
<tr>
<td>[or PSY 200 Principles of Psychology (3)]</td>
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<tr>
<td>[or ECO 202 Principles of Microeconomics (3)]</td>
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</tr>
<tr>
<td>CST 110</td>
<td>Introduction to Communication (3)</td>
</tr>
<tr>
<td>Wellness Health, P.E., or recreation courses which promote physical and emotional well being (2)</td>
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</tbody>
</table>

Program Requirements (49 Credits):

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
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<tbody>
<tr>
<td>AGR 141</td>
<td>Introduction to Animal Science and Technology (4)</td>
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<tr>
<td>AGR 142</td>
<td>Introduction to Plant Science and Technology (3)</td>
</tr>
<tr>
<td>AGR 143</td>
<td>Introduction to Agribusiness and Financial Management (3)</td>
</tr>
<tr>
<td>AGR 144</td>
<td>Agricultural Human Resource Management (3)</td>
</tr>
<tr>
<td>AGR 205</td>
<td>Soil Fertility and Management (3)</td>
</tr>
<tr>
<td>AGR 231</td>
<td>Agribusiness Marketing Risk Management, and Entrepreneurship (3)</td>
</tr>
<tr>
<td>AGR 232</td>
<td>Professional Selling for Agribusiness (3)</td>
</tr>
<tr>
<td>AGR 233</td>
<td>Food Production, Safety, Biosecurity, and Quality Control (3)</td>
</tr>
<tr>
<td>AGR 234</td>
<td>Chemical Applications and Pest Management (3)</td>
</tr>
<tr>
<td>AGR 297</td>
<td>Cooperative Education (6)</td>
</tr>
<tr>
<td>AGR 299</td>
<td>Supervised Study in AGR (1)</td>
</tr>
<tr>
<td>AGR Electives (6)</td>
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<tr>
<td>ITE 115</td>
<td>Intro. to Computer Applications &amp; Concepts (3)</td>
</tr>
<tr>
<td>SDV 101</td>
<td>Orientation to Agribusiness (1)</td>
</tr>
<tr>
<td>SDV 108</td>
<td>College Survival Skills (1)</td>
</tr>
<tr>
<td>Technical Elective [choose from ACC 211, CAD 200, or ITD 110] (3)</td>
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</tbody>
</table>

Minimum required for degree: 66 Credits

Program Learning Outcomes: Graduates of the Agribusiness Program will be prepared to meet today’s rapidly changing Agricultural Industry by studying the operation of both plant and animal enterprises. A student will be able to:

- Demonstrate minimum proficiency in General Education Skills which are defined as oral communication, written communication, mathematical/problem solving, scientific reasoning, information literacy and critical thinking.
- Demonstrate knowledge of agricultural finance and how it affects specific agricultural operations.
- Demonstrate human resources management to effectively operate an agricultural enterprise and the associated service industries.
- Demonstrate skills needed to market agriculture commodities and services.
- Demonstrate knowledge of ag chemical uses and how to effectively use them with minimal effects on the environment.
- Demonstrate knowledge of agriculture products used in the production of biofuels and other energy resources.
- Demonstrate acceptable workplace skills, attitudes, and behaviors.

Occupational Objectives: Careers are available for students interested in farm management, nurseries, greenhouse, biofuels, and the farm service industry. Agribusiness Degree graduates are in great demand receiving salaries equal to or greater than those with higher degrees and our graduates will be able to meet a portion of that demand.

Graduation Requirements: In order to meet Patrick Henry Community College graduation requirements, all associates-degree students must complete Virginia Community College Core Competency testing. Testing is an on-going process and will be primarily administered during the capstone course (or other designated course) associated with a given degree. Please see the program advisor to determine and schedule appropriate times to complete Core Competency testing.
Sample Schedule
Agribusiness

FIRST YEAR

Fall Semester
AGR 141 Intr. to Animal Science and Technology 4
AGR 142 Intro. to Plant Science and Technology 3
CST 110 Introduction to Communication 3
ENG 111 College Composition I 3
ITE 115 Intro. to Computer Applications & Concepts 3
SDV 101 Orientation to Agribusiness 1
SDV 108 College Survival Skills 1

Spring Semester
AGR 144 Agricultural Human Resource Management 3
AGR 233 Food Production, Safety, Biosecurity, and Quality Control 3
AGR 232 Professional Selling for Agribusiness 3
ECO 201 Principles of Macroeconomics 3
HUM 165 Controversial Issues in Contemporary American Culture 3

SECOND YEAR

Fall Semester
AGR 143 Introduction to Agribusiness and Financial Management 3
AGR 205 Soil Fertility and Management 3
AGR 197 Cooperative Education 3
PED/HLT Elective 2
SOC 200 Principles of Sociology 3
Technical Elective 3

Spring Semester
AGR 231 Agribusiness Marketing Risk Management, and Entrepreneurship 3
AGR 234 Chemical Applications and Pest Management 3
AGR 199 Supervised Study in AGR 1
AGR 297 Cooperative Education 3
AGR Electives 6

Total Semester Hours: 66

Technical Studies
Motorsports Technology

Award: Associate of Applied Science
Length: 4 Semesters

Purpose: To provide a rapid response to an anticipated workforce shortage for the motorsports industry within the mid-Atlantic region. The student will be engaged in mastering the academic and technical skill sets required for employment.

Program Learning Outcomes: A student will be able to:
• Demonstrate knowledge about auto racing and race vehicles, their characteristics, specifications, rules, regulations, systems, current technology, and testing methods.
• Demonstrate knowledge about components, systems, configuration, classification, terminology, and principles of functioning of high performance engines used in race competitions.
• Demonstrate the ability to assemble, test, and apply corrective methods to resolve technical issues related to maximum power performance of race engines using codes and specifications.
• Demonstrate knowledge of aerodynamics, stability, and control of race vehicles, and the ability to design, model, and fabricate structures and bodies of race vehicles using blueprints and safety specifications.
• Demonstrate knowledge of engineering materials, manufacturing processes, and testing techniques, and skill to conceive fabricate and/or assemble suspension, traction, steering and braking systems of race vehicles.

Occupational Objectives: Employment opportunities for graduates of this program include chassis technician, set-up assistant, crew member, block assembly assistant, engine builder, or engine machine technician in racing environments.

Admission Requirements: Students must meet the general admission requirements established by the college. Students with deficiencies in English or mathematics will complete appropriate developmental education courses. Students with deficiencies in computer skills and/or fundamental Motorsports terminology will complete additional coursework. Students may be required to complete a Motorsports Program Application and interview. Tools for the program are required.

Curriculum Requirements: The student must satisfactorily complete all general education, program and elective requirements to receive this degree. Student must maintain a 2.5 curricular grade point average to stay in program.

Graduation Requirements: In order to meet Patrick Henry Community College graduation requirements, all associates-degree students must complete Virginia Community College Core Competency testing. Testing is an on-going process and will be primarily administered during the capstone course (or other designated course) associated with a given degree. Please see the program advisor to determine and schedule appropriate times to complete Core Competency testing.
General Education Requirements (17-18 Credits):
- ENG 111 College Composition I (3)
- MTH 103 Applied Technical Mathematics I (3)
  [or MTH 163 Precalculus I (3)]
- PHY 131 Applied Physics I (3)
  [or PHY 201 General College Physics I (4)]
- CST 110 Introduction to Communication (3)
- PED/HLT Elective (1)
- Social Science Elective (3)
- SDV 108 College Survival Skills (1)

Program Requirements (49 Credits):
- ITE 115 Intro. to Computer Applications & Concepts (3)
- MTS 126 Motorsports Technology II (3)
- MTS 130 Motorsports Structural Technology I (3)
- MTS 131 Motorsports Structural Technology II (3)
- MTS 132 Motorsports Structural Technology III (3)
- MTS 135 Sheet Metal Fabrication (3)
- MTS 140 Stock Car Engines I (3)
- MTS 150 Engine Machining Processes I (4)
- MTS 195 High Performance Engine Induction Systems (3)
- MTS 210 Race Car Setup I (3)
- MTS 211 Race Car Setup II (3)
- MTS 240 Stock Car Engines II (3)
- MTS 250 Engine Machining Processes II (3)
- MTS 295 Machining and Welding (3)
- MTS 295 Introduction to Pit Stop (2)
- MTS 298 Dyno Engine Performance (3)
- MTS 299 Supervised Study in Motorsports (1)

Minimum required for degree: 66-67 credits

Sample Schedule
Motorsports Technology

### FIRST YEAR

#### Fall Semester
- ENG 111 College Composition I 3
- MTH 103 Applied Technical Mathematics I 3
- MTS 130 Motorsports Structural Technology I 3
- MTS 210 Race Car Setup I 3
- MTS 295 Machining and Welding 3
- SDV 108 College Survival Skills 1

#### Spring Semester
- CST 110 Introduction to Communication 3
- ITE 115 Intro. To Computer Applications & Concepts 3
- MTS 132 Motorsports Structural Technology III 3
- MTS 135 Sheet Metal Fabrication 3
- MTS 211 Race Car Setup II 3

Total Semester Hours: 66

### SECOND YEAR

#### Fall Semester
- MTS 126 Motorsports Technology II 3
- MTS 140 Stock Car Engines I 3
- MTS 150 Engine Machining Process I 4
- MTS 195 High Performance Engine Induction Systems 3
- PHY 131 Applied Physics I 3

#### Spring Semester
- MTS 240 Stock Car Engines II 3
- MTS 250 Engine Machining Process II 3
- MTS 298 Dyno Engine Performance 3
- MTS 295 Introduction to Pit Stop 2
- MTS 299 Supervised Study in Motorsports 1
- PED/HLT Elective 1
- Social Science Elective 3

Total Semester Hours: 66
Certificates

Automotive Technology
Bookkeeping
Clerical Studies
Computer Aided Drafting & Design
Early Childhood Education
General Business
General Education
Heating, Ventilation, Air Conditioning & Refrigeration
Health Sciences
Industrial Welding
Practical Nursing
Therapeutic Massage

Certificate programs can usually be completed in one year of full-time enrollment and offer specific general education along with key skill area courses. Certificate programs are often equal to the first year of a corresponding associate degree.
Automotive Technology Award: Certificate
Length: 3 semesters

Purpose: This program has a dual purpose for workforce development of the region. 1) This program provides students basic knowledge and skills for transfer into the PHCC Motorsports Technology program. 2) This program also provides entry level skills and knowledge for employment in Automotive Industry and advanced skills for individuals currently employed in the field.

Admission Requirements: Students must meet the general admission requirements established by the college. Students with deficiencies in English or mathematics will complete appropriate developmental education courses. (See Automotive Technology Advisor prior to enrollment)

Curriculum Requirements: The student must satisfactorily complete all general education, program and elective requirement listed below to receive a Certificate in Automotive Technology.

Industry Certification: A program graduate will be prepared for the ASE examination and certification.

General Education Requirements (9 Credits):
ENG 131 Technical Report Writing I (3)
[or ENG 111 College Composition I (3)]
MTH 120 Introduction to Mathematics (3)
ITE 115 Intro. to Computer Applications & Concepts (3)

Program Requirements (39 Credits):
AUT 111 Automotive Engines I (3)
AUT 121 Automotive Fuel Systems I (3)
AUT 125 Anti-Pollution Systems (3)
AUT 161-162 Automotive Diagnosis I & II (6)
AUT 165 Auto Diagnosis and Tune-Up (2)
AUT 190 Coordinated Internship (1)
AUT 215 Emissions Systems Diagnosis and Repair(2)
AUT 236 Automotive Climate Control (4)
AUT 241 Automotive Electricity I (3)
AUT 245 Automotive Electronics (3)
AUT 265 Automotive Braking System (3)
AUT 266 Auto Alignment, Suspension & Steering (3)
AUT 275 Shop Management (2)
SDV 108 College Survival Skills (1)

Minimum required for certificate: 48 credits

Sample Schedule
Automotive Technology

First Semester
ENG 131 Technical Report Writing I (3)
MTH 120 Introduction to Mathematics (3)
AUT 111 Automotive Engines I (3)
AUT 121 Automotive Fuel Systems I (3)
AUT 265 Automotive Braking Systems (3)
SDV 108 College Survival Skills (1)

Second Semester
AUT 125 Anti-Pollution Systems (3)
AUT 161 Automotive Diagnosis I (3)
AUT 215 Emission Systems Diagnosis & Repair (2)
AUT 236 Automotive Climate Control (4)
AUT 241 Automotive Electricity I (3)
AUT 275 Shop Management (2)

Third Semester
AUT 162 Automotive Diagnosis II (3)
AUT 165 Auto Diagnosis and Tune-Up (2)
AUT 245 Automotive Electronics (3)
AUT 266 Auto alignment, Suspension & Steering (3)
AUT 190 Coordinated Internship (1)
ITE 115 Intro. to Computer Applications & Concepts (3)

Total Semester Hours: 48
Bookkeeping

Award: Certificate
Length: 2 Semesters

Purpose: The purpose of this program is to provide additional knowledge and skill in basic accounting and bookkeeping for persons seeking immediate employment in the field, for those already employed who want to upgrade skills or for small business owners.

Occupational Objectives: Employment opportunities might include accountant’s assistant, bookkeeper, financial records manager, office manager or small business operator.

Potential Certification: A student may elect to take an industry-specific certification exam. The examinations generally require a testing fee paid by the student. After completion of this program, a student will be academically prepared to take the following examinations:
• Microsoft Office Specialist (MOS) – Excel
• Quickbooks Certification

Admission Requirements: Students must meet the general admission requirements established by the college. Students with deficiencies in English or mathematics will complete appropriate developmental education courses. Students with deficiencies in computer skills will complete additional coursework.

Curriculum Requirements: Students must successfully complete all of the general education, program and elective requirements listed below to be awarded this certificate.

Program Learning Outcomes: A student will be able to:
• Demonstrate ability to reason critically and problem-solve.
• Describe and use general business knowledge and skills.
• Apply the principles of financial accounting, managerial accounting, tax accounting, and payroll accounting.
• Prepare and interpret financial statements.
• Demonstrate proficiency in personal computer operations and applications.
• Demonstrate effective written communication skills in a business setting.

General Education Requirements (6 Credits):
ENG 111 College Composition I (3)
MTH 120 Introduction to Mathematics (3)

Program Requirements (29 Credits):
ACC 124 Payroll Accounting (3)
ACC 211-212 Principles of Accounting I-II (6)
ACC 215 Computerized Accounting (3)
ACC 261 Principles of Federal Taxation I (3)
BUS 100 Introduction to Business (3)
BUS 125 Applied Business Mathematics (3)
ITE 115 Intro. to Computer Applications & Concepts (3)
ITE 140 Spreadsheet Software (3)
SDV 108 College Survival Skills (1)

Minimum required for certificate: 34 Credits

Sample Schedule
Bookkeeping

Fall Semester
ACC 211 Principles of Accounting I 3
BUS 100 Introduction to Business 3
ENG 111 College Composition I 3
ITE 115 Intro. to Computer Applications & Concepts 3
MTH 120 Introduction to Mathematics 3
SDV 108 College Survival Skills 1 16

Spring Semester
ACC 124 Payroll Accounting 3
ACC 212 Principles of Accounting II 3
ACC 215 Computerized Accounting 3
ACC 261 Principles of Federal Taxation I 3
BUS 125 Applied Business Mathematics 3
ITE 140 Spreadsheet Software 3 18

Total Semester Hours: 34
Clerical Studies

**Award:** Certificate  
**Length:** 3 Semesters

**Purpose:** To provide competent entry-level office support personnel for immediate employment in business, industry, the professions, and government.

**Occupational Objectives:** Completion of this program may lead to employment or career advancement in any of a wide variety of positions such as clerk typist, data entry keyer, file clerk, general clerk, general clerk, clerk stenographer, shipping/receiving clerk, bank teller, information clerk, and switchboard operator/receptionist.

**Potential Certification:** A student may elect to take an industry-specific certification exam. The examinations generally require a testing fee paid by the student. After completion of this program, a student will be academically prepared to take the following examination:

- Microsoft Office Specialist (MOS) – Word, Excel, Access, PowerPoint

**Admission Requirements:** Students must meet the general admission requirements established by the college. Students with deficiencies in English or mathematics will complete appropriate developmental education courses. Students with deficiencies in computer skills or keyboarding will complete additional coursework.

**Curriculum Requirements:** The student must satisfactorily complete all general education, program and elective requirements listed below to receive a Certificate in Clerical Studies.

**Program Learning Outcomes:** A student will be able to:

- Demonstrate effective written communication skills in a business setting.
- Produce a variety of business documents using correct grammar, punctuation and spelling in a form acceptable in today’s business environment.
- Demonstrate proficiency in personal computer operations and applications.
- Demonstrate various methods of filing in storing and retrieving documents both manually and electronically.

**General Education Requirements (6 Credits):**

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<thead>
<tr>
<th>Course</th>
<th>Title</th>
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<tbody>
<tr>
<td>ENG 111</td>
<td>College Composition I</td>
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<tr>
<td>MTH 120</td>
<td>Introduction to Mathematics</td>
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**Program Requirements (35 Credits):**

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<tr>
<td>ACC 124</td>
<td>Payroll Accounting</td>
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<tr>
<td>[or SPA 103]</td>
<td>Basic Spoken Spanish I (3)</td>
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<tr>
<td>AST 101</td>
<td>Keyboarding I</td>
<td>3</td>
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<tr>
<td>AST 102</td>
<td>Keyboarding II</td>
<td>3</td>
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<tr>
<td>AST 154</td>
<td>Intro. to Voice Recognition Software</td>
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<tr>
<td>AST 141</td>
<td>Word Processing I</td>
<td>3</td>
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<tr>
<td>AST 238</td>
<td>Word Processing Advanced Operations</td>
<td>3</td>
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<tr>
<td>AST 243</td>
<td>Office Administration I</td>
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<td>[or elective approved by faculty advisor or division dean]</td>
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**Minimum required for certificate: 41 credits**

**Sample Schedule**

**Clerical Studies**

**Fall Semester**

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
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<tbody>
<tr>
<td>ACC 124</td>
<td>Payroll Accounting [or SPA 103]</td>
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</tr>
<tr>
<td>AST 101</td>
<td>Keyboarding I</td>
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<tr>
<td>ENG 111</td>
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<tr>
<td>ITE 115</td>
<td>Intro. to Computer Applications &amp; Concepts</td>
<td>3</td>
</tr>
<tr>
<td>MTH 120</td>
<td>Introduction to Mathematics</td>
<td>3</td>
</tr>
<tr>
<td>SDV 108</td>
<td>College Survival Skills</td>
<td>1</td>
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</table>

**Spring Semester**

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Credits</th>
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<tbody>
<tr>
<td>AST 102</td>
<td>Keyboarding II</td>
<td>3</td>
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<tr>
<td>AST 141</td>
<td>Word Processing I</td>
<td>3</td>
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<tr>
<td>ITE 150</td>
<td>Desktop Database Software</td>
<td>3</td>
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<tr>
<td>AST 260</td>
<td>Presentation Software</td>
<td>3</td>
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<tr>
<td>BUS 125</td>
<td>Applied Business Mathematics</td>
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**Summer Semester**

<table>
<thead>
<tr>
<th>Course</th>
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<tbody>
<tr>
<td>AST 154</td>
<td>Introduction to Voice Recognition Software</td>
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<tr>
<td>AST 238</td>
<td>Word Processing Advanced Operations</td>
<td>3</td>
</tr>
<tr>
<td>AST 243</td>
<td>Office Administration I</td>
<td>3</td>
</tr>
<tr>
<td>[or Approved Elective]</td>
<td></td>
<td></td>
</tr>
<tr>
<td>ITE 140</td>
<td>Spreadsheet Software</td>
<td>3</td>
</tr>
</tbody>
</table>

**Total Semester Hours: 41**
Computer Aided Drafting & Design

Award: Certificate
Length: 3 Semesters

Purpose: Students will learn to use advanced computer workstations with various CADD software applications. Students will receive instruction and practice in the planning, design, and preparation of high quality technical drawings for a variety of projects. In addition to technical courses, there are supporting courses in communications, mathematics, and social science. These courses serve to broaden the student’s general education background and thus better prepare students for employment and advancement in the career field.

Program Learning Outcomes: Program graduates have generic and specific occupational skills to be competitive in technical drawing creation and manipulation positions (CADD positions) in a variety of manufacturing, engineering, architectural and civil settings. Graduates demonstrate proficiency in 21st Century skills and use of current technological tools of the profession.

Occupational Objectives: Graduates may seek immediate employment or continue their education in the General Engineering Technology Degree program at PHCC. The curriculum is designed to provide educational background and skills training that would be required for students seeking employment in entry level architectural and industrial drafting such as architectural drafting technician, engineering drafting technician, engineering assistant, CAD operator or CAD drafter.

Admission Requirements: Students must meet the general admission requirements established by the college. Students with deficiencies in English or mathematics will complete appropriate developmental education courses. Students with deficiencies in computer skills will complete additional coursework.

Curriculum Requirements: The students must satisfactorily complete all requirements listed below to receive this certificate

General Education Requirements (7 Credits):
- ENG 131 Technical Report Writing I (3)
- [or ENG 111 College Composition I (3)]
- MTH 120 Introduction to Mathematics (3)
- SDV 108 College Survival Skills (1)

Program Requirements (32 Credits):
- CAD 111 Technical Drafting (3)
- CAD 200 Survey of Computer Aided Drafting (3)
- CAD 202 Computer Aided Drafting and Design II (3)
- CAD 203 Computer Aided Drafting and Design III (3)
- CAD 226 Computer Aided Machining (3)
- CAD 232 Computer Aided Drafting II (3)
- CAD 233 Computer Aided Drafting III (3)
- CAD 241 Parametric Modeling I (3)
- CAD 242 Parametric Modeling II (3)
- CAD 280 Design Capstone Project (2)
- ITE 115 Intro. to Computer Applications & Concepts (3)

Minimum required for certificate: 39 credits

Sample Schedule

Computer Aided Drafting & Design

First Semester
- CAD 111 Technical Drafting I 3
- CAD 200 Survey of Computer Aided Drafting 3
- ENG 131 Technical Report Writing I 3
  [or ENG 111]
- ITE 115 Intro. to Computer Applications & Concepts 3
- SDV 108 College Survival Skills 1

Second Semester
- MTH 120 Introduction to Mathematics 3
- CAD 202 Computer Aided Drafting and Design II 3
- CAD 226 Computer Aided Machining 3
- CAD 232 Computer Aided Drafting II 3
- CAD 241 Parametric Modeling I 3
- CAD 242 Parametric Modeling II 3

Third Semester
- CAD 203 Computer Aided Drafting and Design III 3
- CAD 233 Computer Aided Drafting III 3
- CAD 242 Parametric Modeling II 3
- CAD 280 Design Capstone Project 2

Total Semester Credit Hours 39
Early Childhood Education

**Award:** Certificate  
**Length:** 3 Semesters

**Purpose:** The curriculum is designed to train individuals in childcare and upgrade skills of those serving in a similar capacity.

**Program Learning Outcomes:** The graduate of the program will be qualified to serve as a director/administrator or a lead teacher in a licensed child care center, early learning center, or family day home in the state of Virginia.

**Occupational Objectives:** Graduates may qualify for a position as a day care provider, teacher’s aide in preschool programs, home care providers, and licensed day care administrators.

**Admission Requirements:** Students must meet the general admission requirements established by the college. Students with deficiencies in English or mathematics will complete appropriate developmental education courses.

**Curriculum Requirements:** Students must satisfactorily complete each of the requirements listed below to receive a Certificate in Early Childhood Education.

**General Education Requirements (15 Credits):**

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Credits</th>
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</thead>
<tbody>
<tr>
<td>ENG 111</td>
<td>College Composition I</td>
<td>3</td>
</tr>
<tr>
<td>PSY 135</td>
<td>Child Care Psychology</td>
<td>3</td>
</tr>
<tr>
<td>HLT 100</td>
<td>First Aid &amp; Cardiopulmonary Resuscitation</td>
<td>3</td>
</tr>
<tr>
<td>MTH 120</td>
<td>Introduction to Mathematics</td>
<td>3</td>
</tr>
<tr>
<td>ITE 115</td>
<td>Intro. to Computer Applications &amp; Concepts</td>
<td>3</td>
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**Program Requirements (22 Credits):**

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<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Credits</th>
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<tbody>
<tr>
<td>CHD 118</td>
<td>Methods &amp; Materials Language Arts for Children</td>
<td>3</td>
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<tr>
<td>CHD 120</td>
<td>Introduction to Early Childhood Education</td>
<td>3</td>
</tr>
<tr>
<td>CHD 125</td>
<td>Creative Activities for Children</td>
<td>3</td>
</tr>
<tr>
<td>CHD 126</td>
<td>Developing Science &amp; Math Concepts for Children</td>
<td>3</td>
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<tr>
<td>CHD 205</td>
<td>Guiding the Behavior of Children</td>
<td>3</td>
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<tr>
<td>CHD 265</td>
<td>Advanced Observation &amp; Participation in an Early Childhood Setting</td>
<td>3</td>
</tr>
<tr>
<td>HLT 100</td>
<td>First Aid and Cardiopulmonary Resuscitation</td>
<td>3</td>
</tr>
<tr>
<td>SDV 108</td>
<td>College Survival Skills</td>
<td>3</td>
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</table>

**Minimum required for certificate:** 37 Credits

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### Sample Schedule

#### Early Childhood Education

<table>
<thead>
<tr>
<th>Semester</th>
<th>Courses</th>
<th>Credits</th>
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</thead>
<tbody>
<tr>
<td><strong>First Semester</strong></td>
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<tr>
<td>CHD 118</td>
<td>Methods &amp; Materials in the Language Arts for Children</td>
<td>3</td>
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<tr>
<td>CHD 120</td>
<td>Introduction to Early Childhood Education</td>
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</tr>
<tr>
<td>ENG 111</td>
<td>College Composition I</td>
<td>3</td>
</tr>
<tr>
<td>ITE 115</td>
<td>Intro. to Computer Applications &amp; Concepts</td>
<td>3</td>
</tr>
<tr>
<td>PSY 135</td>
<td>Child Care Psychology</td>
<td>3</td>
</tr>
<tr>
<td>SDV 108</td>
<td>College Survival Skills</td>
<td>3</td>
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<td><strong>Total Semester Hours:</strong></td>
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<table>
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<tr>
<td><strong>Second Semester</strong></td>
<td></td>
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</tr>
<tr>
<td>CHD 125</td>
<td>Creative Activities for Children</td>
<td>3</td>
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<tr>
<td>CHD 126</td>
<td>Developing Science &amp; Math Concepts for Children</td>
<td>3</td>
</tr>
<tr>
<td>CHD 205</td>
<td>Guiding the Behavior of Children</td>
<td>3</td>
</tr>
<tr>
<td>CHD 265</td>
<td>Advanced Observation &amp; Participation in an Early Childhood Setting</td>
<td>3</td>
</tr>
<tr>
<td>HLT 100</td>
<td>First Aid and Cardiopulmonary Resuscitation</td>
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<td><strong>Total Semester Hours:</strong></td>
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<table>
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<tr>
<td><strong>Third Semester</strong></td>
<td></td>
<td></td>
</tr>
<tr>
<td>HLT 135</td>
<td>Child Health and Nutrition</td>
<td>3</td>
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<tr>
<td>MTH 120</td>
<td>Introduction to Mathematics</td>
<td>3</td>
</tr>
<tr>
<td><strong>Total Semester Hours:</strong></td>
<td>15</td>
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</tbody>
</table>

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General Business

Award: Certificate
Length: 2 Semesters

Purpose: This program is designed to provide additional knowledge and skills for persons seeking immediate employment in local business and those who wish to become better prepared to operate their own small business.

Occupational Objectives: Employment opportunities might include assistant department head, office manager, small business manager or assistant manager.

Admission Requirements: Students must meet the general admission requirements established by the college. Students with deficiencies in English or mathematics must complete appropriate developmental education courses. Students with deficiencies in computer skills will complete additional coursework.

Curriculum Requirements: Students must satisfactorily complete each of the requirements listed below in order to be awarded this certificate.

Program Learning Outcomes: A student will be able to:
- Demonstrate effective written communication skills in a business setting.
- Apply mathematical reasoning skills to formulate and solve problems.
- Describe and use general business knowledge and skills, including managerial and supervisory concepts.
- Apply the principles of financial accounting.
- Demonstrate proficiency in personal computer operations and applications.
- Demonstrate accepted ethical behaviors and interpersonal skills that reflect an understanding of diversity and teamwork.
- Describe contemporary approaches to management and methods to create a positive work environment.

General Education Requirements (9 Credits):
ECO 201 Principles of Macroeconomics (3)
[or ECO 202 Principles of Microeconomics (3)]
ENG 111 College Composition I (3)
MTH 120 Introduction to Mathematics (3)

Program Requirements (22 Credits):
ACC 211 Principles of Accounting I (3)
BUS 100 Introduction to Business (3)
BUS 125 Applied Business Mathematics (3)
BUS 200 Principles of Management (3)
BUS 241 Business Law I (3)
ITE 115 Intro. to Computer Applications & Concepts (3)
MKT 100 Principles of Marketing (3)
MKT 100 Principles of Marketing (3)
SDV 108 College Survival Skills (1)

Minimum required for certificate: 31 Credits

Sample Schedule

General Business

Fall Semester
ACC 211 Principles of Accounting I 3
BUS 100 Introduction to Business 3
ITE 115 Intro. to Computer Applications & Concepts 3
MKT 100 Principles of Marketing 3
MTH 120 Introduction to Mathematics 3
SDV 108 College Survival Skills 1

Spring Semester
BUS 125 Applied Business Mathematics 3
BUS 200 Principles of Management 3
BUS 241 Business Law 3
ECO 201 Principles of Macroeconomics [or ECO 202] 3
ENG 111 College Composition I 3

Total Semester Hours: 32
General Education

Award: Certificate

Length: 2 Semesters

Purpose: The Certificate in General Education is designed for students who are preparing to transfer to a four-year institution after one year of study. The program may also be attractive to students who intend to transition into one of PHCC's associate degrees. Course selection should be made in consultation with an academic advisor to ensure that students complete courses required by their transfer institution.

Program Description: This program consists of a minimum of 33 credit hours of instruction distributed into general education courses. Only courses which are transfer level college courses may be counted in this degree. This curriculum is the general equivalent of the first year of study in a PHCC transfer degree and it may be tailored to meet the requirements of most transfer degree programs at four-year institutions.

Admission Requirements: Entry into this curriculum is obtained by meeting the admission requirements established by the College. You must take developmental coursework as required by placement testing.

Curriculum Requirements: Requirements for the certificate are listed in the curriculum below.

General Education/Program Requirements
ENG 111 College Composition I (3)
ENG 112 College Composition II (3)
SDV 108 College Survival Skills (1)

Humanities/Fine Arts Elective (6 credits) selected from:
HUM EEE (Humanities/Fine Arts Elective): ART 101 or ART 201, ART 102 or 202, ART 283, ART 284, CST 130 or CST 231, ENG 241, ENG 242, ENG 243, ENG 244, ENG 251, ENG 252, ENG 253, ENG 254, FRE 101, FRE 102, MUS 121, PHI 101, PHI 111, PHI 220, REL 200, REL 210. REL 231, SPA 101, SPA 102

Math Elective (3 credits) selected from:
MTH EEE (Math Elective): MTH 150, MTH 151, MTH 152, MTH 157, MTH 163, MTH 164, MTH 166, MTH 173, MTH 174, MTH 175, MTH 176, MTH 177, MTH 178, MTH 240, MTH 241, MTH 271

Natural Science Elective (8 credits) selected from:
NAS EEE (Natural Science Elective): BIO 101, BIO 102, BIO 141, BIO 142, BIO 231, BIO 232, CHM 111, CHM 112, GOL 105, GOL 106, GOL 206, GOL 225, PHY 201, PHY 202, PHY 241, PHY 242

Social Science Elective (9 credits) selected from:
SSC EEE (Social Science Elective): ECO 201, ECO 202, GEO 210, HIS 101, HIS 102, HIS 121, HIS 122, HIS 141, HIS 142, PLS 211, PLS 212, PSY 200, PSY 215, PSY 230, PSY 235, SOC 200, SOC 215, SOC 226, SOC 268

Minimum required for certificate: 33 Credits

Sample Schedule

First Semester
ENG 111 College Composition I 3
HUM EEE Humanities/Fine Arts Elective 3
MTH EEE Math Elective 3
NAS EEE Natural Science Elective 4
SSC EEE Social Science Elective 3
SDV 108 College Survival Skills 1

Second Semester
ENG 112 College Composition II 3
HUM EEE Humanities/Fine Arts Elective 3
NAS EEE Natural Science Elective 4
SSC EEE Social Science Elective 3

Total Semester Hours: 33
Heating, Ventilation, Air Conditioning & Refrigeration

**Award:** Certificate  
**Length:** 3 Semesters

**Purpose:** This program provides the student with entry-level skills for employment in residential, commercial and industrial fields. It also provides advanced and upgraded training for those presently employed. Theoretical classroom experiences as well as hands on experiences are utilized.

**Program Learning Outcomes:** A graduate of the HVAC program will have demonstrated mastery of generic and specific residential, commercial and industrial occupational skills relative to the field. Graduates will be prepared for EPA Certification.

**Occupational Objectives:** Graduates of this program will qualify for positions with residential contractors, commercial installers and industrial HVAC maintenance mechanics.

**Admission Requirements:** Students must meet the general admission requirements established by the college. Students with deficiencies in English or mathematics will complete appropriate developmental education courses.

**Curriculum Requirements:** The student must satisfactorily complete all general education, program and elective requirements listed below to receive a Certificate in Heating, Ventilation, Air Conditioning and Refrigeration.

**General Education Requirements (13 Credits):**
- ENG 131 Technical Report Writing I (3)  
  [or ENG 111 College Composition I (3)]  
- MTH 120 Introduction to Mathematics I (3)  
- HLT 100 First Aid & Cardiopulmonary Resuscitation (3)  
- ITE 115 Intro. to Computer Applications & Concepts (3)  
- SDV 108 College Survival Skills (1)

**Program Requirements (36 Credits):**
- AIR 117 Metal Layout I (3)  
- AIR 121 Air Conditioning and Refrigeration I (4)  
- AIR 134 Circuits and Controls I (4)  
- AIR 154 Heating Systems I (3)  
- AIR 190 Coordinated Internship (1)  
- AIR 235 Heat Pumps (3)  
- AIR 238 Advanced Troubleshooting and Service (3)  
- AIR 253 Air Conditioning Systems III (3)  
- AIR 257 Gas Fired Warm Air Furnaces (4)  
- ELE 115 Basic Electricity (3)  
- AIR 299 Supervised Study in HVAC (2)  
- ENE 105 Solar Thermal Active and Passive Technology (4)  
- ENE 230 Geothermal Applications (4)  
- HLT 100 First Aid & Cardiopulmonary Resuscitation (3)  
- ITE 115 Intro. to Computer Applications & Concepts (3)

**Minimum required for certificate:** 49 Credits

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**Sample Schedule**

**Heating, Ventilation, Air Conditioning & Refrigeration**

**First Semester**
- AIR 121 Air Conditioning and Refrigeration I (4)  
- AIR 154 Heating Systems I (3)  
- ENG 131 Technical Report Writing (3)  
  [or ENG 111]  
- ELE 115 Basic Electricity (3)  
- MTH 120 Introduction to Mathematics (3)  
- SDV 108 College Survival Skills (1)

**Second Semester**
- AIR 134 Circuits and Controls (4)  
- AIR 235 Heat Pumps (3)  
- ENE 105 Solar Thermal Active and Passive Technology (4)  
- ENE 230 Geothermal Applications (4)

**Third Semester**
- AIR 117 Metal Layout I (3)  
- AIR 238 Advanced Troubleshooting & Service (3)  
- AIR 253 Air Conditioning Systems III (3)  
- AIR 299 Supervised Study in HVAC (2)  
- HLT 100 First Aid & Cardiopulmonary Resuscitation (3)  
- ITE 115 Intro. to Computer Applications & Concepts (3)

**Total Semester Hours:** 49
**Health Sciences**

**Award:** Certificate  
**Length:** 2 semesters

**Purpose:** This program will prepare graduates for entry into many health science programs of study. Public School students may complete this program through dual enrollment for entry into many post-secondary health science programs as a sophomore. The program is designed to serve both the needs of students interested in the associate degree nursing program at PHCC and those interested in allied health programs at other schools of choice. Students transferring to other schools are responsible for verifying transferability of PHCC courses.

**Occupational Objectives:** This certificate prepares the student for entry into many different health career programs.

**Admission Requirements:** Students must meet the general admission requirements established by the college. Certain certificate-related courses require satisfactory scores on college placement tests. Students with deficiencies will be required to complete satisfactorily developmental education courses before enrolling in these courses. Admission to the Health Sciences Certificate does not guarantee admission to medical school or other allied health programs.

**Curriculum Requirements:** The student must satisfactorily complete all courses or approved substitutes in the curriculum to receive a Certificate in Health Sciences. Students who complete a Health Science Certificate must earn a “C” average in all science, social science and math classes.

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Credits</th>
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<tbody>
<tr>
<td>CST 110</td>
<td>Introduction to Communication</td>
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<tr>
<td>BIO 231-232</td>
<td>Human Anatomy and Physiology I-II</td>
<td>8</td>
</tr>
<tr>
<td>ENG 111-112</td>
<td>College Composition I-II</td>
<td>6</td>
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<tr>
<td>HLT 143</td>
<td>Medical Terminology I</td>
<td>3</td>
</tr>
<tr>
<td>HLT 230</td>
<td>Principles of Nutrition and Human Development</td>
<td>3</td>
</tr>
<tr>
<td>ITE 115</td>
<td>Intro. to Computer Applications &amp; Concepts</td>
<td>3</td>
</tr>
<tr>
<td>MTH 126</td>
<td>Mathematics for Allied Health</td>
<td>3</td>
</tr>
<tr>
<td>PSY 230</td>
<td>Developmental Psychology</td>
<td>3</td>
</tr>
<tr>
<td>SDV 108</td>
<td>College Survival Skills</td>
<td>1</td>
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<tr>
<td>SOC 200</td>
<td>Principles to Sociology</td>
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**Minimum required for certificate:** 36 credits

**Sample Schedule**

**First Semester**

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<tr>
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<th>Title</th>
<th>Credits</th>
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<tr>
<td>SDV 108</td>
<td>College Survival Skills</td>
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<tr>
<td>CST 110</td>
<td>Introduction to Speech Communication</td>
<td>3</td>
</tr>
<tr>
<td>ENG 111</td>
<td>College Composition I</td>
<td>3</td>
</tr>
<tr>
<td>ITE 115</td>
<td>Intro. to Computer Applications &amp; Concepts</td>
<td>3</td>
</tr>
<tr>
<td>HLT 143</td>
<td>Medical Terminology I</td>
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**Second Semester**

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<tr>
<td>ENG 112</td>
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<tr>
<td>BIO 231</td>
<td>Human Anatomy and Physiology I</td>
<td>4</td>
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<tr>
<td>HLT 230</td>
<td>Principles of Nutrition and Human Development</td>
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</tr>
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<td>PSY 230</td>
<td>Developmental Psychology</td>
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**Third Semester**

<table>
<thead>
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<th>Course</th>
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<tr>
<td>BIO 232</td>
<td>Human Anatomy and Physiology II</td>
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</tr>
<tr>
<td>MTH 126</td>
<td>Mathematics for Allied Health</td>
<td>3</td>
</tr>
<tr>
<td>SOC 200</td>
<td>Principles to Sociology</td>
<td>3</td>
</tr>
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</table>

**Total Semester Hours:** 36
Industrial Welding

**Award:** Certificate

**Length:** 3 Semesters

**Purpose:** The curriculum is designed to provide skills and knowledge in general and specialized welding.

**Program Learning Outcomes:** Program graduates’ have generic and specific occupational skills to be competitive in welding positions in a variety of settings such as welding specialist, welding assistant, self-employment and industrial maintenance. Graduates demonstrate proficiency in 21st Century skills and use of current technological tools of the profession, and take an American Welding Society D1.1 Structural Welding Code Certification Test.

**Occupational Objectives:** Employment opportunities for graduates of this program might include welding specialist, welding assistant, self-employment and industrial maintenance.

**Admission Requirements:** Students must meet the general admission requirements established by the college. Students with deficiencies in English or mathematics must complete appropriate developmental education courses.

**Curriculum Requirements:** The student must satisfactorily complete all general education, program and elective requirements listed below to receive a Certificate in Industrial Welding.

**General Education Requirements (9 Credits):**
- ENG 131 Technical Report Writing I (3)
- [or ENG 111 College Composition I (3)]
- MTH 120 Introduction to Mathematics (3)
- HLT 100 First Aid & Cardiopulmonary Resuscitation (3)

**Program Requirements (30 Credits):**
- SDV 108 College Survival Skills (1)
- WEL 117 Oxyacetylene Welding and Cutting (3)
- WEL 123 ARC Welding (Basic) (4)
- WEL 124 ARC Welding (Advanced) (4)
  
  *(Skill demonstration test must be satisfactorily completed in WEL 124 before proceeding into WEL 126)*
- WEL 126 Pipe Welding I (3)
- WEL 130 Inert Gas Welding (3)
- WEL 141 Welding Qualification Tests I (3)
- WEL 145 Welding Metallurgy (3)
- WEL 150 Welding Drawing and Interpretation (2)
- WEL 198 Seminar and Project (4)

**Minimum required for certificate:** 39 Credits

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Sample Schedule

**Industrial Welding**

**First Semester**
- ENG 131 Technical Report Writing I (3)
  
  *(or ENG 111)*
- MTH 120 Introduction to Mathematics (3)
- SDV 108 College Survival Skills (1)
- WEL 117 Oxyacetylene Welding and Cutting (3)
- WEL 123 ARC Welding (Basic) (4)
- WEL 150 Welding Drawing and Interpretation (2)

**Second Semester**
- HLT 100 First Aid and Cardiopulmonary Resuscitation (3)
- WEL 126 Pipe Welding I (3)
- WEL 124 ARC Welding (Advanced) (4)
- WEL 130 Inert Gas Welding (3)
- WEL 145 Welding Metallurgy (3)

**Third Semester**
- WEL 198 Seminar and Project (4)
- WEL 141 Welding Qualification Tests I (3)

**Total Semester Hours:** 39
Practical Nursing

Award: Certificate  
Length: 3 Semesters

Purpose: The purpose of this program is to prepare selected students to qualify as practitioners of practical nursing in a variety of health service facilities. After successful completion of the program, students will be eligible to apply to take the National Council Licensure Examination-Practical Nurse. Passage of this exam will make the graduate eligible to be licensed as a Licensed Practical Nurse in the Commonwealth of Virginia.

Program Learning Outcomes: A graduate of the program will have demonstrated mastery of generic and specific occupational knowledge and skills prior to graduation. Skill and knowledge attainment is assured through regular, valid and reliable comprehensive assessment. Graduates of the program will be eligible to apply to take the National Council Licensure Examination for Practical Nurses.

Special Accreditation Status: The program is approved by the Virginia Board of Nursing.

Occupational Objectives: Employment opportunities for the licensed practical nurse include staff positions in hospitals, long term care facilities, physicians’ offices, clinics, day care centers, industry, schools and home health care agencies.

Admission Requirements: The applicant must meet the following requirements for admission into the required clinical courses ((PNE 161, 141, 142, 163, 145, 154, 258, 259, 100)). Interested students should contact the nursing/allied health office for academic advising.
1. Be accepted as a student to the college.
2. Graduate from high school or a GED.
3. Complete the Compass test. If scores indicate, the applicant will be required to successfully complete developmental courses before submitting a practical nursing program application.
4. Validate computer competency equivalent to ITE 95.
5. Complete one unit of high school algebra with no grade below a ‘C’. Deficiencies can be made up through approved developmental or college level courses. Deficiencies must be completed before application to the practical nursing program.
6. Complete one high school unit of college prep level science with no grade below a C. Course to be used for high school substitute class: BIO 101 or BIO 102
7. Maintain cumulative college or high school grade point average of 2.5 or better.
8. After meeting the above criteria, submit an application for the Practical Nursing Program during the specified advertised application period, along with required paperwork, i.e. high school transcripts, college transcripts, etc. during the application period.
9. Achieve a passing score on the Admission Test.
10. Students will be scheduled for the admission test after their application file has been reviewed and approved. Applicants must have satisfactory scores in reading, mathematics, science, English and language usage.

Admission procedure: Applications to the nursing program are processed during specified advertised application periods. At the end of the advertised application period, completed applications with required supporting documents, will be reviewed and considered. Admission testing will be offered to students meeting all admission requirements. Students who meet criteria, meaning score within the state regulation (45th percentile ranking) will be given priority. NOTE: When admission must be limited because the number of qualified applicants exceeds available space, admission to the program will be given to applicants who scored at or above the 45th percentile ranking, and are also residents of the college service area. If seats are still available applicants who scored at or above the 45th percentile ranking, who live outside of the college service area will be offered admission starting with the higher percentile ranking, until all seats are filled. Applicants who are not accepted will be eligible to reapply at the next application period, at which time applicants meeting admission requirements will be allowed to repeat the admission test, and the most recent scores will be used for admission consideration.

The typical physical demands of a licensed practical nurse include the following: full range of motion including handling and lifting patients and/or equipment, manual and finger dexterity and eye-hand coordination. The job generally requires standing and walking for extensive periods of time. The licensed practical nurse should be able to lift and carry items weighing up to 50 pounds. The job settings have stressful conditions and/or irregular hours. There is the potential for exposure to communicable diseases. After admission to the clinical courses, the prospective student is provided with a physical exam form that must be completed by a physician prior to enrolling in nursing classes.

Upon admission, students are required to undergo mandatory drug screening and a criminal background check. Students must have a negative drug screen in order to begin clinical courses. Any charges or costs associated with the criminal background check and drug screen will be the responsibility of the student.

Please note that the Virginia State Board of Nursing may refuse to admit a candidate to any licensure examination and refuse to issue a license or certificate to any applicant who has been convicted of any felony or misdemeanor involving moral turpitude. Students must produce a satisfactory criminal background check to the standards of all clinical agencies used by the college for experiential learning prior to enrolling in the Practical Nursing program.
Financial Requirements: In addition to the usual college tuition and fees, this program requires additional expenses. Approximate costs include:

- Uniforms: $230
- Physical Examination: $100
- Books: $400-$800
- Graduation Pin: cost depends on price of gold or silver
- AHA BCLS CPR certification: $127
- Standardized Tests: $97
- Criminal Background Checks: $48 minimum
- Drug Screens: $38 minimum
- Application for Licensure fees: $370
- Transportation to clinical agencies, seminars, etc. as required

Curriculum Requirements: Students must successfully complete all of the general education and program listed below to be awarded this certificate. To remain in the program, a student must have a “C” or above in all PNE and NUR courses. Additionally, student must have a grade of “C” or above in all semesters of natural science and psychology courses.

General Education Requirements (11 Credits):
- ENG 111 College Composition I (3)
- NAS 150 Human Biology (4)
- PSY 230 Developmental Psychology (3)
- HLT 141 Introduction to Medical Terminology (1)

Program Requirements (37 Credits):
- PNE 161 Nursing in Health Changes I (6)
- PNE 141-142 Nursing Skills I-II (4)
- NUR 135 Drug Dosage Calculations (2)
- PNE 163 Nursing in Health Changes III (8)
- PNE 145 Trends in Practical Nursing (1)
- PNE 164 Nursing in Health Changes IV (11)
- PNE 173 Pharmacology for Practical Nurses (2)
- PNE 158 Mental Health and Psychiatric Nursing (2)
- SDV 108 College Survival Skills (1)

Minimum required for certificate: 49 Credits

Sample Schedule
Practical Nursing

First Semester
- PNE 161 Nursing in Health Changes I 6
- PNE 141 Nursing Skills I 2
- PNE 142 Nursing Skills II 2
- NAS 150 Human Biology 4
- NUR 135 Drug Dosage Calculations 2
- HLT 141 Introduction to Medical Terminology 1
- SDV 108 College Survival Skills 1

Second Semester
- PNE 163 Nursing in Health Changes III 8
- PNE 173 Pharmacology for PN 2
- PSY 230 Developmental Psychology 3
- ENG 111 College Composition I 3

Third Semester
- PNE 164 Nursing in Health Changes IV 11
- PNE 158 Mental Health and Psychiatric Nursing 2
- PNE 145 Trends in Practical Nursing 1

Total Semester Hours: 48
Therapeutic Massage

**Award:** Certificate  
**Length:** 4 Semesters

**Purpose:** To prepare graduates for the national certification exam or equivalent in Massage Therapy in Virginia.

**Program Learning Outcomes:** A graduate of the program will have demonstrated mastery of generic and specific occupational skills prior to graduation. Skill attainment is assured through regular, valid, and reliable comprehensive assessment. Graduates will be eligible to apply to take the National examination (NCETM or NCETMB). After successful passage of this exam, the graduate will be eligible for licensure in Virginia as a Massage Therapist.

**Occupational Objectives:** Licensed graduates with national certification can work independently in a variety of health care, business, and recreational settings as well as self employment. Businesses using massage therapists include hotels, cruise ships, hospitals, corporations, doctors’ offices, and many spa or personal wellness agencies.

**National Certification:** Graduates of the program must have a minimum of 750 documented hours of supervised training to be eligible to apply to take the national certification examination. Passage of the examination will allow graduates to become licensed as a Massage Therapist by the Commonwealth of Virginia.

**Admission Requirements:** Students must meet the general admission requirements established by the college. Students need to be on level in English and place out of MTE 1-2 on the college placement test. If deficiencies are present, the appropriate developmental education courses must be taken. (See Health Science Advisor prior to enrollment)

**Curriculum Requirements:** The student must satisfactorily complete all general education, program and elective requirements listed below to receive a Certificate in Therapeutic Massage.

**General Education Requirements (15 Credits):**  
- ENG 111 College Composition I (3)  
- ENG 112 College Composition II (3)  
- BUS 165 Small Business Management (3)  
- HLT 105 Cardiopulmonary Resuscitation (1)  
- PED 109 Yoga (1)  
- NAS 150 Human Biology (4)

**Program Requirements (25 Credits):**  
- HLT 195 Theories of Massage (3)  
- HLT 180 Therapeutic Massage I (3)  
- HLT 280 Therapeutic Massage II (3)  
- HLT 281 Therapeutic Massage III (3)  
- HLT 295 Specialized Massage Therapies (3)  
- HLT 220 Concepts of Disease (3)

**Minimum required for certificate:** 42 Credits

Students must complete each of the above requirements for a total of 42 credit hours.

Please note that the core massage courses are offered in the evenings and on Saturdays.

**Sample Schedule**  
**Therapeutic Massage**

**First Semester**  
- ENG 111 College Composition I 3  
- HLT 195 Theories of Massage 3  
- HLT 180 Therapeutic Massage I 3  
- NAS 150 Human Biology 4  
- SDV 108 College Survival Skills 1  

**Second Semester**  
- ENG 112 College Composition II 3  
- HLT 116 Personal Wellness 3  
- HLT 280 Therapeutic Massage II 3  
- HLT 295 Specialized Massage Therapies 5  
- PED 109 Yoga 1  

**Third Semester**  
- HLT 143 Medical Terminology 3  
- BUS 165 Small Business Management 3  
- HLT 105 Cardiopulmonary Resuscitation 1  
- HLT 220 Concepts of Disease 3  
- HLT 281 Therapeutic Massage III 3  

**Total Semester Hours:** 42
Career Studies
Certificates

Art Studies
Automotive Engine Technology
Auto Body Technology
Building Trades Technology
Computer Service Technician
Culinary Arts
Culinary and Hospitality Management
Customer Support Specialist
Early Childhood Instruction
E-Commerce Management
Emergency Medical Technician – Basic
Emergency Medical Technician-Intermediate
Emergency Medical Technician-Paramedic
Entrepreneurial Studies
Fire Science
Graphic Communications
Heating, Ventilation, Air Conditioning & Refrigeration
High-Demand Occupational Programs for Employment:
  Customer Service
  Food Service
Horticulture
Industrial Controls
Industrial Maintenance Electronics
International Business
Internet Webmaster
Management Assistant
Manufacturing Technician
Medical Transcription
Microcomputer Literacy
Motorsports Engines Technology
Motorsports Fabrication and Set-Up Technology
Motorsports Management
Nurse Aide Training
Office Assisting
Pharmacy Technician
Residential/Commercial/Industrial Electrician
School-Age Child Care
Small Business Management
Supervision
Theatre Arts
Viticulture
Welding
Wellness

Career Studies Certificates require less than a full year of study in an occupational area, but include key courses for a strong introduction to the area of study. They are designed primarily to enhance or develop job skills.
Career Studies Certificates

Length: Variable for upgrading, retraining and continuing career students. The options within this program normally amount to the minimum equivalent of one semester of full-time community college work and not more than the equivalent of a year (9-29) credits.

Purpose: Many students seek post-secondary career programs of study that are less than the conventional one- or two-year programs. The Career Studies Certificate program is a response to the needs of many adults within PHCC’s service region and is intended to represent the minimum amount of college course work needed in these fields of study. Each of the program options is designed as a distinct “mini-curriculum” within a broader range of adult educational possibilities.

Certificate Award: After satisfactorily completing courses with a “C” average (2.0), the student should contact the registrar’s office and apply for graduation after verification that all program requirements have been met. Students interested in a certificate, diploma or associate degree should talk to a counselor to investigate the possibilities of using these courses in other curricula.

Admission Requirements: Students must meet the general admission requirements established by the college.

Other Information: Certain certificate-related courses require satisfactory scores on college placement tests. Students with deficiencies will be required to complete satisfactorily developmental education courses before enrolling in these courses. Other certificate-related courses may be taken while developmental education are being completed. Some programs, such as Therapeutic Massage require additional expenditures for supplies and equipment. Please check with the appropriate division dean for this information.

Automotive Engine Technology

Purpose: This program is designed for students who wish to enter advanced Motorsports engine courses. Students must score 80 points or higher on the PHCC engine technology assessment to proceed. Students with deficiencies in Automotive Technology will complete additional course work. Students must complete all required courses as advised by department faculty and maintain a 2.5 Curriculum Grade Point Average to continue in the program. Tools for the program are required.

Program Learning Outcomes: Graduates will have fundamental skills for advanced training in dynamics of high performance engines. Graduates will demonstrate proficiency in automotive engine repair and maintenance.

Art Studies

Purpose: This program is designed to provide skills for the individual pursuing a vocational or other artistic interest.

Program Learning Outcomes: A student will be able to:
• Demonstrate an appreciation for the arts.
• Demonstrate competency in at least two areas within the field of visual arts.

Auto Body Technology

Purpose: This program is designed for students who wish to gain basic skills for entry level positions in Auto Body repair.

Program Learning Outcomes: Graduates will have fundamental skills for entry level auto body repair. Graduates will demonstrate proficiency in automotive collision repair and maintenance.

Student must complete the above 19 credit hours to be awarded the Career Studies Certificate in Auto Body Technology.

SDV 108 College Survival Skills (1)

Students must complete the above 13 credits to be awarded the Career Studies Certificate in Art Studies.
Building Trades Technology

**Purpose:** This program is designed to provide introductory training for individual seeking entry-level employment in trades-related fields.

**Program Learning Outcomes** Graduates will have fundamental skills for entry level construction tradesman. Graduates will demonstrate proficiency in fundamental carpentry, electricity, plumbing, and masonry.

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>BLD 105</td>
<td>Shop Practices and Procedures</td>
<td>3</td>
</tr>
<tr>
<td>BLD 111</td>
<td>Blueprint Reading and Building Code</td>
<td>3</td>
</tr>
<tr>
<td>BLD 135</td>
<td>Building Construction Carpentry</td>
<td>3</td>
</tr>
<tr>
<td>BLD 140</td>
<td>Principles of Plumbing Trade I</td>
<td>3</td>
</tr>
<tr>
<td>BLD 147</td>
<td>Principles of Block and Bricklaying</td>
<td>3</td>
</tr>
<tr>
<td>BLD EEE</td>
<td>Elective</td>
<td>3</td>
</tr>
<tr>
<td>ELE 110</td>
<td>Home Electric Power</td>
<td>3</td>
</tr>
<tr>
<td>ENG 111</td>
<td>College Composition I</td>
<td>3</td>
</tr>
<tr>
<td>MTH 21</td>
<td>Survey of Technical Mathematics I</td>
<td>3</td>
</tr>
<tr>
<td>SDV 108</td>
<td>College Survival Skills</td>
<td>1</td>
</tr>
</tbody>
</table>

Students must complete the above 28 credit hours to be awarded the Career Studies Certificate in Building Trades Technology.

Computer Service Technician

**Purpose:** This program is designed to provide skills and knowledge needed for employment as a computer service technician and certification for the CompTIA A+ exam.

**Program Learning Outcomes:** A student will be able to:
- Demonstrate skills in computer hardware knowledge related to installation, configuration, and upgrading, diagnosing and troubleshooting, preventive maintenance, printers, and basic networking.
- Demonstrate skills in computer operating system knowledge related to operating system fundamentals, installation, configuration, and upgrading, diagnosing and troubleshooting, and networks.

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Credits</th>
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</thead>
<tbody>
<tr>
<td>CSC 110</td>
<td>Introduction to Computing</td>
<td>3</td>
</tr>
<tr>
<td>ITE 115</td>
<td>Intro. to Computer Applications &amp; Concepts</td>
<td>3</td>
</tr>
<tr>
<td>ITE 199</td>
<td>Supervised Study-Certification Exam Preparation</td>
<td>3</td>
</tr>
<tr>
<td>ITN 106</td>
<td>Microcomputer Operating Systems</td>
<td>3</td>
</tr>
<tr>
<td>ITN 107</td>
<td>Personal Computer Hardware and Troubleshooting</td>
<td>3</td>
</tr>
<tr>
<td>SDV 108</td>
<td>College Survival Skills</td>
<td>1</td>
</tr>
</tbody>
</table>

Students must complete the above 16 credit hours to be awarded the Career Studies Certificate in Computer Service Technician.

Culinary Arts

**Purpose:** This program prepares graduates for entry level responsibilities in the hospitality industry.

**Program Learning Outcomes:** Upon completion, each student has a working knowledge of food production in a professional culinary work environment.

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>HRI 106</td>
<td>Principles of Culinary Arts I</td>
<td>3</td>
</tr>
<tr>
<td>HRI 119</td>
<td>Applied Nutrition for Food Service</td>
<td>3</td>
</tr>
<tr>
<td>HRI 128</td>
<td>Principles of Baking</td>
<td>3</td>
</tr>
<tr>
<td>HRI 134</td>
<td>Food and Beverage Service Management</td>
<td>3</td>
</tr>
<tr>
<td>HRI 154</td>
<td>Principles of Hospitality Management</td>
<td>3</td>
</tr>
<tr>
<td>HRI 158</td>
<td>Sanitation &amp; Safety</td>
<td>3</td>
</tr>
<tr>
<td>HRI 190</td>
<td>Coordinated Internship</td>
<td>3</td>
</tr>
<tr>
<td>HRI Elective</td>
<td></td>
<td>3</td>
</tr>
<tr>
<td>ITE 115</td>
<td>Intro. To Computer Applications &amp; Concepts</td>
<td>3</td>
</tr>
<tr>
<td>SDV 108</td>
<td>College Survival Skills</td>
<td>1</td>
</tr>
</tbody>
</table>

Students must complete the above 28 credit hours to be awarded the Career Studies Certificate in Culinary Arts.

Culinary and Hospitality Management

**Purpose:** This program prepares graduates to fulfill mid to upper level responsibilities in the hospitality industry.

**Program Learning Outcomes:** Upon completion, each student has the knowledge base in food production, dining and managing food service tasks to work as lead cook in the food service field.

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>BUS 165</td>
<td>Small Business Management</td>
<td>3</td>
</tr>
<tr>
<td>BUS 205</td>
<td>Human Resource Management</td>
<td>3</td>
</tr>
<tr>
<td>HRI 145</td>
<td>Garde Manger</td>
<td>3</td>
</tr>
<tr>
<td>HRI 158</td>
<td>Sanitation and Safety</td>
<td>3</td>
</tr>
<tr>
<td>[or approved HRI Elective (3)]</td>
<td></td>
<td></td>
</tr>
<tr>
<td>HRI 207</td>
<td>American Regional Cuisine</td>
<td>3</td>
</tr>
<tr>
<td>HRI 218</td>
<td>Fruit, Vegetable, and Starch Preparation</td>
<td>3</td>
</tr>
<tr>
<td>HRI 219</td>
<td>Stock, Soup, and Sauce Preparation</td>
<td>3</td>
</tr>
<tr>
<td>HRI 220</td>
<td>Meat, Seafood and Poultry Preparation</td>
<td>3</td>
</tr>
<tr>
<td>HRI 251</td>
<td>Food and Beverage Cost Control I</td>
<td>3</td>
</tr>
<tr>
<td>HRI 290</td>
<td>Internship in Culinary Arts</td>
<td>2</td>
</tr>
</tbody>
</table>

Students must complete the above 29 credit hours to be awarded the Career Studies Certificate in Culinary and Hospitality Management.

Customer Support Specialist

**Purpose:** This program is designed to provide skills and knowledge for employment as a customer support/help desk associate and certification from the Help Desk Institute as a Customer Support Specialist.

**Program Learning Outcomes:** A student will be able to:
- Demonstrate knowledge and skills related to the customer...
Program Learning Outcomes: Graduates of the program will have the knowledge and skills to practice as an Emergency Medical Technician in a variety of health service facilities. A graduate of the program will have demonstrated mastery of generic and specific basic life support skills prior to graduation. Skill attainment is assured through regular, valid and reliable comprehensive assessment.

Admission Requirements: Students must meet the following requirements for admission to the EMT – Basic Career Studies Certificate Program. Interested students should contact the EMS Program Director for academic advising.

1. Be accepted as a student to the college.
2. Graduation from high school or satisfactory completion of the GED.
3. Completion of PHCC Admission Placement tests unless appropriate college level English or math courses have been successfully completed.
4. Students holding current Virginia certification as either an Emergency Medical Technician or EMT-Enhanced may be considered for advanced placement after all other admission requirements are met.

The typical physical demands of an emergency medical technician include the following: full range of motion including handling and lifting patients and/or equipment, manual and finger dexterity and eye-hand coordination. The job generally requires standing, walking for extensive periods of time, and working in all type of environments. The emergency medical technician should be able to lift and carry items weighing up to 50 pounds. The job settings may have stressful conditions and/or irregular hours. There is a potential for exposure to communicable diseases.

Please note that any prospective EMS student with a criminal conviction needs to speak with the EMS Program Director prior to enrollment at PHCC. Certain convictions will prevent the person from being certified as an Emergency Medical Services Provider in Virginia. Students must produce a satisfactory criminal background check to the standards of all clinical agencies used by the college for experiential learning prior to enrolling in the program.

To graduate from the program, a student must have a “C” or above in all EMS courses.

Program Learning Outcomes: Graduates of the program will have the knowledge and skills to practice as an Emergency Medical Technician in a variety of health service facilities. A graduate of the program will have demonstrated mastery of generic and specific basic life support skills prior to graduation. Skill attainment is assured through regular, valid and reliable comprehensive assessment.

Admission Requirements: Students must meet the following requirements for admission to the EMT – Basic Career Studies Certificate Program. Interested students should contact the EMS Program Director for academic advising.

1. Be accepted as a student to the college.
2. Graduation from high school or satisfactory completion of the GED.
3. Completion of PHCC Admission Placement tests unless appropriate college level English or math courses have been successfully completed.
4. Students holding current Virginia certification as either an Emergency Medical Technician or EMT-Enhanced may be considered for advanced placement after all other admission requirements are met.

The typical physical demands of an emergency medical technician include the following: full range of motion including handling and lifting patients and/or equipment, manual and finger dexterity and eye-hand coordination. The job generally requires standing, walking for extensive periods of time, and working in all type of environments. The emergency medical technician should be able to lift and carry items weighing up to 50 pounds. The job settings may have stressful conditions and/or irregular hours. There is a potential for exposure to communicable diseases.

Please note that any prospective EMS student with a criminal conviction needs to speak with the EMS Program Director prior to enrollment at PHCC. Certain convictions will prevent the person from being certified as an Emergency Medical Services Provider in Virginia. Students must produce a satisfactory criminal background check to the standards of all clinical agencies used by the college for experiential learning prior to enrolling in the program.

To graduate from the program, a student must have a “C” or above in all EMS courses.

Program Learning Outcomes: Graduates of the program will have the knowledge and skills to practice as an Emergency Medical Technician in a variety of health service facilities. A graduate of the program will have demonstrated mastery of generic and specific basic life support skills prior to graduation. Skill attainment is assured through regular, valid and reliable comprehensive assessment.

Admission Requirements: Students must meet the following requirements for admission to the EMT – Basic Career Studies Certificate Program. Interested students should contact the EMS Program Director for academic advising.

1. Be accepted as a student to the college.
2. Graduation from high school or satisfactory completion of the GED.
3. Completion of PHCC Admission Placement tests unless appropriate college level English or math courses have been successfully completed.
4. Students holding current Virginia certification as either an Emergency Medical Technician or EMT-Enhanced may be considered for advanced placement after all other admission requirements are met.

The typical physical demands of an emergency medical technician include the following: full range of motion including handling and lifting patients and/or equipment, manual and finger dexterity and eye-hand coordination. The job generally requires standing, walking for extensive periods of time, and working in all type of environments. The emergency medical technician should be able to lift and carry items weighing up to 50 pounds. The job settings may have stressful conditions and/or irregular hours. There is a potential for exposure to communicable diseases.

Please note that any prospective EMS student with a criminal conviction needs to speak with the EMS Program Director prior to enrollment at PHCC. Certain convictions will prevent the person from being certified as an Emergency Medical Services Provider in Virginia. Students must produce a satisfactory criminal background check to the standards of all clinical agencies used by the college for experiential learning prior to enrolling in the program.

To graduate from the program, a student must have a “C” or above in all EMS courses.
Emergency Medical Technician-Intermediate

Purpose: This program is designed to provide knowledge and skills to prepare the student to qualify as practitioners of emergency medical services in a variety of health service facilities. Employment opportunities for the EMT-Intermediate include pre-hospital EMS agencies, municipal fire departments, emergency departments in hospitals, nursing homes, physician’s offices, clinics, industry, and home health care agencies. After successful completion of the program students will be eligible to take the National Registry of Emergency Medical Technicians EMT-Intermediate certification examination.

Program Learning Outcomes: Graduates of the program will have the knowledge and skills to practice as an EMT-Intermediate in a variety of health service facilities. A graduate of the program will have demonstrated mastery of generic and specific basic and advanced life support skills prior to graduation. Skill attainment is assured through regular, valid and reliable comprehensive assessment.

Admission Requirements: The applicant must meet the following requirements for admission to the EMS Education program. Interested students should contact the EMS Program Director for academic advising.

1. Be accepted as a student to the college.
2. Graduation from high school or satisfactory completion of the GED. Verification of high school graduation or GED is required by Virginia OEMS for this level of certification. Submission of official transcripts or GED scores is mandatory for all applicants.
3. Completion of PHCC Admission Placement tests unless appropriate college level English or math courses have been successfully completed. If any developmental courses in English or math are needed as indicated by student’s scores, these courses must be successfully completed before the student can enroll in EMS 151 – Introduction to Advanced Life Support. Failure to successfully complete pre-requisites for enrollment in EMS 151 will delay program progression in the EMS curriculum by one academic year.
4. A cumulative college grade point average of 2.0 or better in all related and general education requirements completed before admission into the EMS Education program is desired and will be given higher priority for admission into the program.
5. Students currently enrolled at the college, in addition to applicants holding current Virginia certification as either an Emergency Medical Technician or EMT-Enhanced, will be given priority for admission into the program and may be considered for advanced placement after all other admission requirements are met.
6. Submit an EMS Program Application form along with required paperwork, i.e. high school transcripts, college transcripts, current EMS certification, etc. during the specified EMS Education program application period.

The typical physical demands of an EMT-Intermediate include the following: full range of motion including handling and lifting patients and/or equipment, manual and finger dexterity and eye-hand coordination. The job generally requires standing, walking for extensive periods of time, and working in all type of environments. The EMT-Intermediate should be able to lift and carry items weighing up to 50 pounds. The job settings may have stressful conditions and/or irregular hours. There is a potential for exposure to communicable diseases. After admission to the EMS Education program, the prospective student is provided with an EMS Physical Examination form that must be completed by a physician prior to enrolling in the clinical or field internship classes.

Upon admission, all students are required to undergo mandatory drug screening. Students must have a negative drug screen in order to begin the clinical or field internship classes.

Please note that any prospective EMS student with a criminal conviction needs to speak with the EMS Program Director prior to enrollment at PHCC. Certain convictions will prevent the person from being certified as an Emergency Medical Services Provider in Virginia. Students must produce a satisfactory criminal background check to the standards of all clinical agencies used by the college for experiential learning prior to enrolling in the EMS program.

To remain in the program, a student must have a “C” or above in all EMS courses.

EMS 151 Introduction to Advanced Life Support (4)
EMS 153 Basic ECG Recognition (2)
EMS 155 ALS Medical Care (4)
EMS 157 ALS Trauma Care (3)
EMS 159 ALS Special Populations (2)
EMS 170 ALS Internship I (2)
EMS 172 ALS Clinical Internship II (3)
EMS 173 ALS Field Internship II (1)
SDV 108 College Survival Skills (1)

Students must complete the above 22 credits to be awarded the Career Studies Certificate in EMT-Basic.

Emergency Medical Technician-Paramedic

Purpose: This program is designed to provide knowledge and skills to prepare the student to qualify as practitioners of emergency medical services in a variety of health service
facilities. Employment opportunities for the paramedic include pre-hospital EMS agencies, municipal fire departments, emergency departments in hospitals, nursing homes, physician’s offices, clinics, industry, and home health care agencies. After successful completion of the program students will be eligible to take the National Registry of Emergency Medical Technicians Paramedic certification examination.

Program Learning Outcomes: Graduates of the program will have the knowledge and skills to practice as a Paramedic in a variety of health service facilities. A graduate of the program will have demonstrated mastery of generic and specific basic and advanced life support paramedic skills prior to graduation. Skill attainment is assured through regular, valid and reliable comprehensive assessment.

Admission Requirements: The applicant must meet the following requirements for admission to the EMS Education program. Interested students should contact the EMS Program Director for academic advising.

1. Be accepted as a student to the college.

2. Graduation from high school or satisfactory completion of the GED. Verification of high school graduation or GED is required by Virginia OEMS for this level of certification. Submission of official transcripts or GED scores is mandatory for all applicants.

3. Completion of PHCC Admission Placement tests unless appropriate college level English or math courses have been successfully completed. If any developmental courses in English or math are needed as indicated by student’s scores, these courses must be successfully completed before the student can enroll in EMS 151 – Introduction to Advanced Life Support. Failure to successfully complete pre-requisites for enrollment in EMS 151 will delay program progression in the EMS curriculum by one academic year.

4. A cumulative college grade point average of 2.0 or better in all related and general education requirements completed before admission into the EMS Education program is desired and will be given higher priority for admission into the program. Students must be currently enrolled at the college and have completed requirements for graduation from the EMT Intermediate Career Studies Certificate Program or must possess either current Virginia or National Registry EMT-Intermediate certification to be accepted into the program.

5. Students must be currently enrolled at the college and have completed requirements for graduation from the EMT Intermediate Career Studies Certificate Program or must possess either current Virginia or National Registry EMT-Intermediate certification to be accepted into the program.

6. Submit an EMS Program Application form along with required paperwork, i.e. high school transcripts, college transcripts, current EMS certification, etc. during the specified EMS Education program application period.

The typical physical demands of a paramedic include the following: full range of motion including handling and lifting patients and/or equipment, manual and finger dexterity and eye-hand coordination. The job generally requires standing, walking for extensive periods of time, and working in all type of environments. The paramedic should be able to lift and carry items weighing up to 50 pounds. The job settings may have stressful conditions and/or irregular hours. There is a potential for exposure to communicable diseases. After admission to the EMS Education program, the prospective student is provided with an EMS Physical Examination form that must be completed by a physician prior to enrolling in the clinical or field internship classes.

Upon admission, all students are required to undergo mandatory drug screening. Students must have a negative drug screen in order to begin the clinical or field internship classes.

Please note that any prospective EMS student with a criminal conviction needs to speak with the EMS Program Director prior to enrollment at PHCC. Certain convictions will prevent the person from being certified as an Emergency Medical Services Provider in Virginia. Students must produce a satisfactory criminal background check to the standards of all clinical agencies used by the college for experiential learning prior to enrolling in the EMS program.

To remain in the program, a student must have a “C” or above in all courses.

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
</tr>
</thead>
<tbody>
<tr>
<td>EMS 201</td>
<td>Professional Development (3)</td>
</tr>
<tr>
<td>EMS 205</td>
<td>Advanced Pathophysiology (4)</td>
</tr>
<tr>
<td>EMS 207</td>
<td>Advanced Patient Assessment (3)</td>
</tr>
<tr>
<td>EMS 209</td>
<td>Advanced Pharmacology (4)</td>
</tr>
<tr>
<td>EMS 211</td>
<td>Operations (2)</td>
</tr>
<tr>
<td>EMS 242</td>
<td>ALS Clinical Internship III (1)</td>
</tr>
<tr>
<td>EMS 243</td>
<td>ALS Field Internship III (1)</td>
</tr>
<tr>
<td>EMS 244</td>
<td>ALS Clinical Internship IV (1)</td>
</tr>
<tr>
<td>EMS 245</td>
<td>ALS Field Internship IV (1)</td>
</tr>
<tr>
<td>NAS 150</td>
<td>**Human Biology (4)</td>
</tr>
<tr>
<td>SDV 108</td>
<td>College Survival Skills (1)</td>
</tr>
</tbody>
</table>

** Student may substitute BIO 231 – Human Anatomy & Physiology I or BIO 232 – Human Anatomy & Physiology II. Student must complete the above 25 credits to be awarded the Career Studies Certificate in EMT-Paramedic

E-Commerce Management

Purpose: This program is designed to provide skills related to electronic commerce, electronic marketing, and web page design to entrepreneurs and other business professionals.
Program Learning Outcomes: A student will be able to:
• Demonstrate proficiency in personal computer operations and applications.
• Demonstrate accepted ethical behaviors and interpersonal skills that reflect an understanding of diversity and teamwork.
• Demonstrate the ability to plan.
• Demonstrate knowledge of design and construction of web pages for effective business use.

BUS 116 Entrepreneurship (3)
BUS 280 Introduction to International Business (3)
ITD 110 Web Page Design I (3)
ITE 115 Intro. to Computer Applications & Concepts (3)
ITE 130 Introduction to Internet Services (3)
MKT 100 Principles of Marketing (3)
MKT 260 Customer Service Management (3)
MKT 281 Principles of Internet Marketing (3)
SDV 108 College Survival Skills (1)

Students must complete the above 25 credits to be awarded the Career Studies Certificate in E-Commerce Management.

Entrepreneurial Studies

Purpose: This program is designed to provide skills in establishing a successful small business.

Program Learning Outcomes: A student will be able to:
• Demonstrate knowledge in the development of a business plan.
• Describe the qualities needed for a successful entrepreneur.

BUS 165 Small Business Management (3)
BUS 116 Entrepreneurship (3)
SDV 108 College Survival Skills (1)
Approved Elective (3)

Students must complete the above 10 credits to be awarded the Career Studies Certificate in Entrepreneurial Studies.

Fire Science Technician

Purpose: Designed for persons who wish to become Career or Volunteer Fire Fighters. Courses will be leased to and develop student skills for meeting state and national certifications for Firefighter I and II. Students with deficiencies in Mathematics or English must complete developmental prerequisites (MTE 1-3 and ENF2)

Program Learning Outcomes: A student will be able to:
• Demonstrate skills for fire control and suppression.
• Demonstrate proficiency in regulations of various types of combustible materials

ENG 131 Technical Report Writing (3)
MTH 120 Introduction to Mathematics (3)
FST 100 Principles of Emergency Services (3)
FST 105 Fire Suppression Operations (3) *
FST 110 Fire Behavior and Combustion (3) **
FST 111 Hazardous Materials Response (3) ***
FST 190 Internship in Fire Science (2)
FST EEE Fire Science Elective (3)
FST EEE Fire Science Elective (3)
PED EEE Elective in Physical Education (3)

FST electives to be selected from FST or EMS
PED electives to be selected from PED or HLT

*Students holding a valid VA Fire Fighter I Certification will be evaluated for advanced standing credit for this class.
**Students holding a valid VA Fire Fighter II Certification will be evaluated for advanced standing credit for this class.
***Students holding a valid VA HazMat Technician Certification will be evaluated for advanced standing credit for this class.

Students must complete the above 29 credit hours to be awarded the Career Studies Certificate in Fire Science Technician. Internship experiences to be completed through cooperation and supervision of a regional fire department. Fire Science electives must be approved by departmental agreement.

Graphic Communications

Purpose: This program is designed to provide skills specifically related to the design and generation of computer graphics and page layout.

Program Learning Outcomes: A student will be able to:
• Demonstrate skills in the development of computer graphics.
• Demonstrate skills in the development of web pages.

ART 121 Drawing I (3)
ITD 110 Web Page Design I (3)
ITD 112 Designing Web Page Graphics (3)
ITD 220 Web Page Design II (3)
ITE 115 Intro. to Computer Applications & Concepts (3)
ITE 130 Introduction to Internet Services (3)
ITE 160 Intro. to Game Design & Development (3)
SDV 108 College Survival Skills (1)
Approved Fine Arts elective (3)

Students must complete the above 25 credits to be awarded the Career Studies Certificate in Graphic Communications.
Heating, Ventilation, Air Conditioning & Refrigeration

**Purpose:** This program is designed to provide the current practitioner with advanced skills needed for residential, commercial, and industrial HVAC servicing.

**Program Learning Outcomes:** Graduates will have fundamental skills for installation and repair of HVAC control systems. Graduates will demonstrate proficiency in electrical codes, OSHA criteria, system installation, system balancing, and system troubleshooting.

**Program Learning Outcomes:**

Air Conditioning and Refrigeration I (4)
Air Conditioning and Refrigeration II (4)
Air Conditioning and Controls (4)
Air Conditioning Systems I (3)
Air Conditioning Systems II (3)
Air Conditioning Systems III (3)
Heat Pumps (3)
Advanced Troubleshooting & Service (3)
Supervised Study in HVAC (2)
Geothermal Applications (4)
Basic Electricity (3)

Student must complete the above requirements for a total of 29 credits to receive the Career Studies Certificate in HVAC.

High-Demand Occupational Programs for Employment: Customer Service

**Purpose:** This program prepares graduates to fulfill entry level responsibilities in the customer service industry. Prerequisites: ENF 3 or above, and MTE 1-3.

**Program Learning Outcomes:** Upon completion, graduates will demonstrate the fundamental knowledge, skill and ability related to contact center operations, keyboarding and work ready skills necessary to work as potentially certified ServSafe Manager in the food service field.

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
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</thead>
<tbody>
<tr>
<td>AIR 117</td>
<td>Metal Layout I (3)</td>
</tr>
<tr>
<td>AIR 121</td>
<td>Air Conditioning and Refrigeration I (4)</td>
</tr>
<tr>
<td>AIR 134</td>
<td>Circuits and Controls (4)</td>
</tr>
<tr>
<td>AIR 154</td>
<td>Heating Systems I (3)</td>
</tr>
<tr>
<td>AIR 235</td>
<td>Heat Pumps (3)</td>
</tr>
<tr>
<td>AIR 238</td>
<td>Advanced Troubleshooting &amp; Service (3)</td>
</tr>
<tr>
<td>AIR 299</td>
<td>Supervised Study in HVAC (2)</td>
</tr>
<tr>
<td>ENE 230</td>
<td>Geothermal Applications (4)</td>
</tr>
<tr>
<td>ELE 115</td>
<td>Basic Electricity (3)</td>
</tr>
</tbody>
</table>

Student must complete the above 24 credits to be awarded the Career Studies Certificate in High-Demand Occupational programs for Employment: Customer Service.

High-Demand Occupational Programs for Employment: Food Service

**Purpose:** This program prepares graduates to fulfill entry level responsibilities in the food service industry. Prerequisites: ENF 3 or above, and MTE 1-3.

**Program Learning Outcomes:** Upon completion, graduates will demonstrate the fundamental knowledge, skill and ability related to food production, dining, serving, and work ready skills necessary to work as potentially certified ServSafe Manager in the food service field.

**Program Learning Outcomes:**

Business Protocol (3)
Workplace Ethics (1)
Principles of Culinary Arts I (3)
The Art of Garnishing (1)
Sanitation and Safety (3)
Coordinated Internship (1)
Certification Preparation (1)
Intro to Computer Applications & Concepts (3)
Customer Service (2)
Preparation for Employment (1)
College Survival Skills (1)

Student must complete the above 20 credits to be awarded the Career Studies Certificate in High-Demand Occupational Programs for Employment: Food Service.

**Horticulture**

**Purpose:** The purpose of this program is to provide broad based skills to be applied to the horticultural industry. Graduates will be prepared for a variety of employment opportunities such as: Landscaper, Landscape Contractor, nursery employee, and estate grounds maintenance. Applicants must meet placement requirements of ENG 03, ENG 05, and MTH 02.

**Program Learning Outcomes:**

Demonstrate knowledge of factors that affect plant growth
• Demonstrate understanding of practices that increase plant populations
• Demonstrate knowledge of plant identification

Students must complete the above 29 credit hours to be awarded the Career Studies Certificate in Horticulture.

Industrial Controls

**Purpose:** This program is designed to provide the knowledge and skills needed for installation, maintenance and repair of advanced technology production equipment.

**Program Learning Outcomes:** Graduates will have fundamental skills for installation and repair of electrical control systems. Graduates will demonstrate proficiency in programmable logic controllers and mechatronic process controls.

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
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</thead>
<tbody>
<tr>
<td>EGR 277</td>
<td>Digital Logic (3)</td>
</tr>
<tr>
<td>ELE 113-114</td>
<td>Electricity I-II (6)</td>
</tr>
<tr>
<td>ELE 133-134</td>
<td>Practical Electricity I-II (6)</td>
</tr>
<tr>
<td>ETR 141</td>
<td>Electronics I (3)</td>
</tr>
<tr>
<td>ETR 151</td>
<td>Electronic Circuits/Troubleshooting (2)</td>
</tr>
<tr>
<td>ETR 230</td>
<td>Mechatronic Process Control (3)</td>
</tr>
<tr>
<td>ELE 143</td>
<td>Programmable Controllers I (3)</td>
</tr>
<tr>
<td>ELE 144</td>
<td>Programmable Controllers II (3)</td>
</tr>
</tbody>
</table>

Students must complete each of the above requirements for a total of 29 credits to be awarded the Career Studies Certificate in Industrial Controls.

Industrial Maintenance Electronics

**Purpose:** This program is designed to provide skills and knowledge needed for maintenance and repair of modern production equipment.

**Program Learning Outcomes:** Graduates will have fundamental skills for installation and repair of electrical systems. Graduates will demonstrate proficiency in machine technology and mechanical systems maintenance.

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
</tr>
</thead>
<tbody>
<tr>
<td>ELE 113-114</td>
<td>Electricity I-II (6)</td>
</tr>
<tr>
<td>ELE 133</td>
<td>Practical Electricity I (3)</td>
</tr>
<tr>
<td>MEC 120</td>
<td>Principles of Machine Technology (3)</td>
</tr>
<tr>
<td>ETR 141</td>
<td>Electronics I (3)</td>
</tr>
<tr>
<td>MEC 155</td>
<td>Mechanisms (3)</td>
</tr>
</tbody>
</table>

Student must complete the above 18 credits to be awarded the Career Studies Certificate in Industrial Maintenance Electronics.

International Business

**Purpose:** This program is designed to provide the business professional and entrepreneur with knowledge of international business principles and customs related to business transactions.

**Program Learning Outcomes:** A student will be able to:
• Demonstrate knowledge of the global business concepts and differences among various countries related to business practices.
• Describe and use general business knowledge and skills, including managerial and supervisory concepts.
• Demonstrate accepted ethical behaviors and interpersonal skills that reflect an understanding of diversity and teamwork.

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
</tr>
</thead>
<tbody>
<tr>
<td>BUS 116</td>
<td>Entrepreneurship (3)</td>
</tr>
<tr>
<td>BUS 280</td>
<td>Introduction to International Business (3)</td>
</tr>
<tr>
<td>GEO 210</td>
<td>People &amp; the Land: Intro. to Cult. Geography (3)</td>
</tr>
<tr>
<td>ITE 115</td>
<td>Intro. to Computer Applications &amp; Concepts (3)</td>
</tr>
<tr>
<td>ITE 130</td>
<td>Introduction to Internet Services (3)</td>
</tr>
<tr>
<td>MKT 100</td>
<td>Principles of Marketing (3)</td>
</tr>
<tr>
<td>MKT 260</td>
<td>Customer Service Management (3)</td>
</tr>
<tr>
<td>MKT 275</td>
<td>International Marketing (3)</td>
</tr>
<tr>
<td>SDV 108</td>
<td>College Survival Skills (1)</td>
</tr>
<tr>
<td>ELE</td>
<td>Foreign Language Elective (3)</td>
</tr>
</tbody>
</table>

Foreign Language Elective (3)

Student must complete the above 28 credits to be awarded the Career Studies Certificate in International Business.

Internet Webmaster

**Purpose:** This program is designed to provide skills and knowledge for employment as a webmaster and certification from CIW as a Certified Internet Webmaster Associate.

**Program Learning Outcomes:** A student will be able to:
• Demonstrate basic knowledge of Internet fundamentals and technologies.
• Demonstrate skills in basic network infrastructure.
• Demonstrate web authoring fundamentals using XHTML.

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
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</thead>
<tbody>
<tr>
<td>CSC 110</td>
<td>Introduction to Computing (3)</td>
</tr>
<tr>
<td>ITE 115</td>
<td>Intro. to Computer Applications &amp; Concepts (3)</td>
</tr>
<tr>
<td>ITE 130</td>
<td>Introduction to Internet Services (3)</td>
</tr>
<tr>
<td>ITE 199</td>
<td>Supervised Study-Certification Exam Preparation (3)</td>
</tr>
<tr>
<td>ITD 110</td>
<td>Web Page Design I (3)</td>
</tr>
<tr>
<td>ITN 101</td>
<td>Introduction to Network Concepts (3)</td>
</tr>
<tr>
<td>SDV 108</td>
<td>College Survival Skills (1)</td>
</tr>
</tbody>
</table>

Student must complete the above 19 credits to be awarded the Career Studies Certificate in Internet Webmaster.

Management Assistant

**Purpose:** This program is designed to provide an individual with basic foundation management skills in the area of general management principles, human resources, communications, psychology, and accounting.
Program Learning Outcomes: A student will be able to:
• Describe and use general business knowledge and skills, including managerial and supervisory concepts.
• Demonstrate ability to reason critically and problem-solve.
• Demonstrate accepted ethical behaviors and interpersonal skills that reflect an understanding of diversity and teamwork.

ACC 211 Principles of Accounting I (3)
BUS 200 Principles of Management (3)
BUS 205 Human Resource Management (3)
CST 110 Introduction to Communication (3)
ENG 111 College Composition I (3)
ENG 112 College Composition II (3)
ITE 115 Intro. to Computer Applications & Concepts (3)
MKT 260 Customer Service Management (3)
MTH 120 Introduction to Mathematics (3)
SDV 108 College Survival Skills (1)

Student must complete the above 28 credits to be awarded the Career Studies Certificate in Medical Transcription.

Manufacturing Technician

BUS 195 Business Ethics (1)
ELE 195 Applications in Motor Control (3)
ETR 115 AC/DC Circuits (3)
[or ELE 195 Applications in Basic Electricity(3)]
[or ELE 195 Mechatronics (3)]
ITE 102 Computers and Information Systems (2)
IND 195 KeyTrain Remediation (1)
IND 195 Systematic Problem Solving (1)
IND 181 World Class Manufacturing (3)
IND 195 Interpreting Engineering Drawings/Hand Tolls/Metrology (2)
ITE 195 TekXam Certification (2)
MEC 195 Applications in Fluid Power (2)
MEC 195 Applications in Mechanical Systems (2)
SAF 195 Industrial Safety (1)
SDV 106 Preparation for Employment (1)

Student must complete the above 24 credits to be awarded the Career Studies Certificate in Manufacturing Technician.

Medical Transcription

Purpose: This program is designed to provide skills related to keyboarding, medical office procedures and communications, and the transcription of medical information.

Program Learning Outcomes: A student will be able to:
• Apply medical vocabulary in producing documents used in the health field.
• Document skills in using a keyboard and word processing software for speed and accuracy.

AST 101 Keyboarding I (3)
AST 102 Keyboarding II (3)

AST 141 Word Processing (3)
AST 154 Introduction to Voice Recognition Software (1)
AST 245 Medical Machine Transcription (2)
AST 271 Medical Office Procedures I (3)
ENG 111 College Composition I (3)
HLT 143 Medical Terminology (3)
ITE 115 Intro. to Computer Applications & Concepts (3)
HIM 143 Managing Electronic Billing in a Medical Practice (2)
SDV 108 College Survival Skills (1)

Student must complete the above 27 credits to be awarded the Career Studies Certificate in Medical Transcription.

Microcomputer Literacy

Purpose: This program is designed to provide basic microcomputer literacy skills (terminology, hardware, Internet, email) and knowledge of a word processing, spreadsheet, database, and presentation software package leading to IC3 certification from Certiport, Inc.

Program Learning Outcomes: A student will be able to:
• Document skills related to fundamentals of computer hardware.
• Document skills related to the fundamentals of computer software, including operating systems, word processing, spreadsheet, presentation, and electronic mail software.
• Document skills related to use of the Internet and networks.

CSC 110 Introduction to Computing (3)
ITE 115 Intro. to Computer Applications & Concepts (3)
ITE 130 Introduction to Internet Services (3)
ITE 150 Desktop Database Software (3)
ITE 199 Supervised Study-Certification Exam Preparation (3)
SDV 108 College Survival Skills (1)

Student must complete the above 16 credits to be awarded the Career Studies Certificate in Microcomputer Literacy.

Motorsports Engine Technology

Purpose: To provide advanced skills and knowledge in the production of high performance engines to meet workforce needs of race teams and engine manufacturers. Students must score 80 points on the PHCC Fundamental Automotive Technology Skills assessment to enter this program. Students determined to have deficiencies in Fundamental Automotive Skills will complete additional course work. Students must maintain a 2.5 Curriculum Grade Point Average to stay in the program. Tools for program are required.

Program Learning Outcomes: A student will be able to:
• Demonstrate knowledge about components, systems, configuration, classification, terminology, and principles of
functioning of high performance engines used in race competitions.

- Demonstrate the ability to assemble, test, and apply corrective methods to resolve technical issues related to maximum power performance of race engines using codes and specifications.

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
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</thead>
<tbody>
<tr>
<td>MTS 126</td>
<td>Motorsports Technology II (3)</td>
</tr>
<tr>
<td>MTS 140</td>
<td>Stock Car Engines I (3)</td>
</tr>
<tr>
<td>MTS 150</td>
<td>Engine Machining Processes I (4)</td>
</tr>
<tr>
<td>MTS 195</td>
<td>High Performance Engine Induction Systems (3)</td>
</tr>
<tr>
<td>MTS 240</td>
<td>Stock Car Engines II (3)</td>
</tr>
<tr>
<td>MTS 250</td>
<td>Engine Machining Processes II (3)</td>
</tr>
<tr>
<td>MTS 290</td>
<td>Coordinated Internship (2)</td>
</tr>
<tr>
<td>MTS 295</td>
<td>Introduction to Pit Stop (2)</td>
</tr>
<tr>
<td>MTS 298</td>
<td>DYNO Engine Performance (3)</td>
</tr>
<tr>
<td>SDV 108</td>
<td>College Survival Skills (1)</td>
</tr>
</tbody>
</table>

**Motorsports Fabrication and Set Up Technology**

**Purpose:** To provide advanced skills and knowledge in the production of round track race cars to meet workforce needs of race teams. Students must maintain a 2.5 Curriculum Grade Point Average to stay in the program.

**Program Learning Outcomes:** A student will be able to:

- Demonstrate knowledge of aerodynamics, stability, and control of race vehicles, and the ability to design, model, and fabricate structures and bodies of race vehicles using blueprints and safety specifications.
- Demonstrate knowledge of engineering materials, manufacturing processes, and testing techniques, and skill to conceive fabricate and/or assemble suspension, traction, steering and braking systems of race vehicles.

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
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</thead>
<tbody>
<tr>
<td>MTS 130</td>
<td>Motorsports Structural Technology (3)</td>
</tr>
<tr>
<td>MTS 131</td>
<td>Motorsports Structural Technology II (3)</td>
</tr>
<tr>
<td>MTS 132</td>
<td>Motorsports Structural Technology III (3)</td>
</tr>
<tr>
<td>MTS 135</td>
<td>Sheet Metal Fabrication (3)</td>
</tr>
<tr>
<td>MTS 210</td>
<td>Race Car Setup I (3)</td>
</tr>
<tr>
<td>MTS 211</td>
<td>Race Car Setup II (3)</td>
</tr>
<tr>
<td>MTS 290</td>
<td>Coordinated Internship (2)</td>
</tr>
<tr>
<td>MTS 295</td>
<td>Introduction to Pit Stop (2)</td>
</tr>
<tr>
<td>MTS 295</td>
<td>Machine Welding (3)</td>
</tr>
<tr>
<td>MTS 298</td>
<td>Race Car Setup III (3)</td>
</tr>
<tr>
<td>SDV 108</td>
<td>College Survival Skills (1)</td>
</tr>
</tbody>
</table>

Students must complete the above 29 credit hours to be awarded the Career Studies Certificate in Motorsports Fabrication and Set Up Technology.

**Motorsports Management**

**Purpose:** This program is designed to give specialized skills related to the management of a motorsports-related business. Students must maintain a 2.5 Curriculum Grade Point Average to stay in the program.

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
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<tbody>
<tr>
<td>BUS 200</td>
<td>Principles of Management (3)</td>
</tr>
<tr>
<td>ITE 115</td>
<td>Intro. to Computer Applications &amp; Concepts (3)</td>
</tr>
<tr>
<td>MKT 100</td>
<td>Principles of Marketing (3)</td>
</tr>
<tr>
<td>MKT 260</td>
<td>Customer Service Management (3)</td>
</tr>
<tr>
<td>MTS 100</td>
<td>Introduction to Motorsports Management (3)</td>
</tr>
<tr>
<td>MTS 110</td>
<td>Introduction to Motorsports Marketing (3)</td>
</tr>
<tr>
<td>MTS 125</td>
<td>Motorsports Technology I (3)</td>
</tr>
<tr>
<td>MTS 190</td>
<td>Coordinated Internship (3)</td>
</tr>
<tr>
<td>MTS 298</td>
<td>Projects in Motorsports Marketing (3)</td>
</tr>
<tr>
<td>SDV 108</td>
<td>College Survival Skills (1)</td>
</tr>
</tbody>
</table>

Students must complete the above 28 credits to be awarded the Career Studies Certificate in Motorsports Management.

**Nurse Aide Training**

**Purpose:** This program is designed to provide skills and knowledge to prepare the student to apply to take the certification test as a certified Nurse Aide in Virginia. Developmental pre-requisites are: ENF 1, and ENF 1 and ENF 2 for required HLT class. Students must pass a criminal background check and drug screen to be eligible for clinical experiences.

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
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</thead>
<tbody>
<tr>
<td>HCT 101</td>
<td>Health Care Technician I (4)</td>
</tr>
<tr>
<td>HCT 102</td>
<td>Health Care Technician II (4)</td>
</tr>
<tr>
<td>HCT 110</td>
<td>Therapeutic Communication in the Health Care Setting (3)</td>
</tr>
<tr>
<td>HLT 100</td>
<td>First Aid and Cardiopulmonary Resuscitation (3)</td>
</tr>
<tr>
<td>ITE 95</td>
<td>Introduction to Microcomputers (2)</td>
</tr>
<tr>
<td>SDV 108</td>
<td>College Survival Skills (1)</td>
</tr>
</tbody>
</table>

**Financial Requirements:** In addition to the usual college tuition and fees, this program requires additional expenses.

**Approximate costs include:**

- $30/$50 – Uniform
- $30+ - Shoes
- $10+ - Watch
- $100 (approximate) – Physical Examination& TB skin test
- $40 – Textbook/Workbook
- $48 – Criminal Background Check (minimum cost)
- $40/$50 – Drug Screen
- $95 – Certification Exam
- Transportation to clinical agencies as required

Students must complete each of the above requirements for a total of 17 credits to be awarded the Career Studies Certificate in Nurse Aide Training.
Office Assisting

**Purpose:** This program is designed to provide skills in preparation for a job as an office assistant requiring tasks related to keyboarding, records management, office administration, writing, and computer use.

**Program Learning Outcomes:** A student will be able to:
- Demonstrate proficiency in personal computer operations and applications.
- Demonstrate various methods of filing in storing and retrieving documents both manually and electronically.
- Produce a variety of business documents using correct grammar, punctuation and spelling in a form acceptable in today's business environment.

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
</tr>
</thead>
<tbody>
<tr>
<td>AST 101</td>
<td>Keyboarding I (3)</td>
</tr>
<tr>
<td>AST 102</td>
<td>Keyboarding II (3)</td>
</tr>
<tr>
<td>AST 154</td>
<td>Introduction to Voice Recognition Software (1)</td>
</tr>
<tr>
<td>AST 141</td>
<td>Word Processing (3)</td>
</tr>
<tr>
<td>AST 234</td>
<td>Records and Database Management (3)</td>
</tr>
<tr>
<td>ITE 150</td>
<td>Desktop Database Software (3)</td>
</tr>
<tr>
<td>ENG 111</td>
<td>College Composition I (3)</td>
</tr>
<tr>
<td>ENG 112</td>
<td>College Composition II (3)</td>
</tr>
<tr>
<td>ITE 115</td>
<td>Intro. to Computer Applications &amp; Concepts (3)</td>
</tr>
<tr>
<td>SDV 108</td>
<td>College Survival Skills (1)</td>
</tr>
</tbody>
</table>

Approved Elective (3)

Student must complete the above 29 credit hours to be awarded the Career Studies Certificate in Office Assisting.

Pharmacy Technician

**Purpose:** This program is designed to prepare personnel to perform skilled duties and to assist the pharmacist-in-charge. Some examples of job duties include: computer information entry, preparation of prescription labels, assisting the pharmacists in filling prescriptions, ordering pharmaceuticals and supplies, and customer assistance.

Prior to registering for HLT 264, students are required to undergo mandatory drug screening and criminal background checks. Students must have a negative drug screen and criminal background check in order to begin pharmacy tech clinical experiences. The cost of drug screening and criminal background checks are the responsibility of the student. Drug screening costs a minimum of $38 and criminal background screening has a minimum cost of $48.

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
</tr>
</thead>
<tbody>
<tr>
<td>ITE 95</td>
<td>Introduction to Microcomputers (2)</td>
</tr>
<tr>
<td>HCT 110</td>
<td>Therapeutic Communication in Health Care Setting (3)</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
</tr>
</thead>
<tbody>
<tr>
<td>HLT 143</td>
<td>Medical Terminology (3)</td>
</tr>
<tr>
<td>HLT 261</td>
<td>Basic Pharmacy I (3)</td>
</tr>
<tr>
<td>HLT 262</td>
<td>Basic Pharmacy II (3)</td>
</tr>
<tr>
<td>HLT 263</td>
<td>Basic Pharmacy I Lab (1)</td>
</tr>
<tr>
<td>HLT 264</td>
<td>Basic Pharmacy II Lab (1)</td>
</tr>
<tr>
<td>MTH 126</td>
<td>Math for Allied Health (3)</td>
</tr>
<tr>
<td>NUR 135</td>
<td>Drug Dosage Calculations (2)</td>
</tr>
<tr>
<td>NUR 230</td>
<td>Pharmacology (3)</td>
</tr>
<tr>
<td>SDV 108</td>
<td>College Survival Skills (1)</td>
</tr>
</tbody>
</table>

Students must complete each of the above classes for a total of 20 credits to be awarded the Career Studies Certificate in Residential/Commercial/Industrial Electrician.

Residential/Commercial/Industrial Electrician

**Purpose:** This program is designed to provide skills for entry-level positions in the practice of electrical servicing.

**Program Learning Outcomes:** Graduates will have fundamental skills for entry level electrical installation and repair. Graduates will demonstrate proficiency in electrical codes, OSHA safety criteria, and wiring circuits and mechatronic system troubleshooting.

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
</tr>
</thead>
<tbody>
<tr>
<td>ELE 110</td>
<td>Home Electric Power: Residential (3)</td>
</tr>
<tr>
<td>ELE 113-114</td>
<td>Electricity I-II (6)</td>
</tr>
<tr>
<td>ELE 133</td>
<td>Practical Electricity I: Commercial (3)</td>
</tr>
<tr>
<td>ELE 134</td>
<td>Practical Electricity II: Industrial (3)</td>
</tr>
<tr>
<td>ELE 138</td>
<td>National Electrical Code (2)</td>
</tr>
<tr>
<td>ETR 140</td>
<td>Introduction to Mechantronics (3)</td>
</tr>
</tbody>
</table>

Student must complete each of the above classes for a total of 20 credits to be awarded the Career Studies Certificate in Residential/Commercial/Industrial Electrician.

School-Age Child Care

**Purpose:** This program is designed to meet the training needs of students who want to work with school-age children, age 5-12, in before- and after-school programs. The curriculum also offers an organized course of study for those who wish to increase their knowledge and understanding of child development.

**Program Learning Outcome:** Graduates will have fundamental skills for entry level classroom assistance. Graduates will demonstrate proficiency in education methods, instructional technology, presentations, and lesson planning.

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
</tr>
</thead>
<tbody>
<tr>
<td>CHD 125</td>
<td>Creative Activities (3)</td>
</tr>
<tr>
<td>CHD 220</td>
<td>Introduction to School-Age Child Care (3)</td>
</tr>
<tr>
<td>CHD 225</td>
<td>Curriculum Development for School-Age Child Care (3)</td>
</tr>
<tr>
<td>CHD 230</td>
<td>Behavior Management for School-Age Child Care (3)</td>
</tr>
</tbody>
</table>
Small Business Management

**Purpose:** This program is designed to provide an entrepreneur with skills in establishing and maintaining a successful small business.

**Program Learning Outcomes:** A student will be able to:
- Explain the importance of entrepreneurial behavior and describe the characteristics of successful entrepreneurs.
- Demonstrate the ability to plan and development of a comprehensive business plan.

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>ACC 134</td>
<td>Small Business Taxes (3)</td>
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</tr>
<tr>
<td>BUS 116</td>
<td>Entrepreneurship (3)</td>
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</tr>
<tr>
<td>BUS 160</td>
<td>Legal Aspects for Small Business Operations (1)</td>
<td></td>
</tr>
<tr>
<td>BUS 165</td>
<td>Small Business Management (3)</td>
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<tr>
<td>ENG 111</td>
<td>College Composition I (3)</td>
<td></td>
</tr>
<tr>
<td>FIN 260</td>
<td>Financial Management for Small Business (2)</td>
<td></td>
</tr>
<tr>
<td>ITE 115</td>
<td>Intro. to Computer Applications &amp; Concepts (3)</td>
<td></td>
</tr>
<tr>
<td>ITE 140</td>
<td>Spreadsheet Software (3)</td>
<td></td>
</tr>
<tr>
<td>MKT 160</td>
<td>Marketing for Small Business (3)</td>
<td></td>
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<tr>
<td>MKT 260</td>
<td>Customer Service Management (3)</td>
<td></td>
</tr>
<tr>
<td>SDV 108</td>
<td>College Survival Skills (1)</td>
<td></td>
</tr>
</tbody>
</table>

Student must complete the above 28 credit hours to be awarded the Career Studies Certificate in Child Care.

Supervision

**Purpose:** This program is designed to provide the business professional with skills related to the effective supervision of personnel.

**Program Learning Outcomes:** A student will be able to:
- Describe and use general business knowledge and skills, including managerial and supervisory concepts.
- Demonstrate accepted ethical behaviors and interpersonal skills that reflect an understanding of diversity and teamwork.
- Describe contemporary approaches to management and methods to create a positive work environment.

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>BUS 111</td>
<td>Principles of Supervision I (3)</td>
<td></td>
</tr>
<tr>
<td>BUS 112</td>
<td>Principles of Supervision II (3)</td>
<td></td>
</tr>
<tr>
<td>BUS 200</td>
<td>Principles of Management (3)</td>
<td></td>
</tr>
<tr>
<td>BUS 205</td>
<td>Human Resource Management (3)</td>
<td></td>
</tr>
<tr>
<td>CST 110</td>
<td>Introduction to Communication (3)</td>
<td></td>
</tr>
<tr>
<td>ENG 111</td>
<td>College Composition I (3)</td>
<td></td>
</tr>
<tr>
<td>ITE 115</td>
<td>Intro. to Computer Applications &amp; Concepts (3)</td>
<td></td>
</tr>
<tr>
<td>ITE 130</td>
<td>Introduction to Internet Services (3)</td>
<td></td>
</tr>
<tr>
<td>MKT 260</td>
<td>Customer Service Management (3)</td>
<td></td>
</tr>
<tr>
<td>SDV 108</td>
<td>College Survival Skills (1)</td>
<td></td>
</tr>
</tbody>
</table>

Student must complete the above 28 credit hours to be awarded the Career Studies Certificate in Supervision.

Theatre Arts

**Purpose:** This program is designed to provide skills specifically related to acting and stage design.

**Program Learning Outcomes:** A student will be able to:
- Demonstrate competency in at least one aspect of theatre acting.
- Demonstrate competency in at least one area related to theatre production.

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>CST 110</td>
<td>Introduction to Communication (3)</td>
<td></td>
</tr>
<tr>
<td>CST 131</td>
<td>Acting I (3)</td>
<td></td>
</tr>
<tr>
<td>CST 132</td>
<td>Acting II (3)</td>
<td></td>
</tr>
<tr>
<td>CST 136</td>
<td>Theatre Workshop (6)</td>
<td></td>
</tr>
<tr>
<td>CST 231</td>
<td>History of the Theatre I (3)</td>
<td></td>
</tr>
<tr>
<td>[or CST 130]</td>
<td>Introduction to the Theatre (3)</td>
<td></td>
</tr>
<tr>
<td>SDV 108</td>
<td>College Survival Skills (1)</td>
<td></td>
</tr>
</tbody>
</table>

Student must complete the above 19 credits to be awarded the Career Studies Certificate in Theater Arts.

Viticulture

**Purpose:** The purpose of this program is to provide skills and experience that may be applied to a rapidly expanding grape industry in the eastern portion of the country. The grape industry is centered in the western portion of the U.S. and their conditions vary greatly from those in the east. Students will gain insight into conditions and problems that face eastern growers and prepare themselves for jobs as vineyard workers, vineyard managers, winery personnel, and retail sales specialist. Applicants must meet placement requirements of ENG 03, ENG 05, and MTH 02.

**Program Learning Outcomes:** A student will be able to:
- Demonstrate understanding of vineyard establishment
- Demonstrate knowledge of grape insects and grape diseases
- Demonstrate knowledge of grape vine management for grape quality

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>VEN 100</td>
<td>Introduction to Viticulture (3)</td>
<td></td>
</tr>
<tr>
<td>VEN 110</td>
<td>Vineyard Establishment (3)</td>
<td></td>
</tr>
<tr>
<td>VEN 120</td>
<td>Viticulture I (3)</td>
<td></td>
</tr>
<tr>
<td>VEN 121</td>
<td>Viticulture II (3)</td>
<td></td>
</tr>
<tr>
<td>VEN 125</td>
<td>Vineyard Management (3)</td>
<td></td>
</tr>
<tr>
<td>VEN 130</td>
<td>Introduction to Winemaking (3)</td>
<td></td>
</tr>
<tr>
<td>VEN 135</td>
<td>Wine Production (3)</td>
<td></td>
</tr>
</tbody>
</table>
VEN 140  Grape Pest and Disease Management (3)
VEN 190  Coordinated Internship (3)

Students must complete the above 27 credits to be awarded the Career Studies Certificate in Viticulture.

Welding

**Purpose:** This program is designed to provide the layman and practitioner fundamental skills and knowledge in metal trades.

**Program Learning Outcomes:** Graduates will have fundamental skills for entry level weld installations. Graduates will demonstrate proficiency in oxyacetylene processes, arc and MIG welding procedures.

WEL 117  Oxyacetylene Welding and Cutting (3)
WEL 123  ARC Welding (Basic) (4)
WEL 124  ARC Welding (Advanced) (4)
WEL 130  Inert Gas Welding (3)
WEL 145  Welding Metallurgy (3)
WEL 150  Welding Drawing and Interpretation (2)

Student must complete each of the 19 credits to be awarded the Career Studies Certificate in Welding.

Wellness

**Purpose:** This program is designed to provide skills related to physical fitness and wellness and an understanding of human development.

**Program Learning Outcomes:** A student will be able to:
- Develop a strategy for lifetime fitness.
- Describe consequences of daily choices related to the development of mind and body.

HLT 100  First Aid and Cardiopulmonary Resuscitation (3)
HLT 116  Personal Wellness (3)
HLT 121  Introduction to Drug Use and Abuse (3)
HLT 200  Human Sexuality (3)
HLT 204  Women’s Health (3)
HLT 230  Principles of Nutrition & Human Development (3)
PED 101  Fundamentals of Physical Activity I (1)
PED 102  Fundamentals of Physical Activity II (1)
PED 109  Yoga (1)
PSY 230  Developmental Psychology (3)
SDV 108  College Survival Skills (1)

Student must complete the above 25 credits to be awarded the Career Studies Certificate in Wellness.
## Developmental Prerequisites

Students may not enroll in the following programs until they have demonstrated proficiency on the placement examination or completed the appropriate development.

<table>
<thead>
<tr>
<th>Course #</th>
<th>Course Name</th>
<th>Developmental Requirement</th>
</tr>
</thead>
<tbody>
<tr>
<td>ACC --</td>
<td>All ACC course</td>
<td>A placement of ENF 3 or above, MTE 1-3</td>
</tr>
<tr>
<td>ART 100, 101-102, 201-202</td>
<td>Art Appreciation and History of Art I-II</td>
<td>A placement of ENF 3 or above</td>
</tr>
<tr>
<td></td>
<td>History of Art I-II</td>
<td>A placement of ENF 3 or above</td>
</tr>
<tr>
<td>AST --</td>
<td>All 3-digit AST courses</td>
<td>A placement of ENF 3 or above</td>
</tr>
<tr>
<td>AST 101</td>
<td>Keyboarding I</td>
<td>A placement of ENF 3 or above</td>
</tr>
<tr>
<td>BIO --</td>
<td>All BIO courses</td>
<td>A Placement of ENF 3 or above. MTE 1-5</td>
</tr>
<tr>
<td>BUS --</td>
<td>All BUS courses</td>
<td>A placement of ENF 3 or above</td>
</tr>
<tr>
<td>CHD --</td>
<td>All CHD courses</td>
<td>A placement of ENF 2 or above</td>
</tr>
<tr>
<td>CHM 101-102</td>
<td>General Chemistry I-II</td>
<td>MTE 1-9, A Placement of ENF 3 or above</td>
</tr>
<tr>
<td>CHM 110</td>
<td>Survey of Chemistry</td>
<td>MTE 1-3, A Placement of ENF 2 or above</td>
</tr>
<tr>
<td>CHM 111-112</td>
<td>College Chemistry I-II</td>
<td>MTE 1-9, A Placement of ENF 3 or above</td>
</tr>
<tr>
<td>CHM 241-242</td>
<td>Organic Chemistry I-II</td>
<td>MTE 1-9, A Placement of ENF 3 or above</td>
</tr>
<tr>
<td>CSC --</td>
<td>All CSC courses</td>
<td>A Placement of ENF 3 or above, MTE 1-3</td>
</tr>
<tr>
<td>CST 110</td>
<td>Introduction to Speech Communication</td>
<td>A placement of ENF 2 or above</td>
</tr>
<tr>
<td>CST 231-232</td>
<td>History of the Theatre</td>
<td>A placement of ENF 3 or above</td>
</tr>
<tr>
<td>ECO --</td>
<td>All ECO courses</td>
<td>A placement of ENF 3 or above, MTE 1-3</td>
</tr>
<tr>
<td>EDU --</td>
<td>All EDU courses</td>
<td>A placement of ENF 3 or above</td>
</tr>
<tr>
<td>ENG --</td>
<td>All ENG courses</td>
<td>A placement of ENF 3 or above</td>
</tr>
<tr>
<td>ENV --</td>
<td>All ENV courses</td>
<td>A placement of ENF 3 or above</td>
</tr>
<tr>
<td>FIN --</td>
<td>All FIN courses</td>
<td>A placement of ENF 3 or above, MTE 1-3</td>
</tr>
<tr>
<td>GEO --</td>
<td>All GEO courses</td>
<td>A Placement of ENF 3 or above</td>
</tr>
<tr>
<td>GOL --</td>
<td>All GOL courses</td>
<td>A placement of ENF 3 or above</td>
</tr>
<tr>
<td>HCT 101-102</td>
<td>Health Care Technician I-II</td>
<td>A placement of ENF 3 or above, MTE 1-3</td>
</tr>
<tr>
<td>HCT 110</td>
<td>Therapeutic Communication</td>
<td>A placement of ENF 2 or above</td>
</tr>
<tr>
<td>HIS --</td>
<td>All HIS courses</td>
<td>A placement of ENF 3 or above</td>
</tr>
<tr>
<td>HIM --</td>
<td>All HIM courses</td>
<td>A placement of ENF 3 or above</td>
</tr>
<tr>
<td>HLT 100</td>
<td>First Aid and Cardio-Pulmonary Resuscitation</td>
<td>A placement of ENF 3 or above</td>
</tr>
<tr>
<td>HLT 106</td>
<td>First Aid and Safety</td>
<td>A placement of ENF 3 or above</td>
</tr>
<tr>
<td>HLT 116</td>
<td>Introduction to Personal Wellness Concepts</td>
<td>A placement of ENF 3 or above</td>
</tr>
<tr>
<td>HLT 121</td>
<td>Drug Use and Abuse</td>
<td>A placement of ENF 3 or above</td>
</tr>
<tr>
<td>HLT 143</td>
<td>Medical Terminology I</td>
<td>A placement of ENF 3 or above</td>
</tr>
<tr>
<td>HLT 180</td>
<td>Therapeutic Massage I</td>
<td>A placement of ENF 3 or above</td>
</tr>
<tr>
<td>HLT 200</td>
<td>Human Sexuality</td>
<td>A placement of ENF 3 or above</td>
</tr>
<tr>
<td>HLT 204</td>
<td>Women’s Health</td>
<td>A placement of ENF 3 or above</td>
</tr>
<tr>
<td>HLT 230</td>
<td>Principles of Nutrition and Human Development</td>
<td>A placement of ENF 3 or above</td>
</tr>
<tr>
<td>HLT 261</td>
<td>Basic Pharmacy</td>
<td>A placement of ENF 3 or above</td>
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<td>HRI --</td>
<td>All HRI courses</td>
<td>A Placement of ENF 1 or above, MTE 1-3</td>
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<td>HMS --</td>
<td>All HMS courses</td>
<td>A placement of ENF 3 or above</td>
</tr>
<tr>
<td>IND --</td>
<td>All IND courses</td>
<td>MTE 1-5</td>
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<tr>
<td>ITD, ITE, ITN, ITP</td>
<td>A Placement of ENF 2 or above, MTE 1-3 and ITE 101 or equivalent.</td>
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<tr>
<td>LGL 115</td>
<td>Real Estate Law for Legal Assistants</td>
<td>A placement of ENF 3 or above</td>
</tr>
<tr>
<td>MKT --</td>
<td>All MKT courses</td>
<td>A placement of ENF 3 or above</td>
</tr>
<tr>
<td>Course Code</td>
<td>Course Title</td>
<td>Prerequisites</td>
</tr>
<tr>
<td>-------------</td>
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<td>--------------------------------------------------------</td>
</tr>
<tr>
<td>MTH 120</td>
<td>Introduction to Mathematics</td>
<td>MTE 1-3, A Placement of ENF 2 or above</td>
</tr>
<tr>
<td>MTH 150</td>
<td>Topics in Geometry</td>
<td>MTE 1-5, A Placement of ENF 3 or above</td>
</tr>
<tr>
<td>MTH 151-152</td>
<td>Mathematics for the Liberal Arts I-II</td>
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<tr>
<td>MTH 163-164</td>
<td>Precalculus I-II</td>
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<tr>
<td>MTH 173-174</td>
<td>Calculus with Analytic Geometry, I-II</td>
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<tr>
<td>MTH 175</td>
<td>Calculus on One Variable I-II</td>
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<td>MTH 240</td>
<td>Statistics</td>
<td>MTE 1-9, A Placement of ENF 3 or above</td>
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<tr>
<td>MTH 241</td>
<td>Statistics I</td>
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<tr>
<td>MTS 100</td>
<td>All motorsports courses.</td>
<td>A placement of ENF 3 or above</td>
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<tr>
<td>MTS 110</td>
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<tr>
<td>MUS 121-122</td>
<td>Music Appreciation I-II</td>
<td>A placement of ENF 3 or above</td>
</tr>
<tr>
<td>NAS 106</td>
<td>Conservation of Natural Resources</td>
<td>A Placement of ENF 3 or above</td>
</tr>
<tr>
<td>NAS 150</td>
<td>Human Biology</td>
<td>A Placement of ENF 3 or above, College Prep BIO</td>
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<tr>
<td>NAS 195</td>
<td>Introduction to Earth Sciences</td>
<td>A Placement of ENF 3 or above</td>
</tr>
<tr>
<td>NUR 135</td>
<td>Drug Dosage Calculations</td>
<td>MTE 1-5</td>
</tr>
<tr>
<td>NUR 230</td>
<td>Pharmacology</td>
<td>A placement of ENF 3 or above</td>
</tr>
<tr>
<td>PHI --</td>
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<td>PHY --</td>
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<tr>
<td>PLS --</td>
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</tr>
<tr>
<td>PSY --</td>
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<tr>
<td>REL --</td>
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<td>A placement of ENF 3 or above</td>
</tr>
<tr>
<td>RPK --</td>
<td>All RPK courses</td>
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<td>SPA --</td>
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<tr>
<td>SDV 199</td>
<td>Transitioning to the Senior Institution</td>
<td>A placement of ENF 3 or above</td>
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Course Descriptions
This section of the catalog describes each of the courses listed in college programs or which may be offered as electives. Not all of the courses will be offered during an academic year. Those provided as a service to business and industry will be offered as needed and when sufficient numbers of students enroll. Other courses may be offered which are not included in this section but are included in the VCCS Curriculum Guide.

Course Numbers
Courses numbered 01-09 are courses for developmental education. Students may re-register for these courses in two subsequent semesters to complete course objectives. Students need administrative approval to re-enroll in developmental courses for a third time. Courses numbered 10-99 are freshman level courses for certificate programs. Credits earned in these courses are not applicable toward associate degree programs; however, upon approval of the vice president of academic and student development services, some courses may provide credit applicable to certificate programs. Courses numbered 100-199 are freshman level courses applicable toward the associate degree, diploma and certificate programs. Courses numbered 200-299 are sophomore level courses applicable toward the associate degree, diploma and certificate programs.

Course Co-requisites
Co-requisites are two courses that must be taken during the same semester or period of enrollment. If any co-requisites are required, these co-requisites will be identified in the course description and are usually noted in the printed class schedule.

Course Prerequisites
If any prerequisites are required before enrolling in a course, these prerequisites will be identified in the course description. Prerequisites or their equivalent must be completed satisfactorily before enrolling in a course unless special permission to enroll is obtained from the division chair and the instructor.

General Usage Courses

XXX 95, 195, 295 TOPICS IN --- (1-5 cr.)
Provides an opportunity to explore topical areas of interest to or needed by students. May be used also for special honors courses. May be repeated for credit. Variable hours.

XXX 96, 196, 296 ON-SITE TRAINING--- (1-5 cr.)
Specializes in career orientation and training program without pay in selected businesses and industry, supervised and coordinated by the college. Credit/Practice ratio maximum 1:5 hours. May be repeated for credit. Variable hours.

XXX 97, 197, 297 COOPERATIVE EDUCATION --- (1-5 cr.)
Supervised on-the-job training for pay in approved business, industrial and service firms, coordinated by the college’s cooperative education office. Applicable to all occupational/technical curricula at the discretion of the college. Credit/Work ratio not to exceed 1:5 hours. May be repeated for credit. Variable hours.

XXX 98, 198, 298 SEMINAR AND PROJECT -- - (1-5 cr.) Requires completion of a project or research report related to the student’s occupational objective and a study of approaches to the selection and pursuit of career opportunities in the field. May be repeated for credit. Variable hours.

XXX 99, 199, 299 SUPERVISED STUDY --- (1-5 cr.) Assigns problems for independent study incorporating previous instruction and supervised by the instructor. May be repeated for credit. Variable hours.

ACCOUNTING (ACC)

ACC 124 PAYROLL ACCOUNTING (2-3 cr.)
Presents accounting systems and methods used in computing and recording payroll to include payroll taxes and compliance with federal and state legislation. Lecture 2-3 hours per week. Prerequisites: ENF 3 or above, MTH 02.

ACC 211 PRINCIPLES OF ACCOUNTING I (3-4 cr.)
Presents accounting principles/application to various businesses. Covers the accounting cycle, income determination, and financial reporting. A laboratory co-requisite (ACC 213) may be required as identified by the college. Lecture 3-4 hours per week. Prerequisites: ENF 3 or above, MTH 02.

ACC 212 PRINCIPLES OF ACCOUNTING II (3-4 cr.)
Emphasizes partnerships, corporations and the study of financial analysis. Includes and introduces cost/managerial accounting concepts. Co-requisite (ACC 214) may be required. Prerequisite: ACC 211. Lecture 3-4 hours per week.

ACC 215 COMPUTERIZED ACCOUNTING (3-4 cr.)
Introduces the computer in solving accounting problems. Focuses on operation of computers. Presents the accounting cycle and financial statement preparation in a computerized system and other applications for financial and managerial accounting. Prerequisite or co-requisite ACC 211 or equivalent. Lecture 3-4 hours per week.

ACC 221 INTERMEDIATE ACCOUNTING I (3-4 cr.)
Covers accounting principles and theory, including a review of the accounting cycle and accounting for current assets, current liabilities and investments. Introduces various accounting approaches and demonstrates the effect of these approaches on the financial statement users. Prerequisite ACC 212 or equivalent. Lecture 3-4 hours per week.

ACC 222 INTERMEDIATE ACCOUNTING II (3-4 cr.)
Continues accounting principles and theory with emphasis on accounting for fixed assets, intangibles, corporate capital structure, long-term liabilities, and investments. Prerequisite ACC 212 or equivalent. Lecture 3-4 hours per week.

ACC 231 COST ACCOUNTING I (3 cr.)
Studies cost accounting methods and reporting as applied to job order, process, and standard cost accounting systems. Includes cost control and other topics. Prerequisite ACC 212 or equivalent. Lecture 3 hours per week.

ACC 261 PRINCIPLES OF FEDERAL TAXATION I (3 cr.)
Presents the study of federal taxation as it relates to individuals and related entities. Includes tax planning, compliance and reporting. Lecture 3 hours per week. Prerequisite: ENF 3 or above, MTH 02.

ADMINISTRATION OF JUSTICE (ADJ)

ADJ 100 SURVEY OF CRIMINAL JUSTICE (3 cr.)
Presents an overview of the United States criminal justice system; introduces the major system components—law enforcement, judiciary, and corrections. Lecture 3 hours per week. Prerequisites: A placement of ENF 2 or above.

ADJ 105 THE JUVENILE JUSTICE SYSTEM (3 cr.)
Presents the evolution, philosophy,
structures and processes of the American juvenile delinquency system; surveys the rights of juveniles, dispositional alternatives, rehabilitation methods and current trends. Lecture 3 hours per week. Prerequisites: A placement of ENF 2 or above.

**ADJ 111 LAW ENFORCEMENT ORGANIZATION & ADMINISTRATION I (3 cr.)** Teaches the principles of organization and administration of law enforcement agencies. Studies the management of line operations, staff and auxiliary services, investigative and juvenile units. Introduces the concept of data processing; examines policies, procedures, rules, and regulations pertaining to crime prevention. Surveys concepts of protection of life and property, detection of offenses, and apprehension of offenders. Part I of II. Lecture 3 hours per week.

**ADJ 112 LAW ENFORCEMENT ORGANIZATION & ADMINISTRATION II (3 cr.)** Teaches the principles of organization and administration of law enforcement agencies. Studies the management of line operations, staff and auxiliary services, investigative and juvenile units. Introduces the concept of data processing; examines policies, procedures, rules, and regulations pertaining to crime prevention. Surveys concepts of protection of life and property, detection of offenses, and apprehension of offenders. Part II of II. Lecture 3 hours per week. Prerequisite: divisional approval or ADJ 111.

**ADJ 130 INTRODUCTION TO CRIMINAL LAW (3 cr.)** Surveys the general principals of American criminal law, the elements of major crimes, and the basic steps of prosecution procedure. Lecture 3 hours per week. Prerequisites: All Developmental English requirements met, and ADJ 131.

**ADJ 131 LEGAL EVIDENCE (3 cr.)** Surveys the identification, degrees, and admissibility of evidence for criminal prosecution; examines pre-trial and trial procedures as they pertain to the rules of evidence. Lecture 3 hours per week. Prerequisites: All Developmental English requirements met, ADJ 100, ADJ 105, ADJ 107, ADJ 111, ADJ 146, ADJ 228, and MTE 1-3.

**ADJ 140 INTRODUCTION TO CORRECTIONS (3 cr.)** Focuses on societal responses to the offender. Traces the evolution of practices based on philosophies of retribution, deterrence, and rehabilitation. Reviews contemporary correctional activities and their relationships to other aspects of the criminal justice system. Lecture 3 hours per week. Prerequisites: A placement of ENF 2 or above.

**ADJ 145 CORRECTIONS AND THE COMMUNITY (3 cr.)** Studies and evaluates the relationships and interactions between correctional organizations and free society. Focuses on the shared responsibility of the community and corrections agencies to develop effective programs for management and treatment of criminal offenders. Lecture 3 hours per week. Prerequisites: A placement of ENF 2 or above.

**ADJ 146 ADULT CORRECTIONAL INSTITUTIONS (3 cr.)** Describes the structures, function, and goals of state and federal correctional institutions (prisons, farms, community-based units, etc.) for adult inmates. Lecture 3 hours per week. Prerequisites: A placement of ENF 2 or above.

**ADJ 201 CRIMINOLOGY (3 cr.)** Studies current and historical data pertaining to criminal and other deviant behavior. Examines theories that explain crime and criminal behavior in human society. Lecture 3 hours per week. Prerequisites: A placement of ENF 2 or above.

**ADJ 228 NARCOTICS AND DANGEROUS DRUGS (3 cr.)** Surveys the historical and current usage of narcotics and dangerous drugs. Teaches the identification and classification of such drugs and emphasizes the symptoms and effects on their users. Examines investigative methods and procedures utilized in law enforcement efforts against illicit drug usage. Lecture 3 hours per week.

**ADJ 234 TERRORISM AND COUNTER-TERRORISM (3 cr.)** Surveys the historical and current practices of terrorism that are national, transnational, or domestic in origin. Includes biological, chemical, nuclear, and cyber-terrorism. Teaches the identification and classification of terrorist organizations, violent political groups and issue-oriented militant movements. Examines investigative methods and procedures utilized in counter terrorist efforts domestically and internationally. Prerequisites: ADJ 100, ADJ 107. (May be used as an elective)

**ADJ 236 PRINCIPLES OF CRIMINAL INVESTIGATION (3 cr.)** Surveys the fundamentals of criminal investigation procedures and techniques. Examines crime scene search, collecting, handling and preserving of evidence. Lecture 3 hours per week. Prerequisite: ADJ 130.

**ADJ 237 ADVANCED CRIMINAL INVESTIGATION (3 cr.)** Introduces specialized tools and scientific aids used in criminal investigation. Applies investigative techniques to specific situations and preparation of trial evidence. Prerequisite ADJ 236 or division approval. Lecture 3 hours per week. Prerequisite: ADJ 236.

**ADJ 280 CAPSTONE PROJECT (1 cr.)** Provides a capstone research project for the final semester of the program, focusing inquiry upon an area of interest to the student or area relevant to the student’s prospective career field. May include problem based research topics, internships, or other focused projects. Lecture 1 hour per week. Corequisite: ADJ 236 or equivalent.

**AGRICULTURE (AGR)**

**AGR 141- INTRODUCTION TO ANIMAL SCIENCE AND TECHNOLOGY (4 cr.)** Introduction to the science and technology involved in sustainable animal production and management practices. Beef, sheep, horses, dairy, swine, goats, and poultry included with emphasis on practical experiences in laboratory and farm settings. Lecture 3 hours. Laboratory 2-3 hours per week. Total 5-6 hours per week.

**AGR 142 – INTRODUCTION TO PLANT SCIENCE AND TECHNOLOGY (3 cr.)** To introduce students to plant science, ecology, plant morphology, plant and soil relations and energy conversions. Students will survey agricultural crops and their importance to the economy. Lecture 2 hours. Laboratory 2-3 hours per week. Total 4-5 hours per week.

**AGR 143 - INTRODUCTION TO AGRIBUSINESS AND FINANCIAL MANAGEMENT (3 cr.)** Introduction to agriculture’s importance to society and ways to start a farm or agribusiness. Evaluate forms of business including cooperatives and create financial statements and reports necessary for routine accounting and tax preparation. Decision making using financial tools including budgets and time value of money. Explore retirement, transition planning, personal financial management, and capital acquisition techniques. Lecture 2 hours. Laboratory 2-3 hours per week. Total 4-5 hours per week.

**AGR 144 - AGRICULTURE HUMAN RESOURCE MANAGEMENT (3 cr.)** Principles
and management practices utilized to attract, retain and motivate agricultural employees. Emphasis will be placed on interviewing techniques, employer/employee relationships, motivation theory, legal issues, safety, and environmental concerns. Team building and interpersonal skills are developed through activities and cases. Diversity and cultural differences are explored as they apply to human resource compliance and performance issues. Lecture 2 hours. Laboratory 2-3 hours per week. Total 4-5 hours per week.

**AGR 231 - AGRIBUSINESS MARKETING, RISK MANAGEMENT, AND ENTREPRENEURSHIP (3 cr.)** Marketing techniques required to create an effective marketing plan addressing product, price, place, promotion, and people considerations of an agribusiness. Emphasis on unique aspects of agricultural products and risk management including price fluctuations and biosecurity. Student projects explore entrepreneurship and create marketing plans for a proposed farm or agribusiness. Lecture 2 hours. Laboratory 2-3 hours per week. Total 4-5 hours per week.

**AGR 232 - PROFESSIONAL SELLING FOR AGRIBUSINESS (3 cr.)** Explore sales and marketing careers in the agricultural industry. Analyze customer’s personality profile and needs to formulate an effective value-based sales presentation. Psychology of personality styles, buyer motivation, and conflict resolution is considered. Students research agricultural customer and product to make a realistic sales call with actual sales professionals. Lecture 2 hours. Laboratory 2-3 hours per week. Total 4-5 hours per week.

**AGR 233 - FOOD PRODUCTION, SAFETY, BIOSECURITY, AND QUALITY CONTROL (3 cr.)** Explore food production practices and their influence on food product quality, nutrition, and safety. Develop biosecurity and quality control practices including analytical methods for tracking and reporting. Included agricultural topics of equipment, packaging, laws, regulations, standards, and financial sources for on-farm and small-scale processing. Lecture 2 hours. Laboratory 2-3 hours per week. Total 4-5 hours per week.

**AGR 234 - CHEMICAL APPLICATION AND PEST MANAGEMENT (3 cr.)** Proper application of pesticides and other agricultural chemicals used in landscape and turf management and in production agriculture; including application methods, equipment calibration and configuration, occupational health and safety, and pesticide laws and regulations. Lecture 2 hours. Laboratory 2-3 hours per week. Total 4-5 hours per week.

**AGR 241 - AGRICULTURAL POLICY, LEADERSHIP, & PROFESSIONAL SERVICE (3 cr.)** Enhance personal and professional leadership skills to build consensus and collaboratively solve agricultural issues. Track agricultural issues impacted by the Virginia legislative process. Explore membership, professional service, and leadership opportunities in agricultural organizations and ways to influence the legislative process. Reinforce written and oral communications skills. Lecture 2 hours. Laboratory 2-3 hours per week. Total 4-5 hours per week.

**AGR 242 - ANIMAL PRODUCTION, PRODUCTS AND EMERGING TECHNOLOGIES (3 cr.)** Manage production and marketing of livestock enterprises including cattle, swine, sheep, poultry, goats, fish and other specialty animal enterprises. Principles of nutrition, reproduction, economics, and breeding and selection as well as opportunities for diversifying income on small to medium size operations are emphasized. Lecture 2 hours. Laboratory 2-3 hours per week. Total 4-5 hours per week.

**AGR 244 - AGRICULTURAL ALTERNATIVE ENERGY SOLUTIONS (3 cr.)** Explore agricultural and other renewable energy solutions capable of reducing farm and agribusiness reliance on external energy production and increase profitability by diversifying income through energy production enterprises. Basic electrical and chemical concepts are introduced as well as energy conservation techniques. Lecture 2 hours. Laboratory 2-3 hours per week. Total 4-5 hours per week.

**AIR 117 METAL LAYOUT I (3 cr.)** Presents measuring and gauging of sheet metal, types of metal, handling shear metal, cutting and bending, layout. Teaches fundamentals of drafting, basic drawing instruments, lettering practices. Lecture 1-2 hours. Laboratory 3-6 hours. Total 5-7 hours per week. Prerequisites: A placement of ENF 2 or above and MTE 1-3.

**AIR 121 - AIR CONDITIONING AND REFRIGERATION I (3-4 cr.)** Studies refrigeration theory, characteristics of refrigerants, temperature, and pressure, tools and equipment, soldering, brazing, refrigeration systems, system components, compressors, evaporators, metering devices. Presents charging and evaluation of systems and leak detection. Explores servicing the basic system. Explains use and care of oils and additives and troubleshooting of small commercial systems. Lecture 2-3 hours. Laboratory 2-3 hours. Total 4-6 hours per week. Prerequisites: A placement of ENF 2 or above and MTE 1-3.

**AIR 134 CIRCUITS AND CONTROLS I (4 cr.)** Presents circuit diagrams for air conditioning units, reading and drawing of circuit diagrams, types of electrical controls. Includes analysis of air conditioning circuits, components, analysis and characteristics of circuits and controls, testing and servicing. Introduces electricity for air conditioning which includes circuit elements, direct current circuits and motors, single and three-phase circuits and motors, power distribution systems, and protective devices. Studies the electron and its behavior in passive and active circuits and components. Demonstrates electronic components and circuits as applied to air conditioning system. Lecture 3 hours. Laboratory 3 hours. Total 6 hours per week.

**AIR 154 HEATING SYSTEMS I (3-4 cr.)** Introduces types of fuels and their characteristics of combustion; types, components and characteristics of burners, and burner efficiency analyzers. Studies forced air heating systems including troubleshooting, preventive maintenance and servicing. Lecture 2-3 hours. Laboratory 2-6 hours. Total 4-8 hours per week.

**AIR 190 COORDINATED INTERNESHIP (1-5 cr.)** Supervises on-the-job training in selected business, industrial or service firms coordinated by the college. Credit/practice ratio not to exceed 1:5 hours. May be repeated for credit. Variable hours. Prerequisites: AGR 121, AIR 134, AIR 235.

**AIR 235 HEAT PUMPS (3-4 cr.)** Studies theory and operation of reverse cycle refrigeration including supplementary heat as applied to heat pump systems, including service, installation and maintenance. Lecture 2-3 hours. Laboratory 2-3 hours. Total 4-6 hours per week.

**AIR 238 ADVANCED TROUBLESHOOTING AND SERVICE (3-4 cr.)** Presents advanced service techniques on wide variety of equipment used in refrigeration, air conditioning, and phases of heating and ventilation and controls. Lecture 2-3 hours. Laboratory 2-3 hours. Total 4-6 hours per week.
ART 100 HISTORY AND APPRECIATION OF ART I (3 cr.) Presents the history and interpretation of architecture, sculpture, and painting. Begins with prehistoric art and follows the development of western civilization to the present. Part I of II. Lecture 3 hours per week. Prerequisite: ENF 3 or above. May be taken out of sequence.

ART 102 HISTORY AND APPRECIATION OF ART II (3 cr.) Presents the history and interpretation of architecture, sculpture, and painting. Begins with prehistoric art and follows the development of western civilization to the present. Part II of II. Lecture 3 hours per week. Prerequisite: ENF 3 or above. May be taken out of sequence.

ART 103 DRAWING I (3 cr.) Introduces basic drawing skills and understanding of visual language through studio instruction/lecture. Introduces concepts such as proportion, space, perspective, tone and composition as applied to still life, landscape and the figure. Uses drawing media such as pencil, charcoal, ink wash and color media. Includes field trips and gallery assignments as appropriate. Part I of II. Lecture 1-2 hours. Studio instruction 4 hours. Total 5-6 hours per week.

ART 104 DRAWING II (3 cr.) Develops basic drawing skills and understanding of visual language through studio instruction/lecture. Introduces concepts such as proportion, space, perspective, tone and composition as applied to still life, landscape and the figure. Uses drawing media such as pencil, charcoal, ink wash and color media. Includes field trips and gallery assignments as appropriate. Part II of II. Lecture 1-2 hours. Studio instruction 4 hours. Total 5-6 hours per week.

ART 105 HISTORY OF ART I (3 cr.) Studies the historical conflict of art of the ancient, medieval, Renaissance and modern worlds. Includes research project. Part I of II. Lecture 3 hours per week. Prerequisite: ENF 3 or above. May be taken out of sequence.

ART 106 HISTORY OF ART II (3 cr.) Studies the historical conflict of art of the ancient, medieval, Renaissance and modern worlds. Includes research project. Part II of II. Lecture 3 hours per week. Prerequisite: ENF 3 or above. May be taken out of sequence.

ART 107 FINE ARTS I (3 cr.) Introduces the principles and techniques of representational and abstract painting as applied to the head/figure, still-life, landscape and other subject matter including non-objective painting. Gives additional instruction in color, composition, modeling, space and perspective. Encourages individual approaches to painting. Prerequisite: ART 242 to ART 248. Part I of II. Lecture 2-3 hours. Laboratory 2-3 hours. Total 4-6 hours per week.

ART 201 HISTORY OF ART I (3 cr.) Studies the historical conflict of art of the ancient, medieval, Renaissance and modern worlds. Includes research project. Part I of II. Lecture 3 hours per week. Prerequisite: ENF 3 or above. May be taken out of sequence.

ART 202 HISTORY OF ART II (3 cr.) Studies the historical conflict of art of the ancient, medieval, Renaissance and modern worlds. Includes research project. Part II of II. Lecture 3 hours per week. Prerequisite: ENF 3 or above. May be taken out of sequence.

ART 203 COMPUTER GRAPHICS I (3 cr.) Utilizes microcomputers and software to produce computer graphics. Employs techniques learned to solve studio projects which reinforce instruction and are appropriate for portfolio use. Part I of II. Lecture 1-2 hours. Studio instruction 3-4 hours. Total 5-6 hours per week.

ART 204 COMPUTER GRAPHICS II (3 cr.) Utilizes microcomputers and software to produce computer graphics. Employs techniques learned to solve studio projects which reinforce instruction and are appropriate for portfolio use. Part II of II.
Lecture 1-2 hours. Studio instruction 3-4 hours. Total 5-6 hours per week.

AMERICAN SIGN LANGUAGE (ASL)

ASL 101 AMERICAN SIGN LANGUAGE I (3-4 cr.) Introduces the fundamentals of American Sign Language (ASL) used by the Deaf Community, including basic vocabulary, syntax, fingerspelling, and grammatical non-manual signals. Focuses on communicative competence. Develops gestural skills as a foundation for ASL enhancement. Introduces cultural knowledge and increases understanding of the Deaf Community. Part I of II. Lecture 3-4 hours. Laboratory 0-2 hours. Total 3-5 hours per week.

ASL 102 AMERICAN SIGN LANGUAGE II (3-4 cr.) Introduces the fundamentals of American Sign Language (ASL) used by the Deaf Community, including basic vocabulary, syntax, fingerspelling, and grammatical non-manual signals. Focuses on communicative competence. Develops gestural skills as a foundation for ASL enhancement. Introduces cultural knowledge and increases understanding of the Deaf Community. Part II of II. Lecture 3-4 hours. Laboratory 0-2 hours. Total 3-5 hours per week.

ADMINISTRATIVE SUPPORT TECHNOLOGY (AST)

AST 101 KEYBOARDING I (2-4 cr.) Teaches the alpha/numeric keyboard with emphasis on correct techniques, speed, and accuracy. Teaches formatting of basic personal and business correspondence, reports, and tabulation. A laboratory co-requisite (AST 103) may be required. Lecture 2-4 hours per week. Prerequisite: ENF 3 or above.

AST 102 KEYBOARDING II (2-4 cr.) Develops keyboarding and document production skills with emphasis on preparation of specialized business documents. Continues skill-building for speed and accuracy. Prerequisite AST 101. A laboratory co-requisite (AST 104) may be required. Lecture 2-4 hours per week.

AST 117 KEYBOARDING FOR COMPUTER USAGE (1 cr.) Teaches the alphabetic keyboard and 10-key pad. Develops correct keying techniques. Lecture 1 hour per week.

AST 141 WORD PROCESSING (SPECIFY SOFTWARE) (2-4 cr.) Teaches creating and editing documents, including line and page layouts, columns, fonts, search/replace, cut/paste, spell/thesaurus, and advanced editing and formatting features of word processing software. Prerequisite AST 101 or equivalent. A laboratory co-requisite (AST 144) may be required. Lecture 2-4 hours per week. Prerequisite: Lecture 1 hour per week.

AST 154 VOICE RECOGNITION APPLICATIONS (SPECIFY SOFTWARE) (1 cr.) Teaches the computer user to use the voice as an input device to compose documents and to give commands directly to the computer. Lecture 1 hour per week.

AST 171 INTRODUCTION TO CALL CENTER SERVICES (3 cr.) Introduces concepts and skills needed to be an effective customer service representative for a telephone service operation. Covers call center theory and technology, interpersonal communication skills, customer relations attitudes, telecommunications techniques, and professional procedures to handle a variety of customer service sales requests. Lecture 3 hours per week.

AST 234 RECORDS AND DATABASE MANAGEMENT (2-4 cr.) Teaches filing and records management procedures using microcomputer database software. Incorporates both manual and electronic methods for managing information. A laboratory co-requisite (AST 235) may be required. Lecture 2-4 hours per week. Prerequisite: ENF 3 or above. ITE 115.

AST 238 WORD PROCESSING ADVANCED OPERATIONS (2-4 cr.) Teaches advanced word processing features including working with merge files, macros, and graphics; develops competence in the production of complex documents. A laboratory co-requisite (AST 239) may be required. Lecture 2-4 hours per week. Prerequisite: Lecture 102, AST 141, ITE 115.

AST 244 OFFICE ADMINISTRATION II (3 cr.) Enhances skills necessary to provide organizational and technical support in a contemporary office setting. Emphasizes administrative and supervisory role of the office professional. Includes travel and meeting planning, office budgeting and financial procedures, international issues, and career development. Prerequisite AST 243 or equivalent. Lecture 3 hours per week.

AST 245 MEDICAL MACHINE TRANSCRIPTION (2-4 cr.) Develops machine transcription skills, integrating operation of transcribing equipment with understanding of medical terminology. Emphasizes dictation techniques and accurate transcription of medical documents in prescribed formats. Prerequisite AST 102 or equivalent. A laboratory co-requisite (AST 246) may be required. Lecture 2-4 hours per week. Prerequisite: HLT 143.

AST 260 PRESENTATION SOFTWARE (SPECIFY SOFTWARE) (2-4 cr.) Teaches creation of slides including use of text, clip art, and graphs. Includes techniques for enhancing presentations with on-screen slide show as well as printing to transparencies and hand-outs. Incorporates use of sound and video clips. A laboratory co-requisite (AST 261) may be required. Lecture 2-4 hours per week. Prerequisite: ENF 3 or above. ITE 115.

AST 271 MEDICAL OFFICE PROCEDURES I (3 cr.) Covers medical office procedures, records management, preparation of medical reports, and other medical documents. Co-requisite AST 102 or equivalent. Lecture 3 hours per week.

AUTO BODY (AUB)

AUB 106 BASIC SHEET METAL OPERATIONS (4 cr.) Teaches the use of metal straightening tools, basic straightening operations, shrinking, filling, sheet metal damage and repair procedures. Lecture 3 hours. Laboratory 3 hours. Total 6 hours per week.

AUB 116 AUTO BODY REPAIR (4 cr.) Teaches collision straightening procedures and use of equipment, planning repair procedures, disassembly techniques, body fastening systems, glass removal and replacement and panel repair and alignment. Lecture 3 hours. Laboratory 3 hours. Total 6 hours per week.

AUB 118 AUTOMOTIVE PAINT PREPARATION (4 cr.) Teaches auto body preparation for painting, using the materials, processes, and equipment required to prepare metal and old finishes. Includes sanding, cleaning, solvents, special materials, fillers and primers. Lecture 3 hours. Laboratory 3 hours. Total 6 hours per week.

AUB 119 AUTOMOTIVE PAINTING (4 cr.) Teaches theory and application of painting and the use of painting equipment and materials including paints, thinners, primers, rubbing compounds and cleaners. Lecture 3 hours. Laboratory 3 hours. Total 6 hours per week.

AUB 290 COORDINATED INTERNSHIP (1-5 cr.) Supervises on-the-job training in selected business, industrial or service firms coordinated by the college. Credit/practice ratio not to exceed 1:5 hours. May be repeated for credit. Variable hours.
AUTOMOTIVE (AUT)

AUT 109 APPLIED MATHEMATICS FOR AUTOMOTIVE TECHNICIANS (3 cr.)
Introduces arithmetic skills, conversion of units, consumer mathematics, solution of linear algebraic expression, and the solving of applied problems in torque, horsepower, piston displacement. Lecture 3 hours per week.

AUT 110 COORDINATED INTERNSHIP (1 cr.)
Supervises on-the-job training in selected business, industrial or service firms coordinated by the college. Credit/practice not placed for credit. Variable hours. Total 7-8 hours per week.

AUT 111 AUTOMOTIVE ENGINES I (3-4 cr.)
Introduces use of electricity and magnetism, symbols and circuitry as applied to the alternators, regulators, starters, lighting systems, instruments and gauges and accessories. Part I of II. Lecture 2-3 hours. Laboratory 2-3 hours. Total 4-6 hours per week. Prerequisites: A placement of ENF 2 or above and MTE 1-3.

AUT 112 AUTOMOTIVE ENGINES II (3-4 cr.)
Introduces use of electricity and magnetism, symbols and circuitry as applied to the alternators, regulators, starters, lighting systems, instruments and gauges and accessories. Part II of II. Lecture 2 hours. Laboratory 3 hours. Total 5 hours per week. Prerequisites: A placement of ENF 2 or above and MTE 1-3.

AUT 113 CYLINDER BLOCK SERVICE I (3 cr.)
Studies basic cylinder block reconditioning, including boring, re-sleeving, line-boring and deck resurfacing. Includes repair techniques for damaged block and cylinder head castings to include cold welding, brazing, welding and epoxy. Lecture 2 hours. Laboratory 3 hours. Total 5 hours per week. Prerequisites: A placement of ENF 2 or above and MTE 1-3.

AUT 114 CYLINDER HEAD SERVICE II (3 cr.)
Studies cylinder head reconditioning, including valve seat grinding, re-facing valves, servicing valve guides, valve seat inserts, cutting for valve seals and spring, thread repair and resurfacing mating surfaces. Prerequisite AUT 113. Lecture 2 hours. Laboratory 3 hours. Total 5 hours per week.

AUT 120 INTRODUCTION TO AUTOMOTIVE MACHINE SHOP (3 cr.)
Introduces automotive machining operations emphasizing shop safety and the safe use of machine shop tools. Surveys basic machining operations and specialized auto machining techniques necessary for reconditioning engine and chassis components. Requires basic set of machinist’s hand tools. Prerequisite or co-requisite for all other machinist courses. Lecture 2 hours. Laboratory 3 hours. Total 5 hours per week. Prerequisites: A placement of ENF 2 or above and MTE 1-3.

AUT 121 AUTOMOTIVE FUEL SYSTEMS I (3 cr.)
Analyses major domestic and foreign automotive fuel systems to include carburetors and fuel injection systems. Includes detailed inspection and discussion of fuel tanks, connecting lines, instruments, filters, fuel pumps, superchargers, and turbo charger. Also includes complete diagnosis, troubleshooting, overhaul and factory adjustment procedures of all major carbureted and fuel injection systems. Lecture 3 hours. Laboratory 0-3 hours. Total 3-6 hours per week.

AUT 125 ANTI POLLUTION SYSTEMS (3 cr.)
Studies various anti-pollution systems used on modern automobiles, installation, inspection, repair and service. Lecture 2 hours. Laboratory 3 hours. Total 5 hours per week.

AUT 161 AUTOMOTIVE DIAGNOSIS I (3 cr.)
Introduces principles of automotive maintenance using modern diagnostic methods. Uses theory and laboratory experiments designed to explain and illustrate scientific basis of modern electronic and mechanical diagnostic procedures. Part I of II. Lecture 2 hours. Laboratory 3 hours. Total 5 hours per week. Prerequisites: ENF 3 or above and MTE 1-3.

AUT 162 AUTOMOTIVE DIAGNOSIS II (3 cr.)
Introduces principles of automotive maintenance using modern diagnostic methods. Uses theory and laboratory experiments designed to explain and illustrate scientific basis of modern electronic and mechanical diagnostic procedures. Part II of II. Lecture 2 hours. Laboratory 3 hours. Total 5 hours per week. Prerequisites: A placement of ENF 2 or above and MTE 1-3.

AUT 165 AUTO DIAGNOSIS AND TUNE-UP (2 cr.)
Presents the techniques for diagnosis of malfunctions in systems of the automobile. Uses dynamometers, oscilloscopes and other specialized diagnostic and testing equipment. Demonstrates tune-up of conventional and rotary engines. Lecture 1 hour. Laboratory 3 hours. Total 4 hours per week.

AUT 200 COORDINATED INTERNSHIP (1-5 cr.)
Supervises on-the-job training in selected business, industrial or service firms coordinated by the college. Credit/practice ratio not to exceed 1:5 hours. May be repeated for credit. Variable hours.

AUT 215 EMISSIONS SYSTEMS DIAGNOSIS AND REPAIR (2 cr.)
Presents logical diagnostic paths to identify vehicle HC-CO, O2, and NOx failure areas, teaches a progression of failure detection from most likely to more complex causes. Emphasizes use of infrared analyzer and manufacturer’s specified adjustments. Lecture 2 hours per week.

AUT 236 AUTOMOTIVE CLIMATE CONTROL (4 cr.)
Introduces principles of refrigeration, air conditioning controls, and adjustment and general servicing of automotive air conditioning systems. Lecture 3 hours. Laboratory 3 hours. Total 6 hours per week.

AUT 241 AUTOMOTIVE ELECTRICITY I (3 cr.)
Introduces electricity and magnetism, symbols and circuitry as applied to the alternators, regulators, starters, lighting systems, instruments and gauges and accessories. Part I of II. Lecture 2-3 hours. Laboratory 2-3 hours. Total 4-6 hours per week.

AUT 242 AUTOMOTIVE ELECTRICITY II (3 cr.)
Introduces electricity and magnetism, symbols and circuitry as applied to the alternators, regulators, starters, lighting systems, instruments and gauges and accessories. Part II of II. Lecture 2 hours. Laboratory 3 hours. Total 4-6 hours per week.

AUT 245 AUTOMOTIVE ELECTRONICS (3 cr.)
Introduces field of electronics as it applies to the modern automobile. Emphasizes basic circuit operation, diagnosis and repair of digital indicator and warning systems. Lecture 3 hours. Laboratory 0-3 hours. Total 3-6 hours per week.

AUT 265 AUTOMOTIVE BRAKING SYSTEMS (3-4 cr.)
Introduces use of alignment equipment in diagnosing, adjusting, and repairing front and rear suspensions. Deals with repair and servicing of power and standard steering systems. Lecture 1-2 hours. Laboratory 6 hours. Total 7-8 hours per week.

AUT 275 SHOP MANAGEMENT (2-3 cr.)
Studies shop layout, personnel management, cost analysis record keeping and quality control. Discusses shop
manager, service salesman, and service writer’s roles in customer relations. Lecture 2-3 hours per week.

**BIOLOGY (BIO)**

**BIO 101 GENERAL BIOLOGY I (4 cr.)** Explores fundamental characteristics of living matter from the molecular level to the ecological community with emphasis on general biological principles. Introduces the diversity of living organisms, their structure, function and evolution. Part I of II. Lecture 3 hours. Recitation and lab 3 hours. Total 6 hours per week. Prerequisite: A placement of ENF 3 or above. MTE 1-3.

**BIO 102 GENERAL BIOLOGY II (4 cr.)** Explores fundamental characteristics of living matter from the molecular level to the ecological community with emphasis on general biological principles. Introduces the diversity of living organisms, their structure, function and evolution. Part II of II. Lecture 3 hours. Recitation and lab 3 hours. Total 6 hours per week. Prerequisite: BIO 101.

**BIO 107 - BIOLOGY OF THE ENVIRONMENT (4 cr.)** Presents the basic concepts of environmental science through a topical approach. Includes the scientific method, population growth and migration, use of natural resources and waste management, ecosystem simplification recovery, evolution, biogeochemical cycles, photosynthesis and global warming, geological formations, atmosphere and climate, and ozone depletion and acid deposition. Lecture 3 hours. Laboratory 3 hours. Total 6 hours per week.

**BIO 110 - GENERAL BOTANY (4 cr.)** Emphasizes plant life cycles, anatomy, morphology, taxonomy, and evolution. Considers the principles of genetics, ecology, and physiology. Lecture 3 hours. Recitation and laboratory 3 hours. Total 6 hours per week.

**BIO 120 - GENERAL ZOOLOGY (4 cr.)** Presents basic biological principles, and emphasizes structure, physiology and evolutionary relationships of invertebrates and vertebrates. Lecture 3 hours. Recitation and laboratory 3 hours. Total 6 hours per week.

**BIO 151 - HUMAN GROSS ANATOMY I (1 cr.)** Introduces students to human anatomy through dissection of a cadaver. Human Gross Anatomy I includes dissection of back, chest and abdominal muscles, spinal cord structures and upper and lower limb structures. Human Gross Anatomy II includes dissection of thoracic, abdomino-pelvic and cranial cavities. Part I of II. Laboratory 3 hours per week. Prerequisite: BIO 231.

**BIO 152 - HUMAN GROSS ANATOMY II (1 cr.)** Introduces students to human anatomy through dissection of a cadaver. Human Gross Anatomy I includes dissection of back, chest and abdominal muscles, spinal cord structures and upper and lower limb structures. Human Gross Anatomy II includes dissection of thoracic, abdomino-pelvic and cranial cavities. Part II of II. Laboratory 3 hours per week. Prerequisite: BIO 231.

**BIO 205 GENERAL MICROBIOLOGY (4 cr.)** Examines morphology, genetics, physiology, ecology, and control of microorganisms. Emphasizes application of microbiological techniques to selected fields. Prerequisites one year of college biology and one year of college chemistry or divisional approval. Lecture 3 hours. Recitation and laboratory 3 hours. Total 6 hours per week. Prerequisite: A placement of ENF 3 or above.

**BIO 231 HUMAN ANATOMY AND PHYSIOLOGY I (4 cr.)** Integrates the study of gross and microscopic anatomy with physiology, emphasizing the analysis and interpretation of physiological data. Lecture 3 hours. Recitation and laboratory 3 hours. Total 6 hours per week. Prerequisite: A placement of ENF 3 or above; One year of college biology and one year of college chemistry or divisional approval. Part I of II.

**BIO 232 HUMAN ANATOMY AND PHYSIOLOGY II (4 cr.)** Integrates the study of gross and microscopic anatomy with physiology, emphasizing the analysis and interpretation of physiological data. Lecture 3 hours. Recitation and laboratory 3 hours. Total 6 hours per week. Prerequisite: BIO 231; one year of college biology and one year of college chemistry or divisional approval. Part II of II.

**BIO 256 - GENERAL GENETICS** Explores the principles of genetics ranging from classical Mendelian inheritance to the most recent advances in the biochemical nature and function of the gene. Includes experimental design and statistical analysis. Prerequisite BIO 101-102 or equivalent. Lecture 3 hours. Recitation and laboratory 3 hours. Total 6 hours per week. 4 credits

**BIO 270 GENERAL ECOLOGY (3-4 cr.)** Studies interrelationships between organisms and their natural and cultural environments with emphasis on populations, communities, and ecosystems. Prerequisite BIO 101-102 or divisional approval. Lecture 2-3 hours. Recitation and laboratory 3-6 hours. Total 5-9 hours per week. Prerequisite: A placement of ENF 3 or above.

**BUILDING (BLD)**

**BLD 105 SHOP PRACTICES AND PROCEDURES (3 cr.)** Introduces basic hand and power tools with emphasis on proper care and safety practices. Introduces materials used in building trades including metals, plastics, and woods with stress placed on the processing techniques of each. Emphasizes fasteners such as screws, rivets, and glues as well as brazed, soldered and welded joints. Lecture 1-2 hours. Laboratory 2-3 hours. Total 3-5 hours per week.

**BLD 111 BLUEPRINT READING AND THE BUILDING CODE (3 cr.)** Introduces reading and interpreting various kinds of blueprints and working drawings with reference to local, state, and national building codes. Lecture 2 hours. Laboratory 2 hours. Total 4 hours per week.

**BLD 135 BUILDING CONSTRUCTION CARPENTRY (2-3 cr.)** Presents woodworking technologies in carpentry. Introduces types of framing and building materials and equipment used in residential and light commercial construction. Emphasizes the development of skills in the safe use of hand and machine woodworking tools and development of construction terminology. Includes laboratory involvement in wall framing and carpentry practices. Lecture 1-2 hours. Laboratory 2 hours. Total 3-4 hours per week.

**BLD 140 PRINCIPLES OF PLUMBING TRADE I (3 cr.)** Studies the plumbing trade, the structure of the plumbing trade, apprenticeship standards, job safety, tools of the trade, the approved installation of plumbing materials, types of sanitary drainage pipe and piping layout of sanitary plumbing. Lecture 3 hours per week.

**BLD 147 PRINCIPLES OF BLOCK AND BRICKLAYING I (3 cr.)** Presents fundamentals of masonry practices. Includes foundations, block laying skills, mortar mixing, measuring, and introduction to bricklaying techniques. Emphasizes hands-on applications of block and brick techniques. Lecture 2 hours. Laboratory 2 hours. Total 4 hours per week.

**BLD 148 PRINCIPLES OF BLOCK AND BRICKLAYING II (3 cr.)** Studies skills involved in block and bricklaying, including corners,
windows, arches, and decorative work. Emphasizes developing speed and accuracy with materials. Lecture 2 hours. Laboratory 2 hours. Total 4 hours per week.

BUSINESS MANAGEMENT AND ADMINISTRATION (BUS)

BUS 100 INTRODUCTION TO BUSINESS (3 cr.) Presents a broad introduction to the functioning of business enterprise within the U.S. economic framework. Introduces economic systems, essential elements of business organization, production, and human resource management. Marketing, finance, and risk management. Develops business vocabulary. Lecture 3 hours per week. Prerequisites: ENF 3 or above.

BUS 110 BUSINESS PROTOCOL (3 cr.) Presents basic business etiquette, customs and protocol for individuals desiring to succeed in the global business environment. Presents information on new manners relating to diversity, plurality, family values, sexual freedom, substance abuse, and hiring and firing practices. Discusses dress, language, communication traditions, socializing, traveling and meeting protocol. Lecture 3 hours per week.

BUS 111 PRINCIPLES OF SUPERVISION I (3-4 cr.) Teaches fundamentals of supervision, including primary responsibilities of the supervisor. Introduces factors relating to work of supervisor and subordinates. Covers aspects of leadership, job management, work improvement, training and orientation, performance evaluation, and effective employee/ supervisor relationships. Lecture 3-4 hours per week. Prerequisite: ENF 3 or above.

BUS 112 PRINCIPLES OF SUPERVISION II (3-4 cr.) Develops skills in carrying out the responsibilities of a supervisor including interviewing, evaluating and disciplining, and problem-solving techniques. Prerequisite BUS 111. Lecture 3-4 hours per week. Prerequisite: ENF 3 or above.

BUS 116 ENTREPRENEURSHIP (3 cr.) Presents the various steps considered necessary when going into business. Includes areas such as product-service analysis, market research evaluation, setting up books, ways to finance startup, operations of the business, development of business plans, buyouts versus starting from scratch, and franchising. Uses problems and cases to demonstrate implementation of these techniques. Lecture 3 hours per week. Prerequisite: ENF 3 or above.

BUS 125 APPLIED BUSINESS MATHEMATICS (3 cr.) Applies mathematical operations to business process and problems such as wages and payroll, sales and property taxes, check-book records and bank reconciliation, depreciation, overhead, distribution of profit and loss in partnerships, distribution of corporate dividends, commercial discounts, markup, markdown, simple interest, present values, bank discount notes, multiple payment plans, compound interest, annuities, sinking funds, and amortization. Lecture 3 hours per week. Prerequisites: ENF 3 or above, MTH 120 or division approval.

BUS 149 WORKPLACE ETHICS (1 cr.) Provides a broad overview of ethics in the modern day business world including workforce skill building and self-awareness through group discussions. Discusses workplace topics such as diversity, substance abuse, hiring and firing and workplace practices, appropriate dress, communication, business ethics, and interviewing. Lecture 1 hour per week.

BUS 165 SMALL BUSINESS MANAGEMENT (3 cr.) Identifies management concerns unique to small businesses. Introduces the requirements necessary to initiate a small business, and identifies the elements comprising a business plan. Presents information establishing financial and administrative controls, developing a marketing strategy, managing business operations, and the legal and government relationships specific to small businesses. Lecture 3 hours per week. Prerequisites: ENF 3 or above.

BUS 190 COORDINATED INTERNSHIP (1-5 cr.) Supervises on-the-job training in selected business, industrial or service firms coordinated by the college. Credit/practice ratio not to exceed 1:5 hours. May be repeated for credit. Variable hours. HOPE would require 75 contact hours in the internship.

BUS 200 PRINCIPLES OF MANAGEMENT (3 cr.) Teaches management and the management functions of planning, organizing, leading, and controlling. Focuses on application of management principles to realistic situations managers encounter as they attempt to achieve organizational objectives. Lecture 3 hours per week. Prerequisite: ENF 3 or above.

BUS 205 HUMAN RESOURCE MANAGEMENT (3 cr.) Introduces employment, selection, and placement of personnel, forecasting, job analysis, job descriptions, training methods and programs, employee evaluation systems, compensation, benefits, and labor relations. Lecture 3 hours per week. Prerequisite: ENF 3 or above.

BUS 241 BUSINESS LAW I (3 cr.) Develops a basic understanding of the US business legal environment. Introduces property and contract law, agency and partnership liability, and government regulatory law. Students will be able to apply these legal principles to landlord/tenant disputes, consumer rights issues, employment relationships, and other business transactions. Lecture 3 hours per week. Prerequisites: ENF 3 or above.

BUS 280 INTRODUCTION TO INTERNATIONAL BUSINESS I (3 cr.) Studies the problems, challenges, and opportunities which arise when business operations or organizations transcend national boundaries. Examines the functions of international business in the economy, international and transnational marketing, production, and financial operations. Lecture 3 hours per week. Prerequisites: ENF 3 or above.

CHILDHOOD DEVELOPMENT (CHD)

CHD 109 METHODS IN MOVEMENT AND MUSIC EDUCATION FOR CHILDREN (3 cr.) Emphasizes theory and practice in movement and music education and the integration of these skills in a curriculum. Designed for teachers and aides in childcare, preschool, nursery, or primary schools. Lecture 0-3 hours. Laboratory 0-9 hours. Total 3-9 hours per week. Prerequisites: ENF 2.

CHD 118 LANGUAGE ARTS FOR YOUNG CHILDREN (3 cr.) Presents techniques and methods for encouraging the development of language and perceptual skills in young children. Stresses improvement of vocabulary, speech and methods to stimulate discussion. Surveys children’s literature, examines elements of quality storytelling and story reading, and stresses the use of audio-visual materials. Lecture 2 hours. Laboratory 2 hours. Total 4 hours per week. Prerequisites: A placement of ENF 2 or above.

CHD 120 INTRODUCTION TO EARLY CHILDHOOD EDUCATION (3 cr.) Introduces early childhood development through activities and experiences in nursery, pre-kindergarten, kindergarten, and primary programs. Investigates classroom organization and procedures, and use of classroom time and materials, approaches to education for young children,
professionalism, and curricular procedures. Lecture 3 hours per week.

CHD 125 CREATIVE ACTIVITIES FOR CHILDREN (3 cr.) Prepares individuals to work with young children in the arts and other creative age-appropriate activities. Investigates affective group experiences and open-ended activities. Lecture 2 hours. Laboratory 2 hours. Total 4 hours per week.

CHD 126 SCIENCE AND MATH CONCEPTS FOR CHILDREN (3 cr.) Covers the selection of appropriate developmental learning materials for developing activities to stimulate the logical thinking skills in children. Lecture 2-3 hours. Laboratory 0-3 hours. Total 3-4 hours per week. Prerequisites: A placement of ENF 2 or above and MTE 1-3.

CHD 145 TEACHING ART, MUSIC AND MOVEMENT TO CHILDREN (3 cr.) Focuses on children's exploration, play, and creative expression in the areas of art, music, and movement. Emphasis will be on developing strategies for using various open-ended media representing a range of approaches in creative thinking. Addresses strategies for intervention and support for exceptional children and English Language Learners. Lecture 2 hours. Laboratory 2 hours. Total 4 hours per week. Prerequisites: A placement of ENF 2 or above.

CHD 165 OBSERVATION AND PARTICIPATION IN EARLY CHILDHOOD/PRIMARY SETTING (3 cr.) Observes and participates in early childhood settings such as child care centers, pre-schools, Montessori schools or public schools in Kindergarten through 3rd grade levels. Students spend one hour each week in a seminar session in addition to 60 clock hours in the field. May be taken again for credit. Lecture 1 hour. Laboratory 6 hours. Total 7 hours per week.

CHD 205 GUIDING THE BEHAVIOR OF CHILDREN (3 cr.) Explores positive ways to build self-esteem in children and help them develop self-control. Presents practical ideas for encouraging pro-social behavior in children and emphasizes basic skills and techniques in-group management. Lecture 3 hours per week.

CHD 210 INTRODUCTION TO EXCEPTIONAL CHILDREN (3 cr.) Reviews the history of education for exceptional children. Studies the characteristics associated with exceptional children. Explores positive techniques for managing behavior and adapting materials for classroom use. Lecture 3 hours per week.

CHD 220 INTRODUCTION TO SCHOOL-AGE CHILD CARE (3 cr.) Examines the purposes of school-age child care in today's society, the role of adults within school-age child care, and the state of the profession of school-age child care. Lecture 3 hours per week.

CHD 225 CURRICULUM DEVELOPMENT FOR SCHOOL-AGE CHILD CARE (3 cr.) Explores the creative activities, techniques, interactions, and program development that promote positive social and emotional growth in school-age children. Emphasizes positive development through everyday programming and experiences. Lecture 3 hours per week.

CHD 230 BEHAVIOR MANAGEMENT FOR SCHOOL-AGE CHILD CARE (3 cr.) Discusses the development of social skills that school-age children need for self-management, including self-discipline, self-esteem, and coping with stress and anger. Explores ways to effectively guide and discipline school-age children, focusing on how adults can facilitate positive pro-social and self-management skills. Lecture 3 hrs. per week.

CHD 235 HEALTH & RECREATION FOR SCHOOL-AGE CHILD CARE (3 cr.) Examines the physical growth of school-age children and the role of health and recreation in school-age child development. Explores the use of medication, misuse of drugs, health issues of children, and the availability of community resources. Lecture 3 hours per week.

CHD 265 OBSER. AND PART, IN EARLY CH/PRIMARY SETTINGS (3 cr.) Observes and participates in early childhood settings such as child care centers, pre-school, Montessori schools, or public school settings (kindergarten through third grade). Emphasizes planning and implementation of appropriate activities and materials for children. Students will spend one hour each week in a seminar session in addition to 60 clock hours in the field. May be taken again for credit. Lecture 1 hour. Laboratory 6 hours. Total 7 hours per week.

CHD 270 ADMINISTRATION OF EARLY CHILDHCARE PROGRAMS (3 cr.) Examines the skills needed for establishing and managing early childhood programs. Emphasizes professionalism and interpersonal skills, program planning, staff selection and development, creating policies, budgeting, and developing forms for record keeping. Lecture 3 hours per week.

CHEMISTRY (CHM)

CHM 101 GENERAL CHEMISTRY I (4 cr.) Emphasizes experimental and theoretical aspects of inorganic, organic, and biological chemistry. Discusses general chemistry concepts as they apply to issues within our society and environment. Designed for the non-science major. Part I of II. Lecture 3 hours. Laboratory 3 hours. Total 6 hours per week. Prerequisites: ENF 3 or above, MTE 1-9.

CHM 102 GENERAL CHEMISTRY II (4 cr.) Emphasizes experimental and theoretical aspects of inorganic, organic, and biological chemistry. Discusses general chemistry concepts as they apply to issues within our society and environment. Designed for the non-science major. Part II of II. Lecture 3 hours. Laboratory 3 hours. Total 6 hours per week. Prerequisite: CHM 101.

CHM 110 SURVEY OF CHEMISTRY (3 cr.) Introduces the basic concepts of general, organic, and biochemistry with emphasis on their applications to other disciplines. No previous chemistry background required. Lecture 3 hours per week. Prerequisites: ENF 2 or above, MTE 1-3.

CHM 111 COLLEGE CHEMISTRY I (4 cr.) Explores the fundamental laws, theories, and mathematical concepts of chemistry. Designed primarily for science and engineering majors. Requires a strong background in mathematics. Part I of II. Lecture 3 hours. Laboratory 3 hours. Total 6 hours per week. Prerequisites: ENF 3 or above, Co-requisite: MTH 163.

CHM 112 COLLEGE CHEMISTRY II (4 cr.) Explores the fundamental laws, theories, and mathematical concepts of chemistry. Designed primarily for science and engineering majors. Requires a strong background in mathematics. Part II of II. Lecture 3 hours. Laboratory 3 hours. Total 6 hours per week. Prerequisite: CHM 111.

CHM 241 ORGANIC CHEMISTRY I (3 cr.) Introduces fundamental chemistry of carbon compounds, including structures, physical properties, syntheses, and typical reactions. Emphasizes reaction mechanisms. Corequisite CHM 243, Part I of II. Lecture 3 hours per week. Prerequisite: CHM 112.

CHM 242 ORGANIC CHEMISTRY II (3 cr.) Introduces fundamental chemistry of carbon compounds, including structures, physical properties, syntheses, and typical reactions. Emphasizes reaction mechanisms. Corequisite CHM 244. Part II
of II. Lecture 3 hours per week. Prerequisite: CHM 241.

CHM 243 ORGANIC CHEMISTRY LABORATORY I (1 cr.) Is taken concurrently with CHM 241 and CHM 242. Part I of II Laboratory 3 hours per week.

CHM 244 ORGANIC CHEMISTRY LABORATORY II (1 cr.) Is taken concurrently with CHM 241 and CHM 242. Part II of II Laboratory 3 hours per week.

CHINESE (CHI)

CHI 101 - BEGINNING CHINESE I (5 cr.) Introduces understanding, speaking, reading, and writing skills; emphasizes basic Chinese sentence structure. Prerequisite: Part I of II. Lecture 5 hours per week.

CHI 102 - BEGINNING CHINESE II (5 cr.) Introduces understanding, speaking, reading, and writing skills; emphasizes basic Chinese sentence structure. Prerequisite: CHI 101 Part II of II. Lecture 5 hours per week.

COMMUNICATION STUDIES AND THEATRE (CST)

CST 110 INTRODUCTION TO COMMUNICATION (2-3 cr.) Examines the elements affecting speech communication at the individual, small group and public communication levels with emphasis on practice of communication at each level. Lecture 2-3 hours per week. Prerequisites: ENF 2.

CST 115 SMALL GROUP COMMUNICATION (3 cr.) Emphasizes the development of presentational ability in a group, decision-making, group maintenance, and leadership and participant skills. Incorporates a preliminary study of group dynamics. Lecture 3 hours per week.

CST 130 INTRODUCTION TO THE THEATRE (3 cr.) Surveys the principles of drama, the development of theatre production, and selected plays to acquaint the student with various types of theatrical presentations. Lecture 3 hours per week.

CST 131 ACTING I (3 cr.) Develops personal resources and explores performance skills through such activities as theatre games, role playing, improvisation, work on basic script units, and performance of scenes. Part I of II. Lecture 2 hours. Laboratory 3 hours. Total 5 hours per week.

CST 132 ACTING II (3 cr.) Develops personal resources and explores performance skills through such activities as theatre games, role playing, improvisation, work on basic script units, and performance of scenes. Part II of II. Lecture 2 hours. Laboratory 3 hours. Total 5 hours per week.

CST 136 THEATRE WORKSHOP (1-6 cr.) Enables students to work in various activities of play production. The student participates in performance, set design, stage carpentry, sound, costuming, lighting, stage-managing, props, promotion, or stage crew. May be repeated for credit. Variable hours per week.

CST 231 HISTORY OF THEATRE I (3 cr.) Analyzes and studies theatre history to include architecture, performers and performance, playwrights, stage, production methods, and audience from the Greeks through modern drama. Part I of II. Lecture 3 hours per week. Prerequisite: ENF 3 or above.

COSMETOLOGY (COS)

COS 81 COSMETOLOGY THEORY I (4 cr) Covers bacteriology, finger waving, sterilization and sanitation, wet hair styling, draping, shampooing and rinsing, permanent waving, haircutting, and properties of the scalp and hair. Lecture 4 hours per week.

COS 82 COSMETOLOGY THEORY II (5 cr) Covers hair coloring, theory of massage, the salon business, chemical hair relaxing and soft curl permanent, facial and facial make-up, hair pressing, skin and its disorders, artistry and artificial nails, cells, anatomy and physiology, manicuring and pedicure, electricity and light therapy, nail and its disorders, chemistry and the State Board Review. Lecture 5 hours per week.

COMPUTER SCIENCE (CSC)

CSC 100 - INTRODUCTION TO COMPUTER SCIENCE (3-4 cr.) Provides broad introduction to computer science. Discusses architecture and function of computer hardware, including networks and operating systems, data and instruction representation and data organization.

CSC 110 INTRODUCTION TO COMPUTING (3 cr.) Introduces problem solving through computer applications and a programming language. Examines development of computers, social and ethical implications of computers, and properties of programming languages. Covers input, storage, data manipulation, software and hardware. Lecture 3 hours per week. Prerequisite: ENF 3 or above, MTE 1-3.

CSC 200 - INTRODUCTION TO COMPUTER SCIENCE (3-4 cr.) Surveys computer-aided drafting equipment and concepts. Develops general under-standing of components, operations and use of a typical CAD system. Lecture 2 hours. Laboratory 2-3 hours. Total 4-6 hours per week. Prerequisite: ENF 3 or above, MTE 1-3.

CSC 201 - COMPUTER SCIENCE I (4 cr.) Introduces algorithm and problem solving methods. Emphasizes structured programming concepts, elementary data structures and the study and use of a high level programming language. Corequisite CSC 100 or equivalent and MTH 173 or equivalent or divisional approval. Lecture 4 hours per week. Prerequisite: ENF 3 or above, MTE 1-5.

CSC 202 - COMPUTER SCIENCE II (4 cr.) Examines data structures and algorithm analysis. Covers data structures (including sets, strings, stacks, queues, arrays, records, files, linked lists, and trees), abstract data types, algorithm analysis (including searching and sorting methods), and file structures. Prerequisite CSC 201 or MTH 174, ENF 3 or above, MTE 1-5. Lecture 4 hours per week.

CSC 205 - COMPUTER ORGANIZATION (3-4 cr.) Examines the hierarchical structure of computer architecture. Focuses on multi-level machine organization. Uses a simple assembler language to complete programming projects. Includes processors, instruction, execution, addressing techniques, data representation and digital logic. Prerequisite: ENF 3 or above, MTE 1-5. Lecture 3-4 hours per week.

COMPUTER AIDED DRAFTING & DESIGN (CAD)

CAD 111 TECHNICAL DRAFTING I (2-3 cr.) Introduces technical drafting from the fundamentals through advanced drafting practices. Teaches lettering, metric construction, technical sketching, orthographic projection, sections, intersections, development, fasteners, theory and applications of dimensioning and tolerances. Includes pictorial drawing, and preparation of working and detailed drawings. Lecture 1-2 hours. Laboratory 2-6 hours. Total 3-7 hours per week.

CAD 200 SURVEY OF COMPUTER AIDED DRAFTING (3-4 cr.) Surveys computer-aided drafting equipment and concepts. Develops general under-standing of components, operations and use of a typical CAD system. Lecture 2 hours. Laboratory 2-3 hours. Total 4-6 hours per week. Prerequisite: ENF 3 or above, MTE 1-3.
CAD 202 COMPUTER AIDED DRAFTING AND DESIGN II (3-4 cr.) Teaches production drawings and advanced operations in computer-aided drafting. Lecture 2-3 hours. Laboratory 2-3 hours. Total 4-6 hours per week. Prerequisites: ENF 3 or above, MTE 1-6.

CAD 203 COMPUTER AIDED DRAFTING AND DESIGN III (3-4 cr.) Teaches advanced CAD applications. Includes customization and/or use of advanced software. Lecture 2-3 hours. Laboratory 2-3 hours. Total 4-6 hours per week. Prerequisites: ENF 3 or above, MTE 1-6.

CAD 226 COMPUTER AIDED MACHINING (3-4 cr.) Teaches use of software to create numerical machine code to drive CNC milling machines or lathes. Introduces software and techniques to create, edit and produce CAD drawings, tool paths, and the numerical code for a CAM machine. Includes history, applications, hardware and software requirements, terminology, limitation and future trends. Lecture 2-3 hours. Laboratory 2 hours. Total 4-5 hours per week.

CAD 232 COMPUTER AIDED DRAFTING II (2-3 cr.) Teaches advanced operation in computer-aided drafting. Prerequisite: CAD 231. Lecture 1-2 hours. Laboratory 2-3 hours. Total 3-5 hours per week.

CAD 233 COMPUTER AIDED DRAFTING III (2-3 cr.) Exposes student to 3-D and modeling. Focuses on proficiency in Production drawing using a CAD system. Lecture 1-2 hours. Laboratory 2-3 hours. Total 3-5 hours per week.

CAD 238 COMPUTER-AIDED MODELING AND RENDERING I (2-3 cr.) Focuses on training students in the contemporary techniques of 3D modeling, rendering, and animation on the personal computer. Introduces the principles of visualization, sometimes known as photo-realism, which enables the student to create presentation drawings for both architectural and industrial product design. Uses computer animation to produce walk-throughs that will bring the third dimension to architectural designs. Part I of II. Lecture 1-2 hours. Laboratory 0-2 hours. Total 2-4 hours per week.

CAD 239 COMPUTER-AIDED MODELING AND RENDERING II (2-3 cr.) Focuses on training students in the contemporary techniques of 3D modeling, rendering, and animation on the personal computer. Introduces the principles of visualization, sometimes known as photo-realism, which enables the student to create presentation drawings for both architectural and industrial product design. Uses computer animation to produce walk-throughs that will bring the third dimension to architectural designs. Part II of II. Lecture 1-2 hours. Laboratory 0-2 hours. Total 2-4 hours per week.

CAD 241 PARAMETRIC SOLID MODELING I (3-4 cr.) Focuses on teaching students the design of parts by parametric solid modeling. Topics covered will include, but not be limited to, sketch profiles; geometric and dimensional constraints; 3-D features; model generation by extrusion, revolution and sweep; and the creation of 2-D drawing views that include sections, details and auxiliary. Part I of II. Lecture 3-4 hours. Laboratory 0-3 hours. Total 3-7 hours per week.

CAD 242 PARAMETRIC SOLID MODELING II (3-4 cr.) Focuses on teaching students the design of parts by parametric solid modeling. Topics covered will include, but not be limited to, sketch profiles; geometric and dimensional constraints; 3-D features; model generation by extrusion, revolution and sweep; and the creation of 2-D drawing views that include sections, details and auxiliary. Part II of II. Lecture 3-4 hours. Laboratory 0-3 hours. Total 3-7 hours per week.

CAD 280 DESIGN CAPSTONE PROJECT (2-3 cr.) Focuses on design projects developed independently and in consultation with the Instructor. Topics covered but not limited to, parametric modeling, civil, mechanical piping, architectural applications, structural, electro-mechanical, 3-D Solids, exploration of application software and the integration of CAD/CAM. Prerequisites: CAD 211 or 212 and CAD 201-199. Lecture 2-3 hours per week.

ECONOMICS (ECO)

ECO 201 PRINCIPLES OF MACROECONOMICS (3 cr.) Introduces macroeconomics including the study of Keynesian, classical, monetarist principles and theories, the study of national economic growth, inflation, recession, unemployment, financial markets, money and banking, the role of government spending and taxation, along with international trade and investments. Lecture 3 hours per week. Prerequisites: ENF 3 or above, MTE 1-3.

ECO 202 PRINCIPLES OF MICROECONOMICS (3 cr.) Introduces the basic concepts of microeconomics. Explores the free market concepts with coverage of economic models and graphs, scarcity and choices, supply and demand, elasticities, marginal benefits and costs, profits, and production and distribution. Lecture 3 hours per week. Prerequisites: ENF 3 or above, MTE 1-3.

EDUCATION (EDU)

EDU 200 INTRODUCTION TO TEACHING AS A PROFESSION (3 cr.) Provides an orientation to the teaching profession in Virginia, including historical perspectives, current issues, and future trends in education on the national and state levels. Emphasizes information about teacher licensure examinations, steps to certification, teacher preparation and induction programs, and attention to critical shortage areas in Virginia. Includes supervised field placement (recommended: 40 clock hours) in a K-12 school. Prerequisite: Successful completion of 24 credits of transfer courses. Lecture 2 hours. Laboratory 2 hours. Total 4 hours per week. Prerequisites: All Developmental English requirements met.

EDU 225 AUDIOVISUAL MATERIALS AND COMPUTER SOFTWARE (3 cr.) Prepares students to construct graphic teaching aids, to select and develop materials for instructional support, to operate, maintain and use audiovisual equipment used in the classroom. Lecture 2 hours. Laboratory 2 hours. Total 4 hours per week. Prerequisites: All Developmental English requirements met.

EDU 235 HEALTH, SAFETY, AND NUTRITIONAL EDUCATION (3 cr.) Focuses on the health and developmental needs of children and the methods by which these needs are met. Emphasizes positive health, hygiene, nutrition and feeding routines, childhood diseases, and safety issues. Emphasizes supporting the mental and physical well being of children, as well as procedures for reporting child abuse. Lecture 3 hours per week. Prerequisites: A placement of ENF 3 or above.

ENGINEERING (EGR)

EGR 120 INTRODUCTION TO ENGINEERING (1-2 cr.) Introduces the engineering profession, professional concepts, ethics, and responsibility. Reviews hand calculators, number systems, and unit conversions. Introduces the personal computer and operating systems. Includes engineering problem solving techniques using computer software. Lecture 0-2 hours. Laboratory 0-3 hours. Total 1-4 hours.
per week. Prerequisites: ENF 3 or above, MTE 1-6.

EGR 123 - INTRODUCTION TO ENGINEERING DESIGN (2 CR.) Introduces the fundamental knowledge and experience needed to understand the engineering design process through the basics of electrical, computer, and mechanical systems. Includes the completion of a project in which a specific electromechanical robot kit will be analyzed, assembled, and operated. Lecture 1 hour. Laboratory 2 hours. Total 3 hours per week.

EGR 136 - STRENGTH OF MATERIALS FOR ENGINEERING TECHNOLOGY (3 CR.) Presents concepts of stress and strain. Focuses on analysis of stresses and deformations in loaded members, connectors, shafts, beams, columns and combined stress. Lecture 3 hours per week.

EGR 140 - ENGINEERING MECHANICS - STATICS (3 CR.) Introduces mechanics of vector forces and space, scalar mass and time, including S.I. and U.S. customary units. Teaches equilibrium, free-body diagrams, moments, couples, distributed forces, centroids, moments of inertia analysis of two- force and multi-force members and frictional and internal forces. Lecture 3 hours per week.

EGR 206 ENGINEERING ECONOMICS (2-3 cr.) Presents economic analysis of engineering alternatives. Studies economic and cost concepts, calculation of economic equivalence, comparison of alternatives, replacement economy, economic optimization in design and operation, depreciation, and after tax analysis. Lecture 2-3 hours per week.

EGR 216 - COMPUTER METHODS IN ENGINEERING AND TECHNOLOGY (3 CR.) Provides advanced level experience in using a computer as a tool for solving technical problems and performing office functions. Includes computer hardware and operating system usage, structured programming in a selected high level language, use of word processing software, computer graphics and spreadsheets. Focuses on the analysis and solution of problems in engineering and technology. Lecture 2 hours. Laboratory 2 hours. Total 4 hours per week.

EGR 277 - DIGITAL LOGIC (3 CR.) Presents an introduction to digital logic, including such topics as number systems, Boolean Algebra, minimization techniques, implementation of digital functions, sequential machines, state diagrams, state tables, and programmable logic devices. Lecture 3 hours per week. Lecture 3 hours per week. 3 credits

EGR 285 CAPSTONE PROJECT (1 cr.) Provides a capstone research project for the final semester of the program, focusing inquiry upon an area of interest to the student or area relevant to their prospective career field. May include problem based research topics, internships, or other focused projects. Prerequisite: IND 290. Lecture 1 hour per week.

ELECTRICAL TECHNOLOGY (ELE)

ELE 110 HOME ELECTRIC POWER (3 cr.) Covers the fundamentals of residential power distribution, circuits, panels, fuse boxes, breakers, transformers. Includes study of the national electrical code, purpose and interpretation. Lecture 2 hours. Laboratory 2 hours. Total 4 hours per week.

ELE 113 ELECTRICITY I (3 cr.) (3 cr.) Teaches principles of electricity covering fundamentals, devices and components in both DC and AC circuits. Part I of II. Lecture 3 hours per week.

ELE 114 ELECTRICITY II (3 cr.) (3 cr.) Teaches principles of electricity covering fundamentals, devices and components in both DC and AC circuits. Part II of II. Lecture 3 hours per week.

ELE 115 BASIC ELECTRICITY (3 cr.) Covers basic circuits and theory of fundamental concepts of electricity. Presents a practical approach to discussion of components and devices. Prerequisite: MTH 02 or equivalent. Lecture 2-3 hours per week. Prerequisites: A placement of ENF 2 or above and MTE 1-3.

ELE 133 PRACTICAL ELECTRICITY II (3 cr.) (3 cr.) Teaches the fundamentals of electricity, terminology, symbols and diagrams. Includes the principles essential to the understanding of general practices, safety and practical aspects of residential and non-residential wiring and electrical installation, including fundamentals of motors and controls. Part I of II. Lecture 2 hours. Laboratory 2 hours. Total 4 hours per week. Pre/Corequisite MTE 1-3.

ELE 134 PRACTICAL ELECTRICITY II (3 cr.) (3 cr.) Teaches the fundamentals of electricity, terminology, symbols and diagrams. Includes the principles essential to the understanding of general practices, safety and practical aspects of residential and non-residential wiring and electrical installation, including fundamentals of motors and controls. Part II of II. Lecture 2 hours. Laboratory 2 hours. Total 4 hours per week. Pre/Corequisite MTE 1-3.

ELE 195 APPLICATIONS IN MOTOR CONTROL (3 cr.) Studies electrical safety, three phase power & motors, manual motor control and protection, control ladder logic, troubleshooting, input devices, timers and other areas.

ELE 216 INDUSTRIAL ELECTRICITY (3-4 cr.) Studies rotating devices, single phase and polyphase distribution, magnetic devices, circuits and systems for industrial applications. Lecture 2-3 hours. Laboratory 3 hours. Total 5-6 hours per week.

ELE 225 ELECTRICAL CONTROL SYSTEMS (4 cr.) Studies components, equipment and circuits that are used to control the operation of electrical machines. Explains the physical and operating characteristics of various electromagnetic, static, and programmable control devices. Investigates control schemes used to accomplish specific control objectives. Lecture 3 hours. Laboratory 3 hours. Total 6 hours per week. Prerequisite: ELE 217 or equivalent.

ELE 246 - INDUSTRIAL ROBOTICS PROGRAMMING (3 CR.) Introduces...
industrial robotics and their programming for repetitive manufacturing systems. Includes the design of software that ensures safe operation and programming of both on- and off-line robot operations. This course is cross-listed with IND 246. Credit will not be awarded for both. Prerequisite: EGR 216. Lecture 2 hours. Lab 2 hours. Total 4 hours per week.

EMERGENCY MEDICAL SERVICES (EMS)

EMS 111 EMERGENCY MEDICAL TECHNICIAN - BASIC (7 cr.) Prepares student for certification as a Virginia and National Registry EMT. Focuses on all aspects of pre-hospital basic life support as defined by the Virginia Office of Emergency Medical Services curriculum for Emergency Medical Technician. Co-requisite: EMS-120. Prerequisite: CPR certification at the Health Care Provider level. Lecture 5 hours. Laboratory 4 hours. Total 9 hours per week.

EMS 120 EMERGENCY MEDICAL TECHNICIAN-BASIC CLINICAL (1 cr.) Observes in a program approved clinical/field setting. Includes topics for both EMS 111 and EMS 113, dependent upon the program in which the student is participating and is a co-requisite to both EMS 111 and EMS 113. Lab 2 hours per week.

EMS 151 INTRODUCTION TO ADVANCED LIFE SUPPORT (4 cr.) Prepares the student for Virginia Enhanced certification eligibility and begins the sequence for National Registry Intermediate and/or Paramedic certification. Includes the theory and application of the following: foundations, human systems, pharmacology, overview of shock, venous access, airway management, patient assessment, respiratory emergencies, allergic reaction, and assessment based management. Conforms to the Virginia Office of Emergency Medical Services curriculum. Prerequisites: ENF 1 or 2, MTE 1 and MTE 2, EMT Certification. Co-requisite: EMS-170 ALS Internship I. Lecture 3 hours. Laboratory 2 hours. Total 5 hours per week.

EMS 153 BASIC ECG RECOGNITION (2 cr.) Focuses on the interpretation of basic electrocardiograms (ECG) and their significance. Includes an overview of anatomy and physiology of the cardiovascular system including structure, function and electrical conduction in the heart. Covers advanced concepts that build on the knowledge and skills of basic dysrhythmia determination and introduction to 12 lead ECG. Lecture 2 hours per week.

EMS 155 ALS – MEDICAL CARE (4 cr.) Continues the Virginia Office of Emergency Medical Services Intermediate and/or Paramedic curricula. Includes ALS pharmacology, drug and fluid administration with emphasis on patient assessment, differential diagnosis and management of multiple medical complaints. These include, but are not limited to conditions relating to cardiac, diabetic, neurological, non-traumatic abdominal pain, environmental, behavioral, gynecology, and toxicological disease conditions. Prerequisites: Current EMT certification, EMS-151 and EMS-153. Lecture 3 hours. Laboratory 2 hours. Total 5 hours per week.

EMS 157 ALS – TRAUMA CARE (3 cr.) Continues the Virginia Office of Emergency Medical Services Intermediate and/or Paramedic curricula. Utilizes techniques which will allow the student to utilize the assessment findings to formulate a field impression and implement the treatment plan for the trauma patient. Prerequisites: Current EMT certification and EMS-151. Lecture 2 hours. Laboratory 2 hours. Total 4 hours per week.

EMS 159 ALS – SPECIAL POPULATIONS (3 cr.) Continues the Virginia Office of Emergency Medical Services Intermediate and/or Paramedic curricula. Focuses on the assessment and management of specialty patients including obstetrical, neonates, pediatric, and geriatrics. Prerequisites: EMS-151 and EMS-153. Pre or co-requisite: EMS-155. Lecture 2 hours. Laboratory 2 hours. Total 4 hours per week.

EMS 161 INTERNATIONAL TRAUMA LIFE SUPPORT (ITLS) (1 cr.) Offers instruction for students in current topics of care for trauma patients and offers certification as an International Trauma Life Support Provider (ITLS) as defined by the American College of Emergency Physicians. Prerequisite: Current certification/licensure as an EMS provider or other associated healthcare field. Lecture 1 hour per week.

EMS 165 ADVANCED CARDIAC LIFE SUPPORT (ACLS) (1 cr.) Prepares for certification as an Advanced Cardiac Life Support provider. Follows course as defined by the American Heart Association. Prerequisites: EMS 100 and EMS 153, or equivalent. Lecture 1 hour per week.

EMS 168 EMERGENCY PEDIATRIC CARE (PEPP) (1 cr.) Prepares the student for certification as a prehospital pediatric care provider as defined by the American Academy of Pediatrics. Covers primary assessment and emergency care of infants and children. Lecture 1 hour per week.

EMS 169 PEDIATRIC ADVANCED LIFE SUPPORT (PALS) (1 cr.) Prepares the student for certification as a pediatric advanced life support provider as defined by the American Heart Association. Covers primary assessment and emergency care of infants and children. Lecture 1 hour per week.

EMS 170 ALS INTERNESHIP I (1-2 cr.) Begins the first in a series of clinical experiences providing supervised direct patient contact in appropriate patient care facilities in and out of hospitals. Includes but not limited to patient care units such as the Emergency Department, Critical Care units, Pediatric, Labor and Delivery, Operating Room, Trauma Centers and various advanced life support units. Co-requisite: EMS 151. Laboratory 3-6 hours per week.

EMS 172 ALS CLINICAL INTERNESHIP II (1-2 cr.) Continues with the second in a series of clinical experiences providing supervised direct patient contact in appropriate patient care facilities in and out of hospitals. Includes but not limited to patient care units such as the Emergency Department, Critical Care units, Pediatric, Labor and Delivery, Operating Room and Trauma Centers. Pre-requisite: EMS-151. Laboratory 3-6 hours per week.

EMS 173 ALS FIELD INTERNESHIP II (1 cr.) Continues with the second in a series of field experiences providing supervised direct patient care in out-of-hospital advanced life support units. Laboratory 3 hours per week.

EMS 195 TOPICS IN (1 cr.) Provides an opportunity to explore topical areas of interest to or needed by students. Offers instruction for students in current topics of care for medical patients and offers certification as an Advanced Medical Life Support Provider (AMLS) as defined by the National Association of Emergency Medical Technicians. Prerequisite: Current certification/licensure as an EMS provider or other associated healthcare field. Lecture 1 hour per week.

EMS 201 EMS PROFESSIONAL DEVELOPMENT (3 cr.) Prepares students for Paramedic certification at the National Registry level by fulfilling community activism, personal wellness, resource management, ethical considerations in
leadership and research objectives in the Virginia Office of Emergency Medical Services Paramedic curriculum. Lecture 3 hours per week.

EMS 205 ADVANCED PATHOPHYSIOLOGY (4 cr.) Focuses on the pathological processes of disease with emphasis on the anatomical and physiological alterations of the human body by systems. Includes diagnosis and management appropriate to the advanced health care provider in and out of the hospital environment. Pre or co-requisite: NAS 150. Lecture 4 hours per week.

EMS 207 ADVANCED PATIENT ASSESSMENT (3 cr.) Focuses on the principles of normal and abnormal physical examination. Emphasizes the analysis and interpretation of physiological data to assist in patient assessment and management. Applies principles during the assessment and management of trauma, medical, and specialty patients in laboratory environment. Lecture 2 hours. Laboratory 2 hours. Total 4 hours per week.

EMS 209 ADVANCED PHARMACOLOGY (4 cr.) Focuses on the principles of pharmacokinetics, pharmacodynamics and drug administration. Includes drug legislation, techniques of medication administration, and principles of math calculations. Emphasizes drugs used to manage respiratory, cardiac, neurological, gastrointestinal, fluid and electrolyte and endocrine disorders and includes classification, mechanism of action, indications, contra-indications, precautions, and patient education. Incorporates principles related to substance abuse and hazardous materials. Applies principles during the assessment and management of trauma, medical, and specialty patients in laboratory environment. Pre-requisite: NAS 150. Lecture 3 hours. Laboratory 2 hours. Total 5 hours per week.

EMS 211 OPERATIONS (2 cr.) Prepares the student in the theory and application of the following: medical incident command, rescue awareness and operations, hazardous materials incidents, and crime scene awareness. (Conforms to the current Virginia Office of Emergency Medical Services curriculum for paramedics.) Lecture 1 hour. Laboratory 2 hours. Total 3 hours per week.

EMS 213 ALS SKILLS DEVELOPMENT (1-2 cr.) Utilizes reinforcement and remediation of additional advanced life support skills, as needed. Laboratory 2-4 hours per week.

EMS 216 PARAMEDIC REVIEW (1 cr.) Provides the student with intensive review for the practical and written portions of the National Registry Paramedic exam. May be repeated once, for credit. Lecture 1 hour per week.

EMS 242 ALS CLINICAL INTERNSHIP III (1-2 cr.) Continues with the third in a series of clinical experiences providing supervised direct patient contact in appropriate patient care facilities in and out of hospitals. Includes but not limited to patient care units such as the Emergency Department, Critical Care units, Pediatric, Labor and Delivery, Operating Room, Trauma Centers and various advanced life support units. Laboratory 3-6 hours per week.

EMS 243 ALS FIELD INTERNSHIP III (1-2 cr.) Continues with the third in a series of field experiences providing supervised direct patient care in out-of-hospital advanced life support units. Laboratory 3-6 hours per week.

EMS 244 ALSCLINICAL INTERNSHIP IV (1-2 cr.) The fourth in a series of clinical experiences providing supervised direct patient contact in appropriate patient care facilities in and out of hospitals. Includes but not limited to patient care units such as the Emergency Department, Critical Care units, Pediatric, Labor and Delivery, Operating Room and Trauma Centers. May be repeated as necessary. Laboratory 3-6 hours per week.

EMS 245 ALS FIELD INTERNSHIP IV (1-2 cr.) Continues with the fourth in a series of field experiences providing supervised direct patient care in out-of-hospital advanced life support units. May be repeated as necessary. Laboratory 3-6 hours per week.

EMS 299 SUPERVISED STUDY (1 cr.) Assigns problems for independent study incorporating previous instruction and supervised by the instructor. May be repeated for credit.

ENERGY TECHNOLOGY (ENE)

ENE 105 SOLAR THERMAL ACTIVE AND PASSIVE TECHNOLOGY (4 cr.) Provides a comprehensive study of thermal technology as it applies to collector type and ratings, open-loop versus closed-loop and system sizing. Introduces hydronics, hot water, and pool heating applications. Provides an introduction to fluid dynamics and chemistry and as it applies to system installation and maintenance. Lecture 3 hours. Laboratory 3 hours. Total 6 hours per week.

ENE 230 GEOTHERMAL APPLICATIONS (3-4 cr.) Studies the use of geothermal energy for large and small scale production. Covers the feasibility of heat pump applications for local use on an individual basis. Lecture 3 hours. Lab 3 hours. Total 6 hours per week.

ENGLISH FUNDAMENTALS (ENF)

ENF 1 PREPARING FOR COLLEGE ENGLISH I (8 cr.) Provides integrated reading and writing instruction for students who require extensive preparation to succeed in college level English courses. Students will place into this course based on placement test score. Upon successful completion and faculty recommendation, students will move into Preparing for College English II (if they require additional preparation) or into college-level English (if they require no additional preparation). Credit is not applicable toward graduation. Lecture 8 hours per week. Credits 8, Lecture 8, Contact Hours 8 Qualifying placement test score. 8 credits

ENF 2 PREPARING FOR COLLEGE ENGLISH II (4 cr.) Provides integrated reading and writing instruction for students who require intermediate preparation to succeed in college-level English courses. Students will place into this course based on placement test score. Upon successful completion and faculty recommendation, students will move into Preparing for College Level III (if they require additional preparation) or into college-level English (if they require no additional preparation). Credit is not applicable toward graduation. 4 Credits, 4 Lecture, 4 Contact Hours Qualifying placement test score. 4 credits

ENF 3 PREPARING FOR COLLEGE ENGLISH III (2 cr.) Provides integrated reading and writing instruction for students who require minimal preparation for college-level English but still need some preparation to succeed. Students in this course will be co-enrolled in college-level English. Students will place into this course based on placement test score. Credit is not applicable toward graduation. Credits 2, Lecture 2, Contact Hours 2 Qualifying placement score. Co-Enrollment in a college-level English course. 2 credits

ENGLISH (ENG)

ENG 105 COMMUNICATION IN BUSINESS AND INDUSTRY (1-6 cr.) Develops ability to communicate effectively in business and industry, emphasizing gathering, organizing, and transmitting information. Primarily for non-curricular, on-site use in business and industry. Variable hours per week.
ENG 111 COLLEGE COMPOSITION I (3 cr.)
Introduces students to critical thinking and the fundamentals of academic writing. Through the writing process, students refine topics; develop and support ideas; investigate, evaluate, and incorporate appropriate resources; edit for effective style and usage; and determine appropriate approaches for a variety of contexts, audiences, and purposes. Writing activities will include exposition and argumentation with at least one researched essay. Lecture 3 hours per week. Prerequisites: ENF 3 or above, satisfactory score on appropriate English proficiency examination and four units of high school English or equivalent.

ENG 112 COLLEGE COMPOSITION II (3 cr.)
Continues to develop college writing with increased emphasis on critical essays, argumentation, and research, developing these competencies through the examination of a range of texts about the human experience. Requires students to locate, evaluate, integrate, and document sources and effectively edit for style and usage. Lecture 3 hours per week. Prerequisites: ENF 3 or above, satisfactory score on appropriate English proficiency examination and four units of high school English or equivalent. CANNOT be taken out of sequence.

ENG 113 TECHNICAL REPORT WRITING I (3 cr.)
Offers a review of organizational skills including paragraph writing and basic forms of technical communications, various forms of business correspondence, and basic procedures for research writing. Includes instruction and practice in oral communication skills. Lecture 3 hours per week. Prerequisites: ENF 3 or above.

ENG 210 ADVANCED COMPOSITION (3 cr.)
Helps students refine skills in writing non-fiction prose. Guides development of individual voice and style. Introduces procedures for publication. Prerequisite ENG 112 or divisional approval. Lecture 3 hours per week.

ENG 241 SURVEY OF AMERICAN LITERATURE I (3 cr.)
Examines American literary works from colonial times to the present, emphasizing the ideas and characteristics of our national literature. Involves critical reading and writing. Prerequisite ENG 112 or divisional approval. Part II of II. Lecture 3 hours per week. May be taken out of sequence.

ENG 242 SURVEY OF AMERICAN LITERATURE II (3 cr.)
Examines American literary works from colonial times to the present, emphasizing the ideas and characteristics of the British literary tradition. Involves critical reading and writing. Prerequisite ENG 112 or divisional approval. Part I of II. Lecture 3 hours per week. May be taken out of sequence.

ENG 243 SURVEY OF ENGLISH LITERATURE I (3 cr.)
Studies major English works from the Anglo-Saxon period to the present, emphasizing ideas and characteristics of the British literary tradition. Involves critical reading and writing. Prerequisite ENG 112 or divisional approval. Part I of II. Lecture 3 hours per week. May be taken out of sequence.

ENG 244 SURVEY OF ENGLISH LITERATURE II (3 cr.)
Studies major English works from the Anglo-Saxon period to the present, emphasizing ideas and characteristics of the British literary tradition. Involves critical reading and writing. Prerequisite ENG 112 or divisional approval. Part II of II. Lecture 3 hours per week. May be taken out of sequence.

ENG 245 SURVEY OF AFRICAN-AMERICAN LITERATURE I (3 cr.)
Examines selected works by Black American writers from the colonial period to the present. Involves critical reading and writing. Prerequisite ENG 112 or divisional approval. Part I of II. Lecture 3 hours per week. May be taken out of sequence.

ENG 246 SURVEY OF AFRICAN-AMERICAN LITERATURE II (3 cr.)
Examines selected works by Black American writers from the colonial period to the present. Involves critical reading and writing. Prerequisite ENG 112 or divisional approval. Part II of II. Lecture 3 hours per week. May be taken out of sequence.

ENV 100 BASIC ENVIRONMENTAL SCIENCE (ENV)
(3 cr.)
Prerequisite: ENG 112 or divisional approval. Part II of II. Lecture 3 hours per week. May be taken out of sequence.

ENF 227 - ENVIRONMENTAL LAW (2-3 cr.)
Introduces environmental law including the history of environmental laws, the National Environment Policy Act, state environmental acts, hazardous wastes, endangered species, pollution, and surface mine reclamation. Lecture 2-3 hours per week. Prerequisite: ENF 3 or above.

ENGLISH AS A SECOND LANGUAGE (ESL)

ESL 10 ENGLISH AS A SECOND LANGUAGE I (2 cr.)
Provides intensive instruction at the beginning level. Includes listening comprehension, pronunciation and oral production of basic grammatical structure; reading and vocabulary development; and introduction to the writing process. Variable hours per week.

ESL 20 ENGLISH AS A SECOND LANGUAGE II (2 cr.)
Provides intensive instruction and practice at the low intermediate level. Provides an introduction to the sound system, stress, international and rhythmic patterns of English through listening and speaking exercises. Includes individualized instruction to improve basic reading comprehension. Requires practice in writing with emphasis on building basic sentence structures, grammar and sentence-level writing. Variable hours per week.

ESL 30 ENGLISH AS A SECOND LANGUAGE III
(2 cr.)
Provides intensive instruction and practice at the low intermediate level. Provides an introduction to the sound system, stress, international and rhythmic patterns of English through listening and speaking exercises. Includes individualized instruction to improve basic reading comprehension. Requires practice in writing with emphasis on building basic sentence structures, grammar and sentence-level writing. Variable hours per week.

ELECTRONICS TECHNOLOGY (ETR)

ETR 100 ELECTRONIC PROBLEM SOLVING LAB (1 cr.)
Focuses on enabling the student to improve skills in various areas of study. Includes electronic measurements, circuit assembly, troubleshooting circuits and
computer applications to problem solving. Lecture 0-1 hours. Laboratory 2-3 hours per week. Total 3 hours per week.

ETR 113 D.C. AND A.C. FUNDAMENTALS I (3-4 cr.) Studies D.C. and A.C. circuits, basic electrical components, instruments, network theorems, and techniques used to predict, analyze and measure electrical quantities. Part I of II. Lecture 2-3 hours. Laboratory 3 hours. Total 5-6 hours per week.

ETR 114 D.C. AND A.C. FUNDAMENTALS II (3-4 cr.) Studies D.C. and A.C. circuits, basic electrical components, instruments, network theorems, and techniques used to predict, analyze and measure electrical quantities. Part II of II. Lecture 2-3 hours. Laboratory 3 hours. Total 5-6 hours per week.

ETR 115 AC/DC CIRCUITS (3-4 cr.) Studies current flow in direct and alternating current circuits with emphasis upon practical problems. Reviews mathematics used in circuit calculations. Introduces concepts of resistance, capacitance, inductance and magnetism. Focuses on basic electrical/electronics/circuits applications. Lecture 3-4 hours per week.

ETR 140 - INTRODUCTION TO MECHATRONICS (3 cr.) Presents foundational concepts in mechatronics including analog and digital electronics, sensors, actuators, microprocessors, and microprocessor interfacing to electromechanical systems. Surveys components and measurement equipment used in the design, installation, and repair of mechatronic equipment and circuits. Prerequisite: divisional approval. Lecture 2 hours. Laboratory 2 hours. Total 4 hours per week.

ETR 141 ELECTRONICS I (3 cr.) Introduces electronic devices as applied to basic electronic circuits and systems. Part I of II. Lecture 3 hours per week.

ETR 142 ELECTRONICS II (3 cr.) Introduces electronic devices as applied to basic electronic circuits and systems. Part II of II. Lecture 3 hours per week.

ETR 143 DEVICES AND APPLICATIONS I (3-4 cr.) Teaches theory of active devices and circuits such as diodes, power supplies, transistors (BJTs), amplifiers and their parameters, FETs, and operational amplifiers. May include UJTs, oscillators, RF amplifiers, thermionic devices and others. Corequisite: knowledge of D.C./A.C. theory or permission of instructor. Part I of II. Lecture 2-3 hours. Laboratory 3 hours. Total 5-6 hours per week.

ETR 144 DEVICES AND APPLICATIONS II (3-4 cr.) Teaches theory of active devices and circuits such as diodes, power supplies, transistors (BJTs), amplifiers and their parameters, FETs, and operational amplifiers. May include UJTs, oscillators, RF amplifiers, thermionic devices and others. Corequisite: knowledge of D.C./A.C. theory or permission of instructor. Part II of II. Lecture 2-3 hours. Laboratory 3 hours. Total 5-6 hours per week.

ETR 151 ELECTRONIC CIRCUITS AND TROUBLESHOOTING I (2 cr.) Studies analog and digital circuits and systems with standard circuit test and troubleshooting procedures. Lecture 2 hours per week.

ETR 230 - MECHATRONIC PROCESS CONTROL (3 cr.) Studies systems integrating mechanical components with electrical components and logic devices used to control manufacturing operations. Surveys electromechanical actuators, sensors, digital to analog conversion, and methods of computer control as related to the managing and monitoring of manufacturing processes. Prerequisite: MEC 140 or divisional approval. Lecture 2 hours. Laboratory 2 hours. Total 4 hours per week.

ETR 250 SOLID STATE CIRCUITS (4 cr.) Teaches theory and application of amplifiers and oscillators. Includes amplifier circuit configurations, amplifier classes, operational amplifiers, power amplifiers, bandwidth distortion, and principles of feedback. Prerequisite: Knowledge of D.C./A.C. theory, and active devices and circuits. Lecture 3 hours. Laboratory 3 hours. Total 6 hours per week.

ETR 259 - LINEAR INTEGRATED CIRCUITS (3-4 cr.) Studies linear integrated devices, circuits and applications. Includes analysis of linear ICS, op-amps, op-amp circuits, regulator circuits, oscillatory circuits, waveshaping circuits, active filter, signal processing; A/D and D/A conversion, modulation and demodulation, timers, special analog circuits, new topics and troubleshooting methods. Prerequisite: ETR 113 or ELE 113. Lecture 2-3 hours. Laboratory 3 hours. Total 5-6 hours per week.

ETR 266 - MICROPROCESSOR APPLICATIONS (3 cr.) Teaches fundamentals of micro-processors including architecture, internal operations, memory, I/O devices, machine level programming and interfacing. Prerequisite: ETR 281. Lecture 3 hours per week.

ETR 281 - DIGITAL SYSTEMS (3 cr.) Includes basic numbering systems, Boolean algebra, logic circuits and systems, pulse circuits and pulse logic systems as applied to computer and microprocessor technology. Lecture 2 hours. Laboratory 3 hours. Total 5 hours per week.

FINANCIAL SERVICES (FIN)

FIN 215 FINANCIAL MANAGEMENT (3 cr.) Introduces basic financial management topics including statement analysis, working capital, capital budgeting, and long-term financing. Focuses on Net Present Value and Internal Rate of Return techniques, lease vs. buy analysis, and Cost of Capital computations. Uses problems and cases to enhance skills in financial planning and decision making. Lecture 3 hours per week. Prerequisite: ENF 3 or above. ACC 211.

FRENCH (FRE)

FRE 101 BEGINNING FRENCH I (4-5 cr.) Introduces understanding, speaking, reading, and writing skills and emphasizes basic French sentence structure. Part I of II. Lecture 4-5 hours per week. May include one additional hour of oral practice per week. Prerequisites: ENF 3 or above.

FRE 102 BEGINNING FRENCH II (4-5 cr.) Introduces understanding, speaking, reading, and writing skills and emphasizes basic French sentence structure. Part II of II. Lecture 4-5 hours per week. May include one additional hour of oral practice per week. Prerequisites: ENF 3 or above.

GEography (GEO)

GEO 210 PEOPLE AND THE LAND: INTRO TO CULTURAL GEOGRAPHY (3 cr.) Focuses on the relationship between culture and geography. Presents a survey of modern demographics, landscape modification, material and non-material culture, language, race and ethnicity, religion, politics, and economic activity. Introduces the student to types and uses of maps. Lecture 3 hours per week. Prerequisite: ENF 3 or above.

GERMAN (GER)

GER 101 - BEGINNING GERMAN I (4-5 cr.) Introduces understanding, speaking, reading, and writing skills and emphasizes basic German sentence structures. Part I of II. Lecture 4-5 hours per week. May include one additional hour oral practice per week.
GER 102 - BEGINNING GERMAN II (4-5 cr.)
Introduces understanding, speaking, reading, and writing skills and emphasizes basic German sentence structures. Part II of II. Lecture 4-5 hours per week. May include one additional hour oral practice per week.

GEOLGY (GOL)

GOL 105 PHYSICAL GEOLOGY (4 cr.)
Introduces the composition and structure of the earth and modifying agents and processes. Investigates the formation of minerals and rocks, weathering, erosion, earthquakes, and crustal deformation. Lecture 3 hours. Laboratory 3 hours. Total 6 hours per week. Corequisite: GOL 106

GOL 106 HISTORICAL GEOLOGY (4 cr.)
Traces the evolution of the earth and life through time. Presents scientific theories of the origin of the earth and life and interprets rock and fossil record. Lecture 3 hours. Laboratory 3 hours. Total 6 hours per week. Corequisite: GOL 105

GOL 206 PALEONTOLOGY (4 cr.)
Surveys the major invertebrate and vertebrate fossil groups. Covers the distribution of fossils through time, evolution and biostratigraphic and paleoecologic significance. Lecture 3 hours. Laboratory 3 hours. Total 6 hours per week. Prerequisite: GOL 206

GOL 225 ENVIRONMENTAL GEOLOGY (4 cr.)
Explores the interaction between man and his physical environment. Stresses geologic hazards and environmental pollution utilizing case histories. Lecture 3 hours. Laboratory 3 hours. Total 6 hours per week. Prerequisite: GOL 105

HEALTH CARE (HCT)

HCT 101 HEALTH CARE TECHNICIAN I (3-4 cr.)
Teaches basic care skills with emphasis on physical, social, emotional, and spiritual needs of patients. Covers procedures, communications and interpersonal relations; observations, charting and reporting; care planning, safety and infection control; anatomy and physiology; nutrition and patient feeding; ethics, death and dying. Prepares multi-skilled health care workers to care for patients of various ages with special emphasis on geriatric nursing, home health, and long and short-term care facilities. Lecture 3-4 hours per week. Prerequisites: ENF 1.

HCT 102 HEALTH CARE TECHNICIAN II (3-4 cr.)
Applies theory through laboratory experience for health care technicians to work in home health, long and short-term facilities. Prerequisite: HCT 101. Lecture 1-2 hours. Laboratory 2-6 hours. Total 4 hours per week.

HCT 110 THERAPEUTIC COMMUNICATION IN THE HEALTH CARE SETTING (3 cr.)
Develops therapeutic relationship, communication and culture, problem solving, electronic communication, techniques in therapeutic communication and blocks to therapeutic communication. Addresses assertiveness, anger, and managing team conflict. Lecture 3 hours per week. Prerequisite: ENF 1.

HISTORY (HIS)

HIS 101 HISTORY OF WESTERN CIVILIZATION I (3 cr.)
Examines the development of western civilization from ancient times to the present. Part I of II. Lecture 3 hours per week. Prerequisite: ENF 3 or above. May be taken out of sequence.

HIS 102 HISTORY OF WESTERN CIVILIZATION II (3 cr.)
Examines the development of western civilization from ancient times to the present. Part II of II. Lecture 3 hours per week. Prerequisite: ENF 3 or above. May be taken out of sequence.

HIS 121 UNITED STATES HISTORY I (3 cr.)
Surveys United States history from its beginning to the present. Part I of II. Lecture 3 hours per week. Prerequisite: ENF 3 OR ABOV. May be taken out of sequence.

HIS 122 UNITED STATES HISTORY II (3 cr.)
Surveys United States history from its beginning to the present. Part II of II. Lecture 3 hours per week. Prerequisite: ENF 3 or above. May be taken out of sequence.

HIS 141 AFRICAN AMERICAN HISTORY I (3 cr.)
Surveys the history of black Americans from their African origins to the present. Part I of II. Lecture 3 hours per week. Prerequisite: ENF 3 or above. May be taken out of sequence.

HIS 142 AFRICAN AMERICAN HISTORY II (3 cr.)
Surveys the history of black Americans from their African origins to the present. Part II of II. Lecture 3 hours per week. Prerequisite: ENF 3 or above. May be taken out of sequence.

HIS 281 - HISTORY OF VIRGINIA I (3 cr.)
Examines the cultural, political, and economic history of the Commonwealth from its beginning to the present. Part I of II. Lecture 3 hours per week.

HEALTH INFORMATION MANAGEMENT (HIM)

HIM 143 MANAGING ELECTRONIC BILLING IN A MEDICAL PRACTICE (2-3 cr.)
Focuses on principles and techniques of safety, first aid, and cardio-pulmonary resuscitation. Lecture 2-3 hours per week. Prerequisite: ENF 3 or above.

HLETH (HLT)

HLT 100 FIRST AID AND CARDIO-PULMONARY RESUSCITATION (2-3 cr.)
Focuses on principles and techniques of safety, first aid, and cardio-pulmonary resuscitation. Lecture 2-3 hours per week. Prerequisite: ENF 3 or above.

HLT 105 CARDIOPULMONARY RESUSCITATION (1 cr.)
Provides training in coordinated mouth-to-mouth artificial ventilation and chest compression, choking, life-threatening emergencies, and sudden illness. Lecture 1 hour per week. Equivalent to EMS 100.

HLT 106 FIRST AID AND SAFETY (2 cr.)
Focuses on the principles and techniques of safety and first aid. Lecture 2 hours per week. Prerequisites: ENF 3 or above.

HLT 109 CPR RECERTIFICATION (1 cr.)
Provides training in coordinated mouth-to-mouth artificial ventilation and chest compression, choking, life-threatening emergencies, and sudden illness. Lecture 1 hour per week.

HLT 115 INTRODUCTION TO PERSONAL AND COMMUNITY HEALTH (1 cr.)
Introduces and focuses on the principles of personal and community health. Lecture 1 hour per week. Prerequisite: ENF 3 or above.

HLT 116 INTRODUCTION TO PERSONAL WELLNESS CONCEPTS (2-3 cr.)
Introduces students to the dimensions of wellness including the physical, emotional, environmental, spiritual, occupational, and social components. Lecture 2-3 hours per week. Prerequisite: ENF 3 or above.

HLT 121 INTRODUCTION TO DRUG USE AND ABUSE (3 cr.)
Explores the use and abuse of drugs in contemporary society with emphasis upon sociological, physiological, and psychological effects of drugs. Lecture 3 hours per week. Prerequisite: A placement of ENF 3 or above.
HLT 141 INTRODUCTION TO MEDICAL TERMINOLOGY (1-2 cr.) Focuses on medical terminology for students preparing for careers in the health professions. Lecture 1-2 hours per week.

HLT 143 MEDICAL TERMINOLOGY I (3 cr.) Provides an understanding of medical abbreviations and terms. Includes the study of prefixes, suffixes, word stems, and technical terms with emphasis on proper spelling, pronunciation and usage. Emphasizes more complex skills and techniques in understanding medical terminology. Part I of II. Lecture 3 hours per week. Prerequisite: ENF 3 or above.

HLT 180 THERAPEUTIC MASSAGE I (3 cr.) Introduces the student to the history and requirements for massage therapy. Covers the terms and practice of massage with introduction to equipment, safety, and ethics as well as massage movements and techniques. Includes information about the benefits of massage, contraindications, client interview, client-therapist relationship, draping, good body mechanics, and anatomical landmarks. Basic massage techniques are blended into a relaxing, health enhancing full-body session preparing the students for their student clinical experience. Lecture 1 hour. Laboratory 6 hours. Total 7 hours per week. Prerequisites: ENF 3 or above, MTE 1-3. Co-requisite NAS 150.

HLT 195 TOPICS IN THERAPEUTIC MASSAGE (3 cr.) Introduces the student to the field of massage therapy. Includes hands on technique with emphasis on draping and proper manipulation of soft tissue muscles. Students will utilize effleurage, petrissage, and friction strokes to expand skills and enable the student to execute a full body Swedish massage. Individualized initial and continuing treatment plans will be developed. Contra-indications and endangerment sites will be emphasized during treatment plan. Students will study the historical benefits of massage as it has transcended through the ages. Lecture 1 hour. Laboratory 2 hours. Total 3 hours per week. Prerequisite: A Placement of ENF 3 or above and MTE 1-3; Co-requisite HLT 180.

HLT 200 HUMAN SEXUALITY (3 cr.) Provides a basic understanding of human sexuality. Includes anatomy, physiology, pregnancy, family planning, venereal diseases, and sexual variations. Lecture 3 hours per week. Lecture 3 hours per week. Prerequisite: ENF 3 or above.

HLT 204 WOMEN'S HEALTH (3 cr.) Explores current issues related to women's health and wellness with an emphasis upon prevention of disease and optimum well being. Takes a multi-ethnic approach to exploring the most up-to-date findings, diagnostic tools, and treatments for breast cancer, reproductive tract illness, heart, and other common diseases faced by women from puberty through menopause. Lecture 3 hours per week. Prerequisite: ENF 3 or above.

HLT 220 CONCEPTS OF DISEASE (3 cr.) Emphasizes general principles, classifications, causes, and treatments of selected disease processes. Intended primarily for students enrolled in health technology programs. Lecture 3 hours per week. Prerequisite: A Placement of ENF 3 or above; Co-requisite HLT 281.

HLT 230 PRINCIPLES OF NUTRITION AND HUMAN DEVELOPMENT (3 cr.) Teaches the relationship between nutrition and human development. Emphasizes nutrients, balanced diet, weight control, and the nutritional needs of an individual. Lecture 3 hours per week. Prerequisite: ENF 3 or above.

HLT 261 BASIC PHARMACY I (3 cr.) Explores the basics of general pharmacy, reading prescriptions, symbols, packages, pharmacy calculations. Teaches measuring compounds of drugs, dosage forms, drug laws, and drug classifications. Part I of II. Lecture 3 hours per week. Prerequisites: A Placement of ENF 3 or above and MTE 1-3; Corequisite MTH 126, HLT 263.

HLT 262 BASIC PHARMACY II (3 cr.) Explores the basics of general pharmacy, reading prescriptions, symbols, packages, pharmacy calculations. Teaches measuring compounds of drugs, dosage forms, drug laws, and drug classifications. Part II of II. Lecture 3 hours per week. Prerequisites: A Placement of ENF 3 or above and MTH 126, HLT 264.

HLT 263 BASIC PHARMACY 1 LAB (1 cr.) Provides practical experience to supplement instruction in HLT 261. Should be taken concurrently with HLT 261-262, in appropriate curricula, as identified by the college. Part I of II. Laboratory 3 hours per week. Co-Requisite with HLT 261.

HLT 264 BASIC PHARMACY 2 LAB (1 cr.) Provides practical experience to supplement instruction in HLT 261. Should be taken concurrently with HLT 261-262, in appropriate curricula, as identified by the college. Part II of II. Laboratory 3 hours per week. Corequisite: HLT 262.

HLT 280 THERAPEUTIC MASSAGE II (3 cr.) Introduces the student to the history and requirements for massage therapy. Covers the terms and practice of massage with introduction to equipment, safety, and ethics as well as massage movements and techniques. Includes information about the benefits of massage, contraindications, client interview, client-therapist relationship, draping, good body mechanics, and anatomical landmarks. Basic massage techniques are blended into a relaxing, health enhancing full-body session preparing the student for their student clinical experience. Prerequisite: HLT 180/HLT 195. Lecture 1 hr. Laboratory 6 hours Total 7 hours per week.

HLT 281 THERAPEUTIC MASSAGE III (3 cr.) Introduces the concept of consultation, client management, session design, and integration of specific therapeutic approaches into a full-body session. Students learn to give specific therapeutic attention to the regions of the back, neck and torso. Using knowledge of muscle anatomy, students perform more advanced massage techniques to address hypertonicity, chronic ischemia, trigger points, fibrotic tissue, adhesions and scar tissue. Includes common clinical applications in the body regions covered and the integration of specific techniques into a full-body session. Prerequisite: HLT 280, NAS 150. Lecture 1 hour. Laboratory 6 hours. Total 7 hours per week.

HLT 295 SPECIALIZED MASSAGE THERAPIES (5 cr.) Introduces student to a variety of specialized types of massage treatment modalities and the related anatomy and muscular functioning. Lecture 5 hours. Total 5 hours per week. Pre-requirements HLT 180; Co-requisite HLT 280.

HOTEL-RESTAURANT-INSTUTIONAL MANAGEMENT (HRI)

HRI 106 PRINCIPLES OF CULINARY ARTS I-II (3 cr.) Introduces the fundamental principles of food preparation and basic culinary procedures. Stresses the use of proper culinary procedures combined with food science, proper sanitation, standards of quality for food items that are made, and proper use and care of kitchen equipment. Part I of II. Lecture 2-3 hours. Laboratory 0-3 hours. Total 3-5 hours per week. Prerequisite: A placement of ENF 3 or above, MTE 1-3.

HRI 119 APPLIED NUTRITION FOR FOOD SERVICE (3 cr.) Studies food composition, nutrition science, and application of nutrition principles taught by the food science...
service professional. Provides the student with a basic understanding of human nutrition and application of nutrition in the service of commercially prepared meals. Lecture 3 hours per week. Prerequisite: A placement of ENF 3 or above, MTE 1-3.

**HRI 126 THE ART OF GARNISHING (1 cr.)**
Focuses on the relationship between colors and shapes and how they pertain to garnishes. Provides student with knowledge to create impressive presentations. Lecture 1 hour per week.

**HRI 128 PRINCIPLES OF BAKING (3 cr.)**
Instructs the student in the preparation of breads, pastries, baked desserts, candies, frozen confections, and sugar work. Applies scientific principles and techniques of baking. Promotes the knowledge/skills required to prepare baked items, pastries and confections. Prerequisite: HRI 120 or equivalent. Lecture 2 hours. Laboratory 3 hours. Total 5 hours per week. Prerequisite: A placement of ENF 3 or above, MTE 1-3.

**HRI 134 FOOD AND BEVERAGE SERVICE MANAGEMENT (3 cr.)**
Provides a conceptual and technical framework for managing the service of meals in a variety of commercial settings. Studies the integration of production and service delivery, guest contact dynamics, reservations management and point-of-sale systems. Lecture 2-3 hours. Laboratory 0-3 hours. Total 3-5 hours per week. Prerequisite: A placement of ENF 3 or above, MTE 1-3.

**HRI 145 GARDE MANGER (3 cr.)**
Studies garde manger, the art of decorative cold food preparation and presentation. Provides a detailed practical study of cold food preparation and artistic combination and display of cold foods. Lecture 2 hours. Laboratory 3 hours. Total 5 hours per week. Prerequisite: A placement of ENF 3 or above, MTE 1-3.

**HRI 154 PRINCIPLES OF HOSPITALITY MANAGEMENT (3 cr.)**
Presents basic understanding of the hospitality industry by tracing the industry's growth and development, reviewing the organization and management of lodging, food, and beverage operations, and focusing on industry opportunities and future trends. Lecture 3 hours per week. Prerequisite: A placement of ENF 3 or above, MTE 1-3.

**HRI 158 SANITATION AND SAFETY (3 cr.)**
Covers the moral and legal responsibilities of management to insure a sanitary and safe environment in a food service operation. Emphasizes the causes and prevention of food borne illnesses in conformity with federal, state and local guidelines. Focuses on OSHA standards in assuring safe working conditions. Lecture 3 hours per week. Prerequisite: A placement of ENF 3 or above, MTE 1-3.

**HRI 190 COORDINATED INTERNSHIP (1-5 cr.)**
Supervises on-the-job training in selected business, industrial or service firms coordinated by the college. Credit/practice ratio not to exceed 1:5 hours. May be repeated for credit. Variable hours. Prerequisite: A placement of ENF 3 or above, MTE 1-3.

**HRI 206 INTERNATIONAL CUISINE (3 cr.)**
Introduces the concepts of cultural differences and similarities and the preparation of the food specialties of the major geographical areas of the world. Focuses on emerging cuisines as they become popular. Lecture 2 hours. Laboratory 3 hours. Total 5 hours per week. Prerequisite: A placement of ENF 3 or above, MTE 1-3.

**HRI 207 AMERICAN REGIONAL CUISINE (3 cr.)**
Studies the distinct regional cooking styles of America and its neighbors. Emphasizes the indigenous ingredients as well as the cultural aspect of each region's cooking style. Includes the preparation of the various regional foods. Lecture 2 hours. Laboratory 3 hours. Total 5 hours per week. Prerequisite: A placement of ENF 3 or above, MTE 1-3.

**HRI 218 FRUIT, VEGETABLE, AND STARCH PREPARATION (3 cr.)**
Instructs the student in the preparation of fruits, vegetables, grains, cereals, legumes and farinaceous products. Promotes the knowledge/skills necessary to prepare menu items from fruits, vegetables, and their byproducts, and to select appropriate uses as meal components. Lecture 2 hours. Laboratory 3 hours. Total 5 hours per week. Prerequisite: A placement of ENF 3 or above, MTE 1-3.

**HRI 219 STOCK, SOUP, AND SAUCE PREPARATION (3 cr.)**
Instructs the student in the preparation of stocks, soups, and sauces. Promotes the knowledge/skills to prepare stocks, soups, and sauces, and to select appropriate uses as meal components. Lecture 2 hours. Laboratory 3 hours. Total 5 hours per week. Prerequisite: A placement of ENF 3 or above, MTE 1-3.

**HRI 220 MEAT, SEAFOOD, AND Poultry PREPARATION (3 cr.)**
Provides the study and preparation of meat, poultry, shellfish, fish, and game. Promotes the knowledge/skills required to select appropriate use of these foods as meal components. Lecture 2 hours. Laboratory 3 hours. Total 5 hours per week. Prerequisite: A placement of ENF 3 or above, MTE 1-3.

**HRI 251 FOOD AND BEVERAGE COST CONTROL I (3 cr.)**
Presents methods of pre-cost and pre-control as applied to the menu, purchasing, receiving, storing, issuing, production, sales and service which result in achievement of an operation's profit potential. Emphasizes both manual and computerized approaches. Part I of II. Lecture 3 hours per week. Prerequisite: A placement of ENF 3 or above, MTE 1-3.

**HRI 252 FOOD AND BEVERAGE COST CONTROL II (3 cr.)**
Presents methods of pre-cost and pre-control as applied to the menu, purchasing, receiving, storing, issuing, production, sales and service which result in achievement of an operation's profit potential. Emphasizes both manual and computerized approaches. Part II of II. Lecture 3 hours per week. Prerequisite: A placement of ENF 3 or above, MTE 1-3.

**HRI 256 PRINCIPLES AND APPLICATIONS OF CATERING (2-3 cr.)**
Analyzes and compares the principles of on-premise and off-premise catering. Includes student presentations in a series of catered functions where they assume typical managerial/employee positions emphasizing planning, organizing, operating, managing and evaluating. Prerequisite divisional approval. Lecture 2-3 hours. Laboratory 0-3 hours. Total 2-5 hours per week. Prerequisite: A placement of ENF 3 or above, MTE 1-3.

**HRI 290 COORDINATED INTERNSHIP (1-5 cr.)**
Supervises on-the-job training in selected business, industrial or service firms coordinated by the college. Credit/practice ratio not to exceed 1:5 hours. May be repeated for credit. Variable hours. Prerequisite: A placement of ENF 3 or above, MTE 1-3.

**HORTICULTURE (HRT)**

**HRT 100 INTRODUCTION TO HORTICULTURE (3cr.)**
Introduces commercial horticulture industry with emphasis on career opportunities. Examines equipment, facilities, and physical arrangements of production, wholesale and retail establishments. Surveys individual areas within horticulture industry. Lecture 2 hours. Laboratory 2 hours. Total 4 hours per week.
HRT 110 PRINCIPLES OF HORTICULTURE (3 cr.) Introduces concepts of plant growth and development. Covers horticultural practices, crops and environmental factors affecting plant growth. Lecture 3 hours per week.

HRT 115 PLANT PROPAGATION (3 cr.) Teaches principles and practices of plant propagation. Examines commercial and home practices. Provides experience in techniques using seed-spores, cuttings, grafting, budding, layering and division. Lecture 2 hours. Laboratory 2 hours. Total 4 hours per week.

HRT 190 COORDINATED INTERNSHIP (1-5 cr) Supervises on-the-job training in selected business, industrial or service firms coordinated by the college. Credit/practice ratio not to exceed 1:5 hours. May be repeated for credit. Variable hours.

HRT 201 LANDSCAPE PLANTS I (3-4 cr.) Studies landscape use of plants. Considers ornamental value, growth habit, identification, and limitations. Part I of II. Lecture 2-3 hours. Laboratory 2 hours. Total 4-5 hours per week.

HRT 202 LANDSCAPE PLANTS II (3-4 cr.) Studies landscape use of plants. Considers ornamental value, growth habit, identification, and limitations. Part II of II. Lecture 2-3 hours. Laboratory 2 hours. Total 4-5 hours per week.

HRT 226 GREENHOUSE MANAGEMENT (3 cr.) Discusses the theoretical and applied practices of managing a greenhouse facility. Emphasizes greenhouse construction and design, environmental control, energy conservation, and related topics. Lecture 2 hours. Laboratory 2 hours. Total 4 hours per week.

HRT 275 LANDSCAPE CONSTRUCTION AND MAINTENANCE (3 cr.) Examines practical applications of commercial landscape construction techniques, and materials used. Covers construction, planting, and maintenance. Lecture 2 hours. Laboratory 2 hours. Total 4 hours per week.

HUMAN SERVICES (HMS)

HMS 100 INTRODUCTION TO HUMAN SERVICES (3 cr.) Introduces human service agencies, roles and careers. Presents an historical perspective of the field as it relates to human services today. Additional topics include values clarification and needs of target populations. Lecture 3 hours per week. Prerequisites: ENF 3 or above.

HMS 162 COMMUNICATION SKILLS FOR HUMAN SERVICES PROFESSIONALS (3 cr.) Covers basic written and verbal communication skills, including, listening skills, interviewing techniques, and completing written documentation to professional standards. Lecture 3 hours per week. Prerequisites: ENF 3 or above.

HMS 195 INTRODUCTION TO DEVELOPMENTAL DISABILITIES (3 cr.) Presents an overview, history, and current philosophy of developmental disabilities programs. Provides descriptions and examines causes of developmental disabilities, identifies intervention strategies, promotes social and legal advocacy, explores employment and career opportunities. Lecture 3 hours per week. Prerequisites: ENF 3 or above.

HMS 236 – GERONTOLOGY (3 cr.) Examines the process of aging; its implications in relation to health, recreation, education, transport-ation, meaningful work or activity, and to community resources. Emphasizes experiencing the aging process, facilitating retirement, and application of the helping relationship to work with older adults. Lecture 3 hours per week.

HMS 251 SUBSTANCE ABUSE I (3 cr.) Provides knowledge, skills, and insight for working in drug and alcohol abuse programs. Emphasizes personal growth and client growth measures in helping relationships. Stresses various methods of individual and group techniques for helping the substance abuser. Lecture 3 hours per week. Prerequisites: ENF 3 or above.

HMS 290 COORDINATED INTERNSHIP (3 cr.) Supervises on-the-job training in selected business, industrial or service firms coordinated by the college. Credit/practice ratio not to exceed 1:5 hours. May be repeated for credit. Variable hours.

IND 102 QUALITY ASSURANCE TECHNOLOGY II (3 cr.) Studies principles and techniques of quality engineering for the management, design engineering economics, production, and assurance of quality. Emphasizes fundamentals of total quality assurance for product and process control. May include design review, fundamentals of statistics procurement control, sampling and control chart systems, quality reporting, process capability analysis, tool and gauge control, document control, or troubleshooting quality control. Part II of II. Lecture 3 hours per week. Prerequisites: ENF 3 or above, MTE 1-3.

IND 137 TEAM CONCEPTS & PROBLEM SOLVING (3 cr.) Studies team concepts and problem solving techniques to assist project teams in improving quality and productivity. Provides knowledge of how to work as a team, plan and conduct good meetings, manage logistics and details, gather useful data, communicate the results and implement changes. Lecture 3 hours per week. Prerequisites: ENF 3 or above, MTE 1-3.

IND 181 WORLD CLASS MANUFACTURING (3 cr.) Studies the principles and applications of the globalization of industry. Emphasizes the fundamentals of interpersonal/team, process, organization skills, total quality tools for continuous improvement, statistical process control, manufacturing resource planning and just-in-time.

IND 190 COORDINATED INTERNSHIP (1-5 cr) Supervises one-the-job training in selected business, industrial or service firms coordinated by the college. Credit/practice ratio not to exceed 1:5 hours. May be repeated for credit. Variable hours per week.

IND 195 INTERPRETING ENGINEERING DRAWINGS/HAND TOOLS/METROLOGY (2 cr.) Teaches how to interpret engineering drawings, reads machine schematics and prints. This course will also cover the use of the metric system in a manufacturing environment.

IND 195 KEYTRAIN REMEDIATION (1 cr.) Provides on-line remediation for the Reading for Information, Locating Information, Applied Mathematics, and Applied Technology. These are the components of the CRD + Manufacturing certification.
IND 195 SYSTEMATIC PROBLEM SOLVING (1 cr.) Provides experience in applying a systematic approach to solving problems for individuals or small groups working in problem solving teams. Teaches either 6 or 8 step methods, 5-Whys or other techniques.

IND 290 COORDINATED INTERNSHIP (1-5 cr.) Supervised on-the-job training in selected business, industrial or service firms coordinated by the college. Credit/practice ratio not to exceed 1:5 hours. May be repeated for credit. Variable hours per week.

INFORMATION TECHNOLOGY-DESIGN & DATABASE (ITD)

ITD 110 WEB PAGE DESIGN I (3-4 cr.) Stresses a working knowledge of web site designs, construction, and management using HTML, or XHTML. Includes headings, lists, links, images, image maps, tables, forms, and frames. Lecture 3-4 hours per week. Prerequisite: ITE 115.

ITD 112 DESIGNING WEB PAGE GRAPHICS (3-4 cr.) Explores the creation of digital graphics for web design. Include basic design elements such as color and layout will be explored utilizing a computer graphics program(s). Lecture 3-4 hours per week. Prerequisite: ITD 110.

ITD 210 WEB PAGE DESIGN II (3-4 cr.) Incorporates advanced techniques in web site planning, design, usability, accessibility, advanced site management, and maintenance utilizing web editor software(s). Lecture 3-4 hours per week. Prerequisite: ITD 110.

IND 243 - PRINCIPLES AND APPLICATIONS OF MECHEMATRONICS (3 cr.) Introduces terminology and principles related to Mechatronic system design and application. Integrates concepts of electrical/electronic, mechanical and computer technologies in the development, setup, operation and troubleshooting of automated products and systems. Covers breakdown of various automated manufacturing operations with emphasis on system planning, development and troubleshooting processes. Prerequisite: EGR 277, MEC 165 and MEC 140 or ELE 140. Lecture 2 hours. Laboratory 2 hours. Total 4 hours per week.

IND 246 - INDUSTRIAL ROBOTICS PROGRAMMING (3 cr.) Introduces industrial robotics and their programming for repetitive manufacturing systems. Includes the design of software that ensures safe operation and programming of both on- and off-line robot operations. This course is cross-listed with ELE 246. Prerequisite: EGR 216. Credit will not be awarded for both.

IND 290 COORDINATED INTERNSHIP (1-5 cr.) Supervised on-the-job training in selected business, industrial or service firms coordinated by the college. Credit/practice ratio not to exceed 1:5 hours. May be repeated for credit. Variable hours per week.

INFORMATION TECHNOLOGY-ESSENTIALS (ITE)

ITE 55 CERTIFICATION PREPARATION (1 cr.) Serves as a review of objectives for a specific Certification. Uses certification test preparation software, when available, in conjunction with a faculty resource person. May be repeated for credit. Lecture 1 hour per week.

ITE 95 BASIC COMPUTER FUNDAMENTALS (2 cr.) Covers the fundamental functions and basic operations of computer hardware and software. Emphasis is on operating a computer, using a keyboard and mouse, accessing and manipulating files, printing documents, using basic operating system features, and performing basic applications operations. Lecture 2 hours per week.

ITE 115 INTRO. TO COMPUTER APPLICATIONS & CONCEPTS (3-4 cr.) Covers computer concepts and internet skills and use a software suite which includes word processing, spreadsheet, database, and presentation software to demonstrate skills. Recommended prerequisite keyboarding skills. Lecture 3-4 hours per week. Prerequisites: ENF 2 or above, MTE 1-3, ITE 95.

ITE 116 SURVEY OF COMPUTER SOFTWARE APPLICATIONS (1-2 cr.) Review current business software applications for microcomputers emphasizing comparison of a variety of software packages. Provides experience with multiple operating system commands, database, spreadsheet, and word processing programs. Lecture 1-2 hours per week.

ITE 119 INFORMATION LITERACY (3 cr.) Presents the information literacy core competencies focusing on the use of information technology skills. Skills and knowledge will be developed in database searching, computer applications, information security and privacy, and intellectual property issues. Lecture 3 hours per week. Prerequisite: ENF 3 or above.

ITE 130 INTRODUCTION TO INTERNET SERVICES (3-4 cr.) Provides students with a working knowledge of Internet terminology and services including e-mail, WWW browsing, search engines, ftp, file compression, and other services using a variety of software packages. Provides instruction for basic web page construction. Lecture 3-4 hours per week. Prerequisite: ITE 115.

ITE 140 SPREADSHEET SOFTWARE (3-4 cr.) Covers the use of spreadsheet software to create spreadsheets with formatted cells and cell ranges, control pages, multiple sheets, charts, and macros. Topics include type and edit text in a cell, enter data on multiple worksheets, work with formulas and functions, create charts, pivot tables, and styles, insert headers and footers, and filter data. Covers MOS Excel objectives. Lecture 3-4 hours per week. Prerequisite: ITE 115.

ITE 150 DESKTOP DATABASE SOFTWARE (3-4 cr.) Incorporates instruction in planning, defining, and using a database; performing queries; producing reports; working with multiple files; and concepts of database programming. Include database concepts, principles of table design and table relationships, entering data, creating and using forms, using data from different sources, filtering, and creating mailing labels. Covers MOS Access certification objectives. Lecture 3-4 hours per week. Prerequisite: ITE 115.

INFORMATION TECHNOLOGY-NETWORKING (ITN)

ITN 101 INTRODUCTION TO NETWORK CONCEPTS (3-4 cr.) Provides instruction in networking media, physical and logical topologies, common networking standards, and popular networking protocols. Emphasizes the TCP/IP protocol suite and related IP addressing schemes, including CIDR. Includes selected topics in network implementation, support, and LAN/WAN connectivity. Lecture 3-4 hours per week. Prerequisites: ITN 106, ITE 115.

ITN 106 MICROCOMPUTER OPERATING SYSTEMS (3-4 cr.) Teaches use of operating system utilities and multiple-level directory structures, creation of batch files, and configuration of microcomputer environments. May include a study of graphical user interfaces. Maps to A+ Software Certification. Lecture 3-4 hours per week. Prerequisites: ITE 115.
<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Description</th>
<th>Credits</th>
<th>Pre-requisites</th>
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</thead>
<tbody>
<tr>
<td>ITN 107</td>
<td>PERSONAL COMPUTER HARDWARE AND TROUBLESHOOTING (3-4 cr.)</td>
<td>Includes specially designed instruction to give a student a basic knowledge of hardware and software configurations. Includes the installation of various peripheral devices as well as basic system hardware components. Maps to A+ Hardware Certification.</td>
<td>3-4</td>
<td>ITE 115</td>
</tr>
<tr>
<td>ITN 154</td>
<td>NETWORK FUNDAMENTALS, ROUTER BASICS, AND CONFIGURATION (ICND1) - CISCO (3-4 cr.)</td>
<td>Provides instruction in the fundamentals of networking environments, the basics of router operations, and basic router configuration.</td>
<td>3-4</td>
<td>Prerequisite: ITP 120</td>
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<tr>
<td>ITN 154L</td>
<td>NETWORK FUNDAMENTALS, ROUTER BASICS, AND CONFIGURATION (ICND1) - LABORATORY (1 cr.)</td>
<td>Provides problem solving experience to supplement instruction in Networking Fundamentals - Cisco. Co-requisite: ITN 154.</td>
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<td>ITN 155</td>
<td>SWITCHING, WIRELESS, AND WAN TECHNOLOGIES (ICND2) - CISCO</td>
<td>Provides the skills and knowledge to install, operate, and troubleshoot a small-to-medium sized branch office enterprise network, including configuring several switches and routers, configuring wireless devices, configuring VLANs, connecting to a WAN, and implementing network security.</td>
<td>3-4</td>
<td>Prerequisite: ITP 120</td>
</tr>
<tr>
<td>ITN 155L</td>
<td>SWITCHING, WIRELESS, AND WAN TECHNOLOGIES (ICND2) - LABORATORY (1 cr.)</td>
<td>Provides problem solving experience to supplement instruction in Introductory Routing - Cisco. Co-requisite: ITN 155.</td>
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<tr>
<td>ITP 110</td>
<td>VISUAL BASIC PROGRAMMING I (3-4 cr.)</td>
<td>Involves instruction in fundamentals of event-driven programming using Visual Basic. Emphasizes program construction, algorithm development, coding, debugging, and documentation of graphical user interface applications.</td>
<td>3-4</td>
<td>Prerequisite: ITP 120</td>
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<tr>
<td>ITP 120</td>
<td>JAVA PROGRAMMING I (3-4 cr.)</td>
<td>Entails instruction in fundamentals of object-oriented programming using Java. Emphasizes program construction, algorithm development, coding, debugging, and documentation of console and graphical user interface applications.</td>
<td>3-4</td>
<td>Prerequisite: ITP 120</td>
</tr>
<tr>
<td>ITP 132</td>
<td>C++ PROGRAMMING I (3-4 cr.)</td>
<td>Centers instruction in fundamentals of object-oriented programming and design using C++. Emphasizes program construction, algorithm development, coding, debugging, and documentation of C++ applications.</td>
<td>3-4</td>
<td>Prerequisite: ITP 120</td>
</tr>
<tr>
<td>ITP 160</td>
<td>INTRODUCTION TO GAME DESIGN AND DEVELOPMENT (3-4 cr.)</td>
<td>Introduces object-oriented game design and development. Provides overview of the electronic game design and development process and underlines the historical context, content creation strategies, game careers, and future trends in the industry.</td>
<td>3-4</td>
<td>Prerequisite: ITP 120</td>
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<tr>
<td>ITP 220</td>
<td>JAVA PROGRAMMING II (3-4 cr.)</td>
<td>Imparts instruction in application of advanced object-oriented techniques to application development using Java. Emphasizes database connectivity, inner classes, collection classes, networking, and threads.</td>
<td>3-4</td>
<td>Prerequisite: ITP 120</td>
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<tr>
<td>INS 210</td>
<td>PRINCIPLES OF INSTRUMENTATION (3-4 cr.)</td>
<td>Introduces the basic concepts and terminology of process control systems. Presents types of control systems, applicable component elements, basic control analysis, and documentation requirements for measuring instruments and signal conditioning.</td>
<td>3-4</td>
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<tr>
<td>JPN 101</td>
<td>BEGINNING JAPANESE I (4-5 cr.)</td>
<td>Develops the understanding, speaking, reading, and writing of Japanese, and emphasizes the structure of the language. Part I of II. Lecture 4-5 hours per week.</td>
<td>4-5</td>
<td>Prerequisite: ITP 120</td>
</tr>
<tr>
<td>JPN 102</td>
<td>BEGINNING JAPANESE II (4-5 cr.)</td>
<td>Develops the understanding, speaking, reading, and writing of Japanese, and emphasizes the structure of the language. Part II of II. Lecture 4-5 hours per week.</td>
<td>4-5</td>
<td>Prerequisite: ITP 120</td>
</tr>
<tr>
<td>LGL 110</td>
<td>INTRODUCTION TO LAW AND THE LEGAL ASSISTANT (3 cr.)</td>
<td>Introduces various areas of law in which a legal assistant may be employed. Includes study of the court system (Virginia and federal) as well as a brief overview of criminal law, torts, domestic relations, evidence, ethics, the role of the legal assistant and other areas of interest.</td>
<td>3</td>
<td>Prerequisites: ENF 3 or above</td>
</tr>
<tr>
<td>LGL 115</td>
<td>REAL ESTATE LAW FOR LEGAL ASSISTANTS (3 cr.)</td>
<td>Studies law of real property, and gives in-depth survey of more common types of real estate transactions and conveyances such as deeds, contracts, leases, and deeds of trust.</td>
<td>3</td>
<td>Prerequisites: ENF 3 or above</td>
</tr>
<tr>
<td>LGL 117</td>
<td>FAMILY LAW (3 cr.)</td>
<td>Studies elements of a valid marriage, grounds for divorce and annulment, separation, defenses, custody, support, adoptions, and applicable tax consequences. Includes property settlement, pre- and ante-nuptial agreements, pleadings, and rules of procedure.</td>
<td>3</td>
<td>Prerequisites: ENF 3 or above</td>
</tr>
<tr>
<td>LGL 125</td>
<td>LEGAL RESEARCH (3 cr.)</td>
<td>Provides an under-standing of various components of a law library, and emphasizes research skills through the use of digestes, encyclopedias, reporter systems, codes, Shepard’s Citations, ALR, and other research tools. May include overview of computer applications and writing projects.</td>
<td>3</td>
<td>Prerequisites: ENF 3 or above, MTE 1-3</td>
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<tr>
<td>LGL 126</td>
<td>LEGAL WRITING (3 cr.)</td>
<td>Studies proper preparation of various legal documents, including legal memoranda, letters, and pleadings. Involves practical applications. May include case and appellate briefs.</td>
<td>3</td>
<td></td>
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</table>
LGL 200 ETHICS FOR THE LEGAL ASSISTANT (1 cr.) Examines general principles of ethical conduct applicable to legal assistants. Includes the application of rules of ethics to the practicing legal assistant. Lecture 1 hour per week.

LGL 215 TORTS (3 cr.) Studies fundamental principles of the law of torts. May include preparation and use of pleadings and other documents involved in the trial of a civil action. Emphasizes personal injury, products liability, and malpractice cases. Lecture 3 hours per week.

LGL 219 BASICS OF LITIGATION SUPPORT (3 cr.) Provides a practical understanding and knowledge of litigation support services, including docket control, case management, document production and organization. Examines the use of privileged documents and various court clerks' offices. Focuses on multiple party case management. Lecture 3 hours per week.

LGL 225 ESTATE PLANNING AND PROBATE (3 cr.) Introduces various devices used to plan an estate, including wills, trust, joint ownership and insurance. Considers various plans in light of family situations and estate objectives. Focuses on practices involving administration of an estate including taxes and preparation of forms. Lecture 3 hours per week.

LGL 226 REAL ESTATE ABSTRACTING (3 cr.) Reviews aspects of abstracting title to real estate, recordation of land transactions, liens, grantor-grantee indices, warranties, covenants, restrictions, and easements. Prerequisite: LGL 115. Lecture 3 hours per week.

LGL 230 LEGAL TRANSACTIONS (3 cr.) Presents an in-depth study of general contract law, including formation, breach, enforcement, and remedies. May include an overview of UCC sales, commercial paper, and collections. Lecture 3 hours per week.

LGL 235 LEGAL ASPECTS OF BUSINESS ORGANIZATIONS (3 cr.) Studies fundamental principles of agency law and the formation of business organizations. Includes sole proprietorships, partnerships, corporation, limited liability companies, and other business entities. Reviews preparation of the documents necessary for the organization and operation of businesses. Lecture 3 hours per week.

LGL 236 RETAIL ORGANIZATION AND MANAGEMENT (3 cr.) Examines the organization of the retail establishment to accomplish its goals in an effective and efficient manner. Includes study of site location, internal layout, store operations, and security. Examines the retailing mix, the buying or procurement process, pricing, and selling. Studies retail advertising, promotion and publicity as a coordinated effort to increase store traffic. Lecture 3 hours per week. Prerequisite: ENF 3 or above.

MKT 100 PRINCIPLES OF MARKETING (3 cr.) Presents principles, methods, and problems involved in marketing to consumers and organizational buyers. Discusses problems and policies connected with distribution and sale of products, pricing, promotion, and buyer motivation. Examines variations of marketing research, legal, social, ethical, e-commerce, and international considerations in marketing. Lecture 3 hours per week. Prerequisite: ENF 3 or above.

MKT 160 MARKETING FOR SMALL BUSINESS (3 cr.) Presents the development of the marketing mix for small business. Includes areas such as product development, pricing, promotion, salesmanship, customer relations, and consumer behavior. Lecture 3 hours per week. Prerequisite: ENF 3 or above.

MKT 170 CUSTOMER SERVICE (1-2 cr.) Introduces students to the concepts of marketing as they relate to customer service. Teaches development of customer service training and implementation of strategies to improve customer relations and service. Includes lecture, role-playing, and case studies. Lecture 1-2 hours per week.

MKT 200 CONSUMERS, MARKETING, AND SOCIETY (3 cr.) Presents an overview of the marketing system as it applies to the needs and wants of consumers and the purchasing process, along with consideration of the role of government in consumer affairs. Assists the individual in becoming an informed consumer and better business manager through an understanding of rights and obligations in consumer transactions. Lecture 3 hours per week.

MKT 216 RETAIL ORGANIZATION AND MANAGEMENT (3 cr.) Examines the organization of the retail establishment to accomplish its goals in an effective and efficient manner. Includes study of site location, internal layout, store operations, and security. Examines the retailing mix, the buying or procurement process, pricing, and selling. Studies retail advertising, promotion and publicity as a coordinated effort to increase store traffic. Lecture 3 hours per week. Prerequisite: ENF 3 or above.

MKT 260 CUSTOMER SERVICE MANAGEMENT (3 cr.) Examines the role of customer service in achieving a firm's long-term goals; discusses the basic principles of effective customer service; explores the tasks and responsibilities of a customer service manager. Includes such topics as purpose of customer service; establishment of customer service goals and policies; recruitment, selection and training of customer service employees; motivation techniques; empowering employees for better decision making; and evaluation of customer service employees and program. Lecture 3 hours per week. Prerequisite: ENF 3 or above.

MATH ESSENTIALS (MTE)

MTE 1 - OPERATIONS WITH POSITIVE FRACTIONS (1 cr.) Includes operations and problem solving with proper fractions, improper fractions, and mixed numbers without the use of a calculator. Emphasizes applications and includes U.S. customary units of measure. Credit is not applicable toward graduation. Lecture 1 hour per week. Prerequisite(s): Qualifying placement score.

MTE 2 - OPERATIONS WITH POSITIVE DECIMALS AND PERCENTS (1 cr.) Includes operations and problem solving with positive decimals and percents. Emphasizes applications and includes U.S. customary and metric units of measure. Credit is not applicable toward graduation. Prerequisite(s): MTE 1 or qualifying placement score. Lecture 1 hour per week.

MTE 3 - ALGEBRA BASICS (1 cr.) Includes basic operations with algebraic expressions and solving simple algebraic equations using signed numbers with emphasis on applications. Credit is not applicable toward graduation. Lecture 1 hour per week. Prerequisite: MTE 2 or qualifying placement score.

MTE 4 - FIRST DEGREE EQUATIONS AND INEQUALITIES IN ONE VARIABLE (1 cr.) Includes solving first degree equations and inequalities containing one variable, and using them to solve application problems. Emphasizes applications and problem solving. Credit is not applicable toward graduation. Lecture 1 hour per week. Prerequisite(s): MTE 3 or qualifying placement score.

MTE 5 - LINEAR EQUATIONS, INEQUALITIES AND SYSTEMS OF LINEAR EQUATIONS IN TWO VARIABLES (1 cr.) Includes finding the equation of a line, graphing linear equations and inequalities in two variables and solving systems of two linear equations. Emphasizes writing and graphing equations using the slope of the line and points on the line, and applications. Credit is not applicable toward graduation. Lecture 1
MTE 6 - EXPONENTS, FACTORING AND POLYNOMIAL EQUATIONS (1 cr.) The student will learn to perform operations on exponential expressions and polynomials. Students will also learn techniques to factor polynomials and use these techniques to solve polynomial equations. Emphasis should be on learning all the different factoring methods, and solving application problems using polynomial equations. Credit is not applicable toward graduation. Lecture 1 hour per week. Prerequisite(s): MTE 5 or qualifying placement score.

MTE 7 - RATIONAL EXPRESSIONS AND EQUATIONS (1 cr.) Includes simplifying rational algebraic expressions, solving rational algebraic equations and solving applications that use rational algebraic equations. Credit is not applicable toward graduation. Lecture 1 hour per week. Prerequisite(s): MTE 6 or qualifying placement score.

MTE 8 - RATIONAL EXPONENTS AND RADICALS (1 cr.) Includes simplifying radical expressions, using rational exponents, solving radical equations and solving applications using radical equations. Credit is not applicable toward graduation. Lecture 1 hour per week. Prerequisite(s): MTE 7 or qualifying placement score.

MTE 9 - FUNCTIONS, QUADRATIC EQUATIONS AND PARABOLAS (1 cr.) Includes an introduction to functions in ordered pair, graph, and equation form. Also introduces quadratic functions, their properties and their graphs. Credit is not applicable toward graduation. Lecture 1 hour per week. Prerequisite(s): MTE 8 or qualifying placement score.

DEVELOPMENTAL MATHEMATICS-TECHNOLOGY BASED

MTT 1 - DEVELOPMENTAL MATHEMATICS (TECHNOLOGY-BASED) I (1 cr.) Covers mathematics topics in a technology-based setting to prepare students for the study of college level mathematics courses and curricula. Designed for the study of one developmental math unit prescribed by the student's placement test results. Credits not applicable toward graduation. Placement scores requiring the student to complete one developmental math unit.

MATHEMATICS (MTH)

MTH 103 APPLIED TECHNICAL MATHEMATICS I (3 cr.) Presents a review of arithmetic, elements of algebra, geometry, and trigonometry. Directs applications to specialty areas. Lecture 3 hours per week. Prerequisite: MTE 4 or qualifying placement score.

MTH 120 INTRODUCTION TO MATHEMATICS (3 cr.) Introduces number systems, logic, basic algebra, and descriptive statistics. Prerequisites: a placement recommendation for MTH 120 and one unit of high school mathematics or equivalent. (Intended for occupational/technical programs.) Lecture 3 hours per week. Prerequisites: MTE 1-3, A Placement of ENF 2 or above.

MTH 126 MATH FOR ALLIED HEALTH (3 cr.) Presents scientific notation, precision and accuracy, decimals and percents, ratio and proportion, variation, simple equations, techniques of graphing, use of charts and tables, logarithms, and the metric system. Prerequisites: a placement recommendation for MTH 126 and one unit of high school mathematics or equivalent. Lecture 2-3 hours per week. 2-3 credits. Prerequisites: MTE 1-3.

MTH 150 TOPICS IN GEOMETRY (3 cr.) Presents the fundamentals of plane and solid geometry and introduces non-Euclidean geometries and current topics. Prerequisites: a placement recommendation for MTH 150 and Algebra I, Algebra II and Geometry or equivalent. Lecture 3 hours per week. Prerequisites: A Placement of ENF 3 or above, MTE 1-5.

MTH 151 MATHEMATICS FOR THE LIBERAL ARTS I (3 cr.) Presents topics in sets, logic, numeration systems, geometric systems, and elementary computer concepts. Prerequisites: a placement recommendation for MTH 151 and Algebra I, Algebra II and Geometry or equivalent. Lecture 3 hours per week. Prerequisites: MTE 1-5, a Placement of ENF 3 or above.

MTH 152 MATHEMATICS FOR THE LIBERAL ARTS II (3 cr.) Presents topics in functions, combinatorics, probability, statistics and algebraic systems. Prerequisites: a placement recommendation for MTH 152 and Algebra I, Algebra II and Geometry or equivalent. Lecture 3 hours per week. Prerequisites: MTE 1-5, a placement of ENF 3 or above.

MTH 157 ELEMENTARY STATISTICS (3-4 cr.) Presents elementary statistical methods and concepts including descriptive statistics, estimation, hypothesis testing, linear regression, and categorical data analysis. (Credit will not be awarded for both MTH 157, MTH 240, or MTH 241.) Prerequisites: MTE 1-5. Lecture 3-4 hours per week.

MTH 163 PRECALCULUS I (3 cr.) Presents college algebra, matrices, and algebraic, exponential, and logarithmic functions. Prerequisites: a placement recommendation for MTH 163 and Algebra I, Algebra II, and Geometry or equivalent. (Credit will not be awarded for both MTH 163 and MTH 166.) Lecture 3 hours per week. Prerequisites: MTE 1-9, a placement of ENF 3 or above.

MTH 164 PRECALCULUS II (3 cr.) Presents trigonometry, analytic geometry, and sequences and series. Prerequisite: MTE 1-9, MTH 163. (Credit will not be awarded for both MTH 164 and MTH 168.) Lecture 3 hours per week.

MTH 166 PRECALCULUS WITH TRIGONOMETRY (4-5 cr.) Presents college algebra, analytic geometry, trigonometry, and algebraic exponential, and logarithmic functions. Prerequisite: MTE 1-9. (Credit will not be awarded for both MTH 163 and MTH 166.) Lecture 4-5 hours per week.

MTH 173 CALCULUS WITH ANALYTIC GEOMETRY I (4-5 cr.) Presents analytic geometry and the calculus of algebraic and transcendental functions including the study of limits, derivatives, differentials, and introduction to integration along with their applications. Designed for mathematical, physical and engineering science programs. Prerequisites: MTE 1-9 and placement recommendation for MTH 173. (Credit will not be awarded for more than one of MTH 173, MTH 175, or MTH 273.) Lecture 4-5 hours per week.

MTH 174 CALCULUS WITH ANALYTIC GEOMETRY II (4-5 cr.) Continues the study of analytic geometry and the calculus of algebraic and transcendental functions including rectangular, polar, and parametric graphing, indefinite and definite integrals, methods of integration, and power series along with applications. Designed for mathematical, physical, and engineering science programs. Prerequisite: MTH 173 or equivalent. (Credit will not be awarded for more than one of MTH 174, MTH 176, or MTH 274.) Lecture 4-5 hours per week.

MTH 175 CALCULUS OF ONE VARIABLE I (3 cr.) Presents differential calculus of one variable including the theory of limits, derivatives, differentials, anti-derivatives and applications to algebraic and transcendental functions. Designed for mathematical, physical, and engineering
MTH 176 CALCULUS OF ONE VARIABLE II (3 cr.) Continues the study of integral calculus of one variable including indefinite integral, definite integral and methods of integration with applications to algebraic and transcendental functions. Designed for mathematical, physical, and engineering science programs. Prerequisite: MTH 175 or equivalent. (Credit will not be awarded for more than one of MTH 173, MTH 175 or MTH 273.) Lecture 3 hours per week.

MTH 177 INTRODUCTORY LINEAR ALGEBRA (2 cr.) Covers matrices, vector spaces, determinants, solutions of systems of linear equations, and eigen values. Designed for mathematical, physical, and engineering science programs. Corequisite: MTH 175. Lecture 2 hours per week.

MTH 178 TOPICS IN ANALYTIC GEOMETRY (1-2 cr.) Covers conic sections, polar and parametric graphing. Designed for mathematical, physical, and engineering science programs. Co-requisite: MTH 176. Lecture 2 hours per week.

MTH 241 STATISTICS I (3 cr.) Covers descriptive statistics, elementary probability, probability distributions, estimation, and hypothesis testing. Prerequisites: ENF 3 or above, a placement recommendation for MTH 241 or MTH 163 or MTH 166 or equivalent. (Credit will not be awarded for both MTH 240 and MTH 241.) Lecture 3 hours per week.

MTH 242 STATISTICS II (3 cr.) Continues the study of estimation and hypothesis testing with emphasis on correlation ad regression, analysis of variance, chi-square tests, and non-parametric methods. Prerequisites: MTH 241 or equivalent. Lecture 3 hours per week.

MTH 271 APPLIED CALCULUS I (3 cr.) Presents limits, continuity, differentiation of algebraic and transcendental functions with applications, and an introduction to integration. Prerequisite: MTH 163 or MTH 166 or equivalent. (Credit will not be awarded for both MTH 270 and MTH 271.) Lecture 3 hours per week.

MTH 273 - CALCULUS I (4 cr.) Presents topics in differential calculus of one variable including the theory of limits, derivatives, differentials, definite and indefinite integrals and applications to algebraic and transcendental functions. Designed for mathematical, physical, and engineering science programs. Prerequisite: a placement recommendation for MTH 273 and four units of high school mathematics including Algebra I, Algebra II, Geometry and Trigonometry or equivalent. (Credit will not be awarded for more than one of MTH 173, MTH 175, MTH 273. Lecture 4 hours per week.

MTH 274 CALCULUS II (4 cr.) Covers vectors in three dimensions, definite integrals, methods of integration, indeterminate forms, partial differentiation, and multiple integrals. Designed for mathematical, physical, and engineering science programs. Prerequisite: MTH 273 or equivalent. (Credit will not be awarded for more than one of MTH 176 or MTH 274. Lecture 4 hours per week.

MECHANICAL ENGINEERING TECHNOLOGY (MEC)

MEC 113 MATERIALS AND PROCESSES OF INDUSTRY (3-4 cr.) Studies engineering materials and accompanying industrial manufacturing processes. Investigates nature of materials structure and properties from a design standpoint. Analyzes the effects of various processes on materials, and the processes themselves. Includes machining, casting, forming, soldering, hot/cold working, cipless machining, and welding. Addresses quality assurance and inspection procedures. Lecture 3-4 hours per week. Prerequisites: ENF 3 or above, MTE 1-6.

MEC 120 - Principles of Machine Technology (2-3 cr) Studies fundamental machine operations and practices, including layout, measuring devices, hand tools, drilling, reaming, turning between centers, cutting tapers and threads, and milling; fabrication of mechanical parts on drill press, lathe and mill. Lecture 2 hours. Laboratory 1-3 hours. Total 5 hours per week.

MEC 140 - INTRODUCTION TO MECHATRONICS (3 cr.) Presents foundational concepts in mechatronics including analog and digital electronics, sensors, actuators, microprocessors, and microprocessor interfacing to electromechanical systems. Surveys components and measurement equipment used in the design, installation, and repair of mechatronic equipment and circuits. Prerequisite: divisional approval. Lecture 2 hours. Laboratory 2 hours. Total 4 hours per week.

MEC 155 - MECHANISMS (2-3 cr.) Studies the purpose and actions of cams, gear trains, levers, and other mechanical devices used to transmit control. Focuses on motions, linkages, velocities, and acceleration of points within a link mechanism; layout method for designing cams and gear train. Requires preparation of weekly laboratory reports. Lecture 1-2 hours. Laboratory 2-4 hours. Total 3-5 hours per week.

MEC 165 - APPLIED HYDRAULICS, PNEUMATICS AND HYDROSTATICS (3 cr.) Teaches fluid power system design, operation, testing, maintenance and repair. Includes reservoirs, pump connecting valves, cylinders, pressure regulating valves, flow control valves, hydraulic motors, and introduction to basic hydrostatic hydraulic systems. Prerequisite: MEC 140 or ETR 140. Lecture 2 hours. Laboratory 3 hours. Total 5 hours per week.

MEC 195 APPLICATIONS IN FLUID POWER (2 cr.) Studies hydraulic power systems and basic circuits, pressure and flow, speed control, DCV’s, cylinders, relief valves, check valves, pumps and motors, accumulators and fluid conditioning.

MEC 195 APPLICATIONS IN MECHANICAL SYSTEMS (2 cr.) Teaches techniques for disassembly, inspection, lubrication, alignment and reassembly of industrial machinery. Includes hands on activities involving alignment of motor and pump shaft; tension of belt sheaves. Includes instruction on bearings, gears and pulley’s involving the proper assembly and disassembly.

MEC 230 - MECHATRONIC PROCESS CONTROL (3 cr.) Studies systems integrating mechanical components with electrical components and logic devices used to control manufacturing operations. Surveys electromechanical actuators, sensors, digital to analog conversion, and methods of computer control as related to the managing and monitoring of manufacturing processes. Prerequisite: MEC 140 or divisional approval. Lecture 2 hours. Laboratory 2 hours. Total 4 hours per week.

MEDICAL LABORATORY (MDL)

MDL 105 PLEBOTOMY (3-4 cr.) Introduces basic medical terminology,
anatomy, physiology, components of health care delivery and clinical laboratory structure. Teaches techniques of specimen collection, specimen handling, and patient interactions. Lecture 2 hours; Laboratory 2-6 hours. Total 5-8 hours per week. Prerequisite: Developmental English. (This course is not for certification.)

MENTAL HEALTH (MEN)

MEN 135 HUMAN SERVICES AND THE LAW (3 cr.) Examines current issues in mental health and impact of federal and state laws on delivery of services. Considers issues of civil commitment of the mentally ill and confidentiality and rights of clients. Add a focus on MR clients. Lecture 3 hours per week.

MOTORSPORTS MANAGEMENT AND TECHNOLOGY (MTS)

MTS 95 TOPICS IN MOTORSPORTS (1-5 cr.) Provides an opportunity to explore topical areas of interest to or needed by students. May be used also for special honors courses. May be repeated for credit. Variable hours.

MTS 100 INTRODUCTION TO MOTORSPORTS MANAGEMENT (3 cr.) Provides a survey of the motorsports industry. Includes history, growth, and economic impact of motorsports. Includes sanctioning organizations, classification and characteristics of vehicles, related to businesses and industries, financial issues, career opportunities, and other motorsports-related topics. Lecture 3 hours per week. Prerequisite: ENF 3 or above. Corequisite: MTS 95.

MTS 110 INTRODUCTION TO MOTORSPORTS MARKETING (3 cr.) Provides an overview of the principles of marketing goods and services related to the motorsports industry. Includes motorsports promotion, motorsports products, media impact, use of technology in motorsports marketing, motorsports sponsors, hospitality management, public relations, and other topics related to motorsports marketing. Lecture 3 hours per week. Prerequisite: ENF 3 or above. Corequisite: MTS 95.

MTS 126 MOTORSPORTS TECHNOLOGY II (3 cr.) Introduces the student to charging, ignition systems and fuel systems of Stock car racing. Provides hands-on experience with specialized ignition systems, charging systems, fuel cells, fuel delivery, carburetion, and backup systems. Lecture 2 hours. Laboratory 2 hours. Total 4 hours per week. Prerequisite: All developmental English requirements met, MTE 1-3, MTH 103, and MTS 125. Co-requisite: MTS 95 and PHY 131.

MTS 130 MOTORSPORTS STRUCTURAL TECHNOLOGY I (3 cr.) Introduces the student to the basic design and fabrication of a racecar. Develops skills for use of the tools, equipment, and materials in the production of a racecar. Emphasizes safety, accuracy, and aesthetics of the racecar and the work environment. Lecture 2 hours. Laboratory 2 hours. Total 4 hours per week. Prerequisite: All Developmental English requirements met, MTE 1-3, MTS 125 and WEL 130. Corequisite: MTS 95.

MTS 131 MOTORSPORTS STRUCTURAL TECHNOLOGY II (3 cr.) Introduces the student to the design and fabrication of a roll cage. Develops skills in the use of tools, equipment, and materials selection to bend, form, and fabricate the primary structural safety component. Emphasizes NASCAR and other sanctioning bodies’ specifications. Lecture 1 hour. Laboratory 4 hours. Total 5 hours per week. Prerequisite: MTS 130. Corequisite: MTS 95.

MTS 132 MOTORSPORTS STRUCTURAL TECHNOLOGY III (3 cr.) Introduces the student to the design and fabrication of body parts. Develops skills in the use of tools, equipment, and materials selection to bend, form, and fabricate the primary structural safety component. Emphasizes NASCAR and other sanctioning bodies’ specifications. Lecture 1 hour. Laboratory 4 hours. Total 5 hours per week. Prerequisite: MTS 130 and MTS 131. Corequisite: MTS 95.

MTS 135 SHEET METAL FABRICATION (3 cr.) Introduces sheet metal terminology, fabrication, and installation for covering structural framework of race cars. Provides project oriented, problem-based experiences with equipment and machinery used in the Motorsports Industry. Lecture 2 hour, Laboratory 2 hours. Total 4 hours per week. Corequisite: MTS 95 and MTS 295.

MTS 140 STOCK CAR ENGINES I (3 cr.) Provides a comprehensive study concerning all areas of race engines including cylinder block configuration and classification. Covers principles of race engine operation and subsystems. Included are lubrication systems (both wet and dry sump) and specialized cooling systems. Lecture 2 hours. Laboratory 2 hours. Total 4 hours per week. Prerequisites: All developmental English requirements met, and MTH 103 or MTH 163. Co-requisite: MTS 95 and PHY 131.

MTS 150 ENGINE MACHINING PROCESSES I (4 cr.) Introduces general machining techniques and practices relating to engines and fabrication of Stock Car engine parts. Includes applied mathematics operations found in machining race engines. Lecture 2 hours. Laboratory 4 hours. Total 6 hours per week. Prerequisites: All developmental English requirements met, and MTH 103 or MTH 163. Co-requisite: MTS 95 and PHY 131.

MTS 195 HIGH PERFORMANCE ENGINE INDUCTION SYSTEMS (3 cr.) Introduces the concepts and practices of modification in the upper engine systems. Includes carburetion, cylinder heads, intake manifold, valves, and components that supply gas and air to the engine. Hands on experiences will reinforce the research and development stages of the high performance engine horsepower output development. Lecture 2 hours. Laboratory 2 hours. Total 4 hours per week. Co-requisite: MTS 95 and PHY 131. Prerequisites: All developmental English requirements met, and MTH 103 or MTH 163.

MTS 205 MOTORSPORTS SAFETY, ENVIRONMENTAL, AND TRANSPORT ISSUES (3 cr.) Provides an overview of the safety, environmental, and transportation issues related to the motorsports industry. Includes workplace regulations; materials handling; transport of vehicles and other equipment; moving complex operations; housing of personnel; DOT regulations; and other issues related to the safety, environment, and transport in the motorsports industry. Lecture 3 hours per week. Prerequisites: ENF 3 or above. Co-requisite: MTS 95.

MTS 210 RACE CAR SETUP I (3 cr.) Introduces the student to basic chassis geometry. Develops skills to square the wheelbase, set ride heights, and establish proper weight distribution. Emphasizes teamwork, communication of settings, and accuracy in set up. Lecture 2 hours. Laboratory 2 hours. Total 4 hours per week. Prerequisite: All Developmental English requirements met, MTE 1-3, MTS 131. Co-requisite: MTS 95.

MTS 211 RACE CAR SETUP II (3-4 cr.) Exposes the student to advanced racecar geometry. Develops skills to engage in on-track adjustments for top performance of the vehicle. Emphasizes application of skills on-site and under race conditions. Lecture 2 hours.

MTS 240 STOCK CAR ENGINES II (3 cr.)
Introduces the student to the engine short block assembly and proper machining of the cylinder block. Employs various machining techniques needed to bore final size, relieve pressure, and lighten the cylinder block for assembly. Lecture 1 hour. Laboratory 4 hours. Total 5 hours per week. Prerequisites: MTS 140 and MTS 150. Co-requisite: MTS 95.

MTS 241 STOCK CAR ENGINES III (3 cr.)
Introduces the student to cylinder head machining and processes related to applications of racecar set-up and repair. Review processes performed in aluminum and cast iron head repair. Introduces stock car valve train flow characteristics and combustion chamber measurements. Lecture 1 hour. Laboratory 4 hours. Total 5 hours per week. Prerequisite: MTS 150. Co-requisite: MTS 95.

MTS 249 PROJECT IN MOTORSPORTS MARKETING (3 cr.)
Builds on basic marketing and management principles by applying them to real world Motorsports projects. Students will apply marketing techniques to market Motorsports products and services. Co-requisite: MTS 95.

MTS 298 DYNOMETER ENGINE PERFORMANCE (3 cr.)
Introduces the comprehensive use of the Engine Dynomometer within the high performance environment. Includes advanced theory and applications for engine performance factors. Provides hands on experiences with working engines. Lecture 2 hours. Laboratory 2 hours. Total 4 hours per week. Co-requisite: MTS 95, MTS 240 and MTS 250.

MUSIC (MUS)

MUS 121 MUSIC APPRECIATION I (3 cr.)
Increases the variety and depth of the student’s interest, knowledge, and involvement in music and related cultural activities. Acquaints the student with traditional and twentieth century music literature, emphasizing the relationship music has as an art form with man and society. Increases the student’s awareness of the composers and performers of all eras through listening and concert experiences. Part I of II. Lecture 3 hours per week. Prerequisite: ENF 3 or above.

NATURAL SCIENCE (NAS)

NAS 106 CONSERVATION OF NATURAL RESOURCES (3 cr.)
Describes the management of natural resources, balance of nature, and the human impact on the environment. Lecture 3 hours per week. Prerequisite: ENF 3 or above.

NAS 150 HUMAN BIOLOGY (3-4 cr.)
Surveys the structure and function of the human body. Applies principally to students who are not majoring in the health or science fields. Lecture 3-4 hours per week. Prerequisite ENF 3 or above and one high school college prep level science class with no grade below C.

NAS 195 INTRODUCTION TO EARTH SCIENCE (3 cr.)
Examines the dynamics of the earth and its relation to the solar system. Applies the principles of geology, oceanography, meteorology, and astronomy in a multi-disciplinary science environment. Stresses the effects of geologic processes on the environment. Lecture 3 hours per week. Prerequisite: ENF 3 or above.

NUR 111 NURSING I (7-8 cr.)
Introduces nursing principles including concepts of health and wellness and the nursing process. Develops nursing skills to meet the biopsychosocial needs of individuals across the lifespan. Includes math computational skills, basic computer instruction related to the delivery of nursing care, communication skills, introduction to nursing, health, the health care system, legal aspects of nursing care, diagnostic testing, assessment, teaching and learning, asepsis, body mechanics and safety, personal care, activity/rest, wound care, nutrition, elimination, oxygenation, fluid and electrolytes, pain control, medication administration, aging populations and pre/post operative care. Provides supervised learning experiences. Lecture 1-7 hours. Laboratory 2-21 hours. Total 9-22 hours per week. Prerequisite: Must be accepted in the ADN Nursing program. Co-requisite: BIO 231, PSY 230, NUR 135, SDV 101.

NUR 115 LPN TRANSITION (2-7 cr.)
Introduces the role of the registered nurse through concepts and skill development in the discipline of professional nursing. This course serves as a bridge course for licensed practical nurses and is based upon individualized articulation agreements, mobility exams, or other assessment criteria as they relate to local programs and service areas. Includes math computational skills and basic computer instruction related to the delivery of nursing care. (THIS COURSE HAS BEEN APPROVED BY THE VICE CHANCELLOR AS AN EXCEPTION TO THE VARIABLE CREDIT POLICY.) Lecture 1-7 hours. Laboratory 0-18 hours. Total 2-19 hours per week. Prerequisite: ENG 111, PSY 230, BIO 231, and SDV 108 and have been accepted into the ADN program. Co-requisites: NUR 118, NUR 247, and BIO 232.

NUR 118 FIRST LEVEL NURSING II (8 cr.)
Focuses on the nursing care of individuals and/or families throughout the lifespan experiencing changes along the health/illness continuum that are common, well-defined, and have predictable outcomes. Content includes math computational skills, basic computer instruction related to the delivery of nursing care; assessment and nursing care of the child; nursing care of productive health/disorders, pre/intra/postnatal child bearing family and musculoskeletal and neurological disorders. Provides supervised learning experiences in college nursing laboratory and/or cooperating agencies. Lecture 1-7 hours. Laboratory 2-21 hours.
Laboratory 2-27 hours. Total 11-28 hours per week. Co-requisite: NUR 254
Prerequisite: NUR 221

NUR 230 PHARMACOLOGY (3cr.)
Introduces general principles of drug action, pharmacology of the major drug classes, and specific agents within each class. Includes math calculations necessary to adapt dosages to the multidimensional needs of individuals across the lifespan. Lecture 3 hours per week. Prerequisite: a placement of ENF 3 or above.

NUR 247 PSYCHIATRIC/MENTAL HEALTH NURSING (3-4 cr.)
Develops nursing skills in caring for individuals, families, and/or groups with mental health needs. Explores various treatment models, diagnostic categories, and rehabilitative measures. Lecture 1-3 hours per week. Laboratory 0-9 hours. Total 3-9 hours per week.
Prerequisite: NUR 111. Co-requisites: NUR 118.

NUR 254 DIMENSIONS OF PROFESSIONAL NURSING (1-2 cr.)
Explores the role of the professional nurse. Emphasizes nursing organizations, legal and ethical implications, and addresses trends in management and organizational skills. Explores group dynamics, relationships, conflicts, and leadership styles. Lecture 1-2 hour per week. Prerequisite NUR 221. Co-requisite: NUR 222.

PHYSICAL EDUCATION AND RECREATION (PED)

PED 100 PILATES (1-2 cr.)
Provides a method of mind-body exercise and physical movement designed to stretch, strengthen, balance the body, and improve posture and core stabilization while increasing body awareness. Lecture 0-1 hours. Laboratory 2-4 hours. Total 2-4 hours per week.

PED 101 FUNDAMENTALS OF PHYSICAL ACTIVITY I (1-2 cr.)
Presents principles underlying the components of physical fitness. Utilizes conditioning activities involving cardiovascular strength and endurance, respiratory efficiency, muscular strength, and flexibility. May include fitness assessment, nutrition and weight control information, and concepts of wellness. Part I of II. Lecture 0-1 hours. Laboratory 2-4 hours. Total 2-4 hours per week.
Prerequisite: PED 101.

PED 103 AEROBIC FITNESS I (1-2 cr.)
Develops cardiovascular fitness though activities designed to elevate and sustain heart rates appropriate to age and physical condition. Part I of II. Lecture 0-1 hours. Laboratory 2-4 hours. Total 2-4 hours per week.

PED 104 AEROBIC FITNESS II (1-2 cr.)
Develops cardiovascular fitness though activities designed to elevate and sustain heart rates appropriate to age and physical condition. Part II of II. Lecture 0-1 hours. Laboratory 2-4 hours. Total 2-4 hours per week.

PED 105 AEROBIC DANCE I (1-2 cr.)
Focuses on physical fitness through dance exercises. Emphasizes the development of cardiovascular endurance, muscular endurance, and flexibility. Part I of II. Lecture 0-1 hours. Laboratory 2-4 hours. Total 2-4 hours per week.

PED 107 EXERCISE AND NUTRITION I (1-2 cr.)
Provides for the study and application of fitness and wellness and their relationship to a healthy lifestyle. Defines fitness and wellness, evaluates the student’s level of fitness and wellness. Students will incorporate physical fitness and wellness into the course and daily living. A personal fitness/wellness plan is required for the 2 credit course. Part I of II. Lecture 0-1 hours. Laboratory 2-4 hours. Total 2-4 hours per week.

PED 108 EXERCISE AND NUTRITION II (1-2 cr.)
Provides for the study and application of fitness and wellness and their relationship to a healthy lifestyle. Defines fitness and wellness, evaluates the student’s level of fitness and wellness. Students will incorporate physical fitness and wellness into the course and daily living. A personal fitness/wellness plan is required for the 2 credit course. Part II of II. Lecture 0-1 hours. Laboratory 2-4 hours. Total 2-4 hours per week.

PED 109 YOGA (1-2 cr.)
Focuses on the forms of yoga training emphasizing flexibility. Lecture 0-1 hours. Laboratory 2-4 hours. Total 2-4 hours per week.

PED 110 ZUMBA (1-2 cr.)
Focuses on Latin rhythms, dance moves and techniques in Zumba. Utilizes physical activity, cardiovascular endurance, balance,
coordinated and flexibility as related to dance. Lecture 0-1 hours. Laboratory 2-4 hours. Total 2-4 hours per week.

**PED 111 WEIGHT TRAINING I (1-2 cr.)**
Focuses on muscular strength and endurance training through individualized workout programs. Teaches appropriate use of weight training equipment. Part I of II. Lecture 0-1 hours. Laboratory 2-4 hours. Total 2-4 hours per week.

**PED 112 WEIGHT TRAINING II (1-2 cr.)**
Focuses on muscular strength and endurance training through individualized workout programs. Teaches appropriate use of weight training equipment. Part II of II. Lecture 0-1 hours. Laboratory 2-4 hours. Total 2-4 hours per week.

**PED 115 RECREATIONAL ACTIVITIES (1-2 cr.)**
Teaches card games, board games, and recreational lawn games appropriate for adults of all ages, including history application, and importance of games in society. Lecture 0-1 hours. Laboratory 2-4 hours. Total 2-4 hours per week.

**PED 117 FITNESS WALKING (1 cr.)**
Teaches content and skills needed to design, implement, and evaluate an individualized program of walking, based upon fitness level. Laboratory 2 hours per week.

**PED 118 BASEBALL FUNDAMENTALS I (1 cr.)**
Enhances the mental and physical ability of students for playing the sport of baseball. Consists of units related to weight training, flexibility, fielding, throwing, hitting, pitching, and position play. Students will gain knowledge about the history of the sport and gain an understanding and respect for the game and its role in society. Lecture 0-1 hours. Laboratory 2-4 hours. Total 2-4 hours per week.

**PED 119 BASEBALL FUNDAMENTALS II (1-2 cr.)**
Continues to enhance the mental and physical ability of students for playing the sport of baseball. Continues to teach the skills necessary to play the sport. Provides students with the opportunity to evaluate, train, and coach players in order to enhance others’ playing abilities. Provides an understanding of the multiple processes involved in forming a baseball team. Lecture 0-1 hours. Laboratory 2-4 hours. Total 2-4 hours per week.

**PED 120 YOGA II (1-2 cr.)**
Focuses on the forms of yoga training emphasizing flexibility. Lecture 0-1 hours. Laboratory 2 hours. Total 2-3 hours per week. Prerequisite: PED 109.

**PED 123 TENNIS I (1-2 cr.)**
Teaches tennis skills with emphasis on stroke development and strategies for individual and team play. Includes rules, scoring, terminology, and etiquette. Part I of II. Lecture 0-1 hours. Laboratory 2-4 hours. Total 2-4 hours per week.

**PED 124 TENNIS II (1-2 cr.)**
Teaches tennis skills with emphasis on stroke development and strategies for individual and team play. Includes rules, scoring, terminology, and etiquette. Part II of II. Lecture 0-1 hours. Laboratory 2-4 hours. Total 2-4 hours per week.

**PED 128 HORSEBACK RIDING (1-2 cr.)**
Presents riding seats and preparation for riding, care and grooming of a horse, selection, use and care of equipment, and safety. Prerequisite appropriate riding skills or instructor’s permission for advanced course. Lecture 0-1 hours. Laboratory 2-4 hours. Total 2-4 hours per week.

**PED 129 SELF-DEFENSE (1-2 cr.)**
Examines history, techniques, and movements associated with self-defense. Introduces the skills and methods of self-defense emphasizing mental and physical discipline. Lecture 0-1 hours. Laboratory 2-4 hours. Total 2-4 hours per week.

**PED 130 GOLF I (1-2 cr.)**
Teaches basic skills of golf, rules, etiquette, scoring, terminology, equipment selection and use, and strategy. Part I of II. Lecture 0-1 hours. Laboratory 2-4 hours. Total 2-4 hours per week.

**PED 131 GOLF II (1-2 cr.)**
Teaches basic skills of golf, rules, etiquette, scoring, terminology, equipment selection and use, and strategy. Part II of II. Lecture 0-1 hours. Laboratory 2-4 hours. Total 2-4 hours per week.

**PED 133 BOWLING I (1-2 cr.)**
Teaches bowling skills and techniques, scoring, rules, etiquette, and terminology. Part I of II. Lecture 0-1 hours. Laboratory 2-4 hours. Total 2-4 hours per week.

**PED 134 BOWLING II (1-2 cr.)**
Teaches bowling skills and techniques, scoring, rules, etiquette, and terminology. Part II of II. Lecture 0-1 hours. Laboratory 2-4 hours. Total 2-4 hours per week.

**PED 135 JAZZ I (1-2 cr.)**
Introduces dance through contemporary jazz movements. Includes floor stretches, isolations, dance patterns and locomotor movements. Part I of II. Lecture 0-1 hours. Laboratory 2-4 hours. Total 2-4 hours per week. Prerequisite: PED 150.

**PED 136 JAZZ II (1-2 cr.)**
Introduces dance through contemporary jazz movements. Includes floor stretches, isolations, dance patterns and locomotor movements. Part II of II. Lecture 0-1 hours. Laboratory 2-4 hours. Total 2-4 hours per week.

**PED 137 MARTIAL ARTS I (1-2 cr.)**
Emphasizes forms, styles, and techniques of body control, physical and mental discipline, and physical fitness. Presents a brief history of development of martial arts theory and practice. Part I of II. Lecture 0-1 hours. Laboratory 2-4 hours. Total 2-4 hours per week.

**PED 138 MARTIAL ARTS II (1-2 cr.)**
Emphasizes forms, styles, and techniques of body control, physical and mental discipline, and physical fitness. Presents a brief history of development of martial arts theory and practice. Part II of II. Lecture 0-1 hours. Laboratory 2-4 hours. Total 2-4 hours per week.

**PED 149 CARDIO SCULPT I (1-2 cr.)**
Combines strength training and cardiovascular workouts that strengthen the major muscle groups as well as developing endurance. Lecture 0-1 hours. Laboratory 2-4 hours. Total 2-4 hours per week.

**PED 150 SOCCER (1-2 cr.)**
Emphasizes soccer skills and techniques, rules, equipment, and physical conditioning. Lecture 0-1 hours. Laboratory 2-4 hours. Total 2-4 hours per week.

**PED 152 BASKETBALL (1-2 cr.)**
Introduces basketball skills, techniques, rules, and strategies. Lecture 0-1 hours. Laboratory 2-4 hours. Total 2-4 hours per week.

**PED 154 VOLLEYBALL (1-2 cr.)**
Introduces skills, techniques, strategies, rules, and scoring. Lecture 0-1 hours. Laboratory 2-4 hours. Total 2-4 hours per week.

**PED 156 SOFTBALL (1-2 cr.)**
Emphasizes softball skills, techniques, strategies, and rules. Lecture 0-1 hours. Laboratory 2-4 hours. Total 2-4 hours per week.

**PED 157 SOCCER II (1-2 cr.)**
Emphasizes advanced soccer skills and techniques, strategies, rules, equipment, and physical conditioning. Lecture 0-1 hours. Laboratory 2 hours. Total 2-3 hours per week. Prerequisite: PED 150.

**PED 163 JAZZ I (1-2 cr.)**
Introduces dance through contemporary jazz movements. Includes floor stretches, isolations, dance patterns and locomotor movements. Part I of II. Lecture 0-1 hours. Laboratory 2-4 hours. Total 2-4 hours per week.

**PED 206 SPORTS APPRECIATION (2 cr.)**
Focuses on the history, trends, rules, methods, strategy, and terminology of selected sports activities. Provides student awareness as a spectator and/or participant. Lecture 2 hours per week. Prerequisite: ENF 3 or above.
PED 210 INTRODUCTION TO PHYSICAL EDUCATION AND HEALTH (3 cr.) Provides an overview of the historical, philosophical, psychological, physiological, and sociological principles of health, physical education, and recreation. Lecture 3 hours per week. Prerequisite: ENF 3 or above.

PED 220 ADULT HEALTH AND DEVELOPMENT (2-3 cr.) Provides direct application of the theories of aging and physical activity. Teaches techniques for developing appropriate individualized fitness and activity programs for older adults. Focuses on physical, social, and mental well-being. Includes assessment and evaluation of physical fitness principles, role of exercise in disease prevention, leadership skills and communication strategies. Lecture 1-2 hours. Laboratory 2 hours. Total 3-4 hours per week. Prerequisite: ENF 3 or above.

PHILOSOPHY (PHI)

PHI 101 INTRODUCTION TO PHILOSOPHY I (3 cr.) Introduces a broad spectrum of philosophical problems and perspectives with an emphasis on the systematic questioning of basic assumptions about meaning, knowledge, reality, and values. Part I of II. Lecture 3 hours per week. Prerequisites: ENF 3 or above.

PHI 111 LOGIC I (3 cr.) Introduces inductive and deductive reasoning, with an emphasis on common errors and fallacies. Lecture 3 hours per week. Prerequisites: ENF 3 or above.

PHI 220 ETHICS (3 cr.) Provides a systematic study of representative ethical systems. Lecture 3 hours per week. Prerequisites: ENF 3 or above.

PHYSICS (PHY)

PHY 131 APPLIED PHYSICS I (3 cr.) Emphasizes applications of topics such as precision measurement, statics, dynamics, energy, momentum, properties of matter, heat, sound, optics, electricity and magnetism. Prerequisites: PHY 131, high school algebra, geometry and trigonometry, or equivalent or divisional approval. Part I of II. Lecture 2 hours. Laboratory 2 hours. Total 4 hours per week.

PHY 201 GENERAL COLLEGE PHYSICS I (4 cr.) Teaches fundamental principles of physics. Covers mechanics, thermodynamics, wave phenomena, electricity and magnetism, and selected topics in modern physics. Part I of II. Lecture 3 hours. Laboratory 3 hours. Total 6 hours per week. Prerequisite: MTH 163, ENF 3 or above.

PHY 202 GENERAL COLLEGE PHYSICS II (4 cr.) Teaches fundamental principles of physics. Covers mechanics, thermodynamics, wave phenomena, electricity and magnetism, and selected topics in modern physics. Part II of II. Lecture 3 hours. Laboratory 3 hours. Total 6 hours per week. Prerequisite: PHY 201, MTH 163.

PHY 241 UNIVERSITY PHYSICS I (4 cr.) Teaches principles of classical and modern physics. Includes mechanics, wave phenomena, heat, electricity, magnetism, relativity, and nuclear physics. Prerequisite for PHY 241—MTH 173 or MTH 273 or divisional approval. Part I of II. Lecture 3 hours. Laboratory 3 hours. Total 6 hours per week. Prerequisite for PHY 242—MTH 174 or MTH 274 or divisional approval. Prerequisites: ENF 3 or above.

PHY 242 UNIVERSITY PHYSICS II (4 cr.) Teaches principles of classical and modern physics. Includes mechanics, wave phenomena, heat, electricity, magnetism, relativity, and nuclear physics. Part II of II. Lecture 3 hours. Laboratory 3 hours. Total 6 hours per week. Prerequisite for PHY 241—MTH 173 or MTH 273 or divisional approval. Prerequisite: PHY 241. Prerequisite for PHY 242—MTH 174 or MTH 274 or divisional approval.

POLITICAL SCIENCE (PLS)

PLS 135 AMERICAN NATIONAL POLITICS (3 cr.) Teaches political institutions and processes of the national government of the United States, focuses on the Congress, presidency, and the courts, and on their inter-relationships. Gives attention to public opinion, suffrage, elections, political parties, interest groups, civil rights, domestic policy, and foreign relations. Lecture 3 hours per week. Prerequisites: ENF 3 or above.

PLS 211 U.S. GOVERNMENT I (3 cr.) Teaches structure, operation, and process of national, state, and local governments. Includes in-depth study of the three branches of the government and of public policy. Part I of II. Lecture 3 hours per week. Prerequisites: ENF 3 or above. May be taken out of sequence.

PLS 212 U.S. GOVERNMENT II (3 cr.) Teaches structure, operation, and process of national, state, and local governments. Includes in-depth study of the three branches of the government and of public policy. Part II of II. Lecture 3 hours per week. Prerequisites: ENF 3 or above. May be taken out of sequence.

PRACTICAL NURSING (PNE)

PNE 141 NURSING SKILLS I (2-3 cr.) Studies principles and procedures essential to the basic nursing care of patients. Lecture 0-2 hour per week. Part I of II. Laboratory 3-6 hours per week. Total 5-7 hours per week. Co-requisites: NAS 150, NUR 135, & PNE 161.

PNE 142 NURSING SKILLS II (2-3 cr.) Studies principles and procedures essential to the basic nursing care of patients. Lecture 0-2 hour per week. Part II of II. Laboratory 3-6 hours per week. Total 5-7 hours per week. Co-requisites: NAS 150, NUR 135, & PNE 161, HLT 141. Must be accepted to the PN Program.


PNE 161 NURSING IN HEALTH CHANGES I (6-7 cr.) Focuses on nursing situations and procedures necessary to assist individuals in meeting special needs related to human functions. Lecture 2-4 hours. Laboratory 6-15 hours. Total 10-17 hours per week. Co-requisite: HLT 141; PNE 141; PNE 142, NAS 150. Must be accepted to the PN Program.

PNE 163 NURSING IN HEALTH CHANGES III (8-9 cr.) Continues the focus on nursing situations and procedures necessary to assist individuals in meeting special needs related to human functions. Lecture 4-5 hours. Laboratory 9-15 hours. Total 14-19 hours per week. Prerequisite: PNE 161. PNE 141, PNE 142, PNE 163. Co-requisite: PSY 230, HLT 141. Must be accepted to the PN Program.
PSY164 NURSING IN HEALTH CHANGES IV (10-11 cr.) Continues the focus on nursing situations and procedures necessary to assist individuals in meeting special needs related to human functions. Lecture 4-6 hours. Laboratory 12-21 hours. Total 18-25 hours per week.

PSY158 MENTAL HEALTH AND PSYCHIATRIC NURSING (1-2 cr.) Recognizes emotional needs of patients. Provides knowledge of the role that emotions play. Enables students to understand their own behavior as well as patient behavior. Lecture 1-2 hours per week.

PSY173 PHARMACOLOGY FOR PRACTICAL NURSES (2 cr.) Studies history, classification, sources, effects, uses and legalities of drugs. Teaches problem solving skills used in medication administrations. Emphasizes major drug classes and specific agents within each class. Lecture 1-2 hours per week. Co-requisites: PNE 163.

PSYCOLOGY (PSY)

PSY 126 PSYCHOLOGY FOR BUSINESS AND INDUSTRY (3 cr.) Focuses on the application of psychology to interpersonal relations and the working environment. Includes topics such as group dynamics, motivation, employee-employer relationship, and interpersonal communications. May include techniques for selection and supervision of personnel. Lecture 3 hours per week.

PSY 135 CHILD CARE PSYCHOLOGY (3 cr.) Analyzes the development of the child from conception to adolescence with concentration on physical, cognitive, emotional, and social growth patterns. Includes theory, research, and practical applications. Provides background for careers involving continuous work with children. Lecture 3 hours per week. Prerequisites: ENF 3 or above.

PSY 200 PRINCIPLES OF PSYCHOLOGY (3 cr.) Surveys the basic concepts of psychology. Covers the scientific study of behavior, behavioral research methods and analysis, and theoretical interpretations. Includes topics that cover physiological mechanisms, sensation/perception, motivation, learning, personality, psychopathology, therapy, and social psychology. Lecture 3 hours per week. Prerequisites: ENF 3 or above, ITE 95. NOTE: Credit will not be awarded for both PSY 200 and PSY 201.

PSY 215 ABNORMAL PSYCHOLOGY (3 cr.) Explores historical views and current perspectives of abnormal behavior. Emphasizes major diagnostic categories and criteria, individual and social factors of maladaptive behavior, and types of therapy. Includes methods of clinical assessment and research strategies. Lecture 3 hours per week. Prerequisite: PSY 200, 201, or 202.

PSY 216 SOCIAL PSYCHOLOGY (3 cr.) Examines individuals in social contexts, their social roles, group processes and intergroup relations. Includes topics such as small group behavior, social behavior, social cognition, conformity, attitudes, and motivation. Lecture 3 hours per week. Prerequisite: PSY 200, 201, or 202.

PSY 219 - CROSS-CULTURAL PSYCHOLOGY (3 cr.) Investigates psychological principles from a cross-cultural perspective. Examines cultural basics for views of reality. Describes topics such as time, space, values, sex-roles, and human development in relation to culture. Prerequisites: PSY 200, 201 or 202. Lecture 3 hours per week.

PSY 230 DEVELOPMENTAL PSYCHOLOGY (3 cr.) Studies the development of the individual from conception to death. Follows a life-span perspective on the developmental tasks of the person’s physical, cognitive, and psychosocial growth. Lecture 3 hours per week. Prerequisites: ENF 3 or above.

PSY 235 CHILD PSYCHOLOGY (3 cr.) Studies development of the child from conception to adolescence. Investigates physical, intellectual, social and emotional factors involved in the child’s growth. Lecture 3 hours per week. Prerequisites: ENF 3 or above.

REL 232 RELIGIONS OF THE WORLD II (3 cr.) Studies religions of the world with attention to origin, history, and doctrine. Part II of II. Lecture 3 hours per week. Prerequisite: ENF 3 or above.

RECREATION AND PARKS (RPK)

RPK 100 INTRODUCTION TO RECREATION, PARKS & LEISURE STUDIES (3 cr.) Includes history and philosophy of the Recreation and Parks Movement. Discusses the theories of leisure and play. Analyzes leisure service delivery systems and career opportunities. Emphasizes the commercial, non-profit and public sectors, Armed Forces, therapeutic recreation as well as volunteer service. Prerequisite: ENG 111. Lecture 3 hours per week.

RPK 135 PROGRAM PLANNING (3 cr.) Includes principles of program planning in the recreation setting. Analyzes participants’ needs and demands, as well as social, physical, and psychological characteristics. Explains how to organize and lead programs. Includes a leadership practicum. Prerequisite: Completion of concurrent enrollment in RPK Leadership & Supervision. Lecture 3 hours. Laboratory 2 hours. Total 5 hours per week. Prerequisite: ENF 3 or above.

RPK 141 LEADERSHIP AND SUPERVISION (3 cr.) Introduces leadership and supervision in the leisure services industry. Assesses leadership styles, traits and leadership theories and provides the opportunity for students to assess their own individual styles. Addresses group dynamics, conflict, and issue relating specifically to leadership of volunteers. Includes a leadership practicum. Lecture 2 hours. Laboratory 2 hours. Total 4 hours per week. Prerequisite: ENF 3 or above.

RPK 146 RECREATION FACILITIES MANAGEMENT & DESIGN (3 cr.) Introduces concepts of facilities planning, site analysis, planning and zoning strategies, and landscape design. Emphasizes the creation and maintenance of “people-space”. Presents issues regarding community development, needs assessment, facility planning and design, geographic use patterns and demographics. Includes field experience. Prerequisite: Advanced standing. Lecture 2 hours. Laboratory 2 hours. Total 4 hours per week. Prerequisite: ENF 3 or above.
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<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Description</th>
<th>Prerequisites/Notes</th>
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<tbody>
<tr>
<td>RPK 152</td>
<td>SPORTS FIRST AID &amp; SAFETY (1 cr.)</td>
<td>Focuses on the introduction to first aid protocols causes, signs and symptoms of injury for coaches, injury prevention, preseason physicals, fitness screenings, and conditioning programs and return to play guidelines, injury prevention and risk management, as well as the design and implementation of a medical emergency plan. Lab 2 hrs. per week.</td>
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<tr>
<td>RPK 201</td>
<td>RECREATION AND PARKS MANAGEMENT (3 cr.)</td>
<td>Examines organization and management of recreation and park agencies. Discusses theories and principles of management, organizational behavior, budget preparation, hiring preparation, hiring practices and personnel management, documentation and presentation. Examines software specific to recreation facility and program management. Lab 2 hrs. per week.</td>
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<tr>
<td>RPK 210</td>
<td>PRINCIPLES AND PSYCHOLOGY OF COACHING (3 cr.)</td>
<td>Offers analysis of volunteer coaching and the coaching profession planning process including; philosophy development, learning styles and outcomes, managing parents and players, skills development, risk management, financial planning, drugs and eating disorders in sport and physical training. Lab 2 hrs. Lab 2 hours. Total 4 hrs. per week. Prerequisite: ENF 3 or above.</td>
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<tr>
<td>RPK 265</td>
<td>RISK MANAGEMENT (3 cr.)</td>
<td>Discusses the law and liability as they relate to the delivery of leisure services. Teaches practitioners legal principles necessary to analyze programs and facilities with respect to safety, emergency preparedness, and accident reporting protocols. Review hiring procedures, ADA compliance, national (CPSC, ASTM, OSHA) and professional standards (NRPA, ACA), certification and training standards (CPRP, CTRS), supervision and the role of maintenance and insurance. Uses case law and national compliance standards to illustrate legal principles. Prerequisite: Advanced standing. Lab 3 hrs. per week. Prerequisite: ENF 3 or above.</td>
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<tr>
<td>RUS</td>
<td>RUSSIAN (RUS)</td>
<td>Emphasizes the reading, and writing of Russian, and develops the understanding, speaking, writing, and reading of Russian, and emphasizes the structure of the language. May include oral drill and practice. Part I of II. Lab 4-5 hrs. per week. May include one additional hour of oral practice per week.</td>
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<td>RUS 102</td>
<td>BEGINNING RUSSIAN II (4-5 cr.)</td>
<td>Develops the understanding, speaking, reading, and writing of Russian, and emphasizes the structure of the language. May include oral drill and practice. Part II of II. Lab 4-5 hrs. per week. May include one additional hour of oral practice per week.</td>
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<tr>
<td>SAF</td>
<td>SAFETY (SAF)</td>
<td>Provides basic understanding of safety and health in an industrial situation. Includes hazardous materials, substances, conditions, activities and habits as well as the prescribed methods and equipment needed for the apprentice to protect himself/herself and others. Will provide training in the OSHA 10 hour training.</td>
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<tr>
<td>SOC 200</td>
<td>PRINCIPLES TO SOCIOLOGY (3 cr.)</td>
<td>Introduces fundamentals of social life. Presents significant research and theory in areas such as culture, social structure, socialization, deviance, social stratification, and social institutions. Lab 3 hrs. per week. Prerequisite: ENF 3 or above. Note: Credit will not be awarded for both SOC 200 and SOC 201.</td>
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<tr>
<td>SOC 207</td>
<td>MEDICAL SOCIOLOGY (3 cr.)</td>
<td>Surveys the social, economic, cultural, and individual factors in health and illness. Examines issues of wellness, health-care systems, physician-nurse-patient relationships, medical costs, ethics and policy. Lab 3 hrs. per week.</td>
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<tr>
<td>SOC 215</td>
<td>SOCIOLOGY OF THE FAMILY (3 cr.)</td>
<td>Studies topics such as marriage and family in social and cultural context. Addresses the single scene, dating and marriage styles, child rearing, husband and wife interaction, single parent families, alternative lifestyles. Lab 3 hrs. per week. Prerequisite: ENF 3 or above.</td>
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<tr>
<td>SOC 226</td>
<td>HUMAN SEXUALITY (3 cr.)</td>
<td>Studies sociological research and theory on sexuality. Includes anatomy and physiology, birth control, sexually transmitted diseases and sexual behavior. Also approved for offering as HLT 136. Lab 3 hrs. per week. Prerequisite: ENF 3 or above.</td>
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<tr>
<td>SOC 245</td>
<td>SOCIOLOGY OF AGING (3 cr.)</td>
<td>Introduces study of aging with special emphasis on later stages of the life cycle. Includes theories of aging, historical and comparative settings, social policy, and future trends of aging. Lab 3 hrs. per week.</td>
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<tr>
<td>SPA 101</td>
<td>BEGINNING SPANISH I (4-5 cr.)</td>
<td>Introduces understanding, speaking, reading, and writing skills and emphasizes basic Spanish sentence structure. May include an additional hour of oral drill and practice per week. Lab 4-5 hrs. per week. May include one additional hour of oral practice per week. Part I of II. Prerequisite: ENF 3 or above.</td>
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<tr>
<td>SPA 102</td>
<td>BEGINNING SPANISH II (4-5 cr.)</td>
<td>Introduces understanding, speaking, reading, and writing skills and emphasizes basic Spanish sentence structure. May include an additional hour of oral drill and practice per week. Lab 4-5 hrs. per week. May include one additional hour of oral practice per week. Part II of II. Prerequisite: ENF 3 or above.</td>
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<td>SPA 103</td>
<td>BASIC SPoken SPANISH I (3 cr.)</td>
<td>Teaches oral communication and introduces cultural mores and customs to students with no prior instruction in the language. Part I of II. Lab 3 hrs. per week.</td>
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<tr>
<td>SPA 104</td>
<td>BASIC SPoken SPANISH II (3 cr.)</td>
<td>Teaches oral communication and introduces cultural mores and customs to students with no prior instruction in the language. Part II of II. Lab 3 hrs. per week.</td>
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<tr>
<td>SPA 163</td>
<td>SPANISH FOR HEALTH PROFESSIONALS I (3 cr.)</td>
<td>Introduces Spanish to those in the health sciences. Emphasizes oral communication and practical medical vocabulary. May include oral drill and practice. Part I of II. Lab 3 hrs. per week.</td>
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<tr>
<td>SPA 164</td>
<td>SPANISH FOR HEALTH PROFESSIONALS II (3 cr.)</td>
<td>Introduces Spanish to those in the health sciences. Emphasizes oral communication and practical medical vocabulary. May include oral drill and practice. Part II of II. Lab 3 hrs. per week.</td>
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SPA 201 INTERMEDIATE SPANISH (3-4 cr.)
Continues to develop understanding, speaking, reading, and writing skills.
Prerequisite: SPA 102 or equivalent. May include oral drill and practice. Part I of II.
Lecture 3-4 hours per week. May include one additional hour of oral practice per week.

SPA 202 INTERMEDIATE SPANISH (3-4 cr.)
Continues to develop understanding, speaking, reading, and writing skills.
Prerequisite: SPA 102 or equivalent. May include oral drill and practice. Part II of II.
Lecture 3-4 hours per week. May include one additional hour of oral practice per week.

STUDENT DEVELOPMENT (SDV)

SDV 100 COLLEGE SUCCESS SKILLS (1 cr.)
Assists students in transition to colleges. Provides overviews of college policies, procedures, and curricular offerings. Encourages contacts with other students and staff.
Assists students toward college success through information regarding effective study habits, career and academic planning, and other college resources available to students. Strongly recommended for beginning students. Lecture 1 hour per week. Co-requisite: ENF 1.

SDV 101 ORIENTATION TO (Specify the discipline.) (1-3 cr.)
Introduces students to the skills which are necessary to achieve their academic goals, to the services offered at the college and to the discipline in which they are enrolled. Covers topics such as services at the college including the learning resources center; counseling, and advising; listening, test taking, and study skills; and topical areas which are applicable to their particular discipline. Lecture 1-3 hour per week. Co-requisite: ENF 1.

SDV 104 STUDY SKILLS (1-3 cr.)
Assists students in planning strategies to overcome nonproductive study habits and in implementing positive study behaviors. Includes management, memory improvement, note taking, and test taking.
Lecture 1-3 hours per week.

SDV 106 PREPARATION FOR EMPLOYMENT (1-2 cr.)
Provides experience in resume writing, preparation of applications, letters of application, and successfully preparing for and completing the job interview. Assists students in identifying their marketable skills and aptitudes. Develops strategies for successful employment search. Assists students in understanding effective human relations techniques and communication skills in job search. Lecture 1-2 hours per week.

SDV 107 CAREER EDUCATION (1-3 cr.)
Surveys career options available to students. Stresses career development and assists in the understanding of self in the world of work. Assists students in applying decision-making to career choice. Lecture 1-3 hours per week.

SDV 108 COLLEGE SURVIVAL SKILLS (1-3 cr.)
Provides an orientation to the college. Introduces study skills, career and life planning. Offers an opportunity to engage in activities aimed at self-discovery. Emphasizes development of “coping skills” such as listening, interpersonal relations, competence, and improved self-concept. Lecture 1-3 hours per week. Co-requisite: ENF 1.

SDV 199 SUPERVISED STUDY IN TRANSFER PROGRAMS (1 cr.)
Provides experience in preparation of application to senior institutions, exploring degrees and programs of study at the senior institutions, assessment of core competencies, and assistance with other needs such as housing, study habits, and financial aid when transitioning from the community college to the senior institution. Assists students in understanding differences in community college life and academics and the senior institution. Assists students in understanding differences in community college life and academics and the senior institution. Assists students in understanding differences in community college life and academics and the senior institution. Assists students in understanding differences in community college life and academics and the senior institution.
Lecture 1 hour per week. Prerequisites: ENG 111, and completion of 33 semester hours or more in a transfer program of study.

VITICULTURE (VEN)

VEN 100 INTRODUCTION TO VITICULTURE (3 cr.)
Introduces grapes, their history, distribution, classification and areas of production. Provides an overview of grape uses and products made from them. Includes site selection and environmental factors that affect grapes and their quality.
Lecture 3 hours per week.

VEN 110 VINEYARD ESTABLISHMENT (3 cr.)
Reviews sites, soils, and other factors that affect the planting of grapes. Covers vineyard designs, varieties, and the training of newly planted vines. Includes weed control and pest management of new vines.
Lecture 2 hours. Laboratory 2 hours. Total 4 hours per week.

VEN 120 VITICULTURE I (3 cr.)
Studies grape vine training, pruning, trellising, shoot positioning, leaf pulling, and other cultural practices used in a successful vineyard. Examines canopy management as related to disease control. Researches sites and develops skills in disease abatement.
Lecture 2 hours. Laboratory 2 hours. Total 4 hours per week.

VEN 121 VITICULTURE II (3 cr.)
Explores late season canopy management as it relates to fruit maturity and fruit ripening. Emphasizes field experience with diseases and their effect on fruit quality as fruit matures and becomes ready for harvest.
Prerequisite: VEN 120. Lecture 2 hours. Laboratory 2 hours. Total 4 hours per week.

VEN 125 VINEYARD MANAGEMENT (3 cr.)
Studies the overall practices involved in vineyard management with emphasis on diseases and insects as they affect overall quality of grapes. Surveys grape harvest and grape maturity as it affects wine quality. Provides hands-on experience in the harvest process.
Prerequisite: VEN 121. Lecture 2 hours. Laboratory 2 hours. Total 4 hours per week.

VEN 130 INTRODUCTION TO WINE MAKING (3 cr.)
Introduces the process of wine making – both home and commercial wines. Describes the science involved in the production of wine and its various types. Delivers hands-on projects.
Lecture 2 hours. Laboratory 2 hours. Total 4 hours per week.

VEN 135 WINE PRODUCTION (3 cr.)
Describes the production of commercial wine production from the grape to the bottle – including crush, fermenting and aging. Provides experience in the production of sample units of various wines.
Prerequisite: VEN 130. Lecture 2 hours. Laboratory 2 hours. Total 4 hours per week.

VEN 140 VITICULTURE PEST AND DISEASE MANAGEMENT (3 cr.)
Investigates grape diseases, grape insects and grape pests. Studies and evaluates methods of disease and pest control with an investigation of natural and chemical measures.
Provides field experience in pest and disease management.
Lecture 2 hours. Laboratory 2 hours. Total 4 hours per week.

VEN 190 COORDINATED INTERNSHIP (1-5 cr.)
Supervises on-the-job training in selected business, industrial or service firms coordinated by the college. Credit/practice ratio not to exceed 1:5 hours. May be repeated for credit. Variable hours.
Prerequisite: VEN 121, VEN 125
WELDING (WEL)

WEL 117 OXYFUEL WELDING AND CUTTING (3-4 cr.) Introduces history of oxyacetylene welding, principles of welding and cutting, nomenclature of the equipment, development of the puddle, running flat beads, butt-welding in different positions. Also explains brazing, silver and soft soldering, and heat-treating of small tools, safety procedures in the use of tools and equipment. Lecture 2 hours. Laboratory 3-6 hours. Total 5-8 hours per week.

WEL 123 SHIELDED METAL ARC WELDING (BASIC) (3-4 CR.) Teaches operation of AC and DC power sources, welding polarities, heats and electrodes for use in joining various metal alloys by the arc welding process. Deals with running beads, butt, and fillet welds in all positions. Emphasizes safety procedures. Lecture 2 hours. Laboratory 3-6 hours. Total 5-8 hours per week.

WEL 124 SHIELDED METAL ARC WELDING (ADVANCED) (3-4 cr.) Continues instruction on operation of AC and DC power sources, welding polarities, heats and electrodes for use in joining various metal alloys by the arc welding process. Deals with running beads, butt, and fillet welds in all positions. Emphasizes safety procedures. Lecture 2 hours. Laboratory 3-6 hours. Total 5-8 hours per week.

WEL 126 PIPE WELDING I (3-4 cr.) Teaches metal arc welding processes including the welding of pressure piping in the horizontal, vertical, and horizontal-fixed positions in accordance with section IX of the ASME Code. Lecture 2-3 hours. Laboratory 3 hours. Total 5 hours per week.

WEL 130 INERT GAS WELDING (3-4 cr.) Introduces practical operations in the uses of inert-gas-shield arc welding. Discusses equipment, safety operations, welding practice in the various positions process applications, and manual and semi-automatic welding. Lecture 2 hours. Laboratory 3-6 hours. Total 5-8 hours per week.

WEL 141 WELDER QUALIFICATION TESTS I (3-4 cr.) Studies techniques and practices of testing welded joints through destructive and non-destructive tests. Part I of II. Lecture 2 hours. Laboratory 3-6 hours. Total 5-8 hours per week.

WEL 142 WELDER QUALIFICATION TESTS II (3-4 cr.) Studies techniques and practices of testing welded joints through destructive and non-destructive tests. Part II of II.

WEL 145 WELDING METALLURGY (3-4 cr.) Studies steel classifications, heat treatment procedures, properties of ferrous and non-ferrous metals. Discusses techniques and practices of testing welded joints and destructive/nondestructive, visual magnetic and fluorescent testing. Lecture 2-3 hours. Laboratory 0-2 hours. Total 3-5 hours per week.

WEL 150 WELDING DRAWING AND INTERPRETATION (2-3 cr.) Teaches fundamentals required for successful drafting as applied to the welding industry. Includes blueprint reading, geometric principles of drafting and freehand sketching, basic principles of orthographic projection, preparation of drawings and interpretation of symbols. Lecture 2-3 hours per week.

WEL 198 SEMINAR AND PROJECT (1-5 cr.) Requires completion of a project or research report related to the student's occupational objectives and a study of approaches to the selection and pursuit of career opportunities in the field. May be repeated for credit. Variable hours.
Workforce Development & Continuing Education
Workforce Development and Continuing Education (WDCE)

WDCE aligns education and economic development to extend workforce development courses, training and programs into the community. WDS serves employers through flexible and customized training; prepares the emerging workforce by providing students with greater access to career options; and, offers portable skills and credentials to the incumbent and displaced workforce.

We have programs to serve business and industry; individuals seeking employment, skills development, credentialing or career training; and lifelong learners looking for engaging ways to enrich their lives. Continuing education may be in the form of credit or non-credit courses, online courses, or other formats such as workshops, assessments or on-the-job training.

We strive to offer programs and courses that are requested within our service region. If you are interested in a course listed in this catalog, or have a request, please contact us at wdce@ph.vccs.edu or (276) 656-0260.

Our Mission

WDCE is committed to plan, promote, and provide quality custom designed training and alternate learning opportunities for anyone, at any place, at any time to support improved quality of life and a vibrant community.

Non-Credit Courses

Non-credit courses are specialized offerings designed to provide the educational needs of the lifelong learners in our community. Although no college credit will be awarded for these programs, students may earn continuing education units (CEU’s) or Continuing Professional Education (CPE). Certificates of completion are awarded for each course listing for continuing education documentation purposes.

The Artisan Center

WDCE has oversight of operations off-campus at the Artisan Center in uptown Martinsville. The Artisan Center, a program of PHCC, houses the area’s Visitor Center and operates as a destination for tourism and learning. Skills-based educational programs prepare students for employment in the craft of their choice. The Artisan Center is also a retail store that showcases the creations of local and regional artisans, which includes many of our students and faculty. Culinary Arts programs are offered in the fully equipped restaurant kitchen. Non-credit workshops and seminars are designed to meet the on-going professional development needs of existing artisans and culinarians, as well as the learning needs of youth and others interested in short term training.
EMPLOYER SERVICES

WDCE serves regional businesses and employers by providing customer focused workforce solutions to develop and sustain a qualified workforce. Customized contracted training is designed to meet the training and educational needs of business, industry, government and professional organizations in support of economic development and community enrichment.

Custom Designed Training for Business

Business organizations are often confronted with a wide range of employee training needs that are highly unique to them. We can design, develop and tailor training and delivery approaches that align with these distinct needs and budgetary circumstances. We offer an extensive curriculum of technology, business, and professional development programs. We can integrate and customize these resources to best fit your needs or design an entirely new program.

Through organizational consulting, a thorough assessment is conducted of an organization’s needs using various resources such as surveys, facilitated focus groups, and job profiling.

Our professional workforce training staff partners with our clients to:
- Identify the needs that impact your business processes
- Develop solutions that fit the company needs and culture, and
- Deliver training or consulting services that provide a return on investment.

Benefits to Business and Industry:
- Courses and programs can be tailored as credit or non-credit.
- Courses can be delivered to meet the dynamic needs of your scheduling demands.
- Courses can be offered on-campus or on-site.

Examples of Custom Designed Training:
- Customer Service
- Industry-Specific Skills
- Job Skills Assessments
- Leadership Foundations
- Occupational Spanish

Job Skills Assessments

WDCE stands ready to help area employers, and new employers coming to the area, with assessing workforce needs and incumbent worker skills. Assessing candidates at the early stages of the hiring process ensures that you save interviewing time and effort and identifies strong candidates beforehand. For your current staff, assessment can be the key to putting employees into a position in which they can be successful, based on their current skill and competencies. Assessment can also provide your very best employees with an achievable career pathway for them to grow into an even more valuable employee.

We offer an assortment of skills assessments for business and industry, which include: HAY Aptitude, Wonderlic, Management Readiness Profile, In-Basket, Bennett Mechanical, Perdue Pegboard and Assembly Test, DISC Personality Profile, and WorkKeys.

The DiSC® Personality System is the universal language of behavior. Research has shown that behavioral characteristics can be grouped together in four major divisions called personality styles. People with similar styles tend to exhibit specific behavioral characteristics common to that style. All people share these four styles in varying degrees of intensity. The acronym DISC stands for the four personality styles represented by the letters: D (Drive); I (Influence); S (Steadiness); C (Compliance).

DISC materials can be utilized to:
- Learn about what motivates each team member.
- Help individuals maximize their personal strengths.
- Enhance teamwork among your organization’s staff.
- Motivate others toward greater productivity.
- Resolve internal conflicts and power struggles more quickly.
- Develop motivated teams.

HAY Aptitude Test Battery identifies candidates with the necessary clerical skills for accounting, billing or shipping positions to help you improve the efficiency and profitability of your operation. They measure a job candidate’s ability to compare numbers and names for accuracy, use short-term memory effectively and quickly identify numeric relationships. Hay test scores reflect both the speed and accuracy with which the candidate performs these basic tasks. Using the HAY Aptitude Test Battery as part of your employment testing process will help reduce document, shipping, and other process errors. Production and turn-around time will decrease as fewer discrepancies arise and your customers will have increased confidence in your product and service delivery.

The Management Readiness Profile (MRP) is an assessment tool that identifies the readiness of candidates for management responsibilities. A better fit between managers and their leadership responsibilities means more effective work teams, higher morale, lower turnover among top performers and maximum profitability. In addition, the MRP contains a Validity-Candidness scale that measures the extent
of socially desirable responses. Lower scores indicate a tendency to exaggerate positive qualities and minimize negative traits.

Wonderlic provides employee assessments for each phase of the hiring process. Employment tests include job-specific screening questionnaires, cognitive ability tests, personality tests, skills tests and surveys. Used individually, these employee assessments provide valuable enhancements to an existing employee selection process. Combined, they efficiently gather relevant information and provide a comprehensive “whole person” view of candidate qualifications for efficient, objective employee selection.

WorkKeys is a national job skills assessment system measuring "real-world" skills that employers believe are critical to job success. This system enables educators to identify gaps between student skills and employer needs, which will, in turn, improve students' success in entry-level and subsequent jobs. WorkKeys enables businesses to reduce turnover, overtime, and waste while increasing morale through effective selection decisions and training processes. As a WorkKeys service scoring center, WDCE handles profiles, testing and scoring.

Skill areas:
- Applied Mathematics
- Applied Technology
- Business Writing
- Listening
- Locating Information
- Observation
- Reading for Information
- Teamwork
- Writing

Pre-Employment Training

Pre-employment training is a proven method to identify the best applicants in the community and train potential employees on key elements of the job. The pre-employment training program includes assessment of applicants on skill areas specific to the needs of the employer and development of a customized, generally short-term training class.

Sample Pre-Employment Format:
- Company Orientation and Expectations
- Company-Specific Training
- Interpersonal Skills
- Job-Specific Skill Assessments
- Quality Assurance Training

Training Programs

WDCE has an extensive inventory of licensed industry training products available to our clients. Our experienced, certified facilitators can deliver any of the following training programs from the different training partners in the resource library.

Training Programs:
- Communication Skills
- Computer Applications
- Customer Service
- FiSH
- Industry-Specific Skills
- Leadership Foundations
- Mixing Four Generations in the Workplace

Training Partners:
- AchieveGlobal
- CRM Learning
- Developmental Dimensions International (DDI)
- DiSC Profiles
- InScape Publishing
- National Retail Federation Customer Service and Retail Training
- Organizational Performance Consulting
- Vital Learning

Workforce Solutions

Your Success is Our Business!

Our program designers work closely with our clients to be certain that all training supports the overall business goals as well as the corporate culture and values of the organization. Short and long-term evaluation is conducted to be certain that employees not only have learned the skills, but that those skills are applied effectively on the job. A strong workforce is the key to success in every organization.

WDCE is committed to hiring trainers and facilitators that are not only academically credentialed, but also highly experienced in business situations. Our professional workforce training staff evaluates and monitors the quality of all our programs, whether they are our own, or we broker them in from one of our many partner training providers.

Benefits of WDCE Employer Services:
- Enables new businesses to be fully operational upon opening.
- Ensures a skilled workforce.
- Improves organizational productivity and performance.
- Promotes a competitive edge for emerging companies.
• Provides access to high-quality, experienced and credentialed instructors.
• Reduces the need for special training staff.
• Reduces time and research to identify and design effective training programs.
• Reduces the need for designated space and special equipment for training.

PROFESSIONAL DEVELOPMENT

WDCE serves individuals by helping them expand their knowledge, skills and abilities. We offer a wide variety of professional development courses and services designed for improving employability skills, acquiring new skills, upgrading technical skills, and meeting educational requirements for employment and job certification.

Administrative Professionals Day Event

Participants will network, leave inspired and be treated to a few surprises.

BUSC 368 Be Great!

The student is awarded a certificate upon successful completion of the above workshop.

Artisans Center of Virginia Studio School

ACV’s Studio School is a Workforce Development initiative that focuses on honing the vocational and trade skills of Virginia artisans while providing them with the business and entrepreneurial training needed to operate, market and sell their products and services.

ARTS 177 Mastering Fused Glass
ARTS 180 Getting Started as an Artist Entrepreneur
ARTS 182 Photographing Your Work
ARTS 197 Art for Sale! Working with Retailers

The student is awarded a certificate upon successful completion of each of the above classes.

Career Readiness Certificate (CRC)

The Career Readiness Certificate supports skill building and portable credentials necessary for career pathways. A CRC credential will enable you to:

• Earn a transferable, transportable State and National credential.
• Enhance your resume and show perspective employers concrete proof of your skills.
• Improve your success in entry-level jobs.
• Enhance your chance for promotion.

The CRC is based on established ACT WorkKey’s assessments. WorkKeys is a comprehensive skills assessment tool recognized by thousands of companies in the U.S. and by state and federal agencies.

To earn a CRC, individuals undergo assessments related to reading, applied math, and locating information through the WorkKeys skills testing program. Individuals can earn three levels of CRC, based on their assessment performance:

Gold – signifies that a recipient possesses skills for 90% of jobs profiled by WorkKeys in the three areas.

Silver – signifies that a recipient possesses skills for approximately 65% of the jobs profiled by the WorkKeys in these areas.

Bronze – signifies that a recipient possesses skills for approximately 30% of the jobs profiled by WorkKeys in these three specific skill areas.

Each certificate is accompanied by a document defining the skills attained by testing; this multi-level approach enables employees to advance through the Gold and Silver certifications as they refine their skills.

Chamber Business Alliance

Martinsville-Henry County Chamber of Commerce has partnered with PHCC to deliver a series of classes taught by credentialed, experienced professionals, many of them Chamber members. These classes are held on PHCC campus, offering current, relevant, and affordable instruction, for owners, managers and employees of any business and other performance-based organization.

BUSC 110 Problem Solving/Critical Thinking
BUSC 161 Time Management for Leaders
BUSC 201 Local Lessons in Leadership
BUSC 306 Communication & Presentation Skills
BUSC 307 Leadership for Middle Management
BUSC 308 Finding Superstars
BUSC 345 Employment Practices for Managers
BUSC 346 Extreme Work Makeover
COMM 103 Workplace Communication
ITEC 137 Latest Technology Tools
ITEC 303 Email Etiquette
ITEC 401 FREE Technology Resources for your Business: Save bundles with a Cloud!
ITEC 405 Marketing through Social Media
MATH 106 Math for the Workplace

The student is awarded a certificate upon successful completion of each above workshop.
Computer Applications

Gain the edge you need in your computer skills with our Microsoft Office 6-hour training series. Move toward greater productivity by enhancing the power of Microsoft's 2010. These hands-on courses introduce you to practical techniques you can use right away to enhance workflow.

ITEC 150 Boot Camp: Computers for Beginners
ITEC 151 Microsoft Word
ITEC 152 Microsoft PowerPoint
ITEC 153 Microsoft Excel
ITEC 154 Microsoft Access
ITEC 156 Microsoft Word Advanced
ITEC 157 Microsoft Excel Advanced
ITEC 158 Microsoft Word Intermediate
ITEC 159 Microsoft Excel Intermediate

The student is awarded a certificate upon successful completion of each above workshop.

Customer Service Workshops

Effective customer service is crucial for organizations across all industries and sectors, public and private. The following workshops provide vital skills to enhance your customer service practice.

BUSC 197 Great Customer Service Comes from the Heart
BUSC 293 Turning Talent into Performance
BUSC 294 Customer Service Recovery
BUSC 339 Customer Service for Managers
BUSC 372 Customer Service: Bloodline to Success

The student is awarded a certificate upon successful completion of each above workshop.

Fabrication Laboratory

Patrick Henry Community College, New College Institute, and the Martinsville-Henry County Economic Development Corporation have partnered to establish a digital fabrication laboratory. The Fab Lab, which will be located at The Artisan Center in Uptown Martinsville, will provide training and equipment to students, businesses, and entrepreneurs. Equipment in the Fab Lab includes a 3D printer, laser engraver, vinyl cutter, CNC machine, plasma cutter, mini-mill, vacuum former, injection molder, and welder. A training course entitled “How to Make Almost Anything,” will be provided and must be completed prior to equipment use.

Internship and Job Placement Services

WDCE extends internship and job placement services to our students. Shelira Morrison, Experiential Learning and Job Placement Coordinator, works with students to provide services for job preparation and placement, including guidance in job search, employability skills coaching, and assistance with preparing for applications, resumes, and interviews. Morrison works to build relationships with employers and community partners for internships and employment opportunities.

Job Search Skills Training

Participants will gain valuable job search skills that are essential to obtaining the job they want.

BUSC 365 Elevate Your Customer Service Skills
BUSC 366 Writing a Winning Resume
BUSC 367 Learn to Ace Your Job Interview

The student is awarded a certificate upon successful completion of each above workshop.

Marketing Series

Participants will learn how marketing technologies, services and strategies are essential for a successful business.

BUSC 357 Expand Your Brand
BUSC 358 Marketing Online
BUSC 359 How to Build a Marketing Plan
BUSC 360 Marketing 101 - Best Practices and Important Behaviors

The student is awarded a certificate upon successful completion of each above workshop.

Spanish for Medical Professionals

Participants will gain the basic tools to bridge the communication gap with your Spanish-speaking patients. These fun classes are customized by the instructor to meet the students’ needs.

SPAN 102 Spanish for Medical Professionals I
SPAN 103 Spanish for Medical Professionals II

The student is awarded a certificate upon successful completion of each above workshop.

Testing Services

As a testing center for ETS (Educational Testing Services), the college makes teacher licensure convenient and accessible by offering the PRAXIS™ series and Paraprofessional exams on main campus.

LICENSURE

WDCE serves businesses and organizations by helping them prepare for licensure. We offer the following continuing education and pre-licensure courses.
**Independent Motor Vehicle Dealership Operator**

The dealer-operator of any new independent motor vehicle dealership will be required to successfully complete a two-day course of study before they will be allowed to take the dealer-operator qualification test at any DMV Customer Service Center. Curriculum and instruction are provided by Virginia Independent Automobile Dealers Association. The course is open to all existing dealers and their employees.

TRNS 100 Auto Dealer Operators Course

The student will be awarded a certificate upon successful completion of the above course.

**Basic Contractor Business Licensing**

This course is intended for first-time applicants for a Class C, B or A license and changing a business type. This course is not specifically designed to prepare the student to take the contractor licensing exam in Virginia. This course is recognized by the Commonwealth of Virginia, Department of Professional and Occupational Regulation (DPOR), and Board for Contractors as meeting the requirements for pre-licensure or remedial education.

BLDG 100 Basic Contractor Licensing

The student will be awarded a certificate upon successful completion of the above course.

**Tradesman**

Journeyman, Master Plumbers, Electricians, HVAC technicians, and Gas Fitters are required by the Virginia Board of Contractors to take a pre-determined number of continuing education hours specific to their trade as part of the licensing process. Plumbers, HVAC technicians, and Electricians must take three hours of continuing education in their field. Gas Fitters must take one hour (intended for Journeyman and Master Gas Fitters, Liquefied Petroleum Gas Fitters, and Natural Gas Fitters). The continuing education must be completed prior to the expiration date on your license.

ELEC 500 Tradesman – Electrician
GASF 200 Tradesman – Gas Fitter
HVAC 400 Tradesman – HVAC Technician
PLMB 300 Tradesman – Plumber

The student will be awarded a certificate upon successful completion of each above course.

**CAREER DEVELOPMENT**

WDCE serves students by providing them greater access to career options. We offer a variety of fast track career training programs designed just for you.

**Apprenticeships**

Apprentices receive on-the-job training combined with classroom-related instruction to ensure that the apprentice is fully trained in all areas of the occupation. Students may work part-time or full-time as registered apprentices. They must be actively pursuing career preparation courses or a diploma, certificate or degree program related to their occupation, include apprenticeship related instruction as part of coursework, and enter into a written training agreement that represents a partnership between the employer, the Virginia Apprenticeship Council, and the student. Apprentices are awarded a journeyman certificate from the Commonwealth of Virginia after successful completion of the on-the-job training and related instruction.

**Career Switcher Program**

**Purpose:** A fast-track teacher licensure program for persons with a Bachelor’s degree and five years of work experience leading to endorsement in the areas of middle and high school English, mathematics, sciences, social studies and foreign languages. This program also serves candidates for English as a Second Language endorsement.

EDUC 9001 Foundations/Field Placement
EDUC 9002 Curriculum and Instruction
EDUC 9003 Teaching Reading in the Content Area
EDUC 9004 Teaching and Learning in the Content Area
EDUC 9005 Classroom Management

Career Switcher Program participants begin their study with an intensive induction.

**Level One** includes introduction to curriculum and instruction methods, course content relating to the Standards of Learning, differentiation of instruction, classroom/behavior management, and human growth and development. This intensive Level I preparation includes a minimum of 220 clock hours of instruction, including field experience. After completing Level I preparation, candidates are awarded a one-year Provisional (Career Switcher) License and are expected to seek and obtain employment in a Virginia public or accredited nonpublic school. An individual’s salary contract is determined by the employing education agency.

**Level Two** preparation begins during the first year of employment. During that year, a minimum of five seminars are provided to expand the intensive preparation requirements associated with instructional categories and topics. The five seminars include a minimum of 20 cumulative
instructional hours. Various instructional techniques are used to implement the seminars. During Level Two, a trained mentor is assigned to assist the candidate throughout his or her first year of employment.

Upon successful completion of Levels One and Two of the Career Switcher Program and submission of a recommendation from the Virginia educational employing agency, the candidate will be eligible to apply for a professional license.

Craft Artisans

Specialization in Fiber Arts

Purpose: This certificate offers individuals instruction in the basics of fiber arts as well as guiding them through the various techniques of creating original designs. The program would focus on preparing students for opening their own businesses, training them in how to promote their product and to maximize the advantages of the internet.

| ARTS 134 | Machine Sewing Techniques |
| ARTS 145 | Elements of Design |
| ARTS 191 | Embellishments and Fantastic Finishes |
| ARTS 192 | Repurposing Clothing and Other Fabrics |
| ARTS 306 | Floor Loom Weaving |
| ARTS 376 | Open Fiber Arts Studio |
| ARTS 426 | Quilting 101 |
| ARTS 500 | Artisan Entrepreneurship |

The student will be awarded a certificate in Fiber Arts upon successful completion of the above courses.

Specialization in Fine Woodworking and Woodturning

Purpose: This certificate provides a look at the fine art of wood crafting, along with designing and constructing high quality custom-built furniture and accessories. The program prepares graduates to concentrate on establishing their own fine woodworking business.

| ARTS 145 | Elements of Design |
| ARTS 346 | Introduction to Woodworking Hand Tools |
| ARTS 348 | Finishing Techniques |
| ARTS 360 | Woodturning |
| ARTS 361 | Introduction to Fine Woodworking |
| ARTS 365 | Intermediate Woodturning |
| ARTS 368 | Open Woodworking Studio |
| ARTS 500 | Artisan Entrepreneurship |

The student will be awarded a certificate in Fine Woodworking and Woodturning upon successful completion of the above courses.

Specialization in Glass Art

Purpose: This certificate provides individuals the skills needed to develop a career in the intricate techniques of glass art including etching, fusing, slumping and stained glass.

| ARTS 145 | Elements of Design |
| ARTS 310 | Introduction to Stained Glass |
| ARTS 312 | Intermediate Stained Glass |
| ARTS 316 | Basic Glass Fusing |
| ARTS 317 | Intensive Glass Fusing & Kiln-Forming |
| ARTS 355 | Advanced Glass Fusing |
| ARTS 397 | Open Glass Studio |
| ARTS 500 | Artisan Entrepreneurship |

The student will be awarded a certificate in Glass Art upon successful completion of the above courses.

Specialization in Jewelry Fabrication

Purpose: This certificate offers individuals knowledge in the basic processes used in the design and creation of jewelry. Students will gain hands-on experience in using a variety of materials and techniques to design and create unique pieces of wearable art.

| ARTS 175 | Creating Beaded Jewelry |
| ARTS 176 | Advanced Beaded Jewelry |
| ARTS 189 | Texturizing and Stamping Metal Jewelry |
| ARTS 190 | Working with Precious Metal Clay (PMC) |
| ARTS 399 | Open Jewelry Studio |
| ARTS 500 | Artisan Entrepreneurship |

The student will be awarded a certificate in Jewelry Fabrication upon successful completion of the above courses.

Specialization in Pottery

Purpose: This certificate provides in-depth exploration of the history of pottery making, developing skills to work in a clay medium, in the design and development of pottery as a functional artistic art and to prepare students for positions within associated industries, including tourism, or with the skills needed to establish their own self-supporting business in this niche industry.

| ARTS 145 | Elements of Design |
| ARTS 333 | Introduction to Hand-Building Pottery |
| ARTS 357 | Pottery I |
| ARTS 358 | Pottery II |
| ARTS 359 | Wheel Thrown Pottery |
| ARTS 417 | Ceramic Glaze Techniques |
| ARTS 500 | Artisan Entrepreneurship |
| ARTS 505 | Open Pottery Studio |

The student will be awarded a certificate in Pottery upon successful completion of the above courses.
Electrical Groundsman

Start a rewarding and lucrative career as an electrical groundsman with this fast track four week training program, providing, 128 hours of combined instruction. Average starting pay is $12 per hour with a pathway to becoming a Journeyman Lineman with an earning potential of $27.50 per hour. Financial assistance is available to qualified applicants.

ELEC 505 Electrical Groundsman Training

The student will be awarded a certificate upon successful completion of the above program.

HOPE (High-Demand Occupational Programs for Employment)

WDCE has entered into partnerships with area social services, community service agencies, and business and industry leadership teams (BILTs) to provide support, counseling, training, and job placement for career seekers. The objective is to identify job growth areas within the PHCC service region and engage those businesses in an approach to improving the workforce through short-term training and credentialing.

Career tracts are currently offered in Customer Service and Food Service. Career tracts in Logistics and Advanced Manufacturing are coming soon. These non-credit training programs consist of a core of soft skills transferrable to any industry as well as industry-specific courses and internships.

Program Features:

- 12-week vocational training and credentialing
- Curriculum designed to meet employer needs
- Program simulates work environment
- Job readiness skills
- Intensive individual counseling
- Internship and job placement assistance

Core Courses:

- Business Communications
- Character Education
- Computer Skills
- Customer Service Skills
- Life Skills
- Moral Reconciliation Therapy
- On-Site Training
- Pre-Employment Preparation
- Teamwork Skills
- Workforce Readiness

Program Goals:

- Empower students to achieve self-sufficiency.
- Increase accountability for life choices.

Intake Assessments:

- CareerScope – Determine what skills you possess and what career would best suit your needs.
- EAPI (Employee Assistance Program Inventory) – Identify common psychological problems to guide appropriate referrals.
- TABE (Test of Adult Basic Education) – Determine degree of education level.

Credentials:

- Career Readiness Certificate
- IC3
- ServSafe Certification

Kids College

PHCC offers Creative Kids College each summer. Our goal is to provide unique learning opportunities to children ages 9-14. A variety of programs are offered to inspire creativity and give kids an opportunity to explore career opportunities.

| ARTS 163 | Artist Adventures |
| ARTS 164 | Project Runway Sewing & Design Camp |
| ARTS 198 | Entrepreneurship Camp |
| HOST 111 | Junior Ace of Cakes |
| HOST 113 | Junior Top Chef |
| ITEC 142 | Advanced Video Game Design and Development |
| ITEC 328 | Video Game Design & Development |
| MANF 101 | Innovation Station Product Design Camp |

VIRTUAL CONTINUING EDUCATION

PHCC offers a wide range of open enrollment online non-credit courses and programs to meet the needs of our students. To learn more and register, visit www.patrickhenry.edu/online-education.

Our Partners:

ed2go offers an array of highly interactive courses that you can take entirely over the Internet. All of our courses are led by expert instructors, many of whom are nationally known authors. Our online courses are affordable, fun, fast, convenient, and geared just for you. They consist of 24 hours of instruction; begin the third Wednesday of each month and last 6 weeks.

Gatlin Education career programs are designed to provide the skills necessary to acquire professional caliber positions for many in-demand occupations. These programs are
designed by a team of professionals from each respective field, who work to provide you with an effective web-based learning experience.

**Health Ed Today** courses provide necessary skills to pursue employment opportunities in hospitals, clinics, physicians’ offices and other healthcare organizations nationwide.

**The Income Tax School** provides you with courses to meet all your tax training needs. Whether you are looking to start a career as a tax professional, grow your own tax business, prepare for the IRS Competency Exam, or take required continuing education.

**ProTrain Online** offers affordable, self-paced, online certificate programs that can train you for the latest, in-demand job skills. Courses include: certification preparation in Human Resources, Six Sigma, Information Technology, Healthcare, HazWoper, OSHA, LEED, Energy Auditing / Weatherization, Renewable Energy, and many more!

**Computer Applications**

PHCC offers a wide selection of computer application classes through ed2go. Several versions of Word, Excel, Access, and PowerPoint are available. To learn more, visit: www.ed2go.com/patrickhenry.

**Green/Renewable Energy**

You can’t ignore it any longer! Renewable Energy is here to stay. Let us bring you up to speed with a number of new programs. PHCC, in association with ProTrain Online, offers 22 programs specializing in home and commercial energy auditing and weatherization, LEED certification, and renewable energy training. To learn more visit: http://phcc.theknowledgebase.org

**Health Care Careers**

PHCC, in partnership with Health Ed Today, offers online programs designed to provide the skills necessary to excel in a professional healthcare environment. These courses are highly interactive and provide students with an enriched learning experience. Additionally, these programs include access to an online community with interactive content and robust student services. Certain programs include clinical externships and most programs lead to certifications. To learn more, visit: www.healthedtoday.com/patrickhenry.

Courses Available:

- Pharmacy Technician
- Clinical Medical Assistant
- Dental Assisting
- Medical Billing and Coding
- And many more!

**Industrial and Skilled Trades**

PHCC has partnered with ProTrain Online to offer the following industrial and skilled trade courses. To learn more, visit: http://phcc.theknowledgebase.org

Courses Available:

- HazWoper 24-Hour Moderate Risk
- OSHACampus - 30 Hour Construction Industry Training w/ Study Guide
- OSHACampus - 30 Hour General Industry Training w/ Study Guide

**Information Technology Training**

PHCC, in partnership with Gatlin Education, offers online certification programs designed to provide the skills necessary to acquire professional level positions for many IT occupations. These programs are designed by a team of IT professionals, who work to provide you with an effective web-based learning experience. Microsoft Office Specialist (MOS) and Microsoft Certification Training are among the many programs available. To learn more, visit: www.gatlineducation.com/phcc.

PHCC has also partnered with ProTrain Online to offer certification in various A+ Network Security programs, CISCO, CompTia, and Sun Certified JAVA. Courses are also offered in Microsoft Certified Tech Specialist (MCTS), Microsoft Certified IT Professional (MCITP), Microsoft Certified System Engineer (MCSE), and SQL Server, to name a few. To learn more visit: http://phcc.theknowledgebase.org.

**Management and Leadership**

Are you looking for affordable, self-paced, online certificate programs that can train you for the latest, in-demand job skills? PHCC, in partnership with ProTrain Online, is your solution! To learn more, visit: http://phcc.theknowledgebase.org

Courses Available:

- Business Writing
- Human Resources
- HRCI / PHR Certification
- Six Sigma

**Occupational Spanish**

Join us this year for a Spanish class geared strictly to your profession. PHCC, in partnership with ProTrain Online, offers Spanish for Banking, Spanish for Law Enforcement, Spanish for Health Care, Spanish for Food Service, Spanish for EMTs and Paramedics, plus many more. To learn more, visit: http://phcc.theknowledgebase.org
Project Management

PHCC’s partner, ed2go, is a global Registered Education Provider for the Project Management Institute (PMI). Online courses provide essential information that will help you prepare for the Project Management Professional (PMP®) and the Certified Associate in Project Management (CAPM®) exams offered by the Project Management Institute (PMI®). To learn more, visit: www.ed2go.com/patrickhenry.

Service Careers

Let’s make 2013 the year to re-invent a new you! Want to venture out and become your own boss in the service industry? PHCC and ProTrain Online would like to help you make that change. To learn more, visit: http://phcc.theknowledgebase.org/.

Courses Available:

- Event Planning Professional
- Florist / Floral Design Entrepreneur
- Interior Decorating / Design Entrepreneur
- Wedding Consultant Entrepreneur
- And many more!

Tax Professional Training

PHCC partners with The Income Tax School to offer an online career track in Income Tax Preparation. New IRS regulations of tax preparers require all tax preparers to register with the IRS and pass an IRS basic competency test; and to complete 15 hours of CPE each year. To learn more, visit: www.patrickhenry.edu/online-education.

Courses Available:

- Basics of Tax Preparation
- Advanced Individual Tax Courses
- CPE Tax Seminars
- IRS Exam Preparation
- Small Business Tax Courses

Trade Training

PHCC, in association with RedVector, offers online continuing education and professional development training for architects, interior designers, building inspectors, engineers, land surveyors, landscape architects, contractors, and other trades. Boasting more than 2,000 essential and interactive offerings, these courses are designed using the latest E-learning methods to be fast, informative, and user-friendly! To learn more, visit: www.patrickhenry.edu/online-education.

PERSONAL ENRICHMENT

WDCE serves the community by helping them explore new leisure opportunities. We offer a wide variety of non-credit special interest classes that are designed for personal enrichment, learning a new skill or just plain fun.

Ballroom Dancing

Join us for this exciting class that is offered in the fall and spring semesters.

ARTS 204 Ballroom Dancing

Crafts

ARTS 149 Despot for Art Painting
ARTS 157 Homeschool Art
ARTS 160 Senior Citizen Paint Studio

Culinary Arts

HOST 109 Couples Cooking with Your Valentine
HOST 119 Homeschool Cake Decorating
HOST 131 All About Herbs - Sage
HOST 132 All About Herbs - Rosemary
HOST 133 All About Herbs - Oregano/Marjoram
HOST 134 All About Herbs - Basil

Digital Photography & Imaging

Participants will learn about digital camera mechanics to take better pictures, and the elements of photographic design and picture editing using Adobe Photoshop.

PHTG 101 Nuts and Bolts of Digital Photography
PHTG 103 Intermediate Digital Image Editing

Driver Improvement

This 8-hour session is open to court-directed and DMV-directed individuals as well as the general public.

TRNS 111 Driver Improvement Clinic

A certificate will be awarded upon successful completion of the above class that can be presented to the court system or DMV. In some cases, participants may receive safe driving points toward their DMV record, which help to offset demerit points received by committing a traffic violation. Safe driving points will not be awarded if clinic attendance is required by DMV or a court.
Genealogy

These classes will assist you in tracing your genealogy and family tree to learn more about your family's history.

HIST 100 Genealogy I
HIST 101 Genealogy II

Motorcycle Basic Rider Course

The Basic Rider Course (BRC) is a three-day course for those who want to learn to ride a motorcycle properly and safely.

TRNS 211 Motorcycle Basic Rider Course

Upon successful completion of the above course, the student is awarded a Motorcycle Safety Foundation Basic Rider Course card and a Virginia Motorcycle Safety Course Completion Certificate. For a period of one year following the course completion date, this certificate may be used to waive the motorcycle knowledge exam and the motorcycle skills test as requirements to obtain a motorcycle classification on a valid Virginia driver's license. Additionally, this certificate may be used to waive the 30-day motorcycle learner's permit holding period for applicants aged 19 or older. The certificate may not be used to waive the required nine month holding period for applicants under age 19.

NON-CREDIT COURSE DESCRIPTIONS

ARTS AND CRAFTS (ARTS)

ARTS 134 Machine Sewing Techniques. Instruction provided by Karen Despot. Students will learn the basic professional techniques used in the construction of garments. Sewing techniques, including cutting, construction, and finishing, are explored, using machines to create sample garments in varying types of fabrics.

ARTS 145 Elements of Design. Instruction provided by Walt Shaw. This course will introduce ideas, methodologies, principles, and skills that comprise a common knowledge base important to all design disciplines. These design fundamentals foster a multidisciplinary design experience among students and prepare them to move to the next level in any arts or crafts field.

ARTS 149 Despot for Art Painting. Instruction provided by Karen Despot. Students will start with a blank canvas and paint a design using basic painting techniques. Students will leave with a completed project.

ARTS 157 Homeschool Art. Instruction provided by Karen Despot. Students will learn the fundamentals of drawing and painting. Graphite, charcoal, acrylic, and oil will all be explored. Students will complete multiple projects.

ARTS 160 Senior Citizen Paint Studio. Instruction provided by Karen Despot. A collaborative learning environment for senior citizen painters. Participants must bring their own supplies.

ARTS 163 Artist Adventures. Camp led by Abigail Kieselbach. Come and explore the creative world of drawing and painting. You'll learn about color, shading and perspective, as well as how to inject expression and individuality into your art. In both indoor and outdoor sessions, you will use various types of paints and pencils to create works of art. Grab those paint brushes and pencils and join the fun!

ARTS 164 Project Runway Sewing & Design Camp. Camp led by Karen Despot. This camp will give teens and tweens the opportunity to experience what it would be like to participate on the famous Project Runway reality show! Students will learn the basics of design and sewing while creating wearable works of art.

ARTS 175 Creating Beaded Jewelry. Instruction provided by Susan Weeks. Learn to make jewelry like a professional. Using a variety of tools and techniques, students will design and create wearable works of art.

ARTS 176 Advanced Beaded Jewelry. Instruction provided by Susan Weeks. Learn to take your jewelry making skills to the next level. Students will learn many techniques including wire
wrapping, multiple strand beading, and the use of multiple media to create beautiful jewelry.

**ARTS 177 Mastering Fused Glass.** Instruction provided by Cara DiMassimo, Artisans Center of Virginia. This master glass class will cover the tools, supplies and techniques you'll need to create your own "sand art" tiles, jewelry, and more. We will also explore creating multi-layer dichroic glass for jewelry, or for use in larger projects. The instructor will share some of her top-secret tips and tricks for achieving truly unique glass effects that will help take your glass art to the next level! A reception provided during the first class session.

**ARTS 180 Getting Started as an Artist Entrepreneur.** Instruction provided by Sherri Smith, Artisans Center of Virginia. In this workshop Sherri will cover the basic components that you need to consider when contemplating an artistic business endeavor. You have the talent but have you developed a business owner’s mindset while considering the systems and scalable solutions that will be needed to follow through with your artistic entrepreneurial effort? What is your unique idea? What is your selling proposition? What are your strengths and weaknesses when it comes to the operations of your endeavor? Who are your competitors? Collaborators? Understanding that an artist’s desire is to create and be successful at their art, Sherri will outline some of the building blocks and time factors that can aid you in growing your business while preserving the reason you decided to advance your art in the first place....the love of your artistic creations!

**ARTS 182 Photographing Your Work.** Instruction provided by Mark Miller, Artisans Center of Virginia. Having trouble getting photographs of your work for a website or to submit to a show? Are you tired of digital photos that make your creations look dull or are the wrong color? This class will teach you simple methods of photographing your work and how to size them properly for website uploading. We will explore some online photo editing programs to help you size with ease. We will cover background choices, light sources, camera and lens selection and exposure tips to improve your photographs. We will learn ways to make your images sharper and the colors in your photographs more accurate. In one evening I will answer questions and demonstrate equipment and methods that will help you create better photographs of your creations.

**ARTS 189 Texturizing and Stamping Metal Jewelry.** Instruction provided by Susan Weeks. Personalized jewelry is all the craze! During this class students will learn various techniques to texturize and customized metal. Students will create earrings, charms, necklaces and more.

**ARTS 190 Working with Precious Metal Clay (PMC).** Instruction provided by Susan Weeks. Precious Metal Clay (PMC) is fine silver in a workable clay-like form. In this workshop you will learn the steps to successfully work with PMC. Students will also learn the proper use of tools; mold making techniques to create textures; firing techniques, and finishing techniques. Students will complete several pieces of jewelry during the class.

**ARTS 191 Embellishments and Fantastic Finishes.** Instruction provided by Colleen Butker. Experience the many ways to add flair to fabrics using paints, zippers, buttons, and more. No prior experience necessary.

**ARTS 192 Repurposing Clothing and Other Fabrics.** Instruction provided by Karen Despot. Don't donate it or throw it away, repurpose it! Renew, reuse, repurpose and recycle your old wardrobe by creating exciting new garments using existing pieces. Bring in old favorites to turn them into modern pieces of wearable art. No experience necessary.

**ARTS 197 Art For Sale! Working With Retailers.** Instruction provided by Sherri Smith, Artisans Center of Virginia. Have you thought about your art from the retailer’s perspective? Many artists in their desire to expand their market and diversify their outlet points are beginning to turn to independent retailers. In turn, because of today’s market swings increasingly more retailers are looking for ways to abate the risk of wholesaling by commissioning works from artists who can meet their client demographic. Pricing, Commission, Competition, Seasonal Considerations, Proximity, Time Management, Co-branding & Marketing, Inventory/Point of Sale Restrictions are but few of the nuances that artist must understand when working with a retailer. In this workshop Sherri will share key factors to consider when considering a sales relationship with a retailer. Although retail displays are often quite beautiful, the retailer is focused on the sell, not the show ...it’s a no-nonsense approach that can be win-win for artist and retailer when everyone understand the ground rules.

**ARTS 198 Entrepreneurship Camp.** Camp led by Kara Carter-Hundley. Want to own and effectively operate your own business? This camp will introduce entrepreneurship as a viable career option. During this camp students will generate business ideas in a creative and fun atmosphere while developing leadership and critical thinking skills. Through experiential learning students will design and implement a business plan.

**ARTS 204 Ballroom Dancing.** Instruction provided by Mary Beth Jordan. Students will learn the basic steps of the waltz, fox trot, swing, rumba, cha-cha and tango, in this refreshing, invigorating, and physically demanding course.

**ARTS 306 Floor Loom Weaving.** Instruction provided by Cecelia Cassady. This class introduces students to principles and techniques of floor loom weaving, including warp preparation, dressing the loom, pattern drafting, and basic loom-controlled and weaver-controlled weaves. Emphasis will be on developing a personal approach to fiber media.
ARTS 310 Introduction to Stained Glass. Instruction provided by Lynn Berry. Explores the history and techniques of stained glass. Produces stained glass samples using traditional joining techniques.

ARTS 312 Intermediate Stained Glass. Instruction provided by Lynn Berry. This class explores the history and techniques of stained glass. Students will produce stained glass samples using traditional joining techniques.

ARTS 316 Basic Glass Fusing. Instruction provided by Susie Pool. Students will learn the basics of glass fusing. Students will learn to cut glass, select the correct types of glass, and design a project. They will learn how to prepare the molds and kiln for firing as well as the basics of kiln firing. Each student will make several small pieces, such as tiles, coasters and/or sun-catchers.

ARTS 317 Intensive Glass Fusing & Kiln-Forming. Instruction provided by Aileen Wilson. Take basic fusing to the next level! Multiple layers of glass will be fused; frit, powders, stringers, and noodles will be incorporated in the projects. Several projects will be designed, fused and slumped to create dishes, bowls, and other types of vessels.

ARTS 333 Introduction to Hand-Building Pottery. Instruction provided by Carol Striplin. Students will be introduced to the fundamental concepts and skills related to hand crafted hand-built pottery. Students will develop the ability to produce sound work and will learn the basic glazing techniques.

ARTS 346 Introduction to Woodworking Hand Tools. Instruction provided by Emmett Grogan. This class covers the maintenance, sharpening, and use of basic hand tools, including chisels, planes, spoke shaves, marking knives, hand saws, and scrapers. Various sharpening systems will be discussed. Students will build two hand planes and practice hand tool use.

ARTS 348 Finishing Techniques. Instruction provided by Emmett Grogan. An introduction to wood finishes, including those that can be applied by hand and sprayed, this course includes surface preparation, stains, dyes, sealers, polish, shellac, varnish, oils, waxes, and basic spraying techniques.

ARTS 355 Advanced Glass Fusing. Instruction provided by Susie Pool. Using multiple layers of glass, inclusion of objects, slumping and fusing, students will create glass art utilizing all techniques of fused glass.

ARTS 357 Pottery I. Instruction provided by Brian Tucker. Students will be introduced to various techniques including slab, coil, and pinch forming for sculptural application.

ARTS 358 Pottery II. Instruction provided by Brian Tucker. Continues the foundations of Part 1 with an emphasis on additional experience in coil, and pinch forming. The student will develop good abilities for making sound work and learn basic glazing techniques.

ARTS 359 Wheel Thrown Pottery. Instruction provided by Brian Tucker. Fundamental concepts and skills related to hand crafted wheel thrown pottery is built upon. Historical precedents and contemporary examples are covered. The student should be able to demonstrate competence by producing six cylinders 12” high and 6” across with walls a consistent thickness.

ARTS 360 Basic Woodturning. Instruction provided by Terry Mitchell. The student will be introduced to the turning of hollow forms, elements of design and form for artistic merit. The student will be given the opportunity to explore the various types of wood medium to produce a viable creation of wood.

ARTS 361 Introduction to Fine Woodworking. Instruction provided by Burr Fox. Students learn about wood as a medium for realizing their designs. Topics include the milling technique, mortise and tenor joinery, surface preparations, and application of finishes. Students learn safe use of the radial saw, jointer, planer, table saw, band saw, drill press, horizontal boring machine and router.

ARTS 365 Intermediate Woodturning. Instruction provided by Burr Fox. The student will be introduced to the turning of hollow forms, elements of design and form for artistic merit. The student will be given the opportunity to explore the various types of wood medium to produce a viable creation of wood.

ARTS 368 Open Woodworking Studio. Open lab for completing assignments or individual designs and to work in a self-paced, supportive and creative environment. Teaching staff will meet with students on a pre-determined schedule to assist with ideas, motivation, suggestions and techniques.

ARTS 376 Open Fiber Arts Studio. Open lab for completing assignments or individual designs and to work in a self-paced, supportive and creative environment. Teaching staff will meet with students on a pre-determined schedule to assist with ideas, motivation, suggestions and techniques.

ARTS 397 Open Glass Studio. Open lab for completing assignments or individual designs and to work in a self-paced, supportive and creative environment. Teaching staff will meet with students on a pre-determined schedule to assist with ideas, motivation, suggestions and techniques.

ARTS 399 Open Jewelry Studio. Supervised lab time for completing projects and independent study.

ARTS 417 Ceramic Glaze Techniques. Instruction provided by Brian Tucker. This class will explore the procedures for preparing and using ceramic glazes, from the classification various glaze types, to calculating formulas and mixing glazes, to the methods for applying and firing them.
ARTS 426 Quilting 101. Instruction provided by Karen Despot. This class is for those students who want to learn how to start and finish a quilt and learn new tips and tricks for piecing, hand sewing and machine quilting. Students will complete a sampler project to show off their new skills. Supply list will be available upon registration.

ARTS 500 Artisan Entrepreneurship. The basics of starting and operating a business, designed to meet the specific needs of the Artisan Business. Traditional business planning, negotiation strategies, communication skills, developing strategic business relationships and creative issues are addressed in the class.

ARTS 505 Open Pottery Studio. Open lab for completing assignments or individual designs and to work in a self-paced, supportive and creative environment. Teaching staff will meet with students on a pre-determined schedule to assist with ideas, motivation, suggestions and techniques.

BUILDING AND CONSTRUCTION TECHNOLOGIES (BLDG)

BLDG 100 Basic Contractor Licensing. Instruction provided by Rodney Clark, Vice President, Clark Construction. This course is designed to provide a basic look at the Statutes and Regulations that govern contractor licensing in Virginia, to include a review of the different types of licenses available and the qualifications for each: Standards of Practice, Prohibited Acts and How to Avoid Violations of the Regulations.

BUSINESS AND COMMERCE TECHNOLOGY (BUSC)

BUSC 110 Problem Solving/Critical Thinking. Instruction provided by Van Drewery, Adjunct Faculty, PHCC. Becoming a good thinker and problem solver requires an active and continuous lifelong process. It serves as a guide to beliefs and actions. Participants explore and follow logical steps to finding the best solution with well-defined facts and resources. Once these steps are investigated, an enjoyable scenario will be actively solved by the participants.

BUSC 161 Time Management for Leaders. Instruction provided by Dr. Angeline Godwin, President and English Instructor, PHCC. Have you ever had days where you feel like you are running in circles? Whether you are just entering the workforce, entering a new role, or seasoned with your organization, time management in the workplace is an important skill that everyone must possess. Join us for this workshop where you will use practical tips to gain a more balanced life, minimize your stress and become more efficient.

BUSC 197 Great Customer Service Comes From the Heart. Workshop presented by Bobbie Walker, Partnership Marketing Education Director for Virginia Tourism Corporation. Superior customer service is an organization’s or individual’s ability to consistently and constantly exceed customer expectations. The reward for your efforts is a loyal customer who returns again and again to purchase your product or visit your destination. To earn your customers’ repeat business you need to focus on Attitude, Consistency, Service and Teamwork. Attitude is EVERYTHING. With a positive attitude and sincere desire to serve others, you will earn the loyalty of your customers and the respect of your teammates.

BUSC 201 Local Lessons in Leadership. Facilitator: Rhonda Hodges, Dean, WDCE, PHCC. You may have heard the saying, “you have to go 50 miles from home to be an expert”, but all too often we overlook the expertise and resources available in our own backyard. You’re invited to join Patrick Henry Community College for a dialogue presented by leaders from our local community. They run our companies, our schools, and our community organizations. A facilitated discussion will give you an opportunity to learn how this panel of leaders with diverse backgrounds and experiences has been successful in their chosen fields. Participants will also take questions from our audience (time allowing).

BUSC 293 Turning Talent into Performance. Workshop presented by Bobbie Walker, Partnership Marketing Education Director for Virginia Tourism Corporation. Like athletic coaches, good managers have a knack for identifying the talent of individuals on their team, then applying each person's talent to achieve a top performance. To empower employees a great manager spends time guiding, coaching, directing and sharing information. If you are dedicated to improving the performance of your team, first take a look at your abilities as a manager. Learn to become the catalyst for a high performance team.

BUSC 294 Customer Service Recovery. Workshop presented by Bobbie Walker, Partnership Marketing Education Director for Virginia Tourism Corporation. Using our best communication skills to deal with conflict will result in a stronger organization, a better relationship with your customers, and a team that is dedicated to results. This workshop will focus on strategies to embrace complaints as a way to re-engage customers, empower staff to effectively deal with difficult situations, learn when to say “no” in a respectfully, but authoritative manner, and recognize complaint management as a critical element of your business strategy.

BUSC 306 Communication and Presentation Skills. Instruction provided by Tim Hall, Administrator for Henry County. Don't short-change yourself in your career or your life by ignoring your communication and presentation skills. Does nervousness make you feel like you’ve blown it whenever you speak in public? No one is born a great communicator. It takes coaching and practice. This class offers a safe place to practice and improve the skills needed for working, socializing, coaching, teaching, supervising, selling, litigating, and entertaining.
BUSC 307 Leadership for Middle Management. Instruction provided by David Dickerson, Principal of Business Results Training, LLC. This workshop helps Middle Managers discover the Pivotal Role they play within the company. Through lecture and various exercises, middle managers will learn how to leverage their knowledge of operations and processes as well as first-hand relationships with customers and front-line employees to make change happen. Participants will learn how to determine what are the important issues, where problems exist, and where opportunities lie.

BUSC 308 Finding Superstars. Instruction provided by Tim Prillaman, Founder/President of The Prillaman Group, Inc. Your business success depends on hiring the best people. Learn to ensure the best "fit factor" before you hire with this session. Hiring mistakes are extremely expensive. Learn powerful tips to eliminate costly bad hires! Learn to assess needs, evaluate candidate skills, attributes and knowledge. This session is packed with lots of tips on the entire interviewing process including behavioral interviewing, background and reference checking. Learn to recognize and hire the "superstars"!

BUSC 339 Customer Service for Managers. Workshop provided by Dr. Betty Jo Foster, Adjunct Instructor, Danville Community College. Management’s role is to model the practices that are exemplary for the front line staff. Participants will learn how to define customer service and identify customers. The workshop will also cover the importance of first impressions and perceptions, communication, and dealing with difficult people.

BUSC 345 Employment Practices for Managers. Instruction provided by Tim Prillaman, Founder and President of The Prillaman Group, Inc. Positive employee/employer relationships help motivate employees, enhance morale, and contribute to increased productivity. Topics covered include positive organizational culture, employee involvement, effective communication, disciplinary action, and complaint resolution.

BUSC 346 Extreme Work Makeover. Instruction provided by Brenell Thomas, Workforce Programs Coordinator, PHCC. This workshop discusses Professionalism in the workplace, business etiquette, dress, and maintaining a positive attitude in the workplace.

BUSC 357 Expand Your Brand. Instruction provided by Beth Deatherage, Sales Manager and Project Coordinator for HD Web Studio. This workshop will outline how to build a business identity through consistent marketing efforts. Learn how to define, develop, and market your brand to your target consumers.

BUSC 358 Marketing Online. Instruction provided by Beth Deatherage, Sales Manager/Project Coordinator for HD Web Studio. This workshop will cover various online marketing efforts available to businesses from zero cost to high cost and how to determine which efforts best fit your business model.

BUSC 359 How to Build a Marketing Plan. Instruction provided by Beth Deatherage, Sales Manager and Project Coordinator for HD Web Studio. This workshop will outline the 5 P’s of marketing: people, price, product, promotion and place. Using both a situation analysis and a SWOT analysis the participant will be able to identify target markets, clear objectives, sales goals, competition, marketing strategy and an expense budget.

BUSC 360 Marketing 101 - Best Practices and Important Behaviors. Instruction provided by Beth Deatherage, Sales Manager and Project Coordinator for HD Web Studio. This workshop will cover the wider range of marketing efforts. Participants will be able to apply practical knowledge to the marketing strategies outlined in their marketing plan. The session will also cover best practices for networking, advertising, recruitment and sales.

BUSC 365 Elevate Your Customer Service Skills. Instruction provided by Shelira Morrison, Experiential Learning and Job Placement Coordinator, PHCC. One of the most critical factors in securing a job is a concisely and powerfully written resume. It is the marketing tool that serves as a key to opening the door to a job interview. Come and learn techniques to marketing yourself and effectively sharing your skills that will provide the winning impact for getting the interview, and ultimately the job.

BUSC 366 Writing a Winning Resume. Instruction provided by Shelira Morrison, Experiential Learning and Job Placement Coordinator, PHCC. Learn interviewing techniques behind preparing for the interview, common interview questions, what employers are looking for, ur knowledge, skills, and abilities.

BUSC 367 Learn to Ace Your Job Interview. Instruction provided by Shelira Morrison, Experiential Learning and Job Placement Coordinator, PHCC. Learn interviewing techniques that are critical to acing your job interview and landing the right job. Topics include preparing for the interview, common interview questions, what employers are looking for, research, body language, closing and thank you notes.

BUSC 368 Administrative Professionals Day Event. Workshop presented by Phil Echols, Owner of Become Better, LLC. BE GREAT! Do Better - Become the Best Version of Yourself! "Everybody can be great...because anybody can serve. You don't have to have a college degree to serve. You don't have to make your subject and verb agree to serve. You only need a heart full of grace and a soul generated by love." -Dr. Martin L. King, Jr. This presentation discusses the value of service. Greatness begins with service and giving. We will highlight the importance of celebrating the accomplishments of the wonderful cultures that make America a great nation.
The presentation pulls talking points from the New York Times Best Seller, The Help.

BUSC 372 Customer Service: Bloodline to Success. In this ever changing consumer world, high quality, quick resulting service is paramount. This session is designed to make even the seasoned participant become more aware of: learning the importance of non-verbal communication on the phone and face to face; utilizing proper business etiquette and appropriate appearance; using correct pronunciation; assessing the customer’s needs immediately; assisting in the customer’s language; re-enforcing the art of business writing; building long term relationships with customers; and leaving a high level of satisfaction in the customer’s mind. This session will feature speaker and trainer, Laura Hamilton, CSP, as she helps participants raise their awareness of putting the customer first. This practical, humor laced session is one you will not want to miss.

COMMUNICATIONS (COMM)

COMM 103 Workplace Communication. Instruction provided by Tim Hall, Administrator for Henry County. Participants will learn how to communicate more effectively and professionally to your supervisors, your peers, and your subordinates.

EDUCATION (EDUC)

EDUC 9001 Career Switcher: Foundations/Field Placement Provides an orientation to the teaching profession in Virginia, including historical perspectives, current issues, and future trends in education on the national and state levels. Emphasizes information about teacher licensure examinations, steps to certification, teacher preparation and induction programs, and attention to critical shortage areas in Virginia. Includes supervised field placement (recommended: 30 clock hours) in a K-12 school.

EDUC 9002 Career Switcher: Curriculum and Instruction This course is designed to teach prospective teachers instructional methodologies which are appropriate to the needs of middle and high school students. Emphasis is placed on the acquisition of skills essential for teacher decision-making in the areas of instructional planning, lesson design, and delivery of instruction.

EDUC 9003 Career Switcher: Teaching Reading in the Content Area While the primary responsibility of the secondary teacher is to teach students the knowledge and processes of their content expertise, those teachers who include reading strategies in their lessons promote more lasting and meaningful learning. The purpose of this course is to advance understanding of reading and comprehension and to provide prospective teachers with the skills and instructional methodologies which are appropriate to the reading/learning needs of middle and high school students.

EDUC 9004 Career Switcher: Teaching and Learning in the Content Area The goal of this course is to apply much of the theory that has been discussed and explored during your other modules. At the conclusion of this course, you will have made some concrete decisions and begun to form the vision of your classroom and teaching strategies. You will explore various ways to present mathematical and/or science concepts effectively in a middle- or high school classroom.

EDUC 9005 Career Switcher: Classroom Management Effective teaching requires that the teacher be motivator and manager. The purpose of this course is to provide prospective teachers with the skills to establish a climate that is conducive for learning, manage classroom procedures, and maintain student cooperation. Major topics will include motivation theory, classroom procedures, and discipline techniques.

ELECTRICAL/ELECTRONIC TECHNOLOGY (ELEC)

ELEC 500 Continuing Education for Tradesman: Electrician. Instruction provided by Chuck Peters and Mike Bryant, Owner, Blue Ridge Remodeling Heating & Air. Tradesman license renewal course. Covers new definitions, code changes, general requirements, impacts on the job, general use and special equipment included in the respective codes.

ELEC 505 Electrical Groundsman Training. PHCC, in partnership with TCR Management Group, offers an Electrical Groundsman training program. Under the supervision of the linemen, a groundsman performs a variety of tasks in the construction, maintenance, and repair of electrical distribution and transmission lines and equipment. Groundsman training is the first step towards a career as an Electrical Lineman. HS diploma or GED not required. Certifications earned: OSHA 10 T&D, Basic Work Zone, Flagging, and CPR/First Aid. Preparation for the CDL Class A learners permit included. TCR, boasting an 85% job placement rate, offers job placement assistance for students who successfully complete the training and pass exams.

GAS FITTER (GASF)

GASF 200 Continuing Education for Tradesman: Gas Fitter. Instruction provided by Mike Bryant, Owner, Blue Ridge Remodeling Heating & Air. Tradesman license renewal course. Covers new definitions, code changes, general requirements, impacts on the job, general use and special equipment included in the respective codes.

HEATING, VENTILATION AND AIR CONDITIONING (HVAC)

HVAC 400 Continuing Education for Tradesman: HVAC Technician. Instruction provided by Robert King, President, Piedmont Mechanical Systems. Tradesman license renewal course. Covers new definitions, code changes, general requirements, impacts on the job, general use and special equipment included in the respective codes.
HISTORY (HIST)

HOST 100 Genealogy I. Instruction provided by Aileen Martin, LRC Cataloger, PHCC. Have you ever watched the TV show "Who do you think you are?" where the celebrities are given the opportunity to research their family trees with surprising and often unexpected results? Did it make you wonder about your own heritage? This genealogy class will help you discover answers about your family tree. Genealogy I will begin with the basics of how to research your family history. The focus will be on the first three generations. You will learn how to search census records, social security death index as well as other resources that will be discussed in class. You will also learn how to record and organize the information so that you can compile your family history.

HOST 101 Genealogy II Instruction provided by Aileen Martin, LRC Cataloger, PHCC. If your curiosity was spiked from Genealogy I, you might be interested in a deeper search into your family history. Beginning with the fourth generation, you will find relatives that you did not know you had. More resources will be introduced in this session. For example, if your ancestors were immigrants, you will become familiar with the resources available to find out what ship, etc. they arrived on in the U.S. The final project will involve a family narrative which can be continued so you can add to it as you research your family history.

HOSPITALITY, CULINARY ARTS, TRAVEL AND TOURISM (HOST)

HOST 109 Couples Cooking with Your Valentine. Class led by Colleen Butker. Heat up the kitchen with your Valentine as you bake, simmer, and savor your way to a delicious and memorable meal of your own creation. Create sumptuous heavy hors d’oeuvres and desserts with an energetic chef while spending the evening with your food-loving partner. You're sure to have a Date Night to remember!

HOST 111 Junior Ace of Cakes. Camp led by Colleen Butker. Do you want to be an "Ace of Cakes"? Do you like to bake your cake and eat it too? Whether you want to learn how to make crazy confections or traditional three-layer cakes, this camp is the one for you. Come explore your creative side by spending a week at the Artisan Center training to become an "Ace of Cakes". Students will mix, bake, fill, carve, and finish a creation. Let your cake be your palette!

HOST 113 Junior Top Chef. Camp led by Colleen Butker. Become a Junior Top Chef and explore the delicious world of cooking. You’ll get hands-on experience using kid-friendly recipes. You’ll also learn proper kitchen safety and how to set a table and serve a meal. No experience is necessary, just a love of cooking and a willingness to try new things!

HOST 119 Homeschool Cake Decorating. Class led by Colleen Butker. This course will introduce students to the basics of cake preparation and decorating.

HOST 131 All About Herbs – Sage. Class led by Kris Landrum. Explore the history and folklore of some common herbs found in most kitchen spice racks; discuss their properties and possible uses to enhance your daily life. Experiment in the kitchen to make dishes and/or preparations for personal use. Herbs to be used include Sage.

HOST 132 All About Herbs – Rosemary. Class led by Kris Landrum. Explore the history and folklore of some common herbs found in most kitchen spice racks; discuss their properties and possible uses to enhance your daily life. Experiment in the kitchen to make dishes and/or preparations for personal use. Herbs to be used include Rosemary.

HOST 133 All About Herbs - Oregano/Marjoram. Class led by Kris Landrum. Explore the history and folklore of some common herbs found in most kitchen spice racks; discuss their properties and possible uses to enhance your daily life. Experiment in the kitchen to make dishes and/or preparations for personal use. Herbs to be used include Oregano/Marjoram.

HOST 134 All About Herbs – Basil. Class led by Kris Landrum. Explore the history and folklore of some common herbs found in most kitchen spice racks; discuss their properties and possible uses to enhance your daily life. Experiment in the kitchen to make dishes and/or preparations for personal use. Herbs to be used include Basil.

INFORMATION TECHNOLOGY (ITEC)

ITEC 137 Latest Technology Tools. Instruction provided by Michael Palmer, Information Technology Manager for New College Institute. You’ve got a cool new gadget, but now what do you do with it? Learn standard operating procedures to keep your device (and data) safe and secure. Explore free apps to help manage your stock portfolio, find your favorite actors and much more.

ITEC 142 Advanced Video Game Design and Development. Camp led by Bobbie Hubbard. Expand your existing knowledge of basic video game design during this exciting computer science camp. Participants will obtain software to take home for designing their own games or making changes in games developed.

ITEC 150 Boot Camp: Computers for Beginnings. Instruction provided by Teresa Harkness. Does your child know more about that computer than you do? Never touched a computer? How about this: "I only know how to turn it on and turn it off!" If either of these descriptions fit you, then we have a class especially for you. Allow us to calm your fears and teach you how the computer can be very useful. You can't break it! We'll even introduce you to a few of our friends - Microsoft Office, Internet, and email. They are easier to get to know than you think.
ITEC 151 Microsoft Word. Instruction provided by Teresa Harkness. This workshop will begin with the basics of the latest version of this very popular word processing program. Participants will learn how to use Microsoft Word to create their first document, edit text, and make original work look great. The instructor will introduce templates and how you can format your document with styles; decorate the document with backgrounds, borders, and text effects; and insert tables. Before the end of the workshop, you will also learn how to use mail merge, revise documents and track changes, and other tasks Word makes simple to do.

ITEC 152 Microsoft PowerPoint. Instruction provided by Teresa Harkness. In this workshop, you will start with the steps to create a slide show, start to finish, using the latest version of PowerPoint. But you will soon discover many ways to add flair to your presentation. You will learn how to create visual appeal out of text and other information like tables, Excel charts, your digital photos, sound, narration, and videos like YouTubes.

ITEC 153 Microsoft Excel. Instruction provided by Linda Cox. Are you trying to keep your household or are you a business owner relying on Excel to keep your organization thriving? You will learn the techniques in this workshop that will make your job easier. You'll start with the essential skills of spreadsheet creation: how to create a workbook, enter and edit text and numbers, and add rows or columns. You will progress to creating a chart and making changes to a chart after you create it, using the latest version of Microsoft Excel.

ITEC 154 Microsoft Access. Instruction provided by Linda Cox. Let's start by learning when to use Access and when to use Excel. This course helps you answer that essential question so you don't set off in the wrong direction. Then you're ready for the foundation of your database - learn to create tables and progress to creating queries, forms, and reports, using the latest version of Microsoft Access.

ITEC 155 Microsoft Word Advanced. Instruction provided by Teresa Harkness. Have you ever wished there was a class for proficient users of Microsoft Word? Where can you learn how to do specific tasks related to your job, or your needs? For instance: financial functions, tables, conditional formatting, creating templates, and linking worksheets and charts to a Word document, using the latest version of Excel. Caution: This course is not for the beginner! When you pre-register for the course, please inform the PHCC staff of two tasks you want to learn in this 6 hour workshop. Based on the responses of the participants, the instructor will plan a workshop that teaches those tasks.

ITEC 156 Microsoft Word Intermediate. Instruction provided by Linda Cox. This workshop assumes each student has a basic working knowledge of Microsoft Word. If the student has recently completed the beginner workshop and wants to learn more, then this workshop is for you. We'll cover how to use Word as a simple desktop publishing program to create signs, flyers, menus, brochures, and even newsletters. You'll learn how to insert different types of graphics in a document including digital photographs from your own camera, clip art images provided by Microsoft, and different types of charts such as bar, line, or pie charts, using the latest version of Microsoft Word.

ITEC 157 Microsoft Excel Intermediate. Instruction provided by Linda Cox. This workshop assumes each student has a basic working knowledge of Microsoft Excel. If the student has recently completed the beginner workshop and wants to take their skills to the next level, then this workshop is for you! In this hands-on workshop, you'll learn how easy it is to create macros that let you manipulate data with the push of a button, using the latest version of Microsoft Excel. And you'll set yourself apart from the casual Excel user by adding VLOOKUP, INDEX & MATCH, and Excel's other time-saving functions to your repertoire.

ITEC 158 Microsoft Word Intermediate. Instruction provided by Linda Cox. Are you trying to keep your household or are you a business owner relying on Excel to keep your organization thriving? You will learn the techniques in this workshop that will make your job easier. You'll start with the essential skills of spreadsheet creation: how to create a workbook, enter and edit text and numbers, and add rows or columns. You will progress to creating a chart and making changes to a chart after you create it, using the latest version of Microsoft Excel.

ITEC 159 Microsoft Excel Intermediate. Instruction provided by Linda Cox. This workshop assumes each student has a basic working knowledge of Microsoft Excel. If the student has recently completed the beginner workshop and wants to take their skills to the next level, then this workshop is for you! In this hands-on workshop, you'll learn how easy it is to create macros that let you manipulate data with the push of a button, using the latest version of Microsoft Excel. And you'll set yourself apart from the casual Excel user by adding VLOOKUP, INDEX & MATCH, and Excel's other time-saving functions to your repertoire.

ITEC 160 Microsoft Word Intermediate. Instruction provided by Linda Cox. Are you trying to keep your household or are you a business owner relying on Excel to keep your organization thriving? You will learn the techniques in this workshop that will make your job easier. You'll start with the essential skills of spreadsheet creation: how to create a workbook, enter and edit text and numbers, and add rows or columns. You will progress to creating a chart and making changes to a chart after you create it, using the latest version of Microsoft Excel.

ITEC 161 Microsoft Excel Intermediate. Instruction provided by Linda Cox. This workshop assumes each student has a basic working knowledge of Microsoft Excel. If the student has recently completed the beginner workshop and wants to take their skills to the next level, then this workshop is for you! In this hands-on workshop, you'll learn how easy it is to create macros that let you manipulate data with the push of a button, using the latest version of Microsoft Excel. And you'll set yourself apart from the casual Excel user by adding VLOOKUP, INDEX & MATCH, and Excel's other time-saving functions to your repertoire.

ITEC 162 Microsoft Word Intermediate. Instruction provided by Linda Cox. Are you trying to keep your household or are you a business owner relying on Excel to keep your organization thriving? You will learn the techniques in this workshop that will make your job easier. You'll start with the essential skills of spreadsheet creation: how to create a workbook, enter and edit text and numbers, and add rows or columns. You will progress to creating a chart and making changes to a chart after you create it, using the latest version of Microsoft Excel.

ITEC 163 Microsoft Excel Intermediate. Instruction provided by Linda Cox. This workshop assumes each student has a basic working knowledge of Microsoft Excel. If the student has recently completed the beginner workshop and wants to take their skills to the next level, then this workshop is for you! In this hands-on workshop, you'll learn how easy it is to create macros that let you manipulate data with the push of a button, using the latest version of Microsoft Excel. And you'll set yourself apart from the casual Excel user by adding VLOOKUP, INDEX & MATCH, and Excel's other time-saving functions to your repertoire.

ITEC 164 Microsoft Word Intermediate. Instruction provided by Linda Cox. Are you trying to keep your household or are you a business owner relying on Excel to keep your organization thriving? You will learn the techniques in this workshop that will make your job easier. You'll start with the essential skills of spreadsheet creation: how to create a workbook, enter and edit text and numbers, and add rows or columns. You will progress to creating a chart and making changes to a chart after you create it, using the latest version of Microsoft Excel.

ITEC 165 Microsoft Excel Intermediate. Instruction provided by Linda Cox. This workshop assumes each student has a basic working knowledge of Microsoft Excel. If the student has recently completed the beginner workshop and wants to take their skills to the next level, then this workshop is for you! In this hands-on workshop, you'll learn how easy it is to create macros that let you manipulate data with the push of a button, using the latest version of Microsoft Excel. And you'll set yourself apart from the casual Excel user by adding VLOOKUP, INDEX & MATCH, and Excel's other time-saving functions to your repertoire.

ITEC 166 Microsoft Word Intermediate. Instruction provided by Linda Cox. Are you trying to keep your household or are you a business owner relying on Excel to keep your organization thriving? You will learn the techniques in this workshop that will make your job easier. You'll start with the essential skills of spreadsheet creation: how to create a workbook, enter and edit text and numbers, and add rows or columns. You will progress to creating a chart and making changes to a chart after you create it, using the latest version of Microsoft Excel.

ITEC 167 Microsoft Excel Intermediate. Instruction provided by Linda Cox. This workshop assumes each student has a basic working knowledge of Microsoft Excel. If the student has recently completed the beginner workshop and wants to take their skills to the next level, then this workshop is for you! In this hands-on workshop, you'll learn how easy it is to create macros that let you manipulate data with the push of a button, using the latest version of Microsoft Excel. And you'll set yourself apart from the casual Excel user by adding VLOOKUP, INDEX & MATCH, and Excel's other time-saving functions to your repertoire.

ITEC 168 Microsoft Word Intermediate. Instruction provided by Linda Cox. Are you trying to keep your household or are you a business owner relying on Excel to keep your organization thriving? You will learn the techniques in this workshop that will make your job easier. You'll start with the essential skills of spreadsheet creation: how to create a workbook, enter and edit text and numbers, and add rows or columns. You will progress to creating a chart and making changes to a chart after you create it, using the latest version of Microsoft Excel.

ITEC 169 Microsoft Excel Intermediate. Instruction provided by Linda Cox. This workshop assumes each student has a basic working knowledge of Microsoft Excel. If the student has recently completed the beginner workshop and wants to take their skills to the next level, then this workshop is for you! In this hands-on workshop, you'll learn how easy it is to create macros that let you manipulate data with the push of a button, using the latest version of Microsoft Excel. And you'll set yourself apart from the casual Excel user by adding VLOOKUP, INDEX & MATCH, and Excel's other time-saving functions to your repertoire.

ITEC 170 Microsoft Word Intermediate. Instruction provided by Linda Cox. Are you trying to keep your household or are you a business owner relying on Excel to keep your organization thriving? You will learn the techniques in this workshop that will make your job easier. You'll start with the essential skills of spreadsheet creation: how to create a workbook, enter and edit text and numbers, and add rows or columns. You will progress to creating a chart and making changes to a chart after you create it, using the latest version of Microsoft Excel.
Learn how Gmail and Google Calendar can keep your employees connected and save your company time and money. Become familiar with how Google Apps give employees access to critical information, and help you stretch resources and work smarter.

ITEC 405 Marketing through Social Media. Instruction provided by Beth Deatherage, Sales Manager and Project Coordinator of HD Web Design. Learn how to leverage social media with minimum cost, connect with your customers right away on Twitter, Facebook and YouTube, and find and connect with prospects using social media. You will leave knowing how to build professional online profiles using the latest techniques that deliver strong brand connection with your market and how to use online Facebook Ads, Contests and Places to drive foot traffic into your business. Improve the bottom line by reducing costs through hands-on training that empowers business owners to manage social media internally.

MANUFACTURING (MANF)

MANF 101 Innovation Station Product Design Camp. Camp led by Matthew Wade. During this week long camp, students will learn to conceptualize, design, and prototype ideas for new products. Students will use various Fabrication Lab equipment, including, but not limited to, plasma cutters, laser cutters, and 3D printers to manufacture their ideas. Students will design and produce a tangible product.

MATHEMATICS (MATH)

MATH 106 Math for the Workplace. Instruction provided by Randy Ferguson, Media Director, PHCC. We all use math skills in our jobs every day. However, like many skills we gained in younger years, if we don’t use it we lose it. This workshop will help you improve your math skills by using hands-on activities. You will gain several tools to help increase your problem-solving skills with practical examples that relate to the workplace. The ideal participants may work in a manufacturing setting where they are responsible for reading a ruler, understanding fractions, and possibly converting measurements.

PHOTOGRAPHY (PHTG)

PHTG 101 Nuts and Bolts of Digital Photography. Class led by Ricky Dawson. Learn how your digital camera works, what all the buttons, switches and menus do, how to take a better-quality image. Then moving to Adobe Photoshop to start the picture editing process, including sending photos by the internet to family and friends.

PHTG 103 Intermediate Digital Image Editing. Class led by Ricky Dawson. Take your image-editing skills to the next level through this in-depth look at Adobe Photoshop by using Layers, Masks, Modes and advanced image manipulation techniques. Please bring a flash drive with your images to these classes.

PLUMBING AND PIPEFITTING (PLMB)

PLMB 300 Continuing Education for Tradesman: Plumber. Instruction provided by Mike Bryant, Owner, Blue Ridge Remodeling Heating & Air. Tradesman license renewal course. Covers new definitions, code changes, general requirements, impacts on the job, general use and special equipment included in the respective codes.

SPANISH (SPAN)

SPAN 102 Spanish for Medical Professionals I. Class led by Lourdes Sanchez Akers. Introduces Spanish to those in the healthcare professions. Emphasizes oral communication, cultural awareness, and practical medical vocabulary. May include oral drill and practice.

SPAN 103 Spanish for Medical Professionals II. Class led by Lourdes Sanchez Akers. This course is a second part of the introduction to Spanish for those in the healthcare professions. Emphasizes vocabulary, conversational Spanish, and cultural appreciation.

TRANSPORTATION (TRNS)

TRNS 100 Auto Dealer Operators Course. Instruction provided by Virginia Independent Automobile Dealers Association (VIADA). The path to a Dealer-Operator license begins with a required two-day course of study. The course takes the attendee from establishing the dealership under local zoning and Dealer Board requirements, through the sales process with its multitude of forms, laws and regulations, in to a sampling of opening and operating expenses, and ending with a discussion on ethics. The course is open to all existing dealers and their employees.

TRNS 111 Driver Improvement. Instruction provided by Safety & Compliance Services, Inc., certified and approved by DMV. This course is designed to help drivers become better prepared to deal with the challenges of safe driving and learn to avert accidents or injuries on the road.

TRNS 211 Motorcycle Basic Rider Safety Course. Program coordinated by Sheriff Steve Draper, Martinsville Sheriff’s Office. This course provides classroom and actual motorcycle operator training in a controlled environment. Riders learn basic skills of motorcycle operation, effective braking and obstacle avoidance, as well as safe riding strategies. This course prepares the rider for state licensing.
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Ph.D., Bowling Green University

Lucas E. Jones
Associate Instructor of Recreation, Parks, & Leisure Studies
B.A., Lynchburg College
M.S., Virginia Commonwealth University

Cheryl S. Joyce
Associate Professor of Student Development
B.S., Averett College
M.S., Virginia Polytechnic Institute & State University
C.A.G.S., Virginia Polytechnic Institute & State University

Bob W. Koester
Instructor of Culinary Arts
B.S., Northern Illinois University
Jason T. Lachowicz  
Professor of Mathematics  
B.S., Virginia Polytechnic Institute & State University  
M.S., North Carolina State University  
Ph.D., North Carolina State University

Lou J. LaRosa  
Instructor of Motorsports

Shawn D. McAvoy  
Assistant Professor of History/Religion  
B.A., Randolph-Macon College  
M.A., New Mexico State University  
M.A., Arizona State University

Julie D. Meador  
Assistant Professor of Administrative Support Technology/Legal Assisting  
B.A., Emory & Henry College  
M.B.A., Averett University

Bronte’ Y. Miller  
Associate Professor of Developmental Mathematics  
B.A., University of North Carolina, Asheville  
M.S., University of Tennessee, Knoxville

Frances H. Moore  
Associate Professor of Biology  
B.A., Lenoir-Rhyne College  
M.S., Radford University

Roderick Q. Neal  
Associate Professor of Sociology/Psychology  
B.A., Eastern Kentucky University  
M.A., Marshall University  
Ph.D., Virginia Polytechnic Institute & State University

Melanie L. Nelson, R.N., B.S.N.  
Instructor of Nursing  
B.S.N., Radford University

Margaret Robertson Phillips  
Professor of Information Systems Technology  
B.S., Ferrum College  
M.A.L.S., Hollins University

Nancy S. Phillips  
Professor of Mathematics/Business Administration  
A.A.S. and AA/S, Patrick Henry Community College  
B.S., Virginia Polytechnic Institute & State University  
M.B.A., Averett College  
Ph.D., University of North Carolina, Greensboro

Kelly M. Proffitt  
Assistant Professor of Mathematics  
B.S., Averett University  
M.Ed., Averett University

Pauline F. Satterfield  
Instructor of Criminal Justice  
A.A.S., Sandhills Community College  
B.A., University of Central Florida, Orlando

Jan D. Sharpe  
Associate Professor of Developmental Reading  
B.S., Radford University  
M.S., Radford University

M. Debbie Shelton, R.N., B.S.N., M.S.N.  
Associate Professor of Nursing  
A.A.S., Patrick Henry Community College  
B.S.N., Radford University  
M.S.N., Radford University

Eric-Gene Shrewsbury  
Professor of Spanish  
B.A., Roanoke College  
M.A., Saint Louis University  
Ph.D., Virginia Polytechnic Institute & State University

C. Randy Smith  
Assistant Professor of Welding

Dan E. Spaugh  
Professor of Speech & Drama  
B.A., Western Carolina University  
M.F.A., University of North Carolina, Greensboro

Joyce C. Staples  
Associate Professor of English  
A.A., Patrick Henry Community College  
B.A., Averett College  
M.A., Virginia Polytechnic Institute & State University  
C.A.G.S., Hollins University

Frank B. Tatum  
Assistant Professor of Information Systems Technology  
A.A.S., Patrick Henry Community College  
AA/S, Patrick Henry Community College  
B.S., Old Dominion University  
M.S., Old Dominion University

Talmage B. Thomas  
Instructor of Motorsports

Gayle P. Wade  
Assistant Professor of English  
B.A., Emory & Henry College  
M.A., Concordia University

Stephanie R. Wagoner, R.N., B.S.N.  
Instructor of Nursing  
A.A.S., Patrick Henry Community College  
B.S.N., Radford University

Linda M. Wallace, R.N., B.S.N., M.S.N.  
Assistant Professor of Nursing  
A.A.S., Jefferson College of Health Science  
B.S., Averett University  
B.S.N, Radford University  
M.S.N., University of Phoenix

M. Kari Whitney, ATC/L., NREMT-P  
Instructor of EMS, Paramedics & Fire Science  
A.A.S, Central Virginia Community College  
B.S., Roanoke College
Christopher S. Wikstrom  
Assistant Professor of Mathematics  
B.S., Virginia Polytechnic Institute & State University  
M.A.Ed., Virginia Polytechnic Institute & State University

C. Richard Wilcox, IV  
Assistant Professor of Electricity/Electronics  
A.A.S., Patrick Henry Community College  
B.S., Ferrum College

Jason L. Worley  
Instructor of Biology  
B.S., Ferrum College  
M.C.L.S., University of Maryland, College Park

Angela M. Wright  
Associate Professor of English/Communication Studies/Theatre  
Certificate Therapeutic Massage, PHCC  
B.A., University of North Carolina, Pembroke  
M.A.L.S., Hollins University

Terry A. Young  
Professor of Legal Administration/History/Political Science  
B.A., University of Virginia  
M.A.L.S., Hollins University  
J.D., University of Idaho

Michelle W. Zollars  
Associate Professor of Developmental English  
B.A., Averett College  
M.A., Hollins University

Professors Emeritus

Milton A. Davis, Professor Emeritus of Mathematics  
B.S., State University of New York, Brockport  
M.A., University of Illinois

Marie M. Garrett, Professor Emeritus of English  
B.A., Longwood College  
M.A., Longwood College  
C.A.G.S., Virginia Polytechnic Institute & State University

Martha M. Lee, Professor Emeritus of English  
B.A., Westminster College of the University of Richmond  
M.A., Virginia Polytechnic Institute & State University

James W. McIntosh, Jr., Professor Emeritus of Biology  
B.S., Carson Newman College  
M.S.P.H., University of North Carolina, Chapel Hill  
M.S., Oregon State University  
Ed.D., Duke University

Ruby D. Mitchell, Professor Emeritus of Spanish  
B.A., Baylor University  
M.A., Interamerican University, Mexico  
Ph.D., Interamerican University, Mexico

Clyde E. Pitts, Professor Emeritus of History  
B.S., University of Tennessee  
M.A., Western Carolina University

Margaret C. Tinder, Professor Emeritus of Office Systems Technology  
B.S., University of North Carolina, Greensboro

Joanne B. Whitley, Professor Emeritus  
B.S., James Madison University  
M.A., Virginia Polytechnic Institute & State University  
Ed.D., Virginia Polytechnic Institute & State University

Max F. Wingett, President Emeritus  
B.S., North Central College  
M.S., Indiana State University  
Ed.D., Indiana University

Adjunct Faculty  
The following individuals taught classes as adjunct faculty during the 2013-14 academic year:

Aaron, Tina  
Adkins, Kimberiton  
Amos, Kristin  
Amos, Patricia  
Anderson, Teddy  
Armstrong, Jo Ann  
Ashbrook, Elizabeth  
Ayers, Gary  
Beaton, Matthew  
Beckner, Clarke  
Berger, Charles  
Berry, Lynn  
Bodkin, Barbara  
Boitnott, Edythe  
Bowles, Crystal  
Bowman, Edmund  
Brown, Kathleen  
Bryant, Curtis  
Bryant, Lindsey  
Bryant, Nancy  
Burgess, Deborah  
Bumette, Russell  
Burton, Jason  
Butker, Colleen  
Byrd, Christina  
Cakir, Halil  
Cakir, Janet  
Cannon, James  
Capps, Elizabeth  
Carr, Keith  
Carstarphen, Johel  
Carter, Annette Laura  
Carter, Jerelle  
Carter, Sabena  
Carter, Terry  
Cassady, Guy  
Christian, John  
Clark, Jeanie  
Clark, Rodney  
Conner, Lori  
Corns, David  
Cowley, Cynthia  
Cox, Linda  
Cox, Walter  
Craigier, Lisa  
Davis, Joanie  
Davis, Teresa  
Dawson, Ricky  
Decker, Michelle  
Despot, Karen  
Diesel, Adah  
Dillon, Deborah  
Doolin, Cynthia
Steele, Lonnie  
Stokes, Thomas  
Stone, William Marcus  
Stowe, Melany  
Strickland, Terrence  
Striplin, Carol  
Stroud, Mark  
Sturm, Jason  
Tate, Samuel  
Tatum, Matthew  
Taylor, Ann  
Tucker, Joshua  
Varner, LaDonna  
Wade, Kenneth  
Wade, Matthew  
Wade, Toni  
Wagoner, Dale  
Wagoner, Lori  
Walker, Kristen  
Warren, Regina  
Weeks, Susan  
Weinerth, Robert  
Whittle-Davis, Kathy  
Wickline, Jeffrey  
Wilkson, Amanda  
Wilson, Alleen  
Womack-Spencer, Tameka  
Wooster, Benjamin  
Worrell, Donata  
Wray, Jr., Ronnie  
Wright, Kent

Athletics
Brown, Kathleen – Athletic Director and Coordinator of International Students  
Buck, Johnny - Sports Information Director  
Cates, Scott - Assistant Baseball Coach  
Catterton, Whitney – Assistant Softball Coach  
Favero, Veronica – Cheerleading Coach  
Felts, John - Assistant Softball Coach  
Graves, Howard – Assistant Women's Basketball Coach  
Henderson, Brian – Assistant Athletics & Intramurals Coordinator, Women's Basketball Coach  
Hodges, Casey – Assistant Baseball Coach  
Jones, Lucas – Baseball Coach  
Murphy, Lynn – Assistant Women's Soccer Coach  
Smith, Jeffrey – Fitness Coordinator and Athletic Trainer  
Toney, Marcus – Assistant Men’s Basketball Coach  
Wade, Kenneth – Coordinator for Athletic Facilities & Transportation Management, Men's Basketball Coach  
Warley, Amanda – Softball Coach  
Weinerth, Robert – Golf Coach  
Wylie, Larry - Women's Soccer Coach

College Divisions and Offices

Office of the President
Angeline Godwin, President  
Jencie D. Gibson, Administrative Staff Specialist

Office of Institutional Advancement
Christopher J. Parker, Vice President  
Letitia M. Pulliam, Administrative Staff Assistant  
Debbie J. Bryant, Foundation Financial Assistant  
Jennifer B. Gravely, Communications Specialist  
Sarah Beth Keyser, Coordinator of Grant Development  
Jane Leizer, Patriot Players Coordinator  
Melvin Johnson, Local Resource Liaison & Special Projects  
Devin Pendleton, Patriot Players Assistant

Public Relations & Marketing
Kristin M. Landrum, Public Relations & Marketing Manager  
M. Randy Ferguson, Media Director  
Latala A. Payne, Communications Specialist  
Kevin F. Plaster, Television/Video Production Specialist  
Brenda S. Sigmon, Public Relations Assistant & Web Technician

Office of the Vice President
Financial & Administrative Services
John I. Hanbury, Vice President  
Susan W. Shively, Administrative Staff Assistant  
Gary C. Dove, Chief of Police/Emergency Planning Coordinator

Facilities Services
D. Wayne Cardwell, CPA, Budget & Facilities Manager  
Roberta L. Wright, Engineering Technician  
Security
Sammie L. Seaton  
Al L. Hairston  
Jeffery L. Stone

Housekeeping
Crystal F. Clowers  
Tammie S. Cobler  
Ken A. Gilley  
Lisa C. Helms  
Johnny E. Holland  
Barbie H. Stone  
Donna G. Thompson  
Tom E. Watkins

Maintenance
Brian R. Boyd, Trades/HVAC  
Sam S. Gusler, Trades/Utility Worker  
Jerry C. Bleckley  
J. Bobby Gusler  
Rick F. Hopkins  
C. Todd Owen  
Austin Plogger  
Gary D. Rea  
Ronnie I. Sowder  
George W. Wells, IV

Switchboard
Sue Ann Ehmann  
Shirley Frith  
Deborah Nelson  
Belinda Williams

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Business Office
Sharon G. Claggett, Business Manager
Lori M. Conner, Accounts Payable Clerk
Jackie D. Harris, Cashier/Accounts Receivable
Adrienne R. Martin, Student Financial/Local Funds Accountant
Cotina M. Pearson, General/Grant Accountant
Torria N. Finney, Cashier/Inventory Clerk

Human Resources Office
Lori Z. McCarty, SPHR, CPP, Director of Human Resources
Dorothy M. Griffin, Fringe Benefits and Full-time Payroll Coordinator
Laura T. Buchanan, HR Generalist
Natalie H. Hooker, HR Information Analyst
Renee H. Dillon, Payroll and Leave Administrator

Purchasing Office
Carline M. Deal, CPPB, VCO, CPM, Buyer Specialist
S. Missy Bateman, Purchasing Assistant

Office of the Vice President
Academic & Student Development Services
Kristen A. Westover, Vice President
Betty J. Ray, Administrative Staff Assistant
Gloria A. Johnson, Administrative Assistant for Adjunct Services

Institutional Research & Effectiveness
David de Medicis, Coordinator
Gloria W. Amos, Senior Programmer
Kim M. Dillard, Office Assistant

Professional Technologies, Health Sciences, Accelerated Learning & Off-Campus Sites Division
Jeffery B. Fields, Dean
Brenda S. Wright, Administrative Assistant
Meghan E. Eggleston, Coordinator of Accelerated Learning
Colin C. Ferguson, Coordinator of Accelerated Career Pathways
Kathy L. Price, Accelerated Education Support Specialist
Cherica A. Williams, Experiential Learning/Job Placement Coordinator
Amy Webster, Coordinator of Health Sciences
Rhonda G. Eggleston, Health Sciences Administrative Assistant
Tom A. Joyce, Division Trade Technician
Denver A. Smith, Motorsports Trade Technician
W. Kay Pagans, Franklin County Site Facilitator
Angelia R. Brown, Patrick County Site Facilitator
Adah Diesel, Horticulture Trades Technician
Ruthanne Duffy, Career Coach
Cody Fain, Horticulture Lab Assistant
Donald Foley, Agribusiness & Horticulture Lab Assistant
Daniel Glad, Equipment Service & Repair Tech
Lynne Howell, Media Specialist, Patrick County
Barbara Humphreys, Career Coach
Judith Ison, Career Coach
Suzanne Martin, Career Coach
Edith Nadeau, Lab Assistant, Patrick County
Twyra Neil, Office Support, Patrick County
Susan Selman, Nursing Resource Advisor
Robert Wagner, Automotive Technology Assistant
Susan Wimbish, Career Coach
Elsie Witcher, Office Support, Franklin County

Science, Technology, Engineering, Math (STEM) Division
C. Steve Branch, Dean
Teresa Foley, Administrative Assistant
Lora Lovelace, Lab Assistant

Workforce Development & Continuing Education Division
Rhonda R. Hodges, Dean
Lillie J. Gibson, Administrative Assistant
Kim Buck, Coordinator for Community Development Programs
Carolyn L. Isley, Workforce Systems Specialist
Shelira Morrison, Experiential Learning/Job Placement Coordinator
Amy K. Reed, Artisan Center Marketing/Public Relations Specialist
Brenell C. Thomas, Coordinator of Non-Credit Programs
Kathy Whittle-Davis, TARE Program Coordinator
Yvonne Price, Workforce Programs Specialist
Matthew Wade, Fab Lab Coordinator
Regina M. Warren, Workforce Support Specialist
Carol Zimowski, Artisan Center Gallery Coordinator

Academic Success and College Transfer Division
J. Greg Hodges, Dean
M. Carol Ford, Administrative Assistant
Joyce Divens-Moore, Developmental Education Advisor
April Nebblett, Manager for the Developmental Math Assessment Center (DMAC)
Regina M. Warren, Faculty Secretary
Jan Harrison, SSDL Liaison

College Success Coaches
Seberina Tatum, Coach
Matthew Ratliff, Assistant

Middle College & Great Expectations
Christy D. Yape, Director
Christy P. Spencer, Assistant Director
Ginger Clark, Administrative Assistant
Allison Foster, Education Support Specialist
Gloria Craddock, Retention Specialist

Student Support Services
Patsy Anderson-Rusmisel, Director
Ophella G. Griggs, Counselor
Scott D. Guebert, disAbility Counselor
Patricia Worley, disAbility Services Advisor
Jennifer T. Hollyfield, Transfer Counselor
Susan M. Plunk, Administrative Assistant
Sam W. Prillaman, Math Lab

Student Support Services/Tutors
Phyllis Walker, Patricia Pruitt, Kimberly Biggs, Lisa Parnell, David Reynolds, Sonya Via, Bethany Fulcher, Debbie Hamrick, Dylan Jones, Kerry Lark, Gregory Jessup, Jason Brown, Jerry Joyce, Robert Duncan, Jonathan Reynolds, Philip Reid, Ashley Kendrick, Bunpen Stafford, and Jessica Hubbard

Student Services Division
Jeffrey L. Porter, Dean
B. Sue Seay, Program Support Technician
Margie Gilbert, Office Services Assistant
Jessica M. Carter, Registrar
Vickie Riddle, Assistant to the Registrar
Lois P. Collier, Counselor
Marcia G. Joyce, Program Support Technician
Tammy Ervin, Assistant to Admissions & Records
Jill Jones, Adult Career Coach
Lori Lowe, Adult Career Coach
Vicki Martin, Student Retention Specialist
Travis W. Tisdale, Coordinator of Admissions & Records
Financial Aid & Veteran Affairs
Cindy S. Keller, Coordinator
Rosemary I. Bowers, Program Support Technician
Tamara L. Scott, Program Support Technician
Phyllis D. Stultz, Program Support Technician
Will Gibson, Veteran Services Coordinator

Integrated Advising, Testing & Career Center
Cristy G. Reynolds, Coordinator
Christina V. Niblett, Outreach Advising Specialist
Cory L. Werkheiser, Instructional Career Specialist
Amber R. Shelton, Administrative Office Specialist
Stephanie Preston, Testing Assistant

Upward Bound and MHC After 3
Shanna Francisco-King, Coordinator

MHC After 3
Bienna Hairston, Program Manager
Patti Amos
Viviana Alives
Ann Blankenship
Jerelle Carter
James Grandinetti
Brandon Hairston
Tynell Hairston
Samuel Heffinger
Angelica Johnson
Stephinie Johnson
Ezekiel Kelderman
Beth Lawson
Kristen Lawson
Lydia Pack
Erica Penn
Kristen Reed
Ulises Rios
Razia Scales
Pam Williamson

Upward Bound
Tara C. Ardito, Advisor
Lindsey Bryant, Advisor
Courtney Haworth, Advisor
Megan S. Keffer, Advisor
Jerry Joyce
Amanda Lowery
Amanda Wikstrom

Technology Division
David L. Deal, Dean
Eric L. Arrington, Senior Network Administrator
Justin D. Leffue, Network/Desktop Technician
Mark W. Nelson, Distance Learning Specialist & Instructional Technologist
Mark L. Setliff, Network/Desktop Technician
John Y. Stafford, Instructional Lab Assistant
Alan Lawson, Lab Assistant
Charlie Martin, Lab Assistant
Marcia Seaton-Martin, Office Specialist
Debra Norton, Lab Assistant
Cindy Seay, Instructional Media Services
William Setliff, Instructional Media Services

Library Services
Barry H. Reynolds, Coordinator of Library Services
Aileen C. Martin, Library Assistant
Rebecca A. Westfall, Reference Librarian
**Frequently Asked Questions (FAQ)**

**What can I learn to do or what can I prepare myself for by attending PHCC?**
You may study in a program designed to transfer directly to a four-year college or university, you can learn new skills to prepare for immediate employment, you can update your skills, or you can take classes simply because you want to.

**Can I get help in choosing a major?**
If you don’t know what program of study you want, go to the Counseling Office or The Integrated Advising, Testing, and Career Center in the Walker Fine Arts/Student Center. PHCC has counselors to help you evaluate your interests and options. Feel free to contact them to talk informally about yourself and your goals. They want to help.

**How do I register for my classes?**
If you are a new student, contact the staff of the Admissions Office to make sure that you have completed all necessary forms. Once you have completed the Application for Admission and taken the placement test, the Integrated Advising, Testing, and Career Center staff will assist you from there. If you are a returning student, see an advisor and follow the procedures on the PHCC web site for Current or Future students under Admissions and Records, How to Register, for in-person or web registration.

If you have already received a financial aid award, the business office will have a record of it.

**Can I register after classes have already begun?**
There is a brief period of late registration for most classes, but it is extremely important to register as early as possible. Contact your advisor or the Admissions and Counseling office for help. The Schedule of Classes with dates and times is listed on our PHCC web site.

If you register for a class after it has already started, consult the instructor immediately to get information you have missed.

**If I change my mind about a class or make a mistake when I register, can I change to another class, add a new class, or withdraw from the wrong class?**
Yes, but only during the Add/Drop period listed for that specific class or classes.

PHCC allows time for students to change, drop, add, or withdraw from classes, and even receive tuition refunds, but you must do it within the time permitted. These times are on the inside cover of the catalog and on the PHCC home page Calendar.

See your advisor to fill out an Add/Drop Form, or follow the steps on MyPHCC on the college’s web site, www.patrickhenry.edu.

**May I stop coming to class after I sign up?**
Yes, but DO NOT just quit coming to school. You may receive a grade of “F” if you do not formally withdraw from the class before the last Add/Drop date for the course. Talk to the instructor and your advisor about your need to withdraw from the class. Follow the steps in the Add/Drop procedure above.

There is a period of time each semester when students may withdraw from classes without being penalized by their grades, even if the grades are “F.” Check the schedule of classes for such deadlines each semester. You save yourself many problems if you follow procedures within deadlines. Talk to your advisor.

Above all, DO NOT just quit coming to school! The college is here for you, and the staff will do everything they can to help you, even if it is better for you not to attend for the time being.

**Can I get my money back if I drop a class or withdraw?**
The college gives students the opportunity to withdraw from classes within a reasonable amount of time and receive a refund of tuition. There are strict rules regarding the time limits students have to withdraw and be eligible for a refund. The timetable is advertised each on the PHCC web site or on the Academic Calendar. Read it carefully and early so you know what to do and when. If you still have questions about how much time you have to drop a class or withdraw, ask the Registrar in the Admissions and Counseling office. If you are receiving financial aid, talk to people in that office about what might happen to your aid.

**Is it all right to skip a class if I want to?**
Instructors set their own attendance policies, and you should make sure you know the policy for each class. If possible, notify your instructor ahead of time if you will miss a class. Your instructor can be helpful regarding assignments. A student may be withdrawn from a class by the instructor if they have not attended in the first week of the class or for excessive absences.

**Do I have an advisor?**
Each student at PHCC has an advisor. If you are enrolled in a curriculum, your advisor is a faculty member who teaches in that curriculum or who is thoroughly familiar with the curriculum requirements and the needs of students. If you are not enrolled in a curriculum, you may contact a college counselor or The Integrated Advising, Testing, and Career Center for help with a wide variety of questions.

**What does my advisor help me with?**
- Choosing classes for your curriculum.
- Approving forms for registration.
- Making changes to your schedule (Add/Drop).
- Discussing academic problems.
- Guiding you to find additional help.
- Evaluating your progress.
- Evaluating job and career opportunities.
- Choosing a four-year college for transfer.
Humanities, Social Science & Business Technology
Located in the Learning Resource Center, Room 205A.

Professional Technologies, Health Sciences, Accelerated Learning & Off Campus Sites
Located in A.L. Philpott Hall, Room 122A

Science, Technology, Engineering & Math
Located in West Hall, Room 225

Developmental Education
Developmental Education faculty are located in the Learning Resource Center. Students who place in developmental math courses have an opportunity to test out of the assigned course the first day of class. Study guides for all developmental math exit exams can be downloaded from the college’s Byrd Math Lab webpage.

If I need money to pay for my tuition, books, or other expenses, can I get help?
The Financial Aid office staff may be able to help you. PHCC participates in a number of financial aid programs that provide grants and alternative loans to students with financial need. A number of scholarships that provide assistance to qualified students and work-study jobs may also be available. Veteran’s benefits are available to those students who meet the requirements. Summaries of various financial aid opportunities are shown on pages 17-18 and in other financial aid brochures available in that office.

If you need assistance or to find out more about these programs, contact the Financial Aid staff located in the Walker building. The Financial Aid staff is eager to assist you. They won’t know you need their assistance unless you let them know.

How do I begin my distance education or web-based courses?
If you are enrolled in any of the college’s web-based courses, the course section number will contain a W. There is always a notation in the college’s course schedule indicating that the course is in a distance learning format. Students are encouraged to complete an orientation to distance learning prior to beginning the distance learning course. The orientation is offered on-line format. The on-line orientation and all of the college’s web-based courses can be accessed through the college’s distance learning web page:
http://patrickhenry.edu/technology/distance-learning

What if I don’t like the program or curriculum I’m in and want to change?
Talk to your advisor. Even though your advisor’s approval is not needed to change programs, your advisor is interested in your concerns and may have some information you need to know about your program.

You will need to submit a Student Information Change Form to the Admissions office. This form is available on our web site under Admissions and Records, Student Forms, or in the Admissions and Counseling office in Walker. Note that this form is also used to notify the college of changes in your name, address, phone number, and advisor. A student may change his or her curriculum only two times per semester, and it must be submitted prior to the beginning of the semester to be effective for the upcoming semester.

How are my grades and grade point average determined?
The kind of grades (A, B, C, D, F, etc.) used at PHCC is explained on page 31. Each instructor decides what type of grading scale to use in classes, and your instructor will tell you at the beginning of the course. Grade point averages (GPA) of all your PHCC courses are used as a basis for honors, probation, eligibility for SGA offices, etc. Find your GPA by multiplying the total number of grade points you achieve for each course (A=4, B=3, C=2, D=1, and F=0) by the total number of credits you have attempted for each course. Add the total grade points obtained and divide that number by the total number of graded credits you attempted.

<table>
<thead>
<tr>
<th>EXAMPLE</th>
<th>Grade</th>
<th>Grade Points</th>
<th>Credits</th>
<th>TOTAL</th>
</tr>
</thead>
<tbody>
<tr>
<td>ENG 111</td>
<td>A</td>
<td>4</td>
<td>3</td>
<td>12</td>
</tr>
<tr>
<td>ACC 211</td>
<td>B</td>
<td>3</td>
<td>3</td>
<td>9</td>
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<tr>
<td>MTH 163</td>
<td>C</td>
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</tr>
<tr>
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<td>C</td>
<td>2</td>
<td>3</td>
<td>6</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td>16</td>
<td>44</td>
</tr>
</tbody>
</table>

44 divided by 16 = GPA 2.75

How will I be notified of my grades?
Grades are posted to a student’s academic record by data entry at the end of each semester, or as reported to the Registrar by the faculty. Students may view and print their grades by using their individual access to their record via MyPHCC options on the college’s web site: www.ph.vccs.edu. Students access their record by using their individual USERID and password.

How do I get a copy of my PHCC transcript sent somewhere else?
The Registrar issues transcripts for students as requested when
the student uses their electronic MyPHCC option. Also, a transcript will be issued upon signed, written request to the Registrar’s office. The signed, written request may be sent by fax to (276) 632-0183.

I went to another college before PHCC. Can I use those credits at PHCC?
If you got a “C” grade or better, if the course is equivalent to one offered in the Virginia Community College System (VCCS), and if that VCCS course could be used in your program at PHCC, then you can probably get credit. Ask the registrar at your old school (they need your written authorization) to mail an official copy of your transcript to the admissions office at PHCC. It will be reviewed and an evaluation notice sent to you.

PHCC wants you to get all appropriate credit for work you’ve already completed. Contact your advisor or the admissions office if you have a question about earlier college level work.

What if my grades aren’t very good?
Can I keep taking classes?
PHCC has regulations about the level of grades students must maintain in order to continue to enroll (see page 32). If you have questions, see your advisor or the registrar. If you are receiving financial aid, you should also know the grade requirements for those programs (see the information given to you when your financial aid was awarded). If you have questions, see the folks in financial aid.

PHCC cares about you and your success. Let the college help you if your grades begin to fall.

Does PHCC have any tutors?
Tutors are available through Student Support Services in the Learning Lab in the LRC. Ask instructors for help first. They keep office hours to help students. The answer to your question or the new explanation that you understand better, may help others in the class.

I’ve been working in my field of study for a few years. Is there any chance I can get credit for what I already know?
It’s possible! If you think any of your courses cover things you have already mastered, contact the instructor for that course or the Division Dean to discuss the content and whether or not it is reasonable to think that you could be successful on an exam covering the course content. If so, ask to schedule a local placement test. If you are successful on the test, you may earn credit for the course without having to enroll in it. Division Deans have established lists of specific PHCC courses for which departmental proficiency exams are approved. You should contact the appropriate Dean if you are interested in this type of evaluation. There is an additional charge for each test.

Okay, I’ve been meeting with my advisor regularly and taking all the right courses. I’m sure I am close to graduating in my curriculum. What should I do?
You should review your degree requirements by logging into your student account and running your Academic Advisement Report. This report details the requirements for your chosen program of study, list requirements fulfilled, and lists requirements that remain unfulfilled. If your report shows all requirements met you should apply for graduation through your student account by the established deadlines for the term in which you will meet your remaining requirements. Deadlines for applying to graduate by term can be found on the homepage under student info/admissions/how do I graduate. If you have unmet requirements for your plan you should review those requirements with your advisor and make plans to fulfill them by enrolling in the unmet courses or discussing possible substitution options with your advisor.

I don’t know what type of career to pursue. Can PHCC help? Can anyone help me find a part-time job? Can I get help with my job search? Can PHCC help me find out where the jobs are?
YES! Contact the staff in The Integrated Advising, Testing, and Career Center located in the Walker Building. Here is a list of the services that office provides:

• Local job listings.
• Resume writing.
• Career interest inventories and counseling.
• On-campus recruiting by area employers.
• State and federal job listings.
• Seminars about developing interviewing skills.
• Maintaining credentials files.
• Computer-assisted guidance programs.

Information Directory

Bookstore

The bookstore in the Walker Fine Arts/Student Center provides all required texts, supplementary materials and school supplies. The bookstore is open at scheduled hours. During registration, the store is open all day and in the evening for the convenience of students. On request, the bookstore operator will try to obtain special materials needed for particular courses.

Campus Security

Campus Security is responsible for maintaining the security of the buildings and grounds, as well as the safety of persons at PHCC. If needed, Security may be contacted through the switchboard operator. In case of an emergency outside normal working hours, contact Campus Security at telephone number 732-2406 or dial 911 for assistance. Dial 9 before dialing 911 when using college office telephones. Pursuant to regulatory requirements, PHCC provides current information on campus security. Information may be obtained online at: http://www.patrickHenry.edu/. Printed copies are available on request from the Admissions Office.
**PHCC Alert** Patrick Henry Community College uses PHCC Alert to contact you during a major crisis or emergency. PHCC Alert delivers important emergency alerts, notifications and updates to you on these devices: * E-mail account (work, home, other) * Cell phone (text only) * Pager * Smartphone/PDA (BlackBerry, Treo & other handhelds). When an incident or emergency occurs, authorized senders will notify you using PHCC Alert. PHCC Alert is a free service offered by Patrick Henry Community College. Your wireless carrier may charge you a fee to receive messages on your wireless device. To initiate your account, visit [http://alert.patrickhenry.edu](http://alert.patrickhenry.edu).

**Campus Emergency Team** PHCC faculty and staff comprise the college’s Campus Emergency Team which is prepared to address potential and confirmed emergencies on campus. For more information, please contact the campus safety office at 276-656-0436.

**Threat Assessment Team** The Threat Assessment Team exists to access a student’s physical, emotional, and psychological well-being and provide appropriate intervention and referral for students that present a danger to self, others, or the campus community.

**Change of Name, Address or Phone Number**

Students are responsible for reporting any change to the Student Services office by submitting a Student Information Change Form. This is necessary to update college records, and provide for effective contact with students. The college will accept official notice from USPS of a change of address and adjust student records accordingly.

**Clothing Requirements**

Dress is a matter of individual taste, except for restrictions of health and safety. Exceptions are specified attire for physical fitness activities and laboratory courses.

**Fire**

In the event of a fire in a building, the fire alarm sounds. If this happens, everyone must leave the building immediately by calmly proceeding to the nearest exit. Leave by routes shown on the signs posted in classrooms, offices, labs, and halls.

**First Aid**

If a student is injured or becomes ill while on campus, the student development staff should be contacted immediately. First aid kits are available in all buildings.

In the event of emergency, dial 911. You may also dial 911 from all pay phones on campus. Dial 9 before dialing 911 when using college office telephones.

**Food Services**

Snacks and drinks are available in the snack bar and campus vending area throughout the day. Food and drink may be consumed in the Patriot Café in the Walker Fine Arts/Student Center. In Stone Hall, the Philpott Hall and the Frith Economic Development Center, food and drink may be consumed in the area by the snack machines or in other designated areas.

**Graduation Rates**

Pursuant to regulatory requirements, PHCC provides current information on graduation rates. Information can be obtained on-line at: [http://system.vccs.edu/graduates/rateresultsb.asp](http://system.vccs.edu/graduates/rateresultsb.asp). Printed copies are available on request from the Admissions Office.

**Inclement Weather Policy**

Occasionally, it is necessary to cancel classes because of inclement weather. Every effort is made to keep the college open during inclement weather. However, when conditions dictate, the college may open late to allow road conditions to improve. Each student is expected to decide whether it is possible or safe to come to the college. Every attempt will be made to work with students who must be absent because of the weather.

Under the inclement weather policy, classes will operate as regularly scheduled regardless of the time the college opens. For example, if classes begin at 10:00am because of a 2-hour delay, students will attend classes as scheduled from 10:00am forward. Any classes missed due to a delay in opening will be given an assignment through the college BlackBoard system. Students will not attend classes that were scheduled before the college opens. Instructors will provide information regarding assignments during any missed class time.

One question that arises is: what would students do if they have a class that begins at 9:30am and finishes at 10:45am, as an example of a class that begins before the college opens, but ends afterwards. If there is a 2-hour delay in opening the college, student should attend class beginning at 10:00am, which provides 45 minutes of instruction. The general rule is for classes that have 30 or minutes remaining in their scheduled time, students should attend that class when the college opens. Another example of this is: if the class is scheduled to meet from 9:00am until 11:50am, students will begin the class at 10:00 and end at the regularly scheduled time if there is a 2-hour delay in opening. Any questions regarding how this change in policy affects your particular class should be directed to the instructor of your class.

Off-Campus Students: Classes at the Franklin Center & the Patrick County Site will follow the same inclement weather schedule as the main PHCC campus in Martinsville, unless otherwise announced. The delayed schedule will be in effect upon authorized release to PHCC Alert, local radio & television stations and the PHCC website: [www.patrickhenry.edu](http://www.patrickhenry.edu).

**Lost and Found**

Lost and found articles should be turned into or reclaimed from the Switchboard in the main lobby of West Hall.

**Orientation to the College Environment**

PHCC offers a general process to acquaint new students with the purposes and programs of the college. The SDV 108 College Survival Skills class offers each student an opportunity to meet individual needs and receive academic credit for graduation. Each semester, a variety of College Survival Skills classes focusing upon topics that will enhance personal development and aid the student in adapting to the college environment are
offered. The college strongly encourages students to enroll in this required course prior to or during their first semester, but in any case, must enroll during their first 15 hours of classes.

**Packing, Traffic Control and Car Emergency Services**

All students must park in designated parking areas. Violators will be subject to a ticket and fine. Tickets are issued for the following violations:

- Parking in a designated handicapped space without DMV issued license plates or decal.
- Parking in a restricted area (yellow curb).
- Parking in or along roadway leading to parking lots.
- Parking in a posted “no parking” zone.
- Parking in a reserved parking space.
- Blocking drive leading into parking lot.
- Blocking parked vehicles in parking lot.
- Parking in or around main entrance.
- Occupying more than one space.
- Any improper parking that affects traffic flow.

The speed limit on the entrance road is 25 miles per hour and reduced to 15 miles per hour in the parking areas.

Groups of students participating in overnight conferences or field trips may leave their cars on campus. These cars should be parked together in the student parking lot near the West Hall in a well-lighted area. Students or student groups who wish to return to their cars after 10 p.m. on weekdays, or after dark on weekends, should contact Campus Security at telephone number 732-2406.

If an accident occurs on college grounds, witnesses should report details to Campus Security without delay. The Virginia State Police will be called to investigate all accidents.

Campus Security will assist campus motorists with starting dead batteries, unlocking vehicles and changing flat tires. Campus Security may be contacted through the switchboard operator or by calling 732-2406.

**School Colors and Mascot**

PHCC’s school colors are royal blue and gold. The mascot is the “Patriot.”

**Smoking**

Smoking or the use of any and all tobacco products, including electronic cigarettes and smokeless tobacco, is prohibited in all PHCC buildings, or within 25 feet of building entrances, or in college vehicles. Please smoke only in designated areas.

**Telephones**

Cell phones should be turned off in classrooms. The college does not deliver personal phone messages.

**Transfer**

**Guaranteed Admissions Agreements**

Through system-wide agreements, students who graduate from one of Virginia’s 23 community colleges with an associate’s degree and a minimum grade point average may obtain GUARANTEED admission to more than 20 of the Commonwealth’s colleges and universities:

Christopher Newport University; College of William and Mary; ECPI College of Technology; Emory & Henry College; Longwood University; Lynchburg College; Mary Baldwin College; Norfolk State University; Old Dominion University; Radford University; Randolph College; Regent University; Regis University; Strayer University; Sweet Briar College; University of Mary Washington; University of Phoenix; University of Virginia; University of Virginia’s College at Wise; Virginia Commonwealth University; Virginia State University; Virginia Tech: College of Agriculture and Life Sciences; College of Engineering; Virginia Union University; Virginia Wesleyan College.

This list of colleges and universities is subject to change as new Guaranteed Admissions Agreements are negotiated.

For a comprehensive list of schools and their admissions requirements please refer to myfuture.vccs.edu/transfer.

PHCC also works in conjunction with New College Institute located in Martinsville, Virginia to offer opportunity to students who wish to continue their education through the Bachelor’s or Master’s level.

**Transfer Grants**

Beginning with the first-time entering freshman class of the fall 2007 academic year, students entering a Virginia community college have an opportunity to receive up to $2,000 annually upon transferring to a four-year institution. Students must complete a transfer associate’s degree with a 3.0 grade point average and meet financial eligibility requirements. The grant will be applied to tuition expenses at a four-year Virginia college or university, either public or private. The grant provides $1,000 for all eligible students, with an extra $1,000 for students who pursue undergraduate work in engineering, math, technology, teaching or science.

**Clubs and Organizations**

**Student Activities Office**

This office is responsible for coordinating and implementing the policies and procedures pertaining to the operation of campus organizations and activities. In addition to assisting the student government, student publications, and clubs, the Student Activities office helps individual students, informal groups, and faculty and staff to develop new activities and services to meet the needs of the campus community. Contact this office to find out what types of programs are on campus.

If you see a need that is not being met, tell someone about it--better yet, DO something about it. Suggestions and requests for social, cultural, recreational, and co-curricular activities are most welcome. The Student Activities office is in William F. Stone Hall.
Scheduling of Events: Advance scheduling of events is important to allow for adequate publicity and for special arrangements such as room assignment, speaker’s platform and audio-visual equipment. Scheduled and registered events are placed on the official student activities calendar in the Student Activities office.

Administration of Justice Association
This association is open to all ADJ curriculum students and those students who have completed or are enrolled in 12 ADJ credits. The Administration of Justice Association is designed to promote the ADJ program at PHCC, to help bring safety awareness to PHCC and its local community, and to encourage high standards of scholarship and professionalism among its members.

Academic Success Group (ASG)
The purpose of the Academic Success Group is to provide students with disabilities an opportunity to learn more about specific strategies that focus on their strengths and resources available to assist them, as well as a chance to meet other students with similar learning challenges. Members stay up to date with the disAbility Counselor and the services provided by Student Support Services. ASG activities also include guest speakers, educational field trips, and promoting disability awareness on campus.

Black Student Association (BSA)
The purpose of the Black Student Association is to encourage and increase the achievement, participation and adjustment of black students to the college community, to increase sensitivity of the college community to the black student, and to create a better rapport between the college community and the black community.

Brown Bag Seminars
Students come together to learn information about various topics. Some topics include financial aid, Student Support Services, and various other topics. Brown Bag Seminars are held every month.

Multi-Cultural/Cross Cultural Club
Provides members who are interested in learning about other cultures and their customs the opportunity to do so in a friendly and open environment. MC/CC promotes cultural diversity and understanding among the entire PHCC community. Eligibility Requirements: Open to students, faculty, staff and anyone in the PHCC service area who is interested in learning about other cultures, their customs, foods, and traditions.

Fellowship of Christian Athletes
The purpose of Fellowship of Christian Athletes is to provide students at PHCC with the opportunity to gather for fellowship. Members have the opportunity to enjoy presentations from various motivational speakers intended to stimulate not only intellectually but spiritually as well. Membership is open to all PHCC students, faculty and staff.

Gaming
The Video Game Club is an organization intended to promote students’ interests in video game design and video game play. Though the club specifically targets students in the video game design program, it is open to all students who share an interest in design or in game-playing.

Hope
Raise awareness of Mental Health issues and also provides support for those whom are struggling.

Interclub Council
The Interclub Council is a student council comprised of sponsors and appropriate representatives, usually presidents and vice-presidents of campus organizations, which meets each semester. Interaction and cooperation between campus organizations are the goals as well as campus-wide community-service projects.

Intercollegiate Athletics
The purpose of Athletics is to encourage students to continue their athletic opportunities in order to prepare themselves for a four-year institution. PHCC is a member of the NJCAA (National Junior College Athletic Association) and competes in Region X competition. Sports offered are men’s baseball, men’s basketball, women’s basketball, women’s softball, men’s and women’s soccer, men’s and women’s golf, and club cheerleading. The objectives of athletics are:

• To provide the opportunity for college students to continue their interest in athletics;
• To provide an opportunity to maintain a healthy lifestyle through exercise and athletics;
• To develop interpersonal skills through teamwork;
• To continue to develop skills in a sport through proper coaching and leadership.

To be eligible to participate in Athletics, a student must meet the following guidelines:

Requirements for Entering Student Athletes
Student-athletes must be a high school graduate or one who has received a high school equivalency diploma or has been certified as having passed a national test such as the General Education Development Test (GED). High schools must be accredited or recognized by the Department of Education for that state.

Requirements for Current Students
Prior to the last date to register for the second full-time semester, as published in the college catalog, a student-athlete must have passed 12 semester hours with a 2.0 GPA or higher. Prior to the last official date to register for the third full-time semester, and all subsequent semesters thereafter, as published in the college catalog, a student-athlete must pass a minimum of 12 semester hours with a 2.00 GPA or higher during the previous semester of full-time enrollment.

Current NJCAA Guidelines limit participation to 2 years total which includes membership on a team at the varsity, junior varsity, or club level at any college or university. Courses completed at other VCCS institutions will be computed into a student’s overall GPA, including developmental courses. Regular class
The club is open to students of all academic levels actively enrolled in classes at PHCC.

Club Requirements include: Full-time or Part-time enrollment and good academic standing with the college.

**PHCC Student Veterans**
The PHCC Student Veterans provides a peer-to-peer network for veterans, active duty, National Guard/Reserve Unit and their dependents who are students at PHCC. The PHCC Student Veterans will provide on-going information and programs geared toward the success of higher education for this student population.

**Phi Theta Kappa (PTK)**
The purpose of Phi Theta Kappa, a national honorary society, is to recognize and encourage scholarship, to provide opportunities for leadership and services, and to foster an intellectual climate for the exchange of ideas, lively fellowship for scholars, and stimulation of interest in continuing academic excellence. Members must be enrolled in a degree program. Psi Phi Chapter of Phi Theta Kappa at PHCC was chartered on June 13, 1972.

Eligibility for Active Membership: To be eligible for membership in Phi Theta Kappa, a student must:

- Be enrolled in a two-year college;
- Have accumulated the number of credit hours used by that college to designate full-time status (12 credits) in a curriculum program;
- Have achieved a grade-point average equivalent to not less than a “B+” (3.5 with 12 credits or 3.2 with 24 credits);
- Have established academic excellence as judged by the faculty;
- Be of good moral character and possess recognized qualities of citizenship.

Active membership is by invitation.

**Refresh**
Refresh was developed to afford students the opportunity to gather together and discuss/study the Bible. Members are offered an atmosphere where they can grow individually, spiritually, and intellectually.

**Resolve**
Resolve is a fitness club open to all students interested in maintaining personal health and fitness. Members emphasize and organize campus events related to overall wellness and encourage the campus community to become aware of health classes and exercise facilities at Patrick Henry Community College.

**Rotaract Club**
The purpose of this organization is for the members to address their communities’ physical and social needs while promoting international understanding and peace throughout a framework of friendship and service.

**Student Government Association (SGA)**
The Student Government Association encourages communication and cooperative experiences among students, faculty and administrators. The SGA also promotes and plans student activities, and encourages student involvement in the
Student Social Activity Policy

The organization sponsoring a student function must notify the Student Activities Coordinator and register the date of the function at least ten days prior to the event.

All students who attend social functions at Patrick Henry Community College must have paid their activities fees for the current school year. There may also be an admission fee for functions. Each student is responsible for the behavior of an invited guest.

All social functions must be chaperoned. The responsibility for the behavior of students and guests at a college social function lies primarily with the membership of the organization holding the function. Specifically designate a minimum of two students, or one student per fifty people expected in attendance, as student chaperones. The student chaperones will be assisted by chaperone(s) representing the faculty and staff of the college. All student chaperones must have the approval of the Student Activities Coordinator.

Chaperones may require a student or guest to leave the premises whenever such individual is disruptive or acts in an unlawful manner, fails to comply with rules and regulations of the college, or unduly interferes with the activity.

Chaperones who are directly involved in any serious incident should orally report it to the Vice President of Academic and Student Services as soon as possible and follow up with a written description of the incident, including names of the participants, witnesses, and a summary of the action taken to be submitted to the Vice President of Academic and Student Services and the Dean of Student Services not later than 12 noon of the next working day.

The faculty or staff chaperone(s) is the guest of the student organization sponsoring the activity. He or she should be present for the entire time of the social activity or to make arrangements with another faculty or staff chaperone to carry out the responsibilities. A faculty or staff chaperone may make an agreement with the sponsoring student group to be present for a designated period of hours provided there is adequate faculty or staff chaperone coverage for the duration of the event. It is a student responsibility to arrange for full coverage.

Procedures for Establishing Club-Sponsored Events

In addition to compliance with student social activity policy, the following conditions must be met in performing a club-sponsored event:

Submit all event proposals in writing to the Student Activities Coordinator ten days prior to the event. Include the time, place, date, and cost (total for event and per person). Ask the staff of the Office of Institutional Advancement (Room 205, Administration Building) to assist with or review publications such as programs, flyers and press releases or ads.

The sponsoring organization is responsible for the funds raised at the event. Prior to the start of the activity, have the Student Activities Coordinator approve a method of assuring the accurate amount of money collected per person or couple. Deposit receipts and total funds raised in the club account within one working day after the event. Complete the proper documents for sponsoring activities and file them with the appropriate department (i.e., facilities utilization request form, internal purchase request form). Complete a Student Activities Report (SAR) following each event.

Statement of Student Rights & Responsibilities

Patrick Henry Community College is a part of the Virginia Community College System and adheres to the standards set forth for the system. This statement of rights and responsibilities is designed to clarify those rights that the student may expect to enjoy as a member of the student body of a community college and the obligations which admission to the college places upon the student.

I. Responsibilities and Rights

A. The submission of an application for admission to a community college represents a voluntary decision on the part of the prospective student to participate in the programs offered by the institution pursuant to the policies, rules, and regulations of the community college and rules and regulations of the State Board for Community Colleges. College approval of that application, in turn, represents the extension of a privilege to join the college community and to remain a part of it so long as the student meets the required academic and behavioral standards of the college system.

B. Each individual student is guaranteed the privilege of exercising his/her rights without fear of prejudice.

Such rights include the following:

1. Students are free to pursue their educational goals; appropriate opportunities for learning in the classroom and on the campus shall be provided by the college for curricula offered by the college.
2. No disciplinary sanctions may be imposed upon any student without due process, except as explained in the following sections.
3. Free inquiry, expressions, and assembly are guaranteed to all students provided their actions do not interfere with rights of others or the effective operation of the institution.
4. Academic evaluation of student performance shall be neither arbitrary nor capricious.
5. The college and members of the college community have the right to expect safety, protection of property and the continuity of the educational process.

II. Student Publications

Editorial freedom of student publications entails a corollary obligation under the canons of responsible journalism. All student publications shall explicitly state that the opinions expressed are not necessarily those of the college or its student body. Any student newspaper must adhere to the regulations as outlined in Sect. 6.552 of the VCCS Policy Manual.

III. Student Conduct

Generally, college disciplinary action shall be limited to conduct which adversely affects the college community’s pursuit of its educational objectives. Disciplinary action, though not limited to the misconduct below, shall be exercised in all reported incidences of misconduct on the campus:

A. All forms of dishonesty including cheating, plagiarism, knowingly furnishing false information to the college, and forgery, alteration or use of college documents or instruments of identification with intent to defraud.
B. Disruption or obstruction of teaching, research, administration, disciplinary proceedings, or other college activities.
C. Physical, verbal, and/or psychological abuse or the threat of such abuse, of any person on college premises or at college activities. This includes but is not limited to sexual assault, date rape, and sexual harassment or other forms of unwanted attention.
D. Compromising or threatening the health or safety of self or any member of the campus community.
E. Participating in or inciting a riot or an unauthorized or disorderly assembly.
F. Seizing, holding, commandeering, or damaging any property or facilities of the college, or threatening to do so, or refusing to depart from any property or facilities of the college upon direction by college officials or other persons authorized by the president.
G. Possessing, selling, manufacturing, or otherwise distributing alcohol or illicit drugs while on campus, attending a college-sponsored off-campus event, or while serving as a representative of the college.
H. Gambling on the college property or at any college function.
I. Possessing on college property or at any college activity any firearm, weapon, or dangerous chemical or explosive elements or component parts thereof not used for lawful college studies, without authorization of the president of the college.
J. Physically detaining or restraining any person or removing such person from any place where that person is authorized to remain, or in any way obstructing the free movement of persons or vehicles on college premises or at college activities.
K. Littering, defacing, destroying or damaging property of the college or property under its jurisdiction or removing or using such property without authorization.
L. Willfully encouraging others to commit any of the acts that have been herein prohibited.
M. Violating any local, state, or federal laws.
N. Violating any rule or regulation not contained within the official college publications but announced as administrative edict by a college official or other person authorized by the president.
O. Violation of college parking regulations.
P. Violation of college fire regulations or emergency preparedness procedures, i.e., failure to comply with emergency evacuation procedures, tampering with fire protection apparatus, etc.
Q. Theft or attempted theft of college or personal property on college premises.
R. Unauthorized entry into or presence in any college building or facility.
S. Violation of college policy on demonstrations.
T. Violation of college policy on solicitation and sales.
U. Violation of college policy on smoking in any campus building.
V. Violation of college policy on the ethical use of computer resources or non-adherence to rules and guidelines for behavior in all college labs or facilities.
W. Littering, defacing, destroying or damaging property of the college or property under its jurisdiction or removing or using such property without authorization.

IV. Student Disciplinary Policies and Procedures

A. Disciplinary Procedures. The vice president of academic and student services is responsible for the administration of disciplinary procedures. Allegations of violation of college policy are accepted for consideration only when the apparent infractions are observed on college property or other locations where the college provides services. Infractions of federal, state or local laws occurring off campus shall be the concern of the civil authorities except when such actions:

1. directly affect health, safety or security;
2. affect the college’s pursuit of its educational purposes; or
3. occur as a direct result of a college connected disruption.

Reports of alleged student violations of published college regulations may be submitted by any individual to the dean of student services. It is the responsibility of the dean of student
services to interpret the alleged misconduct with regard to published regulations and to identify appropriate referral (in cases of students who may be a threat to themselves) or in other cases, specific charges that will be brought against the student(s) involved. Disciplinary proceedings will be instituted only for charges of violating college regulations.

After reviewing the allegations, specifying the charges, and obtaining any necessary information, the dean of student services will hold an administrative hearing including in the discussion the nature and source of the charges and the student’s rights and responsibilities. Following this hearing, the dean of student services, or may impose appropriate sanctions 1-5 (see the section on Disciplinary Sanctions). Should either the student or the person initiating charges choose to appeal the decision of the hearing, the choice will be one of the following:

1. An administrative hearing by the Vice President of Academic and Student Services. Following this hearing the Vice President of Academic and Student Services may impose disciplinary sanction. (See the section on Disciplinary Sanctions.) If a sanction is imposed by the Vice President of Academic and Student Services, the student may appeal the sanction to the Student-Faculty Judiciary Committee (see section on Appeals Procedures) within ten (10) working days of written notification from the Vice President of Academic and Student Services.

OR

2. A hearing before the Student-Faculty Judiciary Committee may impose a disciplinary sanction. If the Student-Faculty Judiciary Committee imposes a sanction, the student may appeal the sanction to the Student-Faculty Judiciary Committee (see section on Appeals Procedures) within ten (10) working days of the receipt of formal written notification from the committee. The Student-Faculty Judiciary committee will follow additional procedures with violations of the college's sexual misconduct policy as outlined in the policy.

However, should both parties choose to appeal and choose different methods, the vice president of academic and student development services will make the decision.

B. The Student-Faculty Judiciary Committee consists of the following members:

1. One (1) dean appointed by the president. The dean will serve as chairman of the committee

2. Three (3) faculty members appointed by the president

3. Three (3) students appointed by the president of the Student Government Association. (See sect. 3, Article II of Student Government Constitution).

   All disciplinary cases heard by the Student-Faculty Judiciary Committee will be decided by a vote in which two-thirds of the membership concurs.

C. Procedural Safeguards for Students. In order to provide an orderly procedure for handling disciplinary cases that give the student due process and justice, the following safeguards will be available:

1. The student will receive written notification of the time, place, and date of any hearing within at least ten (10) working days. Request for delay must be submitted in writing to the hearing body.

2. The student will receive a written statement of the charges and will be allowed access, upon request, to any and all materials which will be introduced by the college at all hearings as evidence against the student.

3. The student may elect not to appear at a hearing, but the hearing will still be held in the student’s absence.

4. The student may submit a signed statement to the the Vice President of Academic and Student Services or the Student-Faculty Judiciary Committee which includes any information or facts the student wishes to be considered in the review of the case whether or not the student chooses to appear for the review.

5. All accused students have the right to be accompanied by counsel or an advisor who may come from within or without the institution. Such counsel or advisor must restrict participation to advising the accused, and may not participate in the actual proceedings of the hearing such as discussion or cross-examination of witnesses.

6. Hearings will be closed to the public and press. All proceedings and decisions will be considered confidential unless the student expressly requests that they be open.

7. All evidence against a student will be presented in the student’s presence, and the student will be permitted to question and confront any witnesses.

8. The student will be given the opportunity to speak and to present witnesses.

9. Students may remain silent if they choose to do so.

10. The burden of proof will rest with those bringing the charges.

11. All decisions will be based only on evidence presented before the hearing body.

12. The student will receive written notification of any hearing body’s decision within fifteen (15) working days after the conclusion of the hearing and preparation of transcript or record of testimony if necessary.

13. A stenographic record and audio tape of any appeal hearing will be kept by the college. Copies will be made available to the student at the student’s expense.

14. The student may appeal any decision to the next higher judicial body and shall be advised in writing of the appeal procedures at the time formal notification of the decision is given.

D. Disciplinary Sanctions. Disciplinary sanctions available to the Vice President of Academic and Student Services and the Student-Faculty Judiciary Committee are as follows:

1. Removal of the charges against the student.

2. Admonition - An oral or written statement to a student that the student is violating or has violated college rules and may be subject to more severe disciplinary action.
3. Disciplinary probation - Removal of the privilege of participating in co-curricular activities of the college, including the holding of any student office, for a period of time not exceeding one school year.

4. Restitution - Reimbursement for damage to or misappropriation of property. This may take the form of appropriate service or other compensation.

5. Other appropriate disciplinary sanction specifically related to the charges.

6. Disciplinary suspension - Exclusion from attending the college as a student for a definite period of time not to exceed one year.

7. Dismissal from the college - Termination of student status for an indefinite period. The conditions of the readmission, if any, will be stated in the order of dismissal.

These sanctions are mutually exclusive except that restitution may be required in addition to items 2, 3, 5, and 6.

A student, pending a hearing, may be suspended by the President or the President’s designee and barred from the campus if the student’s presence is deemed a danger to others or is likely to be disruptive to the normal educational activities of the college.

Nothing in these procedures should be construed to prevent the president from taking such official steps as deemed necessary except that final action should be in accordance with the above procedures.

Before a student may be suspended, the student will be informed of the reasons for the suspension and will be provided an informal opportunity to make an oral response, except in exigent circumstances, in which case the student will be given said opportunity as soon as is practicable.

E. Appeal Procedure.

1. All appeals must be submitted in writing within ten (10) working days of the receipt by the student of the decision of any hearing body and must indicate the basis for the appeal.

2. The decision of the vice president of academic and student development services may be appealed, in turn, at the following levels:
   a) Student-Faculty Judiciary Committee,
   b) President

3. The possible bases for appeal include, but are not limited to whether:
   a) The original hearing was conducted fairly and in conformity with established procedures.
   b) The original findings were fairly supported by the evidence.
   c) There is new evidence or relevant facts that were not brought out in the original hearing, and which were not known or available to the appellate prior to the conclusion of the hearing.
   d) The college regulations were improperly applied in that particular case.

4. Pending the outcome of the appeal hearing, the disciplinary sanctions stipulated in the original hearing shall not be imposed.

5. The Student-Faculty Judiciary Committee or president may only affirm or lessen (including reversal) the decision or return the decision to the original hearing body. The Student-Faculty Judiciary Committee or president may not impose a more severe sanction. The appellate decision will be made within fifteen (15) working days of the receipt of the written appeal by the appellate body.

F. Disciplinary Records. All records of disciplinary action will remain confidential, will remain separate from the student’s academic record, will be maintained in the office of the vice president of academic and student development services and will not be available to unauthorized persons on campus or to any person off campus, without the express written permission of the student involved. Exceptions will be made only under the conditions specified in the Family Education Rights and Privacy Act of 1974, as amended, and under a court order or subpoena.

Student Grievance Procedure

The purpose of the student grievance procedure is to provide an equitable and orderly process by which students at Patrick Henry Community College may resolve grievances. A grievance is a difference or dispute between a student and an administrator, faculty member, or member of the classified staff with respect to the application of the provisions of the rules, policies, procedures, and regulations of the college or the Virginia Community College System as they affect the activities or status of each student. Honor system violations that are under the jurisdiction of the Student Honor Committee and conduct violations that are under the jurisdiction of the Student-Faculty Judiciary Committee are excluded. The student at all times has the right to counsel, to present evidence, and to review any materials presented against the student in the course of the grievance procedure.

Step I. The student with a grievance shall first discuss the grievance with the administrator, faculty member or member of the classified staff involved. It is stressed that every reasonable effort should be made by both parties to resolve the matter at this level. Recognizing that grievances should be raised and settled promptly, a grievance must be raised within twenty (20) working days from the time the student reasonably should have gained knowledge of the occurrence.

Working days are defined as those days the administrator, faculty member, or member of the classified staff involved is employed and on duty at the college. The student should consult with a counselor or faculty advisor for direction in following the proper procedure. The role of the counselor or faculty advisor shall be limited to explaining all steps of the grievance procedure to the student emphasizing the importance of the time element.

Step II. If the student is not satisfied with the disposition of the grievance at Step I, a written statement of the grievance shall be sent to the administrator, faculty member, or member of the classified staff within five (5) working days of the discussion at Step I. This statement shall include the current date, the date the grievance occurred, an explanation of the grievance and a statement presenting the student’s recommended action to resolve the grievance. The administrator, faculty member, or member of the classified staff must respond in writing within five (5) working days.
Step III. If the student is not satisfied with the written response obtained in Step II, or the administrator, faculty member, or member of the classified staff fails to answer the grievance, the student shall contact the immediate supervisor within five (5) working days. A copy of the original written grievance and the reply (if available) should be given to the supervisor. Within five (5) working days of receipt of the student’s notification, the supervisor shall schedule a conference with all involved persons in an attempt to resolve the grievance. Notification of the supervisor’s decision will be given in writing within five (5) working days after the conference.

Step IV. If the student is not satisfied with the disposition at Step III, a written appeal may be made to the appropriate vice president within five (5) working days of hearing of the disposition at Step III. The student has the option of presenting a conference with the appropriate vice president (or president, if appropriate), or the student may present the case before a selected panel. Should the student elect the conference with the vice president, that decision would be binding. If the student selects a panel, that disposition will also be binding. If selected, the panel will include the vice president, three students and three persons from the appropriate administrative, faculty or classified ranks. Selection of panel members will be made by the Student Affairs Advisory Committee, with the approval of the president. Final notification of the action taken in Step IV will be presented in writing within five (5) working days of the termination of the conference or panel.

Placement of Records. If procedures go beyond Step II, a copy of the grievance and disposition shall be placed in the official personnel file of any involved administrator, faculty member, or member of the classified staff and in the permanent student folder of the complainant.

Extension of Time. It is important to good relationships that grievances be initiated and processed as rapidly as possible. Every effort should be made by all parties to expedite the process. However, the time limitations specified for either party may be extended by mutual written agreement.

Student Grade Appeal Procedure

If a student wishes to appeal, or challenge, a course grade, the following in-house administrative procedure will be used. If for any reason the procedures are not followed, the Vice President of Academic and Student Services will decide whether or not the appeal can be continued. To continue the appeal, the student must complete steps one (1) through (3) within the first twenty (20) working days of the beginning of classes in the semester immediately following receipt of the grade in question. Working days are defined as those days the administrator or faculty members involved are employed and on duty at the college.

1. The student must discuss the grade with the instructor who assigned it.

2. If the matter has not been satisfactorily resolved and the student wishes to continue the appeal, the student must file a written appeal to the instructor’s division dean and discuss the grade with the instructor’s division dean. (If the instructor who assigned the grade is also the division dean, then the Vice President of Academic and Student Services will perform the role of division dean in hearing the student’s appeal to this point.) The division dean will attempt to mediate the disputed grade with the faculty member and the student and make a recommendation for solution. If both parties agree to the division dean’s recommendation, the appeal is concluded.

3. If either party disagrees with the recommendation, the student may continue the appeal to the next step by filing a written appeal with the Vice President of Academic and Student Services. The student must send a copy of the appeal to the faculty member and the division dean.

4. Within five (5) working days of receipt of an appeal, the Vice President of Academic and Student Services shall select by random drawing a committee of one student and two full-time faculty members to consider the appeal. Neither the instructor who assigned the grade, the instructor’s division dean, nor the Vice President of Academic and Student Services may serve on this committee. The student on the committee should be picked at random from a pool of ten students. Each spring the two divisions will elect five full-time students to go in a pool.

5. The committee shall meet promptly and establish appropriate procedures of operation to conduct a hearing and consider the appeal. The committee will consider any written information from previous steps and give both the student and the faculty member an opportunity to present any additional information. Notifications of the date, time, and location of the hearing will be communicated to the student and the faculty member by the Vice President of Academic and Student Services. Within fifteen (15) working days after it is established the committee shall reach its decision and communicate its recommendation in writing to the Vice President of Academic and Student Services, division dean, faculty member, and the student.

In meeting its charge, the committee shall be limited to a study of the student’s grades earned in the one class of the grievance. The committee cannot make a decision that infringes upon a faculty member’s rights and academic freedom as outlined in the PHCC Faculty Handbook.

6. If the matter is not yet resolved to the student’s satisfaction, the student may make a written appeal to the college President within five (5) working days after notice of the committee’s recommendation. The decision of the college President is final and the case is considered closed.

Computer Use Guidelines

The college attempts to provide appropriate computing resources to its students, faculty, and staff. The objective is to provide users with the level of computer technology to effectively perform their academic and administrative duties.

State Law (Article 7.1 of Title 18.2 of the Code of Virginia) classifies damage to computer hardware or software (18.2-152.4), unauthorized examination (18.2-152.5), or unauthorized use (18.2-152.6) of computer systems as (misdemeanor) crimes. Computer fraud (18.2-152.3) and use of a computer as an instrument of forgery (18.2-152.14) can be felonies. PHCC’s internal procedures for enforcement of its policy are independent of possible prosecution under the law.
PHCC information technology resources include computers, networks, software, data, facilities and related supplies.

The following guidelines shall govern the use of all PHCC information technology resources:

1. You must use only those computer resources that you have the authority to use. You must not provide false or misleading information to gain access to computing resources. PHCC and the VCCS may regard these actions as criminal acts and may treat them accordingly. You must not use these resources to gain unauthorized access to computing resources of other institutions, organizations or individuals.

2. You must not authorize anyone to use your computer accounts for any reason. You are responsible for all use of your accounts. You must take all reasonable precautions, including password maintenance and file protection measures, to prevent use of your account by unauthorized persons. You must not, for example, share your password with anyone.

3. You must use your computer resources only for authorized purposes. Students or staff, for example, may not use their accounts for private consulting. You must not use your computer resources for unlawful purposes, such as the installation of fraudulently or illegally obtained software. Use of external networks connected to the VCCS information technology resources must comply with the policies of acceptable use promulgated by the organizations responsible for those networks.

4. Other than material known to be in the public domain, you must not access, alter, copy, move or remove information, proprietary software or other files (including programs, members of subroutine libraries, data and electronic mail) without prior authorization. The college or VCCS data trustee, security officer, appropriate college official or other responsible party may grant authorization to use electronically stored materials in accordance with policies, copyright laws and procedures. You must not copy, distribute or disclose third party proprietary software without prior authorization from the licensor. You must not install proprietary software on systems not properly licensed for its use.

5. You must not use any computing facility irresponsibly or needlessly affect the work of others. This includes transmitting or making accessible offensive, annoying or harassing material. This includes intentionally, recklessly, or negligently damaging systems, intentionally damaging or violating the privacy of information not belonging to you. This includes the intentional misuse of resources or allowing misuse of resources by others. This includes loading software or data from untrustworthy sources, onto official systems without prior approval.

6. You should report any violation of these regulations by another individual and any information relating to a flaw or bypass of computing facility security to the Information Security Officer or the Internal Audit department.

**ENFORCEMENT PROCEDURE**

1. Faculty, staff and students at the college or VCCS should immediately report violations of information security policies to the local Chief Information Officer (CIO) who will research the information about the case and identify the offender. If state or federal law is apparently violated then the research shall be conducted in conjunction with appropriate legal authorities in order to protect legal evidence.

2. The College President will report any alleged violations of state and federal law to the appropriate authorities.

3. If the alleged offender is an employee, the CIO will notify the offender’s supervisor. The supervisor, in conjunction with the college or System Human Resources Officer and the CIO will follow the Human Resource published procedure for adjudication of the alleged violation.

4. If the alleged offender is a student, the CIO will notify the Dean of Student Services. The Director, in cooperation with the CIO, will follow the published student procedure for adjudication of the alleged violation.

5. All formal disciplinary actions taken under this policy are grievable and the accused may pursue findings through the appropriate grievance procedure.

**Student Network Access Policy**

**PURPOSE**

The purpose of this policy is to ensure the proper student use of the networked personal computers at Patrick Henry Community College. It is designed to reduce threat of unauthorized user access to the PHCC network and ensure the integrity of the network devices and information within.

**ACCEPTED ACCESS TO THE PHCC NETWORK**

The students of Patrick Henry Community College, including the students of the ODU TeletechNet and Governor’s School programs are required to use the college provided personal computers in the computer labs and classrooms for accessing the Internet, instructional applications, teacher assigned folders, and network printers. Special open computer labs are available for students on the main campus in the Learning Resource Center, and Philpott 117, and at the Patrick County and Franklin County off-campus sites.

**PROHIBITED ACCESS TO THE PHCC NETWORK**

The students of Patrick Henry Community College, including the students of the ODU TeletechNet and Governor’s School programs are prohibited to directly attach their personal laptop, desktop, PDA, or any other network connecting device to the PHCC computer network at any of our on-campus and off-campus locations. Students are allowed to connect their laptops and PDAs to the PHCC computer network using wireless access only. Also, the use of student jump drives and diskettes are allowed to be inserted into classroom and computer lab PCs.
This requirement is necessary to protect the PHCC network from inside unauthorized access, including the threat of computer worms and viruses. Any student attempt to access the PHCC network via direct connection using a non-college provided computer will be viewed as a breach of network security as defined by ISO27002 Security Standard.

Contagious Diseases Policy

Patrick Henry Community College is committed to ensuring a healthy and safe educational environment for all students and employees. In compliance with VCCS policy 6.0.7.1 Contagious Diseases Policy, PHCC policy is to prevent the spread of communicable/contagious diseases through measures that focus on safety, prevention and education and to provide continuity of education in the event of a contagious disease outbreak. The following policies were adopted in order to maintain a safe environment that is conducive to learning.

- Persons who know or who have reason to believe that they are infected with a contagious disease of public health significance/threat have an ethical and legal obligation to conduct themselves in accordance with such knowledge in order to protect themselves and others.
- Students who feel unwell or display any symptoms of the flu should not report to class and immediately advise their Instructor of their status.
- Students with the symptoms of or a diagnosed contagious disease should promptly seek medical attention if they have a medical condition that puts them at increased risk of severe illness or are concerned about their general health.
- Regarding influenza type symptoms, such as increased fever, shortness of breath, chest pain or pressure, or rapid breathing or similar patterns of symptoms, students should self-isolate at home or at a friend’s or family member’s home until at least 24 hours after they are free of fever, or signs of a fever, without the use of fever-reducing medicines.

Sexual Misconduct Policy

The Virginia Community College System will not tolerate sexual misconduct in any form. Sexual misconduct is a flagrant violation of the values and behavioral expectations for a college community and all reported violations shall be investigated. Sexual misconduct may be punishable through civil and criminal proceedings, as well as through college disciplinary processes. An educational institution is a community of trust whose very existence depends on the recognition of each individual's importance and value. This trust creates the freedom for each individual to live, think, act, and speak without fear of physical harm. Sexual misconduct shatters the bond of trust within a college community.

Sexual Assault

Sexual assault is defined as sexual intercourse without consent, including rape (whether by acquaintance or stranger), sodomy, or other forms of sexual penetration. To constitute lack of consent, the acts must be committed either by force, threat of force, intimidation, or through use of victim’s mental helplessness of which the accused was aware or should have been aware. Mental helplessness includes incapacitation by alcohol or other drugs. Sexual assault also includes intentionally touching, either directly or through clothing, of the victim’s genitals, breasts, thighs, or buttocks without the victim’s consent, as well as touching or fondling of the accused by the victim when the victim is forced to do so against his or her will. Verbal misconduct, without accompanying physical contact as described above, is not defined as sexual assault. Verbal misconduct may constitute sexual harassment, which is also prohibited under VCCS.

Anti-Harassment Policy

The college intends to provide a work and academic environment that is pleasant, professional, and free from intimidation, hostility or other offenses which might interfere with work performance. Harassment of any sort - verbal, physical, visual - will not be tolerated, particularly against employees in protected classes. These classes include, but are not necessarily limited to race, color, religion, sex, age, sexual orientation, national origin or ancestry, disability, medical condition, marital status, veteran status, or any other protected status defined by law.

The law defines sexual harassment as unwanted sexual advances, requests for sexual favors or visual, verbal or physical conduct of a sexual nature when:

- submission to such conduct is made a term or condition of employment; or
- submission to or rejection of such conduct is used as basis for employment decisions affecting the individual; or
- such conduct has the purpose or effect of unreasonably interfering with an employee's work performance or creating an intimidating, hostile or offensive working environment.

What Is Harassment?

Harassment can take many forms. It may be, but is not limited to, words, signs, offensive jokes, cartoons, pictures, posters, e-mail or social media jokes or statements, pranks, intimidation, physical assaults or contact, or violence. Sexual harassment may include unwelcome sexual advances, requests for sexual favors, epithets, derogatory or obscene comments, slurs or sexual invitations, sexual jokes, propositions, suggestive, insulting, obscene comments or gestures, or other verbal abuse of a sexual nature; graphic, verbal commentary about an individual's body, sexual prowess or sexual deficiencies; flirtations, advances, leering, whistling, touching, pinching, assault, coerced sexual acts, blocking normal movements; visual conduct such as derogatory or sexual posters, photographs, cartoons, drawings or gestures or other displays in the work place of sexually suggestive objects or pictures; conduct or comments consistently targeted at only one gender, even if the...
content is not sexual; or other verbal or physical contact of a sexual nature when such conduct creates an offensive, hostile and intimidating working environment and prevents an individual from effectively performing the duties of their position. It is also against college policy to download inappropriate pictures or materials from computer systems.

Generally, two categories of sexual harassment exist. The first, "quid pro quo,“ may be defined as an exchange of sexual favors for improvement in your working conditions and/or compensation or in exchange for avoiding disciplinary action. The second category, "hostile, intimidating, offensive working environment," can be described as a situation in which unwelcome sexual advances, requests for sexual favors, or other verbal or physical conduct of a sexual nature when such conduct is so severe or pervasive that it creates an intimidating or offensive environment. This behavior does not necessarily link improved working conditions in exchange for sexual favors.

Responsibility
All college employees, students, and particularly managers, have a responsibility for keeping our College environment free of harassment. Any employee or student who becomes aware of an incident of harassment, whether by witnessing the incident or being told of it, must report it to their immediate supervisor or designated college representative or any management representative with whom they feel comfortable. When management becomes aware of the existence of harassment, it is obligated to take prompt and appropriate action, whether or not the victim wants the college to do so.

This policy is designed to protect all students and employees from harassment in any way associated with the workplace or work environment. Although the college’s ability to discipline a non-employee harasser (e.g. student, supplier, or other third parties) may be limited by the degree of control, if any, that the college has over the alleged harasser, any employee or student who has been subjected to sexual harassment should file a complaint and be assured that action will be taken.

The college accepts no liability for harassment of one employee by another employee or of one student by another student. The individual who makes unwelcome advances, threatens or in any way harasses another is personally liable for such actions and their consequences. The College may or may not provide legal, financial or any other assistance to an individual accused of harassment if a legal complaint is filed.

Reporting
While the college encourages you to communicate directly with the alleged harasser, and make it clear that the harasser’s behavior is unacceptable, offensive or inappropriate, it is not required that you do so. The college also recognizes that power and status disparities between an alleged harasser and a target may make such a confrontation impossible. In the event that such informal, direct communication between individuals is either ineffective or impossible, the following steps should be followed in reporting a harassment complaint.

It is essential, however, to notify your immediate supervisor or appropriate College representative immediately even if you are not sure the offending behavior is considered harassment. Verbal reports of sexual harassment must be reduced to writing by either the complainant or the supervisor and must be signed by the complainant.

If the supervisor does not successfully resolve the complaint informally or, if the supervisor is the alleged harasser, a written report must be made to Human Resources Manager or the Vice President for Financial and Administrative Services. All reports will be promptly investigated with due regard for the privacy of everyone involved. However, confidentiality cannot be guaranteed. The College will complete the investigation of a sexual harassment complaint and will communicate its findings and intended actions to the complainant and alleged harasser as expeditiously as possible. Any employee found to have harassed a fellow employee or subordinate will be subject to severe disciplinary action up to and including termination. The College will also take any additional action necessary to appropriately remedy the situation.

Retaliation
The college prohibits any employee from retaliating in any way against anyone who has raised any concern about sexual harassment or discrimination against another individual. No adverse employment action will be taken for any employee making a good faith report of alleged harassment.

Any student found to have harassed a fellow student or employee will be subject to the Student Disciplinary Policies and Procedures in Section IV.”

Campus Sex Crimes Prevention Act
In conjunction with the Campus Sex Crimes Prevention Act, Section 1601 of Public Law 106-386 (HR 3244), the Commonwealth of Virginia enacted a sex offender registration act authorizing the Virginia State Police to release sex offender information to the public (Virginia Code 19.2-390.1). A list of registered sex offenders, which is searchable by zip code, is provided at the web address: http://sex-offender.vsp.state.va.us/cool-ICE.

Alcohol/Illegal Substance Policy (SB)
Students of a Virginia community college shall not possess, sell, use, manufacture, give away or otherwise distribute illegal substances or alcohol while on campus, attending a college sponsored off-campus event, or while serving as a representative of the college at off-campus meetings. Students who violate this policy shall have college charges processed against them in the normal manner of due process provided by college rules in the Student Disciplinary Policies and Procedures, Section IV. Further, students who violate this policy shall have committed a criminal offense, and the college shall notify the appropriate agency of the Commonwealth of Virginia, county or city government for investigation, and, if warranted, prosecution.
Regulation of Weapons

8VAC125-10-10. Definitions
The following words and terms when used in this chapter shall have the following meanings unless the context clearly indicates otherwise:

"Police officer" means law-enforcement officials appointed pursuant to Article 3 (§ 15.2-1609 et seq.) of Chapter 16 and Chapter 17 (§ 15.2-1700 et seq.) of Title 15.2, Chapter 17 (§ 23-232 et seq.) of Title 23, Chapter 2 (§ 29.1-200 et seq.) of Title 29.1, or Chapter 1 (§ 52-1 et seq.) of Title 52 of the Code of Virginia or sworn federal law-enforcement officers.

"College property" means any property owned, leased, or controlled by a member college of the Virginia Community College System and the administrative office of the Virginia Community College System.

"Weapon" means (i) any pistol, revolver, or other weapon designed or intended to propel a missile of any kind by action of an explosion of any combustible material; (ii) any dirk, bowie knife, switchblade knife, ballistic knife, machete, razor, slingshot, spring stick, metal knucks, or blackjack; (iii) any flailing instrument consisting of two or more rigid parts connected in such a manner as to allow them to swing freely, which may be known as a nun chakha, nun chuck, nunchaku, shuriken, or fighting chain; (iv) any disc, of whatever configuration, having at least two points or pointed blades which is designed to be thrown or propelled and which may be known as a throwing star or oriental dart; or (v) any weapon of like kind, to include but not limited to, tasers.

"Weapon" does not mean knives or razors used for domestic purposes, pen or folding knives with blades less than three inches in length, or knives of like kind carried for use in accordance with the purpose intended by the original seller.

Statutory Authority
§§ 23-215 and 23-217(g) of the Code of Virginia.

8VAC125-10-20. Possession of weapons prohibited
Possession or carrying of any weapon by any person, except a police officer, is prohibited on college property in academic buildings, administrative office buildings, student centers, child care centers, dining facilities and places of like kind where people congregate, or while attending any sporting, entertainment or educational events. Entry upon the aforementioned college property in violation of this prohibition is expressly forbidden.

Any individual in violation of this prohibition will be asked to remove the weapon immediately. Failure to comply may result in a student conduct referral, an employee disciplinary action, or arrest.

Statutory Authority
§§ 23-215 and 23-217(g) of the Code of Virginia.

8VAC125-10-30. Exceptions to prohibition
This prohibition shall not apply to current sworn and certified local, state, and federal law enforcement officers with proper identification, nor shall it apply to possession of a weapon when stored securely inside the vehicle of properly permitted students and employees. Furthermore, the chief of the college police department or head of security department, or his designee, may authorize in writing a person to possess, store, or use a weapon: (i) when used for educational or artistic instruction, display, parade, or ceremony sponsored or approved by the college (unloaded or disabled only and with other specified safeguards, if appropriate); or (ii) for any college-approved training, course, or class.

§§ 23-215 and 23-217(g) of the Code of Virginia.

8VAC125-10-40. Person lawfully in charge
Campus police officers or security, and other police officers acting pursuant to a mutual aid agreement or by concurrent jurisdiction, are lawfully in charge for the purposes of forbidding entry upon or remaining upon college property while possessing or carrying weapons in violation of this prohibition.

Statutory Authority
§§ 23-215 and 23-217(g) of the Code of Virginia.

Disciplinary Action

Students in violation of this policy shall have charges processed against them in the normal manner of due process provided by college rules and regulations (see Statement of Student Rights and Responsibilities, Section IV Student Disciplinary Policies and Procedures), up to and including expulsion and referral for prosecution.

Any employee in violation of this policy is subject to disciplinary action, up to and including discharge, and/or may be required to satisfactorily participate in a drug or alcohol abuse assistance or rehabilitation program at the discretion of the college administration. As a condition of employment, each employee must abide by the terms of this prohibition and notify the immediate supervisor of any criminal drug statute violation occurring in the workplace no later than five days after such violation.

Student Government Association Constitution

Article I. Name and Purpose

Section 1. The name of this organization shall be the “Student Government Association of Patrick Henry Community College.”

Section 2. The purpose of the Student Government Association shall be to provide the necessary governmental structure for the students of Patrick Henry Community College, to coordinate intellectual, social, and cultural activities for the students of the college, and to present an organized student voice to the administration.

Article II. Organization

Section 1. The Student Government Association of Patrick Henry Community College shall be comprised of the student Senate, the Student-Faculty Judiciary Committee, the student body officers, and the student body.

Section 2. The student Senate shall be comprised of four
representatives preferably elected from each class, and be
presided over by the President of the student body. Additional
members of the student Senate shall be the Vice-President, the
Secretary, and the Treasurer of the student body. In the event
that a candidate is running for an office unopposed or if there
are less than eight candidates running for the student senate,
the candidate will be declared winner by default. The Student
Activities Director and/or a designated representative serve as
advisor. The official rules for voting are as follows:

1. A student may vote for no more than one candidate per
   office unless otherwise indicated on the election ballot.

2. The candidate must be in attendance at the SGA meeting
   following the election to receive the results.

3. NO ballots can be removed from or added to the ballot box.

4. Each ballot must have the voter’s name and student
   identification number.

Section 3. The Student-Faculty Judiciary Committee shall be
comprised of one non-voting dean, three faculty members
(appointed by the college president), and three members of the
student body (appointed by the SGA president). These
committee members will be appointed during the first week of
each fall semester. The committee shall be appointed during
the summer session only if needed.

A. No student body members of the committee shall hold any
elected office or position with the Student Government
Association. In the event that a Student Government
Association is not formed in a given year, the dean of student
development services will appoint the student body members
to the committee.

B. Student body appointments to the committee shall be
apportioned according to class status; the freshman class
represented by one student body member, the sophomore
class represented by two student body members.

Article III. Duties

Section I. The duties of the student Senate shall be to
represent the best interests of the student body of this
organization, to hear and discuss grievances and suggestions
submitted by individual students, student groups or the
administration of this college, and to instruct the Executive
Committee in carrying out the purposes of this organization.

A. The president of the student body shall service as the
president of the Senate.

B. The student Senate shall have the power of approval over all
committee appointments made by the president of the student
body.

C. The individual senator shall have the sole duty to legislate, to
the best of his or her ability, for the benefit and the best
interests of the students represented.

1. It is the duty of each senator to attend all meetings of the
student Senate, both scheduled and called.

2. It is the duty of each senator, to the best of her or his ability,
to inform the student body of Senate legislation through
personal contact, and to present the expressed consensus
opinions of the student body at all Senate meetings.

Section 2. The duties of the Executive Committee shall be to
administer such action as the purposes of the Student
Government Association require on behalf of itself and the
student Senate.

A. The Executive Committee shall have the power to reconsider
any legislation presented to it by the student Senate if it feels
that such legislation is not in the best interests of the student
body.

A two-thirds majority or the Executive Committee is required to
disapprove legislation passed by the student Senate.

B. The Executive Committee shall have the power to introduce
legislation to the student Senate that it feels is in the best
interest of the student body.

C. The president shall be the official head of this organization,
shall publicly represent the best interests of this organization,
shall preside over all meetings of the student body and the
Executive Committee, shall supervise the execution of any
action required by this organization and appoint such
committees as deemed necessary to assist in the performance
of presidential duties.

D. The secretary of this organization shall keep a written record
of all meetings of the student body, Student Government
Association, and Executive Committee. The treasurer of this
organization shall keep a written record of all financial affairs
and transactions of the organization and shall report all pending
expenditures to the local funds accountant in the business
office. The treasurer shall also serve as chairman of the Finance
Committee. Any previous rights or privileges delegated to the
secretary treasurer of this organization shall be delegated to
both the secretary and the treasurer.

Section 3. The Student-Faculty Judiciary Committee shall
provide a fair and equitable hearing for all cases of discipline
that shall:

1. Arise out of a breach of regulations set up by the Student
   Government Association,

2. Arise out of a breach of the Code of Conduct of Patrick Henry
   Community College,

3. Be referred to it by any unit of the Student Government
   Association,

4. Be referred to it by any dean or faculty member of the
   college.

Any member of this committee who feels personally involved in
a case shall request that a substitute be appointed as a
replacement for the case.

B. In the event of a grievance, the chairman of this committee
shall notify all parties having an immediate and recognizable
interest in the proceedings, and shall schedule a meeting of the
committee to discuss these proceedings.
C. All proceedings held by this committee are closed, and all recommendations are final.

Section 4. The individual members of the student body shall serve in any capacity requested by the president of the student body. They shall elect officers of the student body, and members of the Senate.

Article IV. Failure of Duty

Section 1. If, in the opinion of two-thirds of the student Senate, a senator is failing to meet the demands of duty inherent with the office, the senator shall be called before a special meeting of the Senate for a hearing. Then, if in the opinion of the Senate voting by secret ballot, the senator is found guilty of this failure, she or he shall be censured.

A. This censure shall be considered official notification of the senator’s failure to meet duties, and the Senate’s disapproval of this neglect.

B. No senator shall be allowed more than one censure during the term of office.

C. The president of the Senate shall deliver official censure.

Section 2. If, in the opinion of two thirds of the elected student representatives, any officer of the student body is failing to meet the demands of duty inherent with the office, the officer shall be called before a joint committee for a hearing. Then, if in the opinion of the Student Government Association, the officer is found guilty, he or she shall be censured.

A. This censure shall be considered official notification of the officer’s failure to meeting duties and the Senate and the Executive Committee’s disapproval of this neglect.

B. No officer shall be censured more than once during the term of office.

A. C. The Chair of the Legal Concerns Committee shall deliver official censure.

Section 3. If, in the opinion of three-fourths of the entire student Senate and Executive Committee combined, any elected official continues to fail to meet the demands of duty inherent with the office, the elected official shall receive a formal request to resign.

A. This formal request to resign shall be delivered by the dean of student services.

B. This request for resignation may be appealed to the dean of student development services.

B. Article V. Terms of Office

Section 1. The elected officers and senators of the student body shall serve a term of one year, beginning in the last five weeks of the spring semester, and ending in the last five weeks of the following spring semester.

Section 2. Vacancies within the Student Government Association shall be filled as follows:

A. Vacancy in the office of the president of the student body shall be assumed by the vice-president.

B. Vacancy in the office of vice-president of the student body and/or the secretary and the treasurer shall be filled by a special election within a reasonable time after the vacancy occurs.

C. Vacancies in the student Senate shall be filled by special election within a reasonable time after the vacancy occurs.

Article VI. Qualifications

Section 1. All elected officers and senators shall be students enrolled in a curriculum, shall maintain a cumulative grade point average of not less than 2.00, and shall be registered for not less than six semester hours of credit.

Section 2. Any officer or senator whose cumulative grade point average has fallen below 2.00 shall be removed from office, unless the individual can show sufficient cause to prevent removal. Any officer or senator who is placed on academic probation shall be removed from office.

Section 3. All students seeking office shall fulfill the requirements established by the Elections Committee, including understudy.

Section 4. All persons seeking election to an office of this organization must attend at least two Senate meetings prior to the election day.

Article VII. Legislation

Section 1. The Student Government Association shall be empowered to enact such legislation consistent with the policies of Patrick Henry Community College and the State Board for Community Colleges, and necessary to fulfill its purpose.

Section 2. Such legislation may be initiated by the Executive Committee, the student Senate, or by petition signed by 10 percent of the student body. Ratification requires a two-thirds majority of the votes cast.

Section 3. Notice of the ratification vote shall be posted five school days prior to the vote.

Article VIII. Special Committees

Section 1. Special committees may be created at the discretion of the president to aid in the performance of duties.
Workplace Violence Policy

It is Patrick Henry Community College’s policy to promote a safe environment for its employees, students, and campus visitors. The college is committed to working with its employees to maintain a work environment free from violence, threats of violence, harassment, intimidation, and other disruptive behavior. While this kind of conduct is not pervasive at our college, no workplace is immune. Disruptive behavior at one time or another will affect every agency.

Violence, threats, harassment, intimidation, and other disruptive behavior in our workplace will not be tolerated; that is; all reports of incidents will be taken seriously and will be dealt with appropriately. Such behavior can include oral or written statements, gestures, or expressions that communicate a direct or indirect threat of physical harm. Individuals who commit such acts may be removed from the premises and may be subject to disciplinary action, criminal penalties, or both.

All employees should cooperate to implement this policy effectively and maintain a safe working environment. Do not ignore violent, threatening, harassing, intimidating, and other disruptive behavior. If you observe or experience such behavior by anyone on agency premises, whether he or she is an agency employee or not, report it immediately to a supervisor or manager. Supervisors and managers who receive such reports should seek advice from the respective Vice President or the college’s Human Resource Manager as appropriate, and to report the incident and initiate appropriate action.

Please note: Threats or assaults that require immediate attention by security or police should be reported first to PHCC security at 732-2406 or to local police by calling 911.

PHCC will support all efforts made by supervisors and agency specialists in dealing with violent, threatening, harassing, intimidating, and other disruptive behavior in our workplace and will monitor whether this policy is being implemented effectively. For additional information, contact the Vice President of Financial and Administrative Services or the Human Resource Manager.

Workplace Violence Prevention and Threat Assessment Policy Guidelines

Purpose: The purpose of this policy is to establish guidelines for the development of a College/System Office policy for the prevention of workplace and general campus violence. It includes the formation of campus Threat Assessment Teams and the promotion and maintenance of a productive environment for learning and working that is free from threats, intimidation, and violence.

3.14.6.0 Coverage: These policy guidelines will apply to all faculty, staff, students, visitors, contractors, and other third parties. Students may be covered under additional provisions of their respective college’s Student Handbook.

3.14.6.1 Policy Components:

A. Definitions:

Workplace Violence: Any physical assault or threatening behavior occurring in the workplace by employees, students, or third parties. It includes, but is not limited to, beating, stabbing, suicide, shooting, rape, attempted suicide, psychological trauma such as threats, obscene phone calls, intentionally damaging property, an intimidating presence which makes a reasonable person apprehensive of imminent harm, and harassment of any nature such as stalking, shouting so as to cause a disruption, swearing or committing injurious acts motivated by, or related to, domestic violence or sexual harassment.

Third Parties: Individuals who are not state employees, such as relatives, acquaintances, strangers, contractors, or visitors.

B. The colleges/system office prohibits threats and acts of violence on college property, within college/system office facilities, at any college/system office-sponsored event; while engaged in college/system office business, educational, or athletic activities; and while traveling in state vehicles. Prohibited conduct includes but is not limited to:

- injuring another person physically;
- engaging in behavior that creates a reasonable fear of injury to self or another person;
- engaging in behavior that would subject a reasonable person to, and does subject another individual to, extreme emotional distress;
- possessing, brandishing, or using a weapon while on state premises by students, except where possession is a result of participation in an organized and scheduled instructional exercise for a course, or where the student is a law enforcement professional;
- possessing, brandishing, or using a firearm, weapon, or other device by faculty or staff that is not required by the individual’s position while on college/system office property or engaged in college/system office business; or in violation of law or other college/system office policy, except where the employee is a law enforcement professional;
• Brandishing, using or possessing a weapon without a permit to carry a concealed weapon by third parties while on campus in academic or administrative buildings, or while attending a sporting, entertainment or educational event, when specifically asked by the college to agree not to possess a weapon as a condition of attendance. This provision does not apply to law enforcement personnel.

• Brandishing or using a weapon by third parties with a permit to carry a concealed weapon while on campus in academic or administrative buildings, or while attending a sporting, entertainment or educational event, when specifically asked by the college to agree not to possess a weapon as a condition of attendance. This provision does not apply to law enforcement personnel.

• intentionally damaging property;

• threatening to injure an individual (including oneself) or to damage property;

• committing injurious acts motivated by, or related to, domestic violence or sexual harassment; and

• retaliating against any employee or student who, in good faith, reports a violation of this policy.

C. Consequences of Policy Violations:

1. Employees violating this policy will be subject to disciplinary action up to and including termination and criminal prosecution using existing policies and procedures including Section 3 of the VCCS Policy Manual or DHRM Policy 1.60, Standards of Conduct. Additionally, employees who are identified as engaging in the use of threatening language or behavior may be required, as a condition of continued employment, to participate in a mental health evaluation as part of a threat assessment process, and receive approval from the mental health evaluator that they are not a risk to themselves or others.

2. Students violating this policy will be subject to disciplinary action as outlined in their respective college’s Student Handbook, and other college policies as appropriate. Additionally, students who are identified as engaging in the use of threatening language or behavior may be required, as a condition of continued enrollment, to participate in a mental health evaluation as part of a threat assessment process, and receive approval from the mental health evaluator that they are not a risk to themselves or others.

3. Visitors and third parties violating this policy will be subject to applicable, state, and federal laws, and associated regulations, and may be barred from the college/System Office at the college’s/System Office’s discretion for violating this policy.

D. Violence Prevention Committees and Threat Assessment Teams

4. Each college shall establish a committee with responsibility for education and violence prevention on campus. The membership of this body shall include representatives from the following areas: student affairs, human resources, law enforcement, a mental health professional or counseling services representative, and others who have knowledge, professional expertise, or responsibilities that could assist the committee with completing its work. However, in all cases the membership of the committee must comply with the requirements of Virginia Code § 23-9.2:10. The committee should consult VCCS legal counsel when necessary, through established protocols.

5. Each violence prevention committee shall publish for its college community, a clear statement of its mission and membership, as well as the committee’s leadership role in the area of violence prevention.

6. Each violence prevention committee shall publish periodic guidance to faculty, staff and students regarding the following:

   1. how to recognize and report aberrant or potentially harmful behavior that may represent a threat to the community;

   2. policies and procedures for the assessment of individuals whose behavior may present a threat;

   3. appropriate means of intervention with such individuals;

   4. college/system action to resolve potential threats; and

   5. to whom on the college’s threat assessment team, or through what method, potentially threatening behavior should be reported.

Each college shall also organize a threat assessment team to be established by the State Board for Community Colleges. Membership of this body shall include representatives from the following areas: student affairs, human resources, law enforcement, and a mental health representative. The violence prevention committee may also be designated the campus threat assessment team if the counseling services representative is also a mental health professional. The threat assessment team may supplement its membership with others.
as necessary to assist it with fulfilling its purpose. However, in all cases the membership of the team must comply with the requirements of Virginia Code § 23-9.2:10. The threat assessment team shall implement the assessment, intervention, and action policies of the violence prevention committee. The committee should consult VCCS legal counsel when necessary, through established protocols.

E. Procedures for reporting or responding to threats or incidents of workplace violence:

3.14.6.2 Communication and Training

A. The Workplace Violence Prevention Policy will be posted on the college/System Office website.

B. Information on the Workforce Violence Prevention Policy, will be included as part of the employee orientation.

C. Training on recognizing and responding to potentially violent or violent situations in the workplace will be provided to employees periodically by the violence prevention committee.

D. Information regarding this policy will be included as part of student orientation.

1. Employee and student responsibilities should include:
   - Reporting incidents or threats of violence to their immediate supervisor, Human Resource Office, campus police/security, Threat Assessment Team members, or other designated individuals or offices by stated college policy.
   - Providing Human Resources and the immediate supervisor, or a college’s counseling services office where a student or employee, with a copy of any Protective Orders from a court which lists the college/System Office as protected areas so that appropriate enforcement activities occur.
   - No person who, in good faith, reports threatening or otherwise troubling behavior in accordance with this policy will be subject to retaliation.

2. Management Responsibilities include:
   - Designate a Workforce Violence Prevention Coordinator.

3. Establish a college violence prevention committee and organize a threat assessment team for the State Board’s establishment to comply with § 23-9.2:10 of the Code of Virginia.

4. Threat Assessment Team Responsibilities include:
   - Establishing or utilizing existing relationships with local and state law-enforcement agencies as well as mental health agencies to ensure compliance with § 23-9.2:10 of the Code of Virginia, and expedite assessment and intervention with individuals whose behavior may present a threat to campus safety.

5. Upon a preliminary determination that an individual poses a threat of violence to self or others, or exhibits significantly disruptive behavior or need for assistance, a threat assessment team may obtain criminal history record information, as provided in Virginia Code §§ 19.2-389 and 19.2-389.1, and health records, as provided in § 32.1-127.1:03.

6. No member of a threat assessment team shall redisclose any criminal history record information or health information obtained pursuant to this section or otherwise use any record of an individual beyond the purpose for which such disclosure was made to the threat assessment team. Va. Code § 23-9.2:10(E).
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