



2018-2019

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*Southwest Virginia Community College

COLLEGE CALENDAR

Holidays, 2018-19

The holidays listed below have been established as the official holidays for the College. Normally, all administrative offices of the College will be closed on these days.

Monday, May 28, 2018	Memorial Day
Wednesday, July 4, 2018	Independence Day
Monday, September 3, 2018	Labor Day
Thur.-Fri., November 22-23, 2018	Thanksgiving Break
Mon.-Mon., December 24-31, 2018	Christmas Break
Tuesday, January 1, 2019	New Year's Day
Monday, January 21, 2019	Martin L. King, Jr. Day

2018-2019 Academic Calendar

Summer Semester 2018

Memorial Day – College Closed	Monday, May 28, 2018
First Day of Classes – Full Term and First Five Weeks Term	Wednesday, May 30, 2018
Last day to add a class without faculty permission – First Five Weeks Term	Friday, June 1, 2018
Last day to pay tuition or receive a refund - First Five Weeks Term	Monday, June 4, 2018
Last day to add a class without faculty permission – Full Term	Tuesday, June 5, 2018
Last day to pay tuition or receive a refund - Full Term	Monday, June 11, 2018
Last day to withdraw from class without academic penalty - First Five Weeks Term	Tuesday, June 19, 2018
Last Day of Classes – First Five Weeks Term	Tuesday, July 3, 2018
Independence Day– College Closed	Wednesday, July 4, 2018
First Day of Classes – Second Five Weeks Term	Thursday, July 5, 2018
Last day to add a class without faculty permission – Second Five Weeks Term	Monday, July 9, 2018
Last day to withdraw from class without academic penalty - Full Term	Wednesday, July 11, 2018
Last day to pay tuition or receive a refund - Second Five Weeks Term	Tuesday, July 10, 2018
Last day to withdraw from class without academic penalty - Second Five Weeks Term	Wednesday, July 25, 2018
Last Day of Classes – Full Term and Second Five Weeks Term	Wednesday, August 8, 2018

Fall Semester 2018

Last day to pay tuition for early enrollment	Wednesday, August 8, 2018
In-Service and Enrollment Days	Thu. – Tues., August 16 – 21, 2018
First Day of Classes – Full Term and SDV Term	Wednesday, August 22, 2018
Last day to pay tuition – Full Term and SDV Term	Wednesday, August 22, 2018
Last day to add a class without faculty permission – SDV Term	Friday, August 24, 2018
Last day to drop a class and receive a tuition refund – SDV Term	Monday, August 27, 2018
Last day to add a class without faculty permission - Full Term	Tuesday, August 28, 2018
Labor Day – College Closed	Monday, September 3, 2018
Last day to add a class with faculty permission - Full Term	Tuesday, September 4, 2018
Last day to drop a class and receive a tuition refund - Full Term	Monday, September 10, 2018
Last day to withdraw from class without academic penalty - SDV Term	Wednesday, September 12, 2018
Last Day of Classes – SDV Term	Wednesday, September 26, 2018
First Day of Classes – Take 10 Term	Thursday, September 27, 2018
Last day to pay tuition – Take 10 Term	Thursday, September 27, 2018
Last day to add a class without faculty permission – Take 10 Term	Wednesday, October 3, 2018
Last day to drop a class and receive a tuition refund - Take 10 Term	Tuesday, October 9, 2018
Faculty In-Service – No Classes	Tuesday, October 9, 2018
Last day to withdraw from class without academic penalty - Full Term	Wednesday, October 31, 2018
Open enrollment for spring semester begins	Thursday, November 1, 2018
Last day to withdraw from class without academic penalty - Take 10 Term	Thursday, November 15, 2018
Faculty Research Day – No Classes	Wednesday, November 21, 2018
Thanksgiving Holiday – College Closed	Thursday, November 22, 2018
Thanksgiving Holiday – College Closed	Friday, November 23, 2018
Last Day of Classes – Full Term and Take 10 Term	Tuesday, December 11, 2018
Final Exams	December 12 – 18, 2018
Faculty Workday	Wednesday, December 19, 2018
Faculty Research Day	Thursday, December 20, 2018
Faculty Research Day	Friday, December 21, 2018
Christmas Eve – College Closed	Monday, December 24, 2018
Christmas Day – College Closed	Tuesday, December 25, 2018
College Closed	December 26-31, 2018

Spring Semester 2019

New Year's Day – College Closed	Tuesday, January 1, 2019
In-Service and Enrollment Days	Wed. – Fri., January 2 – 4, 2019
First Day of Classes – Full Term and SDV Term	Monday, January 7, 2019
Last day to pay tuition – Full Term and SDV Term	Monday, January 7, 2019
Last day to add a class without faculty permission – SDV Term	Wednesday, January 9, 2019
Last day to add a class without faculty permission - Full Term	Friday, January 11, 2019
Last day to drop a class and receive a tuition refund - SDV Term	Monday, January 14, 2019
Last day to add a class with faculty permission - Full Term	Friday, January 18, 2019
Martin Luther King, Jr. Day – College Closed	Monday, January 21, 2019
Last day to drop a class and receive a tuition refund - Full Term	Friday, January 25, 2019
Last day to withdraw from class without academic penalty - SDV Term	Monday, January 28, 2019
Last Day of Classes – SDV Term	Monday, February 11, 2019
Faculty In-Service – No Classes	Tuesday, February 12, 2019
Faculty In-Service – No Classes	Wednesday, February 13, 2019
First Day of Classes – Take 10 Term	Thursday, February 14, 2019
Last day to pay tuition – Take 10 Term	Thursday, February 14, 2019
Last day to add a class without faculty permission – Take 10 Term	Wednesday, February 20, 2019
Last day to drop a class and receive a tuition refund - Take 10 Term	Tuesday, February 26, 2019
Spring Break – No Classes	March 11 – 15, 2019
Open enrollment for all summer sessions and fall semester begin	Monday, March 18, 2019
Last day to withdraw from class without academic penalty - Full Term	Friday, March 29, 2019
Last day to withdraw from class without academic penalty - Take 10 Term	Monday, April 15, 2019
Faculty Research Day – No Classes	Thursday, April 18, 2019
Faculty Research Day – No Classes	Friday, April 19, 2019
Last Day of Classes – Full Term and Take 10 Term	Friday, May 3, 2019
Final Exams	May 6 – 10, 2019
Graduation	Friday, May 10, 2019
Faculty Research Days	Mon.-Wed., May 13 – 15, 2019

ABOUT THE COLLEGE

About VHCC

Virginia Highlands Community College was established on November 30, 1967 by action of the State Board for Community Colleges, and assigned a service region of Washington County, the western portion of Smyth County, and the city of Bristol, Virginia. Today it is one of 23 community colleges within the Virginia Community College System.

During its first academic year, 1969-1970, VHCC began delivering the occupational-technical programs that formerly were offered by the Washington County Technical School. More than 300 students enrolled in the first Virginia Highlands classes, which were offered at night in the technical school's facilities.

The College moved to its permanent 100-acre campus during the summer of 1970 and, in response to the community's needs, expanded its course offerings to include both occupational-technical programs and baccalaureate-transfer programs.

Over its 49 years of operation, Virginia Highlands Community College has become a dynamic leader in Southwest Virginia with a primary goal of providing comprehensive and quality education and related services for residents throughout its region. More than 3,300 students were served this past year by 111 full-time and 133 part-time faculty and staff members. The rolling hills of the campus have been developed to include six modern buildings, athletic and recreational facilities, and substantial parking. Programs and services also have changed to meet the needs of the local community. For example, the Division of Workforce Development and Continuing Education was created in 1996 to better prepare the local workforce. The Southwest Virginia Higher Education Center -- a separate organization located on the VHCC campus -- opened in 1998 to bring baccalaureate and graduate programs to the area, and the Arts Array cultural program was expanded into a community-wide program.

In addition, the dual enrollment program now offered by the College is allowing students to earn college credit while still in high school, the service learning initiative is teaching VHCC students the value of volunteerism, and the Tobacco Outreach program is providing tuition assistance for tobacco farmers and their families.

State-of-the-art technology has made it possible to take distance learning courses and has provided the entire College community with modern, up-to-date computer facilities. Through Federal Trio programs – Student Support Services (EXCEL) and Upward Bound high school and college students are receiving the academic help and encouragement they need to complete high school and succeed in college.

To evaluate each of its programs and services, the College engages in an ongoing strategic planning process aimed at examining every aspect of campus life. This thorough self-examination will ensure Virginia Highlands Community College continues to achieve its fundamental mission of effectively serving a community that is always changing.

Accreditation & Recognition

Virginia Highlands Community College, a division of the Virginia Community College System, is approved by the State Board for Community Colleges and by the Virginia Community College Systems Office. The associate degree curricula of the College have also been approved by the State Council of Higher Education for Virginia.

Virginia Highlands Community College is accredited by the Southern Association of Colleges and Schools Commission on Colleges (SACSCOC) to award the associate degree. Contact the Commission on Colleges at 1866 Southern Lane, Decatur, Georgia 30033-4097 or call 404-679-4500 for questions about the accreditation of Virginia Highlands Community College.

The Nursing Program is approved by the Virginia Board of Nursing and is accredited by the Accreditation Commission for Education in Nursing (ACEN), 3343 Peachtree Road NE, Suite 850, Atlanta, Georgia 30326, (404) 975-5000, www.acenursing.org. ACEN is officially recognized as the national accrediting agency for nursing education by the Council on Post-secondary Accreditation (COPA) and by the U.S. Department of Education.

The Radiography program is fully accredited by the Joint Review Committee for Radiologic Technology Education (JRCERT), 20 North Wacker Drive, Suite 2850, Chicago, Illinois, 60606-3182, phone 312-704-5300. You may also contact JRCERT at mail@jrcert.org or at www.jrcert.org.

The Emergency Medical Services Technology program is accredited nationally by the Committee on Accreditation of Allied Health Educational Programs (CAAHEP), 25400 U.S. Highway 19 North, Suite 158, Clearwater FL, 33763, phone 727-210-2350.

The Occupational Therapy Assistant Program at Southwest Virginia Community College and Virginia Highlands Community College campus is accredited by the Accreditation Council for Occupational Therapy Education (ACOTE) of the American Occupational Therapy Association (AOTA), 4720 Montgomery Lane, P. O. Box 31220, Bethesda, MD 20824-1220, phone 301-652-2582.

VHCC is approved for listing in U.S. Department of Education directories and for participation in various federally sponsored programs of student aid and educational assistance. It has also been approved by the Virginia State Approving Agency to offer GI Bill® benefits.

VHCC is an institutional member of the American Association of Community Colleges, the Southern Association of Community, Junior, and Technical Colleges, and the Association of Virginia Colleges.

Mission of the College

Virginia Highlands Community College provides exceptional educational pathways to enrich lives and strengthen our communities.

Vision Statement

Virginia Highlands Community College will be an educational institution of choice, empowering students, employees and community members to reach their fullest potential.

Core Values

At Virginia Highlands Community College, we value excellence, individual worth, a welcoming environment, accountability and achievement.

Educational **excellence** that furthers intellectual, creative, ethical and social development through a broad range of programs, professionally delivered and continuously evaluated with a focus on improvement.

Individual worth, focusing on the strengths, experiences, and perspectives of all people. We set aside personal preferences and focus on the best interest of our campus and local communities, which are strengthened in an environment of mutual respect and learning.

A safe, secure, and **welcoming environment** that cultivates a student-centered approach to service.

Accountability, accepting responsibility for our actions and accepting ownership for the results. We uphold the values of honesty, transparency, and integrity while remaining good stewards of the resources entrusted to us.

Achievement, recognizing that life-long learning provides individual empowerment, resulting in success and personal satisfaction. We are proud to be a life-changing institution that encourages a passionate pursuit of excellence.

LearningPLUS+

LearningPLUS+ is a student-centered college-wide initiative designed to teach students the soft skills of communication, professionalism, problem solving and teamwork through hands-on experiential learning. VHCC students will participate in the LearningPLUS+ program in three ways:

1. Direct instruction and assessment of soft skills in their SDV 101 course.
2. Direct soft skill instruction, hands-on learning opportunities and assessment in most of their VHCC courses.
3. All students will be required to participate in a capstone experience that will allow them to demonstrate their mastery of the LearningPLUS+ soft skills prior to graduation.

At VHCC, we're committed to LearningPLUS+ because we're committed to student success and the needs of our communities. LearningPLUS+ is VHCC's way of ensuring our graduates have the skills they need to be successful in life and in the workplace.

Special College Policies

The College reserves the right to make changes as required in course offerings, curricula, academic policies and other rules and regulations affecting students, to be effective at the discretion of the College. These changes will govern current and formerly enrolled students. Enrollment of all students is subject to these conditions. Virginia Highlands Community College retains the right to make appropriate changes to remain in compliance with Virginia Community College System policy. Changes and supplements to this catalog will be issued as necessary.

Admissions Policy

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:

	<u>VPT</u>	<u>Compass</u>	<u>Asset</u>
Reading	ENF 1	62	35
Writing	ENF 1	32	35
Math	MTE 1	25	33

The College reserves the right to evaluate and document special cases and to refuse or revoke admission if the College determines that the applicant or student poses a threat, 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 applicants who have been expelled or suspended from, or determined to be a threat, potential danger or significantly disruptive by another college. (see [General Admissions Exceptions](#))

Individuals may be admitted to VHCC as curricular or non-curricular students. Students must satisfy required course pre-requisites or [placement criteria](#) before enrolling in a course that has requisite requirements. In order to receive any letter grade, a student must have attended a minimum of one class meeting or the equivalent in the case of a distance learning course.

For all [curricular students](#), the following items are required:

- a. A completed official application for admission with social security number requested.
- b. Unless otherwise specified by the college, official transcripts from all high schools, colleges, and universities attended. Graduates who complete secondary school in a home school setting must provide a graduation date and may be required to provide documentation of coursework. The VCCS Student Information System academic records will be sufficient for colleges within the Virginia Community College System.
- c. Additional information as stated by the college for admission to specific programs or curricula.

For all **non-curricular students**, a completed official application for admission is required with social security number requested.

Virginia Highlands Community College promotes and maintains educational opportunities without regard to race, color, sex, ethnicity, religion, gender, age (except where age is a bona fide occupational qualification), disability, national origin, or other non-merit factors. This institution prohibits sexual harassment including sexual violence.

General Admissions Exceptions

The College reserves the right to evaluate and document special cases and to refuse or revoke admission if the College determines that the applicant or student poses a threat, 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 applicants who have been expelled or suspended from, or determined to be a threat, potential danger or significantly disruptive by another college. Below is the procedure if a denial of admissions is warranted. This provision applies to individuals who are in applicant status or those who are enrolled for a future semester. In extreme cases, such as convicted sex offenders or any student who poses a danger to the campus community, the College has the right to apply these provisions to dis-enroll currently enrolled students during a given semester session. Behaviors which present a threat or potential danger to the College community or other behaviors in which it is considered to be in the best interest of the College to refuse admission or revoke enrollment, but are not limited to any violation of the Violence Prevention Policy.

Procedures:

Upon notification to the Vice President of Instruction and Student Services that the applicant/enrolled student has exhibited threatening, violent, intimidating or disruptive behavior or any violation of the Violence Prevention Policy, the Vice President of Instruction and Student Services will conduct an investigation to evaluate the circumstances. After the investigation, if the College determines that the applicant is a threat or potential danger to the college community or if such refusal is considered to be in the best interest to the College, the student will be notified as follows:

Applicant with no enrollment:

After the investigation, the applicant will receive written notification at the home address listed in the student information system stating that admission to the College has been denied. The notification will state the denial is based on the College's determination that the applicant

represents a threat or potential danger to the College or that the refusal of admission is considered to be in the best interest of the College. A service indicator will be placed on the applicant's record which will prevent the applicant from registering for classes.

Applicant with enrollment:

An applicant who becomes an enrolled student will receive written notification at the home address listed in the student information system stating that admission to the College is revoked and enrollment for the current or future semester is withdrawn. The notification will state the decision is based on the College's determination that the applicant represents a threat or potential danger to the College and/or their revoked admission and withdrawn enrollment is considered to be in the best interest of the College. The written notification will detail the procedures for due process and will provide the individual with explicit instructions on the appeal process. The College will reserve the class enrollment until the appeal process is complete, but the individual will not be allowed to attend class during the appeal process.

The individual is required to initiate the appeal process in writing within ten (10) calendar days of the notification by the College (as indicated by the date of the written notification from the College) in order to receive consideration to remain enrolled. Absent extreme extenuating circumstances, if the enrolled student fails to follow the appeal process within ten (10) calendar days of notification from the College he/she will forfeit the right to appeal, which will result in the College sending to the student written notification of administrative withdrawal of all current and future classes at the College, and revocation of admission for future semesters. The College will make every effort to expedite the hearing timeline.

Appeal process for enrolled student:

1. The College will notify the student of its investigation if a hold is placed on the student registering for classes, or taking advantage of any other student benefit.
2. The enrolled student will receive a letter from the Vice President of Instruction and Student Services detailing the denied status of the student, withdrawn enrollment and appeal procedure within ten (10) calendar days of the College's decision to deny or revoke admission and to withdraw the student from current or future enrollments. The enrolled student will be advised of the right to due process and request for appeal.
3. Upon receipt of a request for appeal from the student within the required ten (10) calendar days of notification, the Vice President of Instruction and Student Services will convene the Ad hoc Admissions Appeals Hearing Committee (AAAHC). In addition to the Vice President of Instruction and Student Services, the committee membership and appointment will be at the discretion of the President of the College. The purpose of the hearing is to provide the student notice of the basis for the College's decision and the right to provide his/her explanation of the facts, as well as for the AAAHC to evaluate the facts of the case. If, after the hearing, the AAAHC determines that the applicant or enrolled student represents a threat or potential danger to the College and/or the revoked admission and withdrawn enrollment is considered to be in the best interest of the College, the student's admission to the College will be revoked; the student will be administratively withdrawn from classes and the student will receive a tuition refund. The individual will be denied future admission/enrollment to the College.
4. The AAAHC will review the proceedings of the hearing and make a decision by a simple majority vote within fourteen (14) calendar days of receiving the written request for the appeal. The College will make every effort to expedite appeal process. The Vice President of Instruction and Student Services will convene the committee and serve as a member. The Vice President of Instruction and Student Services will inform the enrolled student by written correspondence of the AAAHC decision. The decision of the AAAHC will be final.

Admission Process for Convicted Sexual Offenders

The following procedures apply to applicants designated as convicted sexual offenders.

Procedures:

1. Upon notice that a convicted sexual offender has applied to the College, the Division of Student Services will place a hold (negative service indicator) on the applicant's file.
2. The Student Services Division will notify the Vice-President of Instruction and Student Services who will send a letter to the student indicating that the student should contact Campus Police in order to arrange a meeting / hearing regarding the circumstances surrounding the hold on their application.
3. The Chief of Police (or designee) along with the Dean of Enrollment Management and Student Services will facilitate the meeting with the student. During the meeting, the following information will be gathered:
 - a. Nature of the offense for which he/she has been convicted;
 - b. In the event that the applicant is a sexual offender, a 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 upon admission.
 - c. Parole officer contact information and conditions of parole.
 - d. Psychologist or counselor contact information who can attest to applicant's behavior or condition.
 - e. Justification for consideration of admission;

4. After the meeting, Campus Police and the Dean of Enrollment Management and Student Services will confirm the information shared in the interview and make a recommendation to the Vice President of Instruction and Student Services on the applicant's participation at the College, based on the accuracy of the information provided by the applicant; the offense; and the potential likelihood of the applicant being a threat to the community.
5. If admission is granted, a letter from the Vice President of Instruction and Student Services stating the provisions of enrollment will be sent to the student (e.g. limitations on courses) as prescribed by conditions of parole or psychologist's information.
6. If the recommendation is to deny the applicant, the Vice President of Instruction and Student Services will send out the correspondence to the applicant. If denied admission, the applicant may appeal the decision by forwarding a written appeal to the Vice President of Instruction and Student Services. The appeal must be made within 10 business days of the decision. The appeal will be reviewed by a committee consisting of a faculty member, staff member, and a member of the Student Affairs Committee who will review the appeal and issue a decision within 10 business days from receipt of appeal.
7. In the event that a student self-reports or the information is provided regarding convicted sexual offender status after enrollment, the student will be called to a meeting and steps 3 through 6 will be applied.

The Vice President of Instruction and Student Services will send correspondence on all decisions.

Admission of Transfer Students

In most cases, a student who is eligible to continue enrollment at another college is eligible to transfer to Virginia Highlands Community College.

Transfer students who are ineligible to return to a particular curriculum in a previous college generally may not be allowed to enroll in the same curriculum in the community college until one semester elapses or until approved preparatory programs at the College is completed. The Admissions Committee of the College may decide on each case and can impose special conditions for the admittance of such students.

Each student transferring from another college should consult the Coordinator of Counseling at the College for an assessment of credits in order to determine his/her standing before registering for classes. Generally no credit will be given for courses with grades lower than "C." Transfer students may be advised to repeat courses in order to make satisfactory progress in their programs.

Transcripts of students transferring from non-regionally accredited colleges and universities will be evaluated on a course-by-course basis by the Coordinator of Counseling.

Admission Priorities

When enrollment for any curriculum must be limited, priority will be given to qualified applicants who are residents of the VHCC service region and other Virginia residents who do not have access to a comparable program at their community college. Similar consideration may be given to applicants who live within areas in which the College maintains a clinical site or has other agreements.

The priority list is as follows:

1. Residents of the VHCC service region (City of Bristol, Washington County, and Western portion of Smyth County) and Tennessee residents from counties in which a clinical-site or other agreements exist (Johnson County and Sullivan County),
2. Other Virginia residents,
3. Out-of-state and international students.

The Virginia Highlands Community College Board has established the following schedule for considering applications: prior to April 1 applications will be considered for only those persons living within the political subdivisions supporting the College; after April 1 all Virginia residents will be considered for admission; and after May 1 out-of-state and international students with student (F-1 and F-2) and diplomatic (A-1 and A-2) visas.

Admission to English, Math, Biology or Chemistry Courses

Admission to specific courses is approved only when the student meets the prerequisite requirements or has instructor approval for the course.

1. All students must meet [VHCC placement](#) criteria in reading and writing before entry into the first college level English composition course.
2. Enrollment in Biology 101 requires reading and writing scores appropriate for placement into ENG 111. Enrollment in Biology 141 requires reading scores appropriate for placement into ENG 111
3. All students must meet VHCC placement criteria in math before entry into any math course.
4. Mathematics Scores based upon the placement criteria are required for enrollment in any chemistry course.
5. Students who bypass the policy and register for an English or mathematics, biology or chemistry class without meeting appropriate placement criteria are subject to administrative withdrawal.
6. Policy requires that students requesting a retest meet specified criteria identified in the [Placement Testing and Retesting Policy](#).

Admission to Specific Curricula

In addition to the general admission requirements listed, specific requirements are prescribed for each curriculum of the College. These are listed in the Curriculum Offerings section of this catalog. Persons who do not initially satisfy the published academic requirements for a specific curriculum may be admitted to the curriculum with the condition that they complete the appropriate requirements.

It is policy to admit a student to curricula, as space permits. The appropriate college officer shall officially notify students of their admission to the curriculum.

Each student must be a graduate of an accredited high school or present passing score(s) on the General Educational Development Test (GED), or present passing score(s) on an Ability to Benefit test or otherwise be considered eligible by the College to be accepted to an associate degree, diploma, or certificate program.

Application for Readmission to the College

If a student in "good academic standing" has not been enrolled within the last three years (nine terms), he/she will be required to complete a new application for admission.

Classification of Students

All students are classified according to the following categories:

1. Curricular Student

A student who has a high school diploma, a GED, or the ability to benefit is designated as a curricular student when all of the information required for general admission to the College has been submitted to the Student Services Division and when the individual has been admitted to one of the curricula of the College.

2. Non-Curricular Student

A non-curricular student is one who is not formally admitted to one of the curricula but is classified according to the following student goals or conditions.

A. Upgrading Employment Skills for Present Job

Student is employed and seeking to upgrade skills for a current job.

B. Developing Skills for New Job

Student is seeking to develop skills for a new job.

C. Career Exploration

Student is undecided about a career goal and an occupational choice. The College will provide counseling assistance to aid the student in making decisions concerning career/curricular goals. Such a student will be expected to declare another educational goal prior to completing 30 credit hours of course work.

D. Personal Satisfaction and General Knowledge

Student is enrolled for reasons not related to specific occupational or educational goals.

E. Transient Student

Student, while enrolled at a community college, maintains primary enrollment with another post-secondary institution.

F. High School Student (with college approval only)

- students must be high school juniors or seniors who are 16 or older
- students must be qualified or prepared for the demands of a college level course and able to benefit from the enrichment opportunity (determined by appropriate high school personnel)
- public school principal must approve/recommend the cross-registration of the high school student to the community college

Limitations/Exclusions

- no developmental courses may be approved for a dual enrollment arrangement

G. Auditing a Course

Students desiring to attend a course without taking the examination or receiving credit for the course may do so by registering to audit that course. Students desiring to audit a course will register in the regular manner and pay the regular tuition. Audited courses carry no credit and do not count as part of the student's course load. Students desiring to change status in a course from audit to credit must do so within the add/drop period. Changes from credit to audit must be made by the official last day for students who withdraw from a class without penalty.

High school students who want to attend VHCC under the Principal's Permission provision must indicate high school status on the College application and submit a transcript of grades and "Principal's Permission to Enroll" form to the Dean of Enrollment Management and Student Services.

Federal regulations do not permit financial aid to be awarded to college students who are simultaneously enrolled in public or private secondary educational programs.

Disability Services

VHCC is committed to providing all students with equal access to academic programs, student activities, and other educational opportunities that enhance the college experience. The Office of Disability Services supports this goal by providing the appropriate accommodations and auxiliary aids to students with disabilities who request assistance. To request accommodations; students with disabilities should:

1. Contact the Office of Disability Services in ISC-124 at (276) 739-2404 or via email at kcopenhaver@vhcc.edu to schedule an appointment. This should be done immediately after applying to the college.
2. Provide current documentation of the disability. Documentation must be current, signed by a physician or other licensed professional, and include any functional limitations. Documentation may be emailed to kcopenhaver@vhcc.edu or mailed to the Office of Disability Services, Virginia Highlands Community College, P.O. Box 828, Abingdon, VA, 24212.

After completion of the intake process, an accommodation plan will be developed. The student and appropriate instructors will receive a copy of the plan. Accommodation plans remain active as long as the student is enrolled. Students who have not been enrolled for a period of two years or longer must complete a new request for disability services form and provide up-to-date documentation of their disability in order to receive accommodations.

Documentation Needed for Admissions

All students are required to complete an official application for admission (Note: social security number is requested). Those seeking in-state tuition also should complete an Application for Virginia In-State Tuition.

Additionally, all curricular students should provide official transcripts from all high schools, colleges and universities attended. The College may require additional documentation for some programs.

Dual Enrollment Student Admissions

Dual enrollment is restricted to high school juniors and seniors and home school students studying at the high school junior or senior levels. All students admitted under this section must demonstrate readiness for college, meet the applicable college placement requirements, and address all other college admission criteria. Home school students must 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 enrolling high school freshman and sophomore students is considered exceptional, the college ready status of each freshman and sophomore student will be treated on a case-by-case basis. Formal approval by the College president is required.

- High school students who want to attend VHCC under the Principal's Permission provision must indicate high school status on the College application and submit a transcript of grades and have the "Principal's Permission to Enroll" form to enroll.
- Federal regulations do not permit financial aid to be awarded to college students who are simultaneously enrolled in public or private secondary educational programs.

International Applicants

Virginia Highlands Community College is authorized under federal law to enroll nonimmigrant alien students. The College welcomes applications from international students who meet the qualifications set forth in these guidelines. All stated requirements are subject to change based upon federal regulations or a determination by the College that a policy change is in the best interests of the student and/or the College community.

International applicants will be admitted only if they fulfill all general and special requirements for admission. International students are considered out-of-state residents for purposes of determining tuition rates and admission to programs with limited enrollment. Students who acquired a student visa through acceptance by another school or college will not be considered until they have secured a written release from the original institution. International students who are exclusively taking classes through distance learning without entry into the United States will be evaluated on an individual basis. All documentation must be received by June 1 for Fall admission or October 1 for Spring admission.

1. Financial Responsibility

No financial aid is available for international students. The College will not certify applications for international students to obtain a work permit until they have successfully completed 30 semester hours of coursework at the College with a 3.0 GPA, or resided in the U.S. for at least twelve consecutive months, whichever is the longest period of time. All international applicants must complete a form provided by the College and have it notarized to affirm they have financial resources sufficient to pay college and living expenses prior to being issued a SEVIS-20. The statement must include the amount of income the student will receive while attending college, the source of income, and the manner in which living expenses will be met. All international students holding F-1 and J-1 visas must purchase health and accident insurance. If the applicant is under 18, the parent or legal guardian must submit the notarized statement of financial support. All international students must have a local sponsor who will assume financial responsibility for the student.

2. English Proficiency

International students whose native language is not English must document proficiency in the English language by submitting a TOEFL (Test of English as a Foreign Language) score. Official copies of the TOEFL scores must be submitted to Admissions Officer.

The TOEFL test is required of all applicants who are not native speakers of English, in addition to all foreign students with visas, except those raised or schooled in Australia, Canada, Great Britain, Ireland, Jamaica, or other countries where the College can determine that English is the language of instruction. A TOEFL score of 550 on the paper-based TOEFL test, 234 on the computer based TOEFL test, or 80 on the internet-based TOEFL is required, although achieving that score is no guarantee of admission. The applicant is responsible for making early arrangements for taking the test and should address inquiries to TOEFL, Educational Testing Service, Princeton, New Jersey 08540, USA. The Bulletin of Information, obtainable without charge, contains a description of the test and rules regarding application, fees, reports on the conduct of the test, lists of examination centers, examination dates, and an application blank. On the application for the test, the student should specify that the scores be sent to the Admissions Officer at VHCC. The official results of the TOEFL must be received at VHCC at least 60 days before the term for which the applicant seeks admission. Applicants who are in the United States and who have not taken the TOEFL or achieved the minimum cut score, may petition the College to evaluate them for admission during a visit to the campus. This evaluation will generally include completion of our freshman assessment (VPT) in English, reading, and mathematics including a writing sample on an assigned topic, followed by an interview with a member of the English faculty. The English faculty member will make the final admission decision based on the interview, writing, and test results. There is no appeal to this decision. There is no substitute for planning ahead on the part of international students wishing to gain admission to our College. Transfer applicants who have completed two semesters or terms of a non-ESL English composition course with above-average grades at an American college or university are not required to submit TOEFL scores.

3. International Transcripts

International transcripts and documents must be submitted in their original form, accompanied by a certified English translation. Unofficial documents and documents without accompanying English translations will not be accepted. International transfer students must submit a syllabus of university study. This description of each course or subject studied must be submitted in English translation of the syllabus. Application without this information cannot be considered. It is required that transfer students seeking admission from international educational systems have a professional evaluation service review their transcripts with a course by course evaluation. Students currently enrolled in a U.S. system must still have their international transcripts evaluated.

4. International Applicant Contact

For additional information about the process for international applicants please contact: Student Services, Virginia Highlands Community College, P.O. Box 828 Abingdon, VA 24212 or by phone at 276-739-2438. Below is a checklist of admission requirements for international students:

1. Application for Admission as a curricular student.
2. Official English translated and notarized/certified secondary and college transcripts.
3. Test of English as a Foreign Language (TOEFL) with a minimum score of 550 on the paper-based TOEFL (pBT) test and 234 on the computer-based TOEFL (cBT) test, or 80 on the internet-based TOEFL (iBT) is required and the test results cannot be more than two years old.
4. Verification of health and accident insurance.
5. Declaration of financial resources (must be in US dollars).
6. Official transcripts from American colleges or universities attended.

Application Process for Students Applying from Abroad

Step 1: Apply to VHCC for an I-20

- Send all forms and required documents to the Student Services Office by the application deadline.
- We will contact you if your application is complete or if you still need to fill out some documentation.
- If everything is in order, the College is authorized to issue you an I-20 document. This is an official document that confirms you are eligible to study at VHCC. Your I-20 will be issued within 10 working days.

Step 2: The Visa Interview

- Pay the SEVIS fee (Student and Exchange Visitor Information Service). The fee is currently \$200 USD. This may be paid online at the SEVIS Fee Payment information page.
- Make an appointment at the U.S. Embassy or Consulate for an interview. Many branches now use an online booking system.
- At the interview, you will be asked to show your relevant papers (I-20, financial papers, passport). You will be asked about your educational plans, your financial support and your plans for returning to your home country. Visit the U.S. Department of State's website for more information about the visa interview.
- If the consular officer determines that everything is in order, the officer is authorized to issue you an F-1 student visa.

Step 3: Travel to the U.S.

- After you receive your F-1 visa you should make travel arrangements.
- You may enter the U.S. no more than 30 days prior to the reporting date listed under #5 on your I-20.

Step 4: Check in at VHCC

- Check in at the Student Services Office. Bring your I-20, passport and I-94 card.
- The office will provide you with more information about orientation session, placement testing and your responsibilities as an F-1 international student.
- Take the English placement test. The result of the test will determine the level of English you will begin studying at the College or whether or not you need to take developmental English classes before starting a degree program.
- Meet with a counselor to review your test results and to register for your classes.

Placement Testing and Retest Policy

Like other institutions of higher learning, Virginia Highlands Community College requires students applying to enroll in associate degree, diploma, and certificate programs and in courses that require a reading, writing, or math prerequisite to meet placement requirements for English and mathematics.

Students enrolling in Career Studies Certificate programs may be waived from placement testing, unless a course in the program requires a reading, writing, or math prerequisite.

Dual enrolled high school students who enroll in programs or courses must meet the admissions criteria specified for dual enrolled students and any applicable course prerequisites.

In determining students' readiness for college-level English and math courses, colleges will use the following criteria:

1. Any student who has earned an associate degree or higher or who has earned a C or better in college-level courses in math and/or English at a regionally accredited institution will be exempt from placement testing provided they meet the prerequisites for the respective courses in their chosen program of study.
2. Any student who has successfully completed developmental courses at a non-VCCS institution will have their coursework evaluated for placement.
3. A student may submit a high school/home school transcript or an approved test score for placement evaluation. High school GPA (HSGPA) is valid for five (5) years after the date of high school graduation. SAT, ACT and GED Test scores are valid for five (5) years after the date of the test. Seniors who have not yet graduated may submit a transcript as of the completion of the first semester of the senior year to determine readiness for placement into college-level courses for the purpose of early admission.

Math placement will be determined using one of the following measures.

Math Placement Measures	HSGPA or Score Range	Placement
HSGPA and Algebra II and One Algebra Intensive Course*	3.0 or higher	MTE 1-9 Satisfied
*Algebra Intensive Courses above Algebra II: Trigonometry, Math Analysis, Pre-Calculus, Calculus, Algebra III.	2.7-2.9	MTE 1-9 Co-Requisite Eligible
HSGPA and Algebra II	3.0 or higher	MTE 1-5 Satisfied
	2.7-2.9	MTE 1-5 Co-Requisite Eligible
HSGPA and Algebra I	3.0 or higher	MTE 1-3 Satisfied
	2.7-2.9	MTE 1-3 Co-Requisite Eligible
SAT – Math	530 or above	MTE 1-9 Satisfied
	510-520 range	MTE 1-5 Satisfied
ACT – Subject Area Test Math	22 or above	MTE 1-9 Satisfied
	19-21 range	MTE 1-5 Satisfied
GED – Math	165 or above	MTE 1-5 Satisfied
	155-165 range	MTE 1-3 Satisfied

= Students may complete the VPT – Calculus for placement into Pre-Calculus II, Calculus, and 200-level Statistics. Placement directly into Pre-Calculus II, Calculus, and 200-level Statistics based on HSGPA and highest level courses taken will be at the discretion of each college.

English placement will be determined using one of the following measures.

English Placement Measures	HSGPA or Score Range	Placement
HSGPA	3.0 or higher	ENG 111
	2.7-2.9	ENF3/ENG 111
SAT-ERW (Evidence-Based Reading and Writing)	480 or above	ENG 111
	460-470 range	ENF3/ENG 111
ACT-Subject Area Tests English and Reading	18 or above	ENG 111
	15-17 range	ENF3/ENG 111
GED-English	165 or above	ENG 111

Any student who is not placed by the criteria listed above will be required to take the Virginia Placement Test (VPT). Students have the option to take the VPT in order to improve their placement standing after other measures are considered. Such placement test scores will not be used to place a student in a lower English or math course than indicated by other criteria, unless the student desires a lower placement. Students who take the VPT and who do not enroll in developmental English/Math are allowed to take one (1) retest within twelve (12) months. Students who attempt a developmental English/Math course will be ineligible for a retest. Exceptions to this retest policy may be made on a case-by-case basis in accordance with established college procedures. VPT scores are valid for five (5) years after the date of the test. Previously taken developmental courses will be valid for five (5) years after term taken.

Official SAT or ACT scores should be submitted to the Student Services Division. An official report can be requested at www.collegeboard.com.

1. Purpose of Placement Test

The purpose of these tests is to assure that students are academically prepared for college level work, regardless of prior grades, work experience, or academic history.

2. When to Schedule Testing

It is recommended that students schedule testing prior to enrollment period and not wait until enrollment days. For example, if a student plans to enroll during fall semester, testing should occur during the summer prior to fall registration. All students must complete the VHCC Application for Admissions before placement testing. The Testing Center administers all placement tests (LRC 121A).

3. Preparation for Testing

VHCC recommends that students plan to actively prepare and review for English testing. There are various suggestions available to guide preparation on the VHCC website under *Future Student>Placement Testing*. Also, a short video has been prepared which students are encouraged to watch prior to testing. The short video can be accessed by following these simple steps: Go to www.vhcc.edu/podcast, click on the play video link and watch the show on your browser. VHCC recommends that students plan to actively prepare and review for mathematics testing. There are several suggestions available to guide preparation on the VHCC website on the *Future Students>Placement Testing* page in the Math Resources section.

4. Retest Policy

Students who take the VPT and who do not enroll in developmental English/Math are allowed to take one (1) retest within twelve (12) months. Students who attempt a developmental English/Math course will be ineligible for a retest. Exceptions to this retest policy may be made on a case-by-case basis in accordance with established college procedures. VPT scores are valid for five (5) years after the date of the test. Previously taken developmental courses will be valid for five (5) years after term taken.

The counselors or English and mathematics faculty will document all mitigating circumstances that suggest an exception to the above placement rules.

Residence Requirements

To qualify for in-state tuition, a student must live in Virginia for at least one year immediately prior to the beginning of the semester. Applications for in-state tuition must be completed by all students seeking the in-state rate.

Student Level

1. **Freshman** - Students are classified as freshmen until 30 credits have been completed.
2. **Sophomore** - Students are classified as sophomores after 30 or more credits of course work have been completed.

Student Status

1. **Full-time Student** - A student is considered a full-time student if carrying 12 or more credits of course work.
2. **Part-time Student** - A student is considered a part-time student if carrying less than 12 credits of course work.

ACADEMIC POLICIES

Academic Honors

The College encourages a high level of academic achievement and seeks to recognize those students who excel in this area. The Vice-President's List and President's Honor Roll have been established for the purpose of recognizing scholastic achievement. Full-time students must complete 12 hours of coursework in addition to any developmental courses.

1. President's Honor Roll

Full-time students earning a semester grade point average of 4.0 are placed on the President's Honor Roll. The semester average of a student who has earned an incomplete (I) will be computed when the Incomplete has been removed.

2. Vice President's List

Full-time students earning a semester grade point average of at least 3.5 (with no D's or F's) will receive recognition by being placed on the Vice President's List.

3. Merit List

Students enrolling for six to eleven credits during a semester and earning a GPA of 3.500 or more without any "I" or "F" grades will be placed on the Merit List.

Academic Load

The normal academic course load for students is 15-17 credits. The minimum full-time load is 12 credits and the normal maximum full-time load is 18 credits. Students must have a minimum grade point average of 3.0 and the approval of their faculty advisor and Counselor to carry an academic load of more than 18 credits. Students placed on academic warning or academic probation may be required to take less than the normal semester course load. Since the normal maximum academic load is 18 credits, no curriculum may officially list in any publication more than 18 credits per semester.

A minimum of 12 credits is required for full time enrollment status for financial aid, Veterans' Benefits, student loan deferments, or insurance enrollment status verification. Summer term is not required for most insurance status verifications and the regulations for Veterans' Benefits differ for summer and for academic sessions of less than 16 weeks. Veterans need to contact the VHCC Veterans' Office (276-739-2438) for enrollment status.

Academic Standing

1. Good Academic Standing - Students are considered to be "in good academic standing" if they maintain a semester minimum GPA of 2.00, are eligible to reenroll at the College, and are not on academic suspension or dismissal status.

2. Academic Warning - Any student who fails to attain a minimum GPA of 2.0 for any semester will receive an academic warning. Students on academic warning should be encouraged to consult with their counselor and take advantage of academic support services provided by the College.

3. Academic Probation - Students who fail to maintain a cumulative GPA of 1.5 shall be on academic probation until such a 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 Vice President of Instruction and Student Services. Students may be required to carry less than a normal course load the following semester and are required to consult with their counselor.

A student pursuing a degree program is cautioned that, although an average between 1.5 and 1.99 may not result in formal academic probation, a minimum of 2.0 in the curriculum is a prerequisite to the receipt of an associate degree, diploma, or a certificate.

Students shall be placed on probation only after they have attempted twelve semester credit hours.

4. 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 may submit an appeal in writing to the Dean of Enrollment Management and Student Services for reconsideration of the case. Suspended students may be reinstated at the conclusion of the suspension period and upon formal written petition to the Dean of Enrollment Management and Student Services. Students who have been reinstated from academic suspension must achieve a 2.0 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 counselor. Students who are readmitted after being on academic suspension are required to satisfactorily complete a study skills course, SDV 100. This course must be completed during the first semester after readmission.

5. Academic Dismissal - Students who do not attain at least 2.0 GPA for the semester of reinstatement following academic suspension shall be academically dismissed. Students who achieve at least a 2.0 GPA for the semester of their reinstatement following academic suspension must earn at least a 1.75 GPA in each subsequent semester. 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 normally is permanent. In exceptional circumstances, students may appeal. All appeals must be submitted thirty days prior to the first day of class for the semester in which the student plans to attend. 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 counselor. Students who are re-admitted after being on academic dismissal are required to satisfactorily complete a study skills course, SDV 100. This course must be completed during the first semester after readmission.

Adding a Course

Students may enroll in classes during the first week of class through on-line enrollment procedures. After the first week of class, students must have faculty permission to enroll in a class. This process requires the completion of an add/drop form available in Student Services or academic division offices. The student is responsible for completing the form, obtaining the approval and signatures of the faculty of record and counselor, and submitting the form to the Student Services Division. Students may not enroll in classes after the second week of class.

Auditing a Course

Students who audit courses will not be required to take exams and will not receive credit for the course. To audit a course, students must receive permission from the instructional dean or designee, register in the regular manner, and pay regular tuition. Audited courses will not count toward enrollment status for financial aid, Veterans' Benefits, student loan deferments, or insurance enrollment status verification. Students may change status from audit to credit within the 15% add/drop period. Changes from credit to audit must be made within the posted deadline to change from credit to audit.

Class Attendance

Regular class attendance is required. When an absence is necessary, students are responsible for notifying the instructor prior to or soon after the absence. Frequent unexplained absences may result in dismissal from the course. Students are responsible for completing work missed, regardless of the reason for the absence. Any instruction missed and not subsequently completed will necessarily affect the grade of the student regardless of the reason for the absence. Absences cause students to miss more than work assigned—they also miss instruction. Faculty are not obligated to teach one-on-one when students are habitually absent. Please reference course syllabus for information on policies specific to a course.

Confidentiality of Student Records

Virginia Highlands Community College complies with the requirements of the Family Education Rights and Privacy Act of 1974 regarding confidentiality and student's access to student records. The privacy and confidentiality of all student records shall be preserved. Official student academic records, supporting documents, and other records shall be maintained only by appropriate members of the College staff employed for that purpose. Transcripts of educational records contain only information about academic status and are maintained by the Registrar's Office in the Student Services Division. Access to this record is guaranteed to every student subject only to reasonable regulation as to time, place, and supervision.

The College may disclose personally identifiable information from a student's education records if such information has been designated as directory information. Directory information includes the student's name, address, telephone number, electronic mail address, major field of study, dates of attendance, number of credit hours enrolled, and degrees, honors, and awards received. Also, the College will routinely provide local police

departments with arrest and charge information which occurs on campus. Such directory information may be disclosed by the College to others without prior consent of the student unless the student should file a written objection with a college individual responsible for custody of such records no later than the time that the College has made such disclosure. In any case, the College may disclose directory information from the education records of an individual who is no longer in attendance at the College.

Grade reports will be made available to parents with the written permission of students. Confidential Release Forms for release or review of any official information from student records are available in the Student Services Division and must be signed.

Continuing Education Unit

The Continuing Education Unit is used for the measurement, recording, reporting, accumulation, transfer and recognition of participation in programs which seldom in the past have been recorded in any formal or systematic way. A unit can be awarded for programs that are wholly structured to provide skills and/or knowledge for occupational improvement or for programs that are specifically organized to provide help in the solution of problems confronting the State.

One CEU is defined as "ten contact hours of participation in an organized continuing education experience under responsible sponsorship, capable direction, and qualified instruction."

Individuals seeking information concerning the Continuing Education Unit should direct inquiries to Workforce Development and Continuing Education.

Credit Hours Policy

The credit for each course must be indicated after the title in the course description. One credit is equivalent to one collegiate semester-hour credit. Each semester hour of credit given for a course is based on the "academic hour," which is 50 minutes of formalized, structured instructional time and a minimum of two hours of outside course work in a particular course weekly for fifteen weeks. This is a total of 750 minutes of instruction. In addition to this instructional time, appropriate evaluation will be required. If this evaluation is a final examination, a minimum of one hour will be scheduled for each semester hour of credit generated by the course, not to exceed three academic hours (150 minutes). Credits may be assigned to the activities as follows:

- a. Lecture – One academic hour of lecture (including lecture, seminar, discussion, or other similar activities) and a minimum of two hours of outside course work per week, generally for 15 weeks, plus the evaluation or examination period, equals one collegiate semester-hour credit.
- b. Laboratory – Two to five academic hours, depending on the discipline, of laboratory, clinical training, supervised work experience, coordinated internship, or other similar activities per week, and a minimum of two hours of outside course work, generally for 15 weeks, plus the evaluation or examination period, equals one collegiate semester-hour credit.
- c. Distance Learning – In the case of distance learning course offerings or hybrid courses that employ a mix of traditional contact hours and learning activities with students and faculty separated by time and place, the College will ensure that that content, competency coverage, and student outcomes are equivalent to those of traditional sections of the same class.

Curriculum Changes

Students interested in changing their program of study should consult with a Counselor and their advisor. Approval from an Academic Counselor is required.

Disclaimer

Virginia Highlands Community College provides its website, handbooks, and any other printed materials or electronic media for your general guidance. The college does not guarantee that the information contained within them, including, but not limited to, the contents of any page that resides under the DNS registrations of vhcc.edu is up-to-date, complete and accurate, and individuals assume any risks associated with relying upon such information without checking other credible sources, such as student's academic advisor. In addition, a student's or prospective student's reliance upon information contained within these sources, or individual program catalogs or handbooks, when making academic decisions does constitute, and should not be construed as, a contract with the college. Further, the college reserves the right to make changes to any provision or requirement within these sources, as well as changes to any curriculum or program, whether during a student's enrollment or otherwise.

Links or references to other materials and websites provided in the above-referenced sources are also for information purposes only and do not constitute the college's endorsement of products or services referenced.

Final Examinations

Students will be expected to take final examinations at the regularly scheduled times. No exceptions will be made without the permission of the Vice President of Instruction and Student Services or another appropriate academic administrator and the instructor of the course. The semester examination schedule is available online.

Grade Appeal Procedures

Level I: Meeting for Resolution of Grade Appeal

For instances in which a student wishes to challenge a grade, the student should complete the **Grade Appeal Form** to be submitted to the faculty member, within ten (10) business days of receiving the grade, or ten (10) business days after the start of the new semester for final grades. The faculty member shall meet with the student and render a decision within ten (10) business days of receiving the **Grade Appeal Form**.

If a resolution is not reached between the student and faculty member, the student may request, in writing, the Grade Appeal Form be forwarded to the appropriate Academic Dean, within ten (10) business days of the initial meeting.

A student may request a forwarded appeal for one of the following reasons:

1. A procedural or substantive error occurred that significantly impacted the academic grade (e.g. substantiated bias, material deviation from established procedures); or
2. To consider new information unavailable during the original meeting that could substantially impact the original academic grade. A summary of this new

information and its potential impact must be included in the forwarded appeal.

Level II: Academic Dean Hearing

The Academic Dean will schedule a hearing to be conducted no later than ten (10) business days following the student request for the hearing. The Academic Dean will be responsible for notifying the student and the faculty member of the date, time, and place of the hearing. The Academic Dean shall make his/her decision and communicate its findings in writing to the student and the faculty member within five (5) business days after the hearing is completed.

After review, the Academic Dean may:

- Uphold the original decision
- Request a grade change (may not be lower than original grade)

If the student wishes to appeal the Dean's decision, they will move to Level III.

Level III: Vice President for Instruction and Student Services Appeal

An appeal must be submitted to the Vice President of Instruction and Student Services within 48 hours of the student receiving the Academic Dean's decision in writing, or by 9 a.m. on the next College business day if the deadline falls on a weekend or after 5 p.m. on a weekday. The Vice President of Instruction and Student Services may either:

- Uphold the Dean's decision;
- Request a grade change (may not be lower than original grade)

The decision of the Vice President of Instruction and Student Services on all hearing appeals is the final decision for the College. The decision of the Student Affairs Committee on all other appeals is the final decision for the College.

Time Limitation

Every effort will be made by all parties to expedite the disciplinary process. The time limitations specified for either party may be extended by written mutual agreement. If there is no written mutual agreement to extend the time limits set herein, the decision reached at the previous level shall be determined to be final.

Grade Point Average

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

1. **Semester Grade Point Average** - Semester GPA is determined by dividing the total number of grade points earned for the semester by the total number of credits attempted.
2. **Cumulative Grade Point Average** - Cumulative GPA, which includes all courses attempted, is computed each semester and is maintained on a cumulative basis as a record of the student's academic standing.
3. **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.

Grading – Developmental Courses

A grade of “S” (Satisfactory) shall be assigned for satisfactory completion of Developmental course which are courses listed as either MCR, MTT or ENF.

Students making satisfactory progress but not completing all of the instruction objectives in Developmental courses may receive an “R” (Re-enroll). The “I” and “W” grades may be used under certain conditions. “I” grades require documented mitigating circumstances.

Students not making satisfactory progress in Developmental courses (courses listed as MTE and ENF shall receive a “U” (Unsatisfactory), and counselors will recommend consultation with the instructor to determine the subsequent sequence of courses for the student. Students are normally limited to two enrollments in the same remedial course.

Grading System

1. Grades Assigned

Instructors are responsible for assigning a letter grade to reflect the quality of performance in each course. Quality points are assigned as follows:

Grade	Interpretation	Quality Points
A	Excellent	4
B	Good	3
C	Average	2
D	Poor	1
F	Failure	0
I	Incomplete	None
P	Pass	None
R	Reenroll	None
S	Satisfactory	None
U	Unsatisfactory	None
W	Withdrawal	None
X	Audit	None

The grades of A, B, C, D, P, and S are passing grades. Grades of F and U are failing grades. R and I are interim grades. Grades of W and X are final grades carrying no credit.

2. Grades Applicable to All Courses

I = Incomplete - No credit.

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 students must (1) have satisfactorily completed more than 60% of the course requirements and attendance 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 the 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 grade (B, C, D, F, P, R, or U) based upon course work already completed. Completion dates may not be set beyond the last day of 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. A grade of “F” will be assigned at the end of the subsequent semester unless the “I” grade is changed by the faculty member through the normal grade change processes. 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.

W = Withdrawal - No 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 student will receive a grade of “F” unless mitigating circumstances are documented in the student’s academic file.

X = Audit - No credit.

Students desiring to attend a course without taking the examination or receiving credit for the course may do so by registering to audit through the usual registration process and paying the normal tuition. Permission of the division dean or another appropriate academic administrator is required to audit a course.

Audited courses carry no credit and do not count as part of the student’s course load. Students desiring to change status in a course from audit to credit or from credit to audit must do so within the add/drop period for the course.

Students who desire to earn credit for a previously audited course must re-enroll in the course for credit and pay normal tuition to earn a grade other than “X.” Advance standing credit should not be awarded for a previously audited course.

3. Grades for Courses with Academic Credit/No Grade Point Credit

R = Re-Enroll – No grade point credit.

The “R” grade may be used as a grade option, in developmental and ESL courses only, to indicate satisfactory progress toward meeting course objectives. In order to complete course objectives, students receiving an “R” grade must re-enroll in the course and pay the specified tuition.

S = Satisfactory - No grade point credit; applies to developmental courses, noncredit courses, and specialized courses and seminars at the discretion of the College.

U = Unsatisfactory - No grade point credit; applies to developmental courses, noncredit courses, and specialized courses and seminars at the discretion of the College.

4. Academic Renewal Policy

Students, who return to the college after a separation of five (5) years, or more, may petition for academic renewal. The request must be in writing and submitted to the Student Services Division

If a student is determined to be eligible for academic renewal, D and F grades earned prior to reenrollment will be deleted from the cumulative and curriculum grade point average (G.P.A.), subject to the following conditions:

a. Prior to petitioning for academic renewal the student must demonstrate a renewed academic interest and effort by earning at least a 2.5 G.P.A. in the first twelve (12) semester hours completed after reenrollment.

b. All grades received at the College will be a part of the student's official transcript.

c. 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.

d. 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, and credits transferred from other colleges or universities.

e. The academic renewal policy may be used only once and cannot be revoked once processed.

Graduation

The State Board for Community Colleges will establish minimum standards and will authorize community colleges to issue appropriate associate degrees, diplomas, and certificates to individuals who satisfactorily complete course and program requirements.

1. Degree, Diploma and Certificate Awards

Virginia Highlands Community College offers the following degrees, diplomas, and certificates for students who successfully complete approved programs at the College:

Associate of Arts and Sciences Degree (AA&S) is awarded to students majoring in Business Administration, General Studies, Education, and Science who may plan to transfer to four-year colleges or universities after completing their community college programs.

Associate of Applied Science Degree (AAS) is awarded to students majoring in one of the occupational-technical

curricula who may plan to obtain full-time employment immediately upon graduation from the College. (While college transfer is not a primary goal in the AAS Degree programs, opportunities may be available for students to move from these programs into advanced degree programs.)

The Diploma is awarded to students who complete a non-degree occupational program that is two years in length.

The Certificate is awarded to students who complete a non-degree program that is one year in length.

Certificate in Career Studies is awarded to students who complete a non-degree occupational program that is equivalent to at least one semester of study.

2. Associate Degree Requirements

To be eligible for graduation with an associate degree from a community college, the student must:

- A. Have fulfilled all of the course and credit-hour requirements of the degree curriculum with a minimum of 25 percent (25%) of the credits acquired at the College awarding the degree;
- B. Have been certified for graduation by the appropriate college official;
- C. Have earned a grade point average of at least 2.0 in all studies attempted that are applicable toward graduation in his/her curriculum;
- D. Have filed an application for graduation with the Registrar in the Student Services Division which may be waived in the case of the General Education Certificate;
- E. Have resolved all financial obligations to the College and returned all library and college materials.

3. Diploma Requirements

To be eligible for graduation with a diploma from the College, a student must:

- A. Have fulfilled all of the course and credit-hour requirements of the diploma curriculum as specified in the College catalog with a minimum of 25 percent (25%) of the credits acquired at the college awarding the diploma;
- B. Have been certified for graduation by the appropriate college official;
- C. Have earned a grade point average of at least 2.0 in all studies attempted that are applicable toward graduation in their curricula
- D. Have filed an application for graduation with the Registrar in the Student Services Division;
- E. Have resolved all financial obligations to the College and returned all library and other college materials.

4. Certificate and Career Studies Certificate Requirements

To be eligible for graduation with a certificate or career studies certificate from the College, a student must:

- A. Have fulfilled all of the courses and credit-hour requirements of the certificate curriculum as specified in

the College catalog with a minimum of 25 percent (25%) of the credits acquired at the College awarding the certificate;

- B. Have been certified for graduation by the appropriate college official;
- C. Have earned a grade point average of at least 2.0 in all studies attempted that are applicable toward graduation in their curricula;
- D. Have filed an application for graduation with the Registrar in the Student Services Division;
- E. Have resolved all financial obligations to the College and returned all library and college materials.

If a student pursues a degree program but completes only the credits required for a certificate program, the division dean and the Vice President of Instruction and Student Services may recommend that a certificate be awarded.

5. Second Degree, Diploma, or Certificate

VHCC will award students more than one degree, diploma, certificate or career studies certificate in accordance with the state policy indicating that the awards must differ from one another by at least 25% of the credits. The College may grant credit for all previously completed applicable courses that are requirements of the additional certificate or degree. It may also, when appropriate, substitute alternate courses for those courses for which the students received credit in the previous certificate, diploma, or degree. Students who are seeking more than one credential should work with an academic counselor to plan accordingly.

6. Graduation Honors

A student who has fulfilled the requirements for graduation as outlined, is eligible for graduation honors. Honors recognitions are based upon the cumulative grade point average. Additionally, the honor recognitions for the graduation ceremony are based upon scholastic achievements at the end of the semester prior to graduation. Honor recognitions are recorded on the student’s program as follows:

<u>Grade Point Average</u>	<u>Honor</u>
3.2 to 3.49	Cum Laude (with honor)
3.5 to 3.79	Magna cum laude (with high honor)
3.8 to 4.00	Summa cum laude (with highest honor)

7. Graduation Commencement Ceremony

Virginia Highlands Community College has two formal graduation exercises in May for students completing curricula.

- A. Diplomas will be mailed to the graduate’s home mailing address in the Student Information System (SIS) 10-12 weeks after the end of their final semester. Students are responsible for ensuring the mailing address in (SIS)> Student Center is accurate.
- B. Students who need up to two (2) courses to meet graduation requirements may petition the Student Affairs Committee for permission to walk in the ceremony. They must submit a plan

to complete these courses by the end of summer semester. The written petition must be completed and submitted to the Vice President of Instruction & Student Services by March 30. The Student Affairs Committee will evaluate the plan for graduation and make a recommendation to the Vice President of Instruction & Student Services.

- C. Students who have applied for graduation and fail a Spring Semester class must complete the written petition and appear before an ad hoc committee to request permission to walk in the Spring ceremony.

Repeating a Course

If a student repeats a course, the last grade earned will count. Consequently, failure (F) in the last enrollment would nullify any other grade earned. A student usually is limited to two (2) enrollments in the same credit course, including audit (X), withdrawal (W) and failure (F). Exceptions to this policy must be approved by the Vice President of Instruction and Student Services. Students must petition for a third enrollment by following these procedures:

1. Complete the petition for third enrollment form (available in Division offices).
2. Obtain approval signature from the faculty member teaching the course.
3. Obtain approval signature from the Division Dean.
4. Obtain approval signature from the Vice President of Instruction and Student Services or designee.
5. Submit the approved petition to the Student Services Division.

This limitation does not apply to the courses in the Curriculum Guide identified as General Usage courses: 090-190-290; 095-195-295; 096-196-296; 097-197-297; 098-198-298; 099-199-299.

Waiver of Requirements

Students who have completed educational programs or obtained work or training experience may petition the appropriate Division Dean for a waiver for required courses in a particular curriculum. Through subsequent interviews and tests, students may qualify for waiver of curriculum admission requirements, course prerequisites, and courses in a curriculum. The recommendation of the course instructor or Coordinator of Counseling is required. Students may substitute equivalent or more sophisticated courses in the same field in any approved curriculum with the approval of the appropriate division dean and the Vice-President of Instruction and Student Services provided they can, by previous educational accomplishment or college administered examination, demonstrate the capability for success in the courses requested.

To be eligible for graduation with an associate degree, diploma or certificate from VHCC, the student must have fulfilled all of the course and credit-hour requirements of the degree curriculum with a minimum of 25 percent (25%) of the credits acquired at the College awarding the degree.

In accordance with Policy 5.6.5.2.e, the physical education requirements for the degree, diploma and certificate programs may be waived for veterans, and the college may grant up to 3 credits of physical education/health credits for basic military training to satisfy the physical education/health credit requirement of the veterans’ curricula.

Advanced Standing

Students may receive Advanced Standing and credit in courses if they can demonstrate that previous educational study, training, work experience, military service or college administered examination results entitle them to advancement in the courses for a particular curriculum. Approval of the faculty member, appropriate division dean and Vice President of Instruction and Student Services is required. Instructional division faculty will clearly describe and establish the validity of the evaluation process and criteria for awarding credit for prior experiential learning. Student records shall reflect Advanced Standing and applicable source. To be eligible for graduation with an associate degree, diploma or certificate from VHCC, the student must have fulfilled all of the course and credit-hour requirements of the degree curriculum with a minimum of 25 percent (25%) of the credits acquired at the College awarding the degree.

Advanced Standing awards credit for competency in subject matter based upon previous academic study or occupational experience. Credits waived will not be included in the computation of the student's cumulative grade point average. Consequently, the student's Grade Point Average (GPA) will be based only on courses actually completed at Virginia Highlands Community College.

- A. Advanced Standing may include college credit and advancement based upon individual college participation in the Advanced Placement Program of the College Entrance Examination Board. Virginia Highlands Community College participates in the College Board's Advanced Placement Program by awarding Advanced Standing to entering students who have made 3, 4, or 5 scores on Advanced Placement (A.P.) Tests. Students may receive credit in the academic disciplines listed below in which the A.P. Test is offered. Students planning to transfer are encouraged to check with the transfer institution to confirm acceptance of A.P. credits.

The faculty members of the appropriate academic divisions of the College have established policies for advanced placement in the disciplines listed below. Students should have official A.P. Score Reports sent directly to the Admissions Specialist in the summer following their senior year of high school. The report is then submitted to the Coordinator of Counseling for evaluation. Upon the Coordinator of Counseling's recommendation and approval from the appropriate division dean and Vice President of Instruction and Student Services, approvals are sent to the Registrar to be added to the academic record and for official student notification.

ADVANCED PLACEMENT TEST SCORE POLICIES

EXAMINATION	SCORE	COURSE	
		EXAMINATION	CREDITS
Biology	3, 4 or 5	BIO 101 and 102	8
Chemistry	3, 4 or 5	CHM 111 and 112	8
English: Language & Composition (11th grade)	3, 4 or 5	ENG 111	3

EXAMINATION	SCORE	COURSE	
		EXAMINATION	CREDITS
English: Literature and Composition (12th grade)	3	ENG 111	3
English: Literature and Composition (12th grade)	4 or 5	ENG 111 and 112	6
English: Language & Composition and Literature and Composition	3, 4 or 5 <u>on each</u>	ENG 111 and 112	6
History: United States	3, 4 or 5	HIS 121 and 122	6
Mathematics: Calculus AB	3, 4 or 5	MTH 263 and 264	10
Government and Politics: United States	3, 4 or 5	PLS 211 and 212 or PLS 135	6 3
Principles of Psychology	3, 4 or 5	PSY 200	3

- The College reserves the right to award advanced placement in other courses on an individual basis. Students who have AP credit scores 3 or higher in a given discipline may petition for credit by contacting the Coordinator of Counseling.
- B. Credit by Examination is a means of achieving Advanced Standing through satisfactorily demonstrating subject-matter competency on an examination administered by the College. Students may request advanced placement credit by examination if they believe they have mastered a specific body of knowledge. Instructional Faculty in the appropriate academic division assess the student's request, administer the appropriate test(s) and/or other assessments designed to measure the student's competency, and recommend or deny credit based on their findings. The faculty will forward the student's petition, copies of assessment measures, documented findings and their recommendation to the appropriate division dean for review. The petition is then forwarded to the Vice President of Instruction and Student Services for approval. The approved petition is sent to the Registrar to be added to the academic record and for official student notification.
- C. Credit by previous completion of college course work, Transfer Credit, is one means of achieving Advanced Standing through an administrative determination by the College that equivalent course coverage has been satisfactorily completed at an accredited post-secondary institution. Official transcripts and the [Transcript Evaluation Request Form](#) are submitted to the Admissions Specialist in the Student Services Division. A copy of the transcript is forwarded to the Coordinator of Counseling for evaluation. Upon the Coordinator of Counseling's recommendation and approval from

the appropriate division dean and Vice President of Instruction and Student Services, approvals are sent to the Registrar to be added to the academic record and for official student notification.

D. Credit for Equated Occupational Experience, including experiential learning and professional certifications is one means of achieving Advanced Standing through an administrative determination by the College that the occupational experience of an individual is at least equivalent to the course(s) and credits to be exempted. If through past experience the student feels that he/she knows the subject matter, the student may request that the instructional faculty in the discipline consider awarding such credit. If the faculty agree that the student has sufficient competency, the instructor may administer an examination to determine and document the extent of the student's competency. The student and faculty must document demonstrated skills and competencies and submit the request for advanced standing with the faculty's recommendation to the appropriate division dean for review. Students may submit portfolios as a means of documenting competency in a given field. The petition is then forwarded to the Vice-President of Instruction and Student Services for approval. The approved petition is sent to the Registrar to be added to the academic record and for official student notification.

E. Credit by Advanced Placement is one means of achieving Advanced Standing through the administration of the College Level Examination Program (CLEP). Tests of the College Level Examination Program (CLEP) are designed by The College Board to validate student learning and receive college credit. VHCC serves as an open testing center. General CLEP examinations are 90-minute, objective tests that measure achievement in the liberal arts, English, composition, humanities, mathematics, natural sciences, social sciences, and history. Subject examinations measure achievement in specific college level courses. Tests can be scheduled by contacting the Testing Center at VHCC. The CLEP registration guide can be obtained from the Testing Center or by writing to The College Board, Box 1822, Princeton, New Jersey 08541 or <http://www.collegeboard.com/clep>.

It is the responsibility of the student to ascertain the acceptability of specific tests for particular courses and in the event the student plans to transfer. Faculty have recommended credit be awarded at VHCC for CLEP as follows:

Subject	Type and Title of CLEP Exams	VHCC Courses	Equated VHCC Credits
Biology	Subject (General Biology)	BIO 101	4
		BIO 102	4
Chemistry	Subject (General Chemistry)	CHM 111	4
		CHM 112	4

Subject	Type and Title of CLEP Exams	VHCC Courses	Equated VHCC Credits
Economics	Subject (Prin. of Macro-economics) (Prin. of Micro-economics)	ECO 201	3
		ECO 202	3
English	General (English Composition) with essay	ENG 111	3
		Subject (American Literature)	ENG 241 ENG 242
Government	Subject (Amer. Government)	ENG 243 ENG 244	3 3
		PLS 135 PLS 211 PLS 212	3 3 3
History	Subject (Western Civilization)	HIS 101 HIS 102	3 3
		Subject (Pre-Calculus I & II)	MTH 161 MTH 162
Mathematics	(Calculus w/Elementary Functions)	MTH 263 MTH 264	3 3

Allow 2-3 weeks to receive your score report.

F. Credit may be granted as a means of achieving Advanced Standing through applicable Armed Service School Experiences, and for successful completion of correspondence courses and subject standardized tests (SST) of the Defense Activity for Non-Traditional Educational Support (DANTES), formerly the United States Armed Forces Institute (USAFI). Advanced Standing may also be awarded in accordance with the ACE Guide to the Evaluation of Educational Experiences in the Armed Services.

Tests of the Defense Activity for Non-Traditional Educational Support (DANTES) designed by The College Board serve to validate student learning and receive college credit. VHCC no longer serves as a DANTES testing center. DANTES examinations are objective tests measuring achievement in the areas of mathematics; specialties in the social sciences such as human/cultural geography, lifespan development psychology, counseling, anthropology and others; specialties in the business fields such as finance, accounting, business law, organizational behavior, and others; applied technology in the areas of electrical circuits, electronic devices, technical writing and refrigeration technology among others; foreign languages; humanities; and physical science. Students requiring information may contact the Educational Testing Service of The College Board, P. O. Box 6604, Princeton, New Jersey 08541-6604.

Official CLEP and DANTES score reports should be submitted to the Admissions Specialist in Student Services. The report is then submitted to the Coordinator of Counseling for evaluation. Upon the Coordinator of Counseling's recommendation and approval from the appropriate division dean and Vice President of

Instruction and Student Services, approvals are sent to the Registrar to be added to the academic record and for official student notification.

VHCC will accept the recommended cut off score for the CLEP and DAN TES examination determined by the American Council on Education based on the national 50th percentile. CLEP and DAN TES examinations are pass/fail examinations that recommend a P grade for the national 50th percentile cutoff; however, only credit is awarded for Advanced Standing and grades are not posted on the student's academic record.

- G. Currently licensed LPNs who have been accepted to the nursing program may be offered the option of entering a summer Bridge Program - providing they have completed all the general education courses required for the LPN to RN bridge program. Applicants must have graduated from an approved LPN program after May 15, 2016 OR provide documentation of 1 year (2000 hours) of full-time LPN work experience in direct patient care during the past three years with written verification from employer at the time of application. LPNs enrolled in the bridge program option will take nursing courses in the summer semester and then move directly into the second year of the program in the fall semester.
- H. The College will consider awarding credit for scores of 5, 6 or 7 on most higher-level International Baccalaureate (IB) examinations subject to the review and approval of the appropriate departments. No credit will be awarded for standard-level examinations. To receive credit for IB exams, students must have official results sent to the Admissions Specialist in Student Services. The report is then submitted to the Coordinator of Counseling for evaluation. Upon the Coordinator of Counseling's recommendation and approval from the appropriate division dean and Vice President of Instruction and Student Services, approvals are sent to the Registrar to be added to the academic record and for official student notification.

The specific decisions regarding awarding credits will be made on a case by case basis by the appropriate academic divisions. The transferability of these credits to other two and four year colleges varies widely. Each college sets its own policy on required scores and credits awarded. When developing academic plans, students need to consult with their proposed transfer institution.

Administration of Advanced Standing

The following criteria regulate Advanced Standing credit:

- A. Students must petition in writing for Advance Standing and must provide official documentation as requested by faculty.
- B. The determination of such credit must be made by qualified faculty at Virginia Highlands Community College and according to procedures and standards approved by the faculty to ensure that assessment procedures are appropriate for the credit awarded.
- C. If documentation and interviews are used in lieu of examinations; the faculty must demonstrate that these methods provide assurances of academic comparability to credit earned by traditional means.

- D. International applicants must provide official transcripts with English translation, if necessary. It is required that international transfer students have a professional evaluation service review their transcripts with a course by course evaluation.
- E. Prior experiential learning may be awarded for no more than 25% of the credit hours applied toward a degree. This policy specifically applies to Sections B, Credit by Examination and Section D, Credit for Equated Occupational Experience. By policy, residency requirements dictate that students must complete 25% of their course work at the institution granting an associate degree, diploma or certificate.
- F. Virginia Highlands Community College will award credit only:
 - 1. For documented learning which ties the prior experience to the theories and data of the relevant academic field,
 - 2. To matriculated students, credit will be posted on the student's academic transcript as Advanced Standing credit and upon request from another institution, VHCC will document how such learning was evaluated and the basis on which such credit was awarded.

Withdrawal from a Course

1. Student Initiated Withdrawal

A student may withdraw from a course without academic penalty during the first 60% of a session. The following policies apply:

- A. **Fifteen Percent of the Semester**
If a student withdraws from a class prior to the end of the add/drop period for the session, the student is removed from the class roll, no grade is awarded, and a refund is processed.
- B. **Sixty Percent of the Semester**
After the add/drop period, but prior to completion of 60% of a session, a student who withdraws from a course will be assigned a grade of "W".
- C. **After Sixty Percent (Late Withdrawal)**
Students who have not withdrawn from a course by the official withdrawal date will receive the earned grade for the course. Exceptions to this policy will be granted only with documented mitigating circumstances accepted by the faculty member teaching the course. A grade of withdrawal implies that the student was making satisfactory progress in the course at the time of withdrawal. In order for a late withdrawal to be approved, the Vice President of Instruction and Student Services must also agree in writing with the mitigating reasons. The student may appeal the decision by following the Student Policies Appeal Process.

2. Faculty Initiated Withdrawal

- A. **Dated Classes**
A dated class is any class that meets within a term but for only two - four days. All students absent the first day of a two- or four-day class will be administratively withdrawn on the next business day. The reinstatement policy does not apply to two- or four-day classes. All financial aid students should check with the Financial

Aid Office to determine the effect on their award.

B. Semester Long Classes

1. Fifteen Percent of the Semester

The instructor must withdraw students who have not attended class during the first 15 percent of the semester. The student is removed from the class roll and no grade is awarded. Only the instructor may approve an appeal for reinstatement into the class.

Students may petition the instructor for reinstatement within five (5) working days of the official processing date on the withdrawal form or SAILS email notification (Petition form is available in the division offices).

2. Sixty Percent of the Semester

The instructor may withdraw students who have stopped attending and/or have not completed sixty (60) percent of the course work on or before the official 60% withdrawal date. A grade of "W" is assigned for the course. Only the instructor may approve an appeal for reinstatement into the class.

A student's request for reinstatement must be made to the instructor within five (5) working days of the official processing date on the withdrawal form (Petition form is available in the division offices).

STUDENT POLICIES & SERVICES

Academic Computing and Instructional Technology

The purpose of academic computing and instructional technology is to provide instructional hardware, software, training, and classroom assistance.

The academic computing and instructional technology system is comprised of ten (10) instructional labs, one general learning lab, faculty and staff offices, and three video conferencing classrooms. In addition most regular classrooms are equipped with computers and LCD projectors that instructors use for delivering content. These computers, as well as all other computers on campus, are connected through a Local Area Network (LAN). The LAN also supports the automated library system providing remote access to local, state, and national comprehensive collections of materials, internet access, printing, and all online learning services.

Alumni Association

The Virginia Highlands Alumni Association actively seeks participation of current students, former students, graduates, and friends of Virginia Highlands Community College. The purpose of the Association is to advance the growth and development of Virginia Highlands Community College; promote the personal, educational and professional relationship between the College and its alumni; and engender a spirit of shared interest and active involvement in community between the College, its alumni and the region served by the College. For more information or to apply for membership in the association, contact the Institutional Advancement Office or go to the VHCC alumni website at www.vhcc.edu.

Audio-Visual Services

The purpose of Audio-Visual Services is to provide video production and audio reinforcement services in support of academic and community activities on the VHCC campus.

The Audio-Visual Services staff provides photography, video/audio production, and equipment operation services in support of the educational program. In addition, Audio-Visual staff supports both faculty/staff and external customers using any of VHCC's campus facilities.

Bookstore

Books and general school supplies may be purchased from the Bookstore located in OTC 117. Visit the online VHCC Bookstore for textbook information at www.bkstr.com/vhccstore

Campus Police

VHCC has its own police officers, who are sworn officers with full police authority, including that of arrest. The main function of the campus police is to ensure your rights, safety, and security while on campus. The Campus Police office is located in ISC 130A, 276-739-2448 and police officers carry cell phones (276-614-8282) to enhance communications.

A. Campus Safety

Students are expected to conduct themselves at all times in a manner conducive to the safety of all. Behavior considerate of the welfare of others will result in the maximum degree of safety on

campus. Anyone recognizing possible hazard, should notify campus police, a member of our buildings and grounds staff, or, if appropriate, [file a Safety or Hazard Report](#) online. All visitors must register with the receptionist before going to any part of the campus. For the safety of children, students and visitors should not leave them unattended in the buildings or on the campus for any reason. More information can be found on the [Campus Police website](#).

B. Code Adam

For the safety of children, students and visitors should not leave them unattended in the buildings or on the campus for any reason. The 2003 session of the Virginia General Assembly passed legislation mandating the implementation of a Code Adam policy and procedure in every building owned or leased in the Commonwealth of Virginia. The purpose of Code Adam is to prevent and/or find a lost or missing child or young adult. VHCC participates in project Code Adam.

C. Medical Emergencies

The Office of Campus Police located in ISC 130A is designated as the official emergency first aid station. All serious accidents and/or illnesses should be reported immediately to this office or the office of the Vice President of Financial and Administrative Services ADM 109A.

When emergency medical attention is needed, the Campus Police Officer or person in charge will call 911 to request emergency medical services and/or transportation to Johnston Memorial Hospital.

Students with specific health conditions or needs are encouraged to inform their counselor and instructors as applicable, to the extent such information may be helpful in case of accident or illness on campus.

As a commuting institution, the College does not provide organized health services or infirmary facilities. It is expected that routine health care will continue to be a responsibility of the student and/or the family.

D. Parking

Ample parking space is provided for students attending Virginia Highlands Community College. Designated parking areas are provided for faculty, students, and visitors to the campus.

E. Student Right-To-Know

Institutions are required to provide to their current and any prospective student information on institutional policies regarding security procedures and campus law enforcement, as well as a description of programs designed to inform students about crime prevention. Statistical data concerning occurrence on campus of certain criminal offenses which have been reported to campus security authorities or local police agencies must also be disclosed. This information may be obtained from campus police or the Student Services Center. The VHCC Crime Report and other important information are located on the Campus Police web site. The Campus Police makes available information on Campus Security Statistics, Emergency Response Plan, Emergency Procedures, and the Code of Student Rights, Responsibilities and Conduct.

The college normally provides police officers, custodial services and administrative support when classes are in session. After hours, maintenance and police officers are generally available on a round-the-clock basis and available by campus radio or cell phone.

The campus police department is responsible for enforcing all college security regulations and cooperating with appropriate local, state, and federal authorities. Uniformed campus police officers are duly sworn police officers and have full authority to act within the scope of their law enforcement responsibilities.

The VHCC Crime Awareness and Campus Security policies will be distributed to all current students and employees annually in orientation and in-service programs. These programs will be structured to encourage students and employees to be responsible for their own security and the security of others and will offer information concerning crime prevention. The programs are offered on a regular basis throughout the year.

The campus police office will conduct fire or weather related drills every semester. This will keep you informed where to go and what to do in the event of an emergency

Campus Clubs and Organizations Policies

VHCC and the State Board for Community Colleges recognizes and encourages honorary, scholastic, service organizations, and sports clubs that do not restrict membership based on race, color, gender, age, religion, disability, national origin, sexual orientation or other non-merit factors. The following regulations and procedures apply to all student activity programs:

- a. The entire program of student activities shall be under college supervision.
- b. There shall be a full-time faculty or staff sponsor for each student club or organization.
- c. All student activity funds shall be deposited with and expended through the college business office, subject to State Board policies, procedures, and regulations pertaining to such funds.
- d. Each college, with the approval of its local board, shall adopt its own regulations and procedures to implement the above policy.
- e. All student activity programs and recognized clubs and organizations must comply with the nondiscrimination policy, except as follows:

Any recognized religious or political student club or organization shall be authorized to limit certain activities only to members who are committed to furthering the mission of such organization. Such activities include ordering the club or organization's internal affairs, selecting the club or organization's leaders and members, defining the club or organization's doctrines, and resolving the organization's disputes.

Private clubs, private associations, social fraternities, and social sororities shall not be recognized by VHCC.

A. Guidelines

1. A group shall become a club or organization only after administrative review and formal recognition by the College President, Vice President of Instruction and Student Services, and the Student Affairs Committee. The process for establishing a club or organization is detailed in the Student Club/Organization Resource Manual, located on the VHCC website under Current Students>Student Life>Clubs and Organizations.

2. Clubs and organizations agree to abide by all policies and regulations of VHCC and the State Board for Community Colleges. When a club or organization is affiliated with an external body, such as a national society, a copy of that club or organization's constitution and bylaws shall be filed at the same time with the Student Services office.
3. Formal recognition of a club or organization is granted or denied by the College President. Formal recognition of a club or organization implies neither approval nor disapproval of the stated aims, objectives, and policies of the organization.
4. All changes and amendments to a club or organization's constitution or bylaws including changes and amendments adopted by an affiliated external body must be submitted to the College President, Vice President of Instruction and Student Services, and the Student Affairs Committee. All changes and amendments to the constitution or bylaws of a club or organization's extramural affiliate shall be submitted to the College President, Vice President of Instruction and Student Services, and the Student Affairs Committee within a reasonable time before their effective date. The president will approve or disapprove these changes.
5. A club or organization may use the College name as a whole, as a part of, or in conjunction with its name only with the express written permission of the College President.
6. College clubs and organizations may distribute or communicate information related to their purpose and aims through print and/or electronic media. All communication must be approved by the Student Services office.
7. A club or organization engaging in illegal activities, either on or off campus, may have sanctions imposed, including admonition, probation, restitution, or withdrawal of College recognition.
8. College clubs and organizations may use college facilities for regular business meetings, social programs, and programs open to the public unless, in the opinion of the College President, the planned program poses a serious threat to the continued well-being and safety of the College. College facilities are scheduled by the Office of Institutional Advancement. LRC 125

B. Meeting Times

Activity hour is designed primarily for the purpose of: (1) providing time for the faculty, staff, administration, and students to implement the College's plan of governance; (2) enabling the College to develop and implement an effective program of extracurricular activities; and (3) establishing a time for various forms of communication (counseling, advising, etc.) that need to take place between and among faculty, staff, and students. College clubs and organizations are encouraged to schedule meetings during this time.

C. Solicitation of Funds and Fundraising

Solicitation of funds for the benefit of recognized charitable or civic organizations on campus without the prior written approval of the Vice President of Institutional Advancement for each specific fund drive is prohibited. Anyone seeking approval for such an activity may receive further information on procedure through the Student Services office. Other types of solicitation of funds are specifically prohibited.

D. Selling on Campus

The privilege of selling merchandise of any variety on campus is limited to the bookstore, recognized college clubs or organizations, and those having valid contracts as concessionaires. The president or his/her designee shall have the authority to specify or limit the place and times of such sales. Student clubs and organizations desiring to sell merchandise on campus should make their request to the Student Services office.

Career Development

The Office of Career Development (ISC 101) is dedicated to equipping students with the tools, strategies, skills and knowledge to develop life-long career planning and job search skills. The Office of Career Development provides career counseling, presentations on career topics such as resume writing and job searching, career assessment tests, resume and cover letter reviews and an annual career fair in the spring.

The Office of Career Development provides information, resources, contacts, and services that will help students obtain employment and empower students to choose and attain personally rewarding careers. The Office of Career Development provides a listing of full- and part-time employment opportunities. Job notices are posted on the Virginia Highlands Community College Job Board (found outside the Career Development office and on the VHCC website). Students who seek part-time work are encouraged to do so with a view to their future career plans. The experience gained will assist them in finding permanent and rewarding positions.

The services of this office are available to all part-time and full-time students as well as alumni. The office is located in ISC 101.

Computer Ethics Guidelines

The VHCC community abides by the policy set forth in the VCCS Computer Ethics Guidelines which are posted in all computer labs and public access terminals. Therefore, ethical behavior must be exhibited when using VHCC computing resources.

Controlled Substances and Alcohol

This institution will abide by all applicable federal, state, and local laws pertaining to the illegal use and abuse of alcohol and controlled substances. The College has a comprehensive plan to provide educational programs and services to its students and staff to address substance abuse concerns.

A. Alcoholic Beverages at Social Functions

The State Board for Community Colleges has delegated to the VHCC College Board the responsibility for taking action on requests to serve alcohol at College social functions in view of local mores and in accordance with State regulations (Code of Virginia Sections 4.1-100 and 4.1-200, and Virginia Department of Alcoholic Beverage Control – Special Event Licensure).

Within the framework established by the State Alcoholic Beverage Control Board, VHCC, under special conditions, may be permitted to obtain a one day banquet license to serve alcohol at college sponsored functions provided that no person under 21 years of age is possessing, dispensing or drinking alcoholic beverages.

The VHCC administration and the College Board must

approve this type of activity before the Alcoholic Beverage Control Board is contacted.

Students who are 21 years of age or older may be permitted to consume alcoholic beverages at college-sponsored events that have previously been approved to serve alcohol.

B. Illegal Substance Policy

Students of VHCC shall not possess, sell, use, manufacture, give away or otherwise distribute illegal substances 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 VHCC rules. Further, students who violate this policy shall have committed a criminal offense, and VHCC shall notify the appropriate agency of the Commonwealth of Virginia, county or city government for investigation and, if warranted, prosecution.

C. Substance Abuse Program

VHCC has developed the following substance abuse program including drug and alcohol education and substance abuse counseling and referral services for students and employees.

- **Drug and Alcohol Education**

Student Orientation: In orientation, VHCC representatives or other selected groups inform students of the issues related to substance abuse. Students are provided with prevention and treatment information.

Substance Abuse Materials: Print and/or electronic materials are available to inform students and employees of substance abuse issues.

Substance Abuse Programs: VHCC offers seminars and workshops dealing with substance abuse. These activities are open to the general public.

- **Substance Abuse Counseling and Referral**

VHCC’s Student Services office maintains referral information on substance abuse treatment and rehabilitation services available in the community. Substance abuse inquiries and referrals are handled in a confidential manner.

Counseling Services

1. Academic Counseling

Counseling services are available to all currently enrolled and prospective students to assist in making important career, educational, and personal/social plans. As part of this assistance, appropriate tests, inventories, occupational and educational information, and information regarding employment are available. The Student Services office is located in ISC 128, (276) 739-2438. Counselors are available evening hours by appointment. Should a problem require assistance above and beyond that which the counselor feels adequate to handle, the student will be referred to another appropriate professional resource person, either on campus or in the larger community.

2. Professional Counseling

As a service to students, the College maintains a staff of professional academic counselors, advisors and faculty advisors. The counseling and advising programs function to assist students in making intelligent career decisions and in setting educational and personal goals. It is the goal of the College to draw on the counseling and advising staff to facilitate the College experience for students, especially first year students. As a part of this assistance, counselors and advisors have available appropriate tests, inventories, occupational and educational information, and information regarding financial assistance or employment.

All curricular students will begin their education at VHCC with a Coaching Session and meeting with an academic counselor. These sessions include an assessment of the student's goals and intentions, proper program placement, faculty advisor assignment, overview of college resources, interpretation of placement scores and enrollment in first semester courses.

3. Faculty Advising

A faculty member or other college representative will be designated as a student's advisor to provide educational guidance in the student's field of specialization. VHCC subscribes to the developmental advising model where faculty advisors assist students in clarifying personal and career goals, developing educational goals, and evaluating the progress toward established goals. The faculty advisor will utilize the resources of the College and refer students to the appropriate academic support services. The advising relationship is a decision making process in which the sharing of information between student and advisor promotes responsible and appropriate choices and facilitates a successful academic experience.

4. Recruitment and High School Articulation

The College cooperates with the high schools in the region to provide pre-college advising to those students planning to attend the community college. Students in area high schools are kept informed of the offerings of the College. In addition, college officials work closely with individuals and organizations in the community to determine the educational needs and interests of citizens in the region who are not currently attending high school. College representatives are available Monday through Friday from 8:00 a.m. until 5:00 p.m. to provide assistance and respond to requests from individuals seeking information about admission to the College.

Cultural Events - Arts Array

The Arts Array cultural program at VHCC is a comprehensive performance and lecture series provided for the students and staff of the College and made available to the general public. The series includes musical and drama performances and lectures on topics of academic and regional interest held at a variety of venues. A wide variety of musical performances are provided to help broaden the listening opportunities for student and community members. Classical, Jazz, Folk, and eclectic styles are provided in the concert series. In addition, weekly foreign and independent American films are shown at the Abingdon Cinemall.

Debt Collection

In the instance that a student does not pay for any expense incurred at VHCC in a timely manner and in accordance with college policy, an invoice is sent from the Business Office to each student stating that he/she will be given thirty (30) days after the postmark of the invoice to make payment.

All delinquent debts owed to Virginia Highlands Community College will be logged into Virginia's Department of Taxation Set-Off Debt Program. The debt then would be collected from tax refunds, motor vehicle refunds, and other payments made to the debtor by the Commonwealth of Virginia. In addition, delinquent accounts are listed with a third-party collection agency.

Distance Learning

Distance learning describes a formal instructional setting, where the student and instructor are not in the same place. In a distance learning course, the majority of instruction, student to instructor and student to student interaction is achieved through electronic communication. Today, most distance learning courses leverage the Internet as the primary channel for communicating using web pages, email, discussion boards and streaming video and audio. VHCC offers high quality distance learning courses to provide equal access and flexibility to both traditional and nontraditional students and to expand the number and type of course offerings available.

VHCC uses the latest innovative technologies to deliver distance learning offerings to our students and community. When students desire maximum scheduling flexibility, VHCC offers anywhere, anytime courses online using the VCCS provided Blackboard Learn® learning management system.

VHCC provides educational support services such as library services, computer software and support, tutoring and other student services to help ensure that distance learning students get all the assistance that they may require.

The Distance Learning staff provides instructional design services, distance learning related technology training, course quality assurance monitoring and support for faculty. The distance learning staff also provides distance learning related technical support and training for students. The staff administers VHCC's implementation of the Blackboard Learn® learning management system along with several other distance learning related applications.

In addition to the distance learning specific support activities listed above, the Director of Distance & Distributed Learning also provides oversight for VHCC's QEP Initiative: LearningPLUS+, Testing Center and Audio-Visual Services Department.

For more information concerning distance learning, visit our

website at www.vhcc.edu/distance or contact Ken Fairbanks at 276-739-2462.

Email Accounts

Electronic mail or “email” is an official method of communicating at the Virginia Community College System (VCCS). When communicating legally required information, personally identifiable information, grades, or any FERPA-protected information, faculty and staff must use college or VCCS email and VCCS student email or other VCCS authenticated method. All official email communication is distributed to VCCS email accounts only. Students are encouraged to regularly check their campus email accounts. For assistance contact the Help Desk at (276) 739-2500 or helpdesk@vhcc.edu.

Expressive Activity

A. Purpose

The purpose of this policy is to set out the policy and procedures that will govern all expressive activities on campus.

B. Policy

1. This policy applies to all buildings, grounds, and other spaces owned or controlled by a college. The term “expressive activity” includes:
 - Meetings and other group activities of students and student organizations;
 - Speeches, performances, demonstrations, rallies, vigils, and other events by students, student organizations, and outside groups invited by student organizations;
 - Distributions of literature, such as leafleting and pamphleting; and
 - Any other expression protected by the First Amendment to the U.S. Constitution.

This policy does not apply in instances when speakers, performers, groups, etc. are invited by the college or to external groups that arrange to use college space through a Facilities Use Agreement. [Guidelines for Use of Facilities by Community Groups](#)

2. College property is primarily dedicated to academic, student life and administrative functions. But it also represents the “marketplace of ideas,” and especially for students, many areas of campus represent a public forum for speech and other expressive activities. Colleges may place restrictions on expressive activities occurring indoors, but especially for students and student organizations, the outdoor areas of campus remain venues for free expression, including speeches, demonstrations, and the distribution of literature.
3. Indoors or outdoors, colleges shall not interfere with the rights of individuals and groups to the free expression of their views or impermissibly regulate their speech based on its content or viewpoint. Nevertheless, colleges may establish reasonable time, place, and manner restrictions on expressive activity. Such restrictions must be content-neutral, narrowly tailored to serve a significant governmental interest, and allow ample alternative channels for communication of the information.
4. No event or expressive activity shall be permitted to

violate or hinder the rights of others within the campus community or substantially disrupt normal college operations.

C. Responsibilities

The Vice President of Finance and Administration is responsible for implementing this policy. Direct inquiries about this policy should be directed to the Vice President of Finance and Administration at 276-739-2426 or cfields@vhcc.edu.

D. Procedures for Reserving Campus Facilities

1. If students, student organizations, or college employees desire to reserve campus facilities, they shall submit their requests to the Office of the Vice President of Instruction and Student Services at 276-739-2429. Requests must be made with at least 24 hours’ notice. (Note that this does not suggest that any facility requested must be made available within one day if the facility is already reserved. If the procedure at the college does not allow for one day’s notice, then state what notice is necessary to reserve facilities, i.e., two days’ notice.) More notice may be required to allow for sufficient logistical support and to ensure the safety and security of the campus.
2. If individuals or organizations who are not members of the college community (i.e., not students, student organizations, or college employees) desire to reserve campus facilities, they must be sponsored by a recognized student organization or the college to conduct expressive activities or events on campus. These individuals or organizations should contact the Vice President of Finance and Administration at 276-739-2426 or cfields@vhcc.edu if interested in being sponsored by the college.
3. The college will assess appropriate fees for equipment and facility use to users who are not members of the campus community. Security fees may be assessed to defray the actual costs of providing security when the size of the audience may pose a risk to safety. At no time shall the college assess a security fee based on the anticipated reaction to the expressive activity.
4. Facilities available for use are available only during normal operating hours or as otherwise posted.
5. Students, student organizations, and college employees may request to reserve campus facilities on a first-come, first-served basis. These requests may be denied for the following reasons only:
 - a. The requested venue is an indoor facility that the college has designated as not available for expressive activity under section F of this policy;
 - b. The requested venue is an indoor facility and the request conflicts with restrictions enacted pursuant to section D(4) of this policy;
 - c. The venue is already reserved for another event¹;

¹ In the event that multiple individuals or organizations submit conflicting reservation requests, the following order of precedence shall govern: (1) official college sponsored activities and events; (2) recognized student organization activities and

events; (3) student activities and events; and (4) all other activities and events.

- d. The activity will attract a crowd larger than the venue can safely contain;
- e. The activity will substantially disrupt another event being held at a neighboring venue²;
- f. The activity will substantially disrupt college operations (including classes);
- g. The activity is a clear and present threat to public safety, according to the college's police or security department;
- h. The activity will occur during college examination periods; or
- i. The activity is unlawful.

6. During an event, the student, student organization, or college employee requesting the reservation is responsible for preserving and maintaining the facility it reserved. If it causes any damage to those facilities, the person(s) or organization (and its officers, if applicable) shall assume responsibility.

7. When assessing a request to reserve campus facilities, the college will not consider the content or viewpoint of the expression or the possible reaction to that expression. The college will not impose restrictions on students, student organizations, or college employees due to the content or viewpoint of their expression or the possible reaction to that expression. In the event that other persons react negatively to a student's, student organization's, or college employee's expression, college officials (including college police or security) shall take all necessary steps to ensure public safety while allowing the expressive activity to continue.

E. Spontaneous Expressive Activity

1. For outdoor campus facilities and areas, students, student organizations, and their sponsored guests may freely engage in spontaneous expressive activities as long as they do not (a) block access to campus buildings, (b) obstruct vehicular or pedestrian traffic, (c) substantially disrupt previously scheduled campus events, (d) substantially disrupt college operations, (e) constitute unlawful activity; or (f) create a clear and present threat to public safety, according to the college's police or security department.
2. No indoor areas or facilities are available for spontaneous expressive activity.

F. Areas Not Available for Expressive Activity

The following indoor areas/facilities are not available for expressive activity:

- Library
- Administrative/business/faculty/staff offices
- Classrooms (during instructional hours)

G. Banners and Distribution of Commercial Materials

1. Banners used in expressing speech should comply with the provisions of this policy and cannot be used to block, obstruct or otherwise deny access to any pedestrian or to block or obstruct vehicular traffic.

2. Distribution of commercial advertising or the placement of commercial material is prohibited in the following areas:

- Administrative/business/faculty/staff offices
- Classrooms, computer rooms, laboratories, and other places where instruction takes place
- Libraries

Food Service

Food and beverages are available through over-the counter sales and vending machines located in the Collins' Student Center. This area is also for relaxation and enjoyment between classes, etc., and your cooperation is solicited in keeping this area neat and clean.

A television is provided for viewing pleasure. The college reserves the right to lower the volume of the television or to halt its use during scheduled activities which may be adversely affected by volume.

The Snack Bar concessions are provided by an independent vendor under contract with the College. The Vice President of Financial and Administrative Services is responsible for administering the contract.

Intramurals and Club Sports

VHCC supports the development of intramural programs or sports clubs on campus and/or off campus in community facilities. These programs will be designed to promote the physical well-being of the individual student and the development of recreational skills. Competition of intramural teams, including "all-star" teams, in civic leagues and competition between intramural or sports club teams of other institutions is authorized with the approval of the VHCC College Board providing that all direct expenses, including transportation, are paid from non-state funds.

Looking for a little friendly competition? Intramural sports encourages participation in a competitive, yet fun, sports program. You need not be a star athlete to participate! Intramural Sports can include Flag Football, Pool, Ultimate Frisbee, Softball, Basketball, Volleyball, etc. Play for the fun of it and experience for yourself why intramural sports is where the action is.

Intellectual Property Materials

The 1986 session of the General Assembly amended the Code of Virginia by adding Sections 23-4.3, 23-4.4, and 23-9.10:4 which require that each board of a state-supported institution of higher education adopt formal intellectual property policies consistent with guidelines developed by SCHEV. The guidelines adopted by the State Council in June 1987 stipulate that a State institution must: define the nature of the intellectual property it wants to own, if any; establish procedures by which the institution shall be notified by the creator of intellectual property within the purview of this policy; install procedures designed to protect and promote said property; when required, obtain prior authorization to transfer title to said properties from the Governor; and, submit an annual report including a quantitative listing of intellectual properties owned by the institution.

The VHCC Policy on Intellectual Property determines ownership rights and responsibilities regarding intellectual property

² The expression of competing viewpoints or multiple speakers in proximity to each other does not, without more, constitute a substantial disruption.

produced by a student and/or an employee of the VCCS. The policy is subject to applicable law and guidelines issued by the State Council for Higher Education in Virginia (SCHEV). The guidelines adopted by the State Council in June 1987 stipulate that a State institution must: define the nature of the intellectual property it wants to own, if any; establish procedures by which the institution shall be notified by the creator of intellectual property within the purview of this policy; install procedures designed to protect and promote said property; when required, obtain prior authorization to transfer title to said properties from the Governor; and, submit an annual report including a quantitative listing of intellectual properties owned by the institution.

VHCC's Intellectual Property (Copyright & Patent) Policies and Procedures can be found in the [Faculty & Staff Manual - 4.7.0](#).

The Learning Center

The Learning Center is made up of the Learning Lab and the Tutoring Center. The purpose of the Learning Center is to provide a computer equipped study center, a college-wide helpdesk and a tutoring center to help meet the educational needs of faculty, students, and the community at large.

The Learning Lab services include individualized enrichment studies, computer assisted instruction, study services for persons with disabilities and an open lab for general and specific course study. Audio visual equipment is also available in the Learning Lab. Other services are addressed on an individual basis.

The Tutoring Center offers tutoring for most core and developmental courses, and high-need subjects in an open-session format throughout the semester. Other subjects are offered based on student requests and tutor availability. Tutoring is available free of charge for VHCC students. The Tutoring Center is located in the Library in LRC 233.

Information on using the Learning Center can be obtained from Learning Center personnel. The operating hours of the Learning Center follow the same schedule as the VHCC Library.

Library

The purpose of the Library is to provide reference services and an organized, accessible, comprehensive collection of materials and electronic resources that support and enrich the curricula of the College in addition to providing basic reference sources for students, faculty, and community patrons.

Print Resources

The Virginia Highlands Community College Library houses over 33,677 volumes in the Library, including nearly 2,000 DVDs and other audio-visual formats. The Library subscribes to 64 print periodicals to support college programs and curricula, including Nursing and Allied Health, HVAC, Administration of Justice, Engineering, and others. The Library additionally subscribes to regional and local newspapers to provide local news sources.

Electronic Resources

Electronic access for students and faculty to research materials is available through the Virtual Library of Virginia (VIVA), Virginia Community College System (VCCS) provided resources, and selected VHCC library databases. These are accessible through the VHCC Library's homepage (www.vhcc.edu/library) as well as the MyVHCC portal. Through VIVA, VHCC students, faculty, and staff

have access to more than 160 databases supporting education, over 30,000 electronic journals and magazines, more than 2,000,000 additional full-text reports, pamphlets, and newspapers. Over 150,000 e-books, audiobooks are available for VHCC students, faculty, and staff. Additionally, thousands of college and education streaming videos are provided. These provide full text resources on a wide variety of topics, including those to specifically support VHCC programs and courses.

Services

The Library staff is available to assist students and respond to questions about research and other concerns. In-person, email, telephone, and chat services are provided for Library users to receive assistance. In addition, interlibrary loan is used to obtain books, audio-visual materials, and periodical articles that are not directly available through VHCC Library resources. The Library is open free of charge to any community member. Community use is encouraged and a Community User Library circulation card may be obtained by registering at the circulation desk.

Facilities

In addition to resources and services, the Library furnishes facilities and equipment for students, faculty, staff, and the public. Computers with Microsoft software and internet access, networked printers, a photocopier with fax capability, and other technologies are provided. The Library has study spaces for groups and individuals, with lounge areas to provide comfortable and welcoming spaces. To support teamwork, the Collaboration Station is a place and technology that allows users to share information from laptops, tablets, and other devices on a large screen.

Hours

The Library is open day and evening hours throughout the week to provide services to faculty and students. Weekend hours are offered when classes are in session. Specific schedules of the hours are available on the Library's home page (www.vhcc.edu/library), the Library voicemail (276-739-2542), and on the sign outside the Library entrance. When classes are not in session the hours for the Library are generally 8:00 a.m. until 5:00 p.m. Monday through Friday; exceptions to this schedule are noted on the sign and Library's web page.

Lending Guidelines

The VHCC library does not charge fines for overdue items. The library sends two notices of the overdue status for items checked out on a library account prior to sending a *Lost Item Bill*. The *Lost Item Bill* states the replacement cost of the overdue item(s). This amount is billed to the student's account, and the official records and transcripts of the student are blocked until the items are returned to the library or the student's account is paid in full.

The library posts a common due date for all library materials at the end of each term. All items circulated during the last two weeks of the term will be due by the posted date. Any items not returned by the posted due date will be processed with a *Lost Item Bill* and official records and transcripts will be blocked until the items are returned to the library or the student's account is paid in full.

Replacement costs for instructor materials placed on Reserve in the library will be set by the instructor. The library will send two overdue notices with any attached fines to the student prior to the *Lost Item Bill* stating the replacement cost of the overdue Reserve item(s) and the official records and transcripts of the student will

be blocked until the Reserve material is returned and fines are paid or the student's account is paid in full.

Lost and Found

VHCC maintains a Lost and Found station at the campus reception desk, which is located in the Administration Building (ADM). Any items found on campus can be turned into, or any lost items can be picked up at, this location.

After 90 days, VHCC is no longer responsible for any unclaimed items.

Open Computer Laboratories

Computer labs are located in rooms 222, 223, 224, 233, and 234 of the Learning Resource Center and room 155 of the Instruction and Student Center, and are available for general use when classes are not in session. Computers also are available for student use in the Library and Learning/Tutoring Center. Students must abide by the policy set forth in the VCCS Computer Ethics Guidelines which are posted in all computer labs and public access terminals. Therefore, ethical behavior must be exhibited when using VHCC computing resources.

Service Learning

Service Learning is an instructional process that integrates community service with academic learning. It permits students to perform service in the community (through various local agencies) in areas related to their course objectives.

Service-Learning is related to but does not include cooperative education, practicum or internship programs. If you are interested in a service-learning activity as part of a course you are enrolled in, please contact your instructor or the Career Development office.

Sexual Violence, Domestic Violence, Dating Violence, and Stalking

Notice of Nondiscrimination.

As a recipient of federal funds, Virginia Highlands Community College is required to comply with Title IX of the Higher Education Amendments of 1972, 20 U.S.C. § 1681 et seq. ("Title IX"), which prohibits discrimination on the basis of sex in educational programs or activities, admission and employment. Under certain circumstances, sexual misconduct, sexual harassment, and similar conduct constitute sexual discrimination prohibited by Title IX.

The most updated complete Title IX Policy as well as contact information for the VHCC Title IX Coordinator may be found at <http://www.vhcc.edu/titleix>

Below are community resources which can offer confidential assistance and support:

- 1) Crisis Center, Inc. Bristol, VA – 24/7 Hotline: 276-466-2312. Website- www.crisiscenterinc.org (Serves City of Bristol, VA and Washington Co., VA)
- 2) Abuse Alternatives- Bristol, TN/VA. Hotline- 423-764-2287 or 1-800-987-6499. TTY line: 423-652-9750. Website- www.abusealternativesinc.org (Serves City of Bristol, VA and Washington Co., VA)
- 3) Family Resource Center, Inc. Wytheville, VA. Hotline- 1-800-613-6145. Website- www.frcinc.org (Serves Smyth County)

Smoking Policy

Virginia Highlands Community College is subject to and enforces provisions of the "Virginia Indoor Clean Air Act."

Smoking is defined as any product or apparatus (including an electronic or e-cigarette) that emits smoke/vapor or is designed to simulate smoking cigarettes or any other tobacco product. Smoking is not allowed within 25 feet of a building entrance. The use of tobacco products is not permitted inside any Virginia Highlands Community College building or classrooms. The college will continue to offer prevention programs for all drugs to promote healthy living.

Snow Schedule

Emergency College Closings

In the event of inclement weather or another emergency, it may be necessary to operate on a delayed schedule or to close. The following schedule has been adopted for operating the College's daytime programs on a delayed schedule. Information about College delays/closings will be available through the local media, on the College's web site (www.vhcc.edu), and on the College's main telephone line at (276) 739-2400. Additionally, VHCC uses an early alert system to send text, email and voice alerts in the event of a schedule change. Faculty, staff and students can register for the early alert system online at www.vhcc.edu/alert. Each student ultimately must decide if it is possible and/or safe to travel to campus. The College will make every attempt to accommodate students who experience legitimate difficulties getting to campus or meeting the altered course schedule due to conflicts.

Monday & Wednesday	
Regular Schedule	Snow Schedule
8:00 - 9:15 am	10:00 - 11:00 am
9:30 - 10:45 am	11:05-12:05 pm
11:00 - 12:15 pm	12:10 - 1:10 pm
12:30 - 1:45 pm	1:15 - 2:15 pm
2:00 - 3:15 pm	2:20 - 3:20 pm
3:30 - 4:45 pm	3:40 - 4:45 pm
Tuesday & Thursday	
Regular Schedule	Snow Schedule
8:00 - 9:15 am	10:00 - 11:00 am
9:30 - 10:45 am	11:05-12:05 pm
11:00 - 12:15 pm	12:10 - 1:10 pm
12:30 - 1:45 pm	1:15 - 2:15 pm
Activity Period	2:15 - 3:00 pm
3:00 - 4:15 pm	3:00 - 4:15 pm
Friday	
Regular Schedule	Snow Schedule
8:00 - 10:45 am	10:00 - 12:05 pm
11:00 - 1:45 pm	12:10 - 2:15 pm
2:00 - 4:45 pm	2:20 - 4:25 pm

Evening classes meet at regularly schedule times.

The following media outlets are notified when the VHCC operating schedule is altered because of inclement weather or an emergency situation.

STATION	CITY
WXBQ (980 AM/96.9 FM)	BRISTOL
WZAP (690 AM)	BRISTOL
WMEV (94 FM)	MARION
WTFM (98.5 FM)	KINGSPORT
WJCW (910 AM)	JOHNSON CITY
WCYB-TV (Channel 5)	BRISTOL
WJHL-TV (Channel 11)	JOHNSON CITY
WKPT-TV(Channel 19)	KINGSPORT

Student Activities

Student activities are designed to supplement the instructional program by providing a variety of meaningful, educational, cultural, social and civic experiences for all members of the campus community. The student activities program may include the following activities: professional entertainment, musical programs, cookouts, dances, stage plays, movies, intramural athletics, Student Government Association (SGA), clubs and organizations and special interest groups as approved by the College. The College encourages student participation in extracurricular activities on campus.

A student activity fee is required of all students registered for credit courses. The fee subsidizes student programs, intramurals, and cultural events, including the Arts Array Series. VHCC students are admitted free to these events with a valid Student ID.

VHCC and the State Board for Community Colleges recognizes and encourages honorary, scholastic, service organizations, and sports clubs that do not restrict membership based on race, color, gender, age, religion, disability, national origin, sexual orientation or other non-merit factors, with the following exception:

Any recognized religious or political student organization shall be authorized to limit certain activities only to members who are committed to furthering the mission of such organization. Such activities include ordering the organization's internal affairs, selecting the organization's leaders and members, defining the organization's doctrines, and resolving the organization's disputes.

The following regulations and procedures apply to all student activity programs:

1. All student activities are under college supervision.
2. A full-time faculty or staff sponsor is designated for each student organization.
3. All student activity funds are deposited with and expended through the College Business Office, subject to State Board policies, procedures, and regulations pertaining to such funds.
4. VHCC, with the approval of its local board, has developed its own regulations and procedures regarding the student activity program.

Student Communications

A student, group, or organization of the college shall not distribute material on campus without prior approval of the Dean of Enrollment Management and Student Services or designee. The Dean will make a determination within one week of receipt of all such material. If approval is denied on the basis of the content of the material, direct appeal may be made to the Vice President of Instruction and Student Services who will render a decision within one week of receipt of the material. Editorial freedom of student communication entails a corollary obligation under the canons of responsible journalism and applicable regulations of the Federal Communications Commission. All student communications shall explicitly state an editorial policy to the effect that the opinions expressed are not necessarily those of the college or its student body.

Student Conduct

Each individual is considered a responsible adult, and it is assumed that students will maintain standards of conduct appropriate to membership in the college community, including all college related functions, both on and off campus. Emphasis is placed on standards of student conduct rather than on limits or restrictions. Guidelines and regulations governing student conduct are developed by representatives of the students, faculty, staff, and administration.

VHCC refrains from imposing a rigid code of discipline but reserves the right to take disciplinary action compatible with its own best interests when it is clearly necessary.

VHCC guarantees students the privilege of exercising his/her rights of citizenship under the Constitution of the United States without fear of prejudice. Special care is taken to assure due process and to spell out defined routes of appeal when students feel their rights have been violated.

VHCC is part of the Virginia Community College System and adheres to the standards set forth for the System. Student rights and responsibilities are designed to clarify what rights students may expect as a member of the student body and the responsibilities and obligations placed upon them.

VHCC provides an environment conducive to learning. VHCC establishes standards of conduct expected of all students. Any student who has allegedly violated the code of conduct is afforded due process. Should the student's conduct be judged to represent a danger to others, the College will immediately take appropriate action.

The President is responsible for the entire administration of the College, subject to the control of the Chancellor of the Virginia Community College System and the State Board for Community Colleges. It is his duty to administer the laws of the Commonwealth of Virginia which may be applicable on the campus, as well as the policies, rules, and regulations of the State Board for Community Colleges. Any authority or responsibility or duty granted to or imposed upon the President may be delegated to others on the College faculty or staff. The President or his/her designee may take whatever legal or institutional action is necessary under this authority.

Forms of Student Misconduct Subject to Disciplinary Action

- A. All forms of dishonesty, including cheating, plagiarism, knowingly furnishing false information to the College, and the forgery, alteration, or use of College documents or instruments of identification with the intent to defraud.
1. Plagiarism is the appropriation of passages, either word for word or in substance, from the writings of another and the incorporation of those passages as one's own in written work offered for credit. VHCC assumes that the written work offered for credit is the student's own unless proper credit is given the original author by the use of quotation marks and footnotes or other explanatory inserts.
 2. Collaboration with another person in the preparation or editing of notes, themes, reports, or other written work offered for credit is prohibited unless such collaboration has been specifically approved in advance by the instructor. Examples of collaboration include extensive use of another's ideas for preparing a creative assignment and receiving undue assistance in the preparation or editing of written materials.
 3. Giving or receiving, offering or soliciting information on any quiz, test, or examination is prohibited; this includes the following:
 - a) Copying from another student's document/work and/or submitting a purchased document/work.
 - b) Use of prepared materials during the examination
 - c) Collaboration with another student during the examination
 - d) Buying, selling, stealing, soliciting, or transmitting the contents of an examination
 - e) Substituting for another person during an examination or allowing such a substitution for one's self.
 - f) Bribery of any person to obtain examination information.
- B. Disruption or obstruction of teaching, research, administration, disciplinary proceedings, or other College activities.
- C. Physical and/or psychological abuse, or the threat of such abuse, of any person on College premises or at College activities.
- D. Participating in or inciting a riot or an unauthorized disorderly assembly.
- E. 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 person authorized by the President.
- F. Use of alcoholic beverages on campus, or at any college function, including the purchase, consumption, possession, or sale of such items except where specifically authorized within the regulations of the College.
- G. Possessing, using, selling, or distributing any type of illegal drugs on campus or at any college function.
- H. Gambling or holding an unauthorized raffle or lottery on campus or at any College function.
- I. Violating any College policy, including, but not limited to the [Violence Prevention Policy](#) and the [Weapons Regulation](#).
- J. Physically detaining or restraining any other person or removing a person, against their will, from any place where he/she 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 proper authorization.
- L. Violating any local, state, or federal laws.
- M. Violating any rule or regulation not contained within the official College publications but announced as administrative policy by the President or his/her designee.
- N. Willfully encouraging others to commit any of the acts which have been herein prohibited.

Sanctions

The following sanctions may be imposed:

- A. Admonition: An oral or written statement to a student that he/she is violating or have violated College rules and may be subject to more severe disciplinary action.
- B. Disciplinary Probation: Exclusion from participation in extracurricular activities of the College, including the holding of any student office, for a period of time not exceeding one academic year.
- C. Restitution: Required reimbursement for damage to or misappropriation of property. This may take the form of appropriate services or other compensation.
- D. Suspension: Exclusion from attending the College as a student for a definite period of time not to exceed one academic year.
- E. Dismissal: Termination of student status for an indefinite period. The conditions of readmission, if any, will be stated in the letter of dismissal.
- F. Interim Suspension: If, in the opinion of the Vice President of Instruction and Student Services the continued presence of any student on the campus may reasonably pose a threat to, or interfere with, the College's mission and/or the rights of others, a student may be suspended from the College pending the right to a hearing. The Vice President shall first make a reasonable effort to advise the student orally of the reasons for the suspension, and give the student opportunity for explanation or rebuttal.

The informal opportunity does not give the student the right to present witnesses, to cross examine adverse witnesses, or to require the presence of counsel. As soon as possible after the suspension, the student will have the right to call for a hearing. At such hearing, the affected student shall have all the rights described under section 6.7.3 of the VHCC Faculty/Staff Manual.

Conduct Resolution and Appeal Procedures

Level I: Meeting for Alleged Violations of Student Conduct Policies

Instances in which students are accused of violating conduct policies, students are referred to the Dean of Enrollment Management and Student Services or designee for formal resolution. The Dean of Enrollment Management and Student Services or designee shall then conduct a careful and thorough investigation of the alleged violation. In the event the investigation shows that there is no substantial information to support the allegations of wrongdoing, the Dean of Enrollment Management and Student Services or designee shall drop the charges.

If the investigation indicates sufficient information of a policy violation, the Dean of Enrollment Management and Student Services or designee shall set a date to meet with the student to discuss the charges. Within five (5) business days of the

conference with the student, the Dean of Enrollment Management Student Services or designee shall render a written decision to dismiss the charges or to impose one of the sanctions outlined above. The student may, within five (5) working days of receipt of the notice from the Dean of Enrollment Management and Student Services or designee, submit a written request for an appeal to the Student Affairs Committee (SAC) (Level II). An appeal to SAC may only be requested if the sanction results in suspension or dismissal from the College.

Level II: Student Affairs Committee Hearing

A student found responsible for a violation of College policy may request an appeal for one of the following reasons:

- Insufficient information that a policy was violated;
- A serious procedural error in resolving the case;
- Sanction inappropriate for the circumstances for the violation;

A written appeal to the Student Affairs Committee must be made within five (5) business days of receipt of the original written decision, or by 9 a.m. on the next College business day if the deadline falls on a weekend or after 5 p.m. on a weekday.

The Student Affairs Committee chairperson will schedule an appeal hearing to be conducted no later than ten (10) business days following the student request for appeal. The Student Affairs Committee chairperson will be responsible for notifying the student and the Dean of Enrollment Management and Student Services or designee of the date, time, and place of the hearing. The Student Affairs Committee shall make its decision by simple majority vote and communicate its findings in writing to the Dean of Enrollment Management and Student Services or designee and the student within five (5) business days after the hearing is completed.

After review, the Student Affairs Committee may:

- Affirm the finding(s) of the original hearing authority;
- Reverse finding(s) of the original hearing authority;
- Reduce the sanction(s) of the original hearing authority;

Level III: Vice President of Instruction and Student Services Appeal

A subsequent appeal, which is permitted only in cases where suspension or dismissal remains in effect after the SAC appeal hearing, must be submitted to the Vice President of Instruction and Student Services within 48 hours of the student receiving the previous appeal decision in writing, or by 9 a.m. on the next College business day if the deadline falls on a weekend or after 5 p.m. on a weekday. The Vice President of Instruction and Student Services may either:

- Affirm the finding(s) of the Student Affairs Committee;
- Reverse finding(s) of the Student Affairs Committee;
- Reduce the sanction(s) of the Student Affairs Committee;

The decision of the Vice President of Instruction and Student Services on all hearing appeals resulting in suspension or dismissal is the final decision for the College. The decision of the Student Affairs Committee on all other appeals is the final decision for the College.

Time Limitation/Disciplinary Proceedings

Every effort will be made by all parties to expedite the disciplinary process. The time limitations specified for either party may be extended by written mutual agreement. If there is no written

mutual agreement to extend the time limits set herein, the decision reached at the previous level shall be determined to be final.

Student Government Association

The Student Government Association (SGA) serves as a vital link of communication between students, administration, and faculty. It works to provide the leadership necessary for the responsibility of initiating new policies, services, and activities for the benefit of the students.

Student Government elections are held each fall and spring semesters. Executive officers (president, vice president, secretary, historian, publicity, and student activities) are elected each spring semester for the following academic year. Five Senators are elected each fall semester for that academic year to support the executive officers.

The Student Government extends a welcome to any student who is interested in running for SGA office, or becoming involved in student government.

Student Grievance Procedures

The purpose of the student grievance procedure is to provide an equitable and orderly process to resolve grievances at Virginia Highlands Community College. This grievance procedure includes, but is not limited to, concerns and disputes involving application of a policy or procedure; grades/academic record; and discrimination on the basis of race, sex, disability or sexual harassment. The Vice President of Instruction and Student Services is ultimately responsible for overseeing the execution of student grievance procedures.

Recognizing that grievances should be raised and settled promptly, a grievance shall be raised within twenty (20) calendar days following either the event giving rise to the grievance or within twenty (20) calendar days of the time when the student reasonably should have gained knowledge of its occurrence.

Step 1: A student who is experiencing dissatisfaction with any academic or administrative official, faculty member, or student concerning application of the provisions of the rules, policies, procedures, and regulations of the College must first attempt to resolve the issue informally by discussing the complaint with the person with whom the problem exists.

Step 2: If the issue cannot be resolved informally, the student may initiate a formal written grievance with the immediate supervisor of the person causing the grievance. The immediate supervisor may make a preliminary investigation to determine if the concerns can be resolved by mutual consent. If the issue cannot be resolved, the immediate supervisor will conduct an investigation and render a written decision within ten (10) calendar days.

Step 3: If the decision of the immediate supervisor is not satisfactory, the student may file a written appeal within ten (10) calendar days with the Vice President of Instruction and Student Services. The Vice President will render a written decision within ten (10) calendar days.

Step 4: If the decision of the Vice President is not satisfactory, the student may file a written request for appeal to the Student Affairs Committee within ten (10) calendar days.

Step 5: The Vice President of Instruction and Student Services will schedule a hearing of the Student Affairs Committee to occur not less than seven (7) calendar days nor more than fourteen (14) calendar days following the request for appeal.

Both parties shall have the right to have present, at their own expense, legal counsel or others who may advise.

A transcript of the hearing shall be prepared by the College; both parties shall have a right to a copy of the transcript of the proceedings at their own expense.

Written decisions will be given by the Student Affairs Committee no later than ten (10) calendar days following such hearings. Either party may appeal in writing the decision of the Student Affairs Committee to the President within ten (10) calendar days of the decision.

The President of the College will review the case and make the final decision. This procedure will apply to student grievances.

Student Complaints Under State Authorization Reciprocity Agreements (SARA)

Virginia Highlands Community College is a member of the National Council for State Authorization Reciprocity Agreements (SARA). A SARA is an agreement among member states, districts, and territories that establishes comparable national standards for interstate offering of postsecondary distance learning courses and programs. It is intended to make it easier for students to take distance learning courses in a state other than where they reside.

In order to ensure that students enrolled under the agreement have equal opportunity to submit student complaints, VHCC accepts oversight from the State Council of Higher Education for Virginia (SCHEV), the Commonwealth's coordinating body for higher education, in resolving complaints from students taking distance learning courses under the aegis of the State Authorization Reciprocity Agreements (SARA).

All student complaints will be addressed through the VHCC Student Grievance Procedure. Subsequently, if the complaint has not been resolved internally, the student may submit the Student Complaint form to SCHEV. More details on the formal SCHEV student complaints procedure may be found on the SCHEV agency page at www.schev.edu. Students may also seek resolution through the Office for Civil Rights of the United States Department of Education ("OCR"). A complaint filed with OCR must be filed within 180 calendar days of the alleged discrimination. Or, if the college complaint procedure was utilized by the student, the OCR complaint must be filed within 60 calendar days from the date of the final decision, unless the time for filing is extended by the OCR for good cause shown. Information on how to proceed may be accessed on [OCR's website](#).

Student Rights and Responsibilities

Application for admission to VHCC is a voluntary decision on the part of a prospective student to participate in the programs offered by the College. Upon admission, students are subject to policies, rules, and regulations of VHCC and the State Board for Community Colleges.

Students are guaranteed the privilege of exercising their rights without fear of prejudice. Such rights include the following:

1. Students are free to pursue their educational goals. VHCC provides appropriate opportunities for learning curricula offered by the College.
2. No disciplinary action is taken against any student without due process.
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 VHCC.

4. Academic evaluation of student performance is neither arbitrary nor capricious.
5. VHCC provides for personal safety, protection of property, and the continuity of the educational process.

As provided by the Family Educational Rights and Privacy Act (FERPA), colleges may disclose the following directory information without the student's prior consent: 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 number of credit hours enrolled. Students must provide official notification to the office of the college's registrar to prevent the disclosure of directory information.

Testing Center

The purpose of the testing center is to provide students and faculty with a secure, quiet and proctored facility for the administration of academic tests and other assessments. Faculty may work with testing center staff to administer both paper based tests and online tests that require a proctor. The testing center also offers specialized exams by appointment including: Virginia Placement Test (VPT), CLEP, ATI, PSB and others.

The Testing Center will also administer proctored exams from other colleges and assist students and faculty with establishing remote proctors outside of the college's service region.

The Testing Center is located within the college's library and features seating for 36 students, 21 computers, and multiple security cameras for electronic monitoring

For more information regarding VHCC's Testing Center and current hours of operation, visit our website at www.vhcc.edu/testing or call 276-739-2476.

TRIO Programs

TRIO programs are funded by the U.S. Department of Education.

Excel

The Excel program provides student support services designed to help students complete their program of study at VHCC.

The mission of the Excel program at VHCC is to increase participant retention and graduation rates, facilitate transfer to four-year colleges, and foster an institutional climate supportive of the success of eligible candidates. The Excel program provides tutoring; transfer, academic, and career counseling; and study skills, time management, and financial literacy instruction. The Excel program also provides accommodations for student with disabilities; cultural enrichment activities; academic monitoring; and other related services.

The Excel program is supported by funding from the U.S. Department of Education and is designed to address the individual needs of students who qualify for the program. To qualify for the program and participate in services, a student must have academic need and be from a family in which neither parent has received a bachelor's degree and/or have taxable income that meets U.S. Department of Education guidelines for low income. Some students can qualify based solely on a documented disability.

Upward Bound

Upward Bound is 100% funded by a U.S. Department of Education annual grant designed to assist students in completing their high school education and subsequently enrolling in, and succeeding in

college. In an effort to increase college readiness, participating high school students receive academic services such as tutoring, career counseling, achievement test waivers, and college visits. Students have the opportunity to participate in cultural events, and are also eligible to attend a six-week summer enrichment program on the VHCC campus. Students are exposed to a variety of college and career professionals, and senior Upward Bound students have an opportunity to job shadow in a field of their choice. Students who are accepted into the Upward Bound program can earn a stipend for each time they participate in an Upward Bound activity.

To qualify for Upward Bound, students must meet federal low-income guidelines or be from families in which neither parent has earned a bachelor's degree. All services are free to qualified students.

The Virginia Highlands Upward Bound program is authorized to serve students in specific schools in Washington County, Smyth County, and the city of Bristol, VA. The Upward Bound Office is located in the ISC Building, (276) 739-2506.

Transcripts

A written or online request is required before an official transcript of coursework completed at VHCC can be sent to another institution or business firm. Forms are available at the Registrar's Office in the Student Services Division or you may download a Transcript Request Form online. When a form is not available, students may request a transcript by sending a letter to the Student Services Office, P.O. Box 828, Abingdon, VA 24212-0828, or faxing it to (276) 739-2591. All letters must include a social security number and signature. There is no fee for transcripts.

Tutoring Center

Tutoring is available free of charge for VHCC students. The Tutoring Center offers tutoring for most core and developmental courses, and high-need subjects in an open-session format throughout the semester. Other subjects are offered based on student requests and tutor availability. In addition to on-site, face-to-face tutoring, the college offers online tutoring services for a variety of subjects through Smarthinking.

VHCC students can access tutoring by:

- Attending open sessions as needed in LRC 233. The schedule is posted online each semester;
- Requesting tutoring by appointment by contacting tutoring@vhcc.edu;
- Accessing online tutoring through the Smarthinking link in the VHCC Blackboard site;
- Requesting specific subject tutoring (not available during open session) by contacting tutoring@vhcc.edu.

The Tutoring Center is located in the Library in LRC 233.

Veterans Affairs

VHCC's Veterans Affairs Office coordinates all veterans' educational benefits from the U.S. Department of Veterans Affairs for the College.

The office is located on the Virginia Highlands Community College campus in ISC 100B. The VA certifying official can be reached by phone at (276)739-2460.

The VA requires all students to be enrolled in an official curriculum leading to a certificate or degree in order to receive

benefits. You must contact your VA certifying official each semester to complete the necessary forms to establish and maintain your eligibility for benefits.

The Department of Veterans Services State Approving Agency approves programs of education offered at Virginia Highlands Community College.

For more information regarding Veterans Affairs, please refer to the website at www.vhcc.edu/veterans.

Credits2Careers

The colleges in the Virginia Community College System are committed to evaluating your military experience and granting college credit. This credit, Credit for Prior Learning, can then be applied to meet the academic requirements of a degree or certificate program at that college - so you complete the degree or certificate you need for a future career - faster and at a lower cost.

Credits2Careers also helps you explore careers based on either your military background or your personal goals and interest and VCCS programs that prepare you for the career you choose.

For more information on Credits2Careers, please refer to the website at www.credits2careers.org.

VHCC Alert

VHCC students, parents, employees, and community members have the option of receiving up-to-the-minute alerts in the event of a campus emergency or a weather event that leads to a delay or cancellation of classes. You must register to receive these alerts via email, cell phone, smart phone, PDA, and other electronic devices and choose the types of alerts you would like to receive.

You may register at www.vhcc.edu/alert or. The service is offered free by VHCC, but wireless carriers may charge a fee for users who receive messages. In order to receive alerts regarding schedule changes/closings due to weather, you must register online. Please note that these alerts are often issued before 6:00 a.m. and on weekends.

VHCC Student Photo ID

The VHCC student photo ID serves as the official, standard source for student identification, as a library card, and as an admission ticket to all free student activities. The initial card is issued at no cost to all students who have enrolled. Cards are validated in the Library each academic year at no cost to students. Replacement cards may be purchased for \$5.00. The ID card is produced at the Circulation Desk in the VHCC Library.

VHCC Website

The VHCC Website provides up-to-date information and a variety of student resources, including exam schedules, course schedules, the College catalog, and information about campus activities.

Violence Prevention Policy

It is the policy of the Commonwealth of Virginia and Virginia Highlands Community College to promote a safe environment for its employees, students and visitors. VHCC is committed to working with employees and students to maintain a campus environment free from violence, threats of violence, harassment, intimidation, and other disruptive behavior; however, no workplace is immune.

Therefore, Virginia Highlands Community College (VHCC) prohibits threats and acts of violence on college property, within VHCC facilities, at any VHCC-sponsored event; while engaged in College 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;
- 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.
- oral or written statements, gestures, or expressions that communicate a direct or indirect threat of physical harm.
- violating the Weapons Regulation.

All reports of incidents will be taken seriously and will be dealt with appropriately. Such behavior can include Individuals who commit such acts may be removed from the premises and may be subject to disciplinary actions and/or criminal penalty.

Everyone's cooperation is needed to implement this policy effectively and maintain a safe campus and working environment. Do not ignore violent, threatening, harassing, intimidating or other disruptive behavior. If you observe or experience such behavior by anyone on campus, whether he or she is an employee, student or visitor, report it immediately to a supervisor or to Campus Police. Supervisors who receive such reports should seek advice from the Human Resource Office regarding investigating the incident and initiating appropriate action. PLEASE NOTE: Threats or assaults that require immediate attention by police should be reported immediately to Campus Police at office phone 276-739-2448 or cell phone 276-614-8282 or local police at 911.

Weapons Regulations

STATE BOARD FOR COMMUNITY COLLEGES

CHAPTER 10 - REGULATION OF WEAPONS

8VAC95-10-10. 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 chahka, 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.

8VAC95-10-20. Possession of weapons prohibited.

- A. 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.
- B. 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.

8VAC95-10-30. Exceptions to prohibition.

- A. The prohibition in 8VAC95-10-20 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.
- B. 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.

8VAC95-10-40. 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 chapter.

Work-based Learning Opportunities

VHCC provides opportunities for work-based learning, also known as experiential learning, through cooperative education, internships, and apprenticeship training. The programs are designed to supplement classroom learning with work experience.

Students enrolled in the cooperative education and internship programs must meet certain academic guidelines and typically work between 10 and 25 hours per week. Credits are awarded for time spent in workplace.

Apprenticeship training is an employer-sponsored training strategy for new hires or existing employees that leads to a certificate of completion and official journeyman status from the Commonwealth of Virginia.

Information about cooperative education and internships is available from the Co-op/Internship Program in LRC 211, (276) 739-2452. Workforce Development & Continuing Education, ADM 101, (276) 739-2430, can provide information about the apprenticeship program.

TUITION & FINANCIAL AID

Financial Aid

VHCC strives to assure that no one be denied the opportunity of attending the College for financial reasons. Toward this end, a variety of financial aid programs are available for qualified students. Students wishing to apply for financial aid may secure application forms and information from the Office of Financial Aid or by visiting the [VHCC Financial Aid Web Site](#). All applicants must file a Free Application for Federal Student Aid (FAFSA) to determine their eligibility for federal and state financial aid programs.

VHCC is required by federal and state regulations to review financial aid applicants who are selected for a process known as "Verification" by the U.S. Department of Education (DOE). VHCC will verify all financial aid applicants that complete a FAFSA and are selected by the Central Processor to be verified. VHCC also reserves the right to select applicants to be verified if information is found to be questionable.

Who is Eligible for Financial Aid?

To be eligible for most federal and state aid programs, students must:

1. Be a U.S. citizen or an eligible noncitizen; Have financial need;
2. Be admitted to, and pursuing, an eligible degree or certificate program;
3. Have a high school diploma or a General Education Development (GED) certificate;
4. Have a valid Social Security number;
5. Meet satisfactory academic progress;
6. Electronically sign a statement on the Free Application for Federal Student Aid (FAFSA) certifying that federal student aid will be used only for educational purposes;
7. Electronically sign a statement on the FAFSA certifying they are not in default on a federal student loan and do not owe money on a federal grant;
8. Register with the Selective Service if required; and
9. No financial aid is available for audited courses.

Students admitted as non-curricular or as pending acceptance into a curriculum, are ineligible for financial aid.

VCCS Satisfactory Academic Progress (SAP) Policy

Federal regulations require 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 also apply to all federal and state aid, state as well as scholarships. Progress is measured throughout the academic program by the student's cumulative grade point average (Qualitative) and by credits earned as a percentage of those attempted (Quantitative or Pace of Completion). In addition, students must complete their programs of study before attempting 150% of the credits required to complete the program. The College Financial Aid Office will evaluate satisfactory academic progress before aid is awarded and after grades are posted for every term, starting with their first term of enrollment. Some career studies certificate programs (i.e., shorter than 16 credits in total length) 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 already attempted 150% of the credits required for their programs 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.)
- D. **Financial Aid Suspension Status (SS)** – Students who do not meet the credit progression schedule and/or the cumulative grade point average standard, or who fail to meet the requirements of their pre-approved academic progress plan, will be placed in Suspension Status (SS). Students in Suspension Status (SS) are not eligible to receive financial aid.
- E. **Academic Suspension (AS)** – Academic requirements for avoiding warning status and staying in school differ from financial aid requirements for SAP. Academic status will be noted on registration records; financial aid status will be noted on financial aid pages in SIS. Any student suspended from the College for academic or behavioral reasons is automatically ineligible for financial aid.

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 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 the College (except audits, which must be entered as such by the class census date) are included. All credits accepted in transfer count as both attempted and successfully completed credits. This evaluation will be made prior to aid being awarded and after grades are posted at the end of each semester a student is enrolled at the College. Credits with satisfactory grades at the College are those for which a grade of A, B, C, D, S, or P is earned.

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 in this calculation. Attempted credits from all enrollment periods at the College plus all accepted transfer credits are counted; whether or not the student received financial aid for those terms is of no consequence.

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

Second Degree Students: Credits earned from a first degree or certificate must be counted if the student changes programs or attempts a second degree or certificate. Depending on the circumstances, an appeal might be warranted.

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 Quantitative or Pace of Completion Standards

- Withdrawals (W grades) 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 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 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 consideration, 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. ***In order to graduate, a minimum cumulative grade point average of 2.0 is required.***

Total Number of Credits Attempted	GPA Requirement
1-15	1.5
16-30	1.75
31+	2.0

AIMS Scholarship requires a minimum of 2.75 GPA to remain eligible.

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 “IV. Appeals” for additional information), a student in financial aid suspension should expect to continue classes at his or her own expense until SAP requirements are again met.

Students who fail to meet these SAP Standards and who choose to enroll without benefit of student financial aid may request a review of their academic records after any term in which they are enrolled without the receipt of financial aid to determine whether they have again met SAP standards. If the standards are met, eligibility is regained for subsequent terms of enrollment in the academic year. Students should consult their campus financial aid advisors for assistance in appealing any element of this policy or to determine how to regain eligibility for financial aid.

IV. APPEALS

Under certain circumstances, students who fail to meet SAP standards and lose eligibility for financial aid can appeal the financial aid suspension. Students must clearly state what caused the suspension and must also clearly indicate what has changed that will now allow the student to succeed. Appeals are encouraged if:

- Extenuating circumstances exist (i.e., student’s serious illness or accident; death, accident or serious illness in the immediate family; other mitigating circumstances), or
- The student has successfully completed one degree and is attempting another, or
- The student on suspension for other than Maximum Hours (150%), who has not yet met SAP requirements, has during suspension enrolled in and successfully completed at least 12 semester credits at the College with a minimum GPA of 2.0.

Students appealing a suspension must:

- Complete the College’s SAP Appeal Form in entirety,
- Attach documentation in support of the appeal, including an advisor statement showing remaining credits to graduation for 150% appeals, and
- Submit all items to the College Financial Aid Office.

Only complete appeal submissions, with documentation, will be evaluated by the Financial Aid Office. The decision is final. Depending on the circumstances, the student could be required to complete additional requirements (i.e., see a career counselor or another type of counselor, meet with an advisor to develop an academic progress plan for completion, limit enrollment, etc.) before an appeal is granted. The goal is to help the student get back on track for graduation. The reasonableness of the student’s ability for improvement to again meet SAP standards and complete the student’s program of study will be carefully considered. Appeals will be approved or denied. Students who have appeals approved will be in probationary status for the coming term. ***During probationary status, the student must meet the conditions of the appeal as communicated to him or her by the Financial Aid Office, or the student will return to suspension.*** If an academic progress plan has been pre-approved by financial aid, continuing to meet the requirements of that plan will put the student back into good standing.

Excluded Credits from Enrollment Status

Under the following conditions, certain course credits will not be included when calculating the current enrollment status used to determine eligibility for aid:

1. A course is registered as audit;
2. A developmental course if the student has attempted at least 30 semester hours of developmental course work.
3. Courses which do not apply toward graduation in the student's current curriculum.

Repayment of Title IV Aid when a Student Withdraws

If a student withdraws on or before 60% of the class has been completed, federal financial aid regulations established by the Higher Education Amendments of 1998 require that a portion of the total Title IV funds awarded to that student (Pell Grant, FSEOG, Coma, VGAP or Gear Up) must be returned. The determination is based on calendar days.

Withdrawal Date for a Student Receiving Title IV Aid

To determine the withdrawal date, the Office of Financial Aid will consider:

1. The date in the Student Account System that the student was withdrawn;
2. The date the student officially notified the Student Services Division of intent to withdraw;
4. The date that the College determines that a student stopped attending class because of an illness, accident, grievous personal loss, or other circumstances beyond the student's control.
5. The date the student last attended an academically-related activity such as an exam, a tutoring session, a computer-assisted instructional session, an academic counseling session, an academic advisement session, or study session assigned by the College.

The College must document a student's withdrawal date and maintain the documentation.

VHCC Disbursement Process

Disbursement of federal and state grant funds to student accounts will occur within 4 weeks following the last day to add a class for the semester. A notification of the disbursement date will be posted on the VHCC website. In approximately four (4) weeks after this date, students may expect to receive any refund check that they are entitled to after tuition, and approved charges are deducted. Students have the option to choose a reloadable Visa branded prepaid debit card or direct deposit (ACH) into their existing bank accounts.

Aid Programs Available

VHCC does not participate in the Direct Lending Loan Programs, however, the College does participate in the following grant and work programs:

PELL Grant – Students may apply for this federally-funded program by completing the Free Application for Federal Student Aid. This non-repayable grant is available to eligible students enrolled in an eligible certificate or degree program. Maximum award for the 2017-2018 award year will be \$5,920 for full-time students.

Federal Supplemental Educational Opportunity Grant – VHCC participates in this federal program which provides direct awards to a limited number of students. Grants may range from \$100 to \$4000 depending on the student's need, financial resources, and cost of attending the College.

Federal Work-Study Program – Numerous jobs on campus and off campus are available each year under the Federal Work-Study Program. Students who have financial need and enrolled in at least half time may qualify for participation in this program. Community service jobs are also available to students. Foreign students who are in this country on temporary visas are ineligible to participate in the work-study program. These funds cannot be applied to tuition or books.

Commonwealth Grant Program – The COMA Grant Program is a needs-based program of grants to students at VHCC who are permanent residents of Virginia enrolled in 6 or more credit hours. Funding is provided solely by the Commonwealth of Virginia. Individual awards vary dependent upon need and funding level. Awards range from \$200 up to the cost of tuition.

Virginia Guaranteed Assistance Program – The VGAP Grant Program is a needs-based program to students at VHCC who are permanent residents of Virginia, first time freshmen who graduated from a Virginia high school, have a 2.5 high school grade point average and enroll full time. Awards vary from \$400 to \$1,700 for tuition and fees. Renewal students must maintain a 2.0 and continuous full-time enrollment.

Part-Time Tuition Assistance Program (PTAP) – This VCCS funded grant provides tuition assistance only to students in an eligible degree or certificate program who enroll for at least 1 but less than 9 credits. Students must demonstrate need and be domiciled in Virginia.

AIMS Higher Scholarship - The AIMS Higher Scholarship encourages Virginia-resident students in Washington County, Smyth County, and the City of Bristol to complete a challenging curriculum and to pursue higher education. Students who graduate from a public high school in the VHCC service region, meet the requirements of their high school, and, meet the requirements of the scholarship are eligible to apply. The scholarship assists with the financial aid gaps for the graduates who receive financial aid that is less than the cost of their tuition and fees, or who fail to qualify for any financial aid (this is a gap program for tuition only ~ see funding guidelines below) Renewal students must maintain a 2.75 and continuous full-time enrollment of at least 12 credits.

Funding Guidelines

Students graduating from high school in :	AIMS Higher award will cover:
2017	up to 18 credit hours per semester
2018	up to 15 credit hours per semester
2019	up to 12 credit hours per semester
2020	up to 12 credit hours per semester
2021 & later	Program under development

These guidelines are based on the projected availability of funds and are subject to change.

Transfer Grants - The Transfer Grant makes a four-year college degree more affordable for Virginia Highlands Community College graduates who have financial need (determined by the FAFSA). It provides a \$1,000 grant for all eligible students, with an extra \$1,000 for students who pursue undergraduate work in engineering, math, nursing, teaching or science. For more information, contact the Student Services Division (276-739-2438).

Virginia Tobacco Settlement Program - This program assists eligible Virginia resident tobacco growers, quota holders, their immediate dependent family members and tobacco workers with up to the full cost of tuition to attend credit classes at VHCC, after all other financial aid and scholarships have been exhausted. Students receiving tobacco scholarships to attend credit classes must meet the requirement of 'satisfactory academic progress' as defined in the VHCC College catalog. All required documentation must be completed and received in the Financial Aid Office by June 1, 2017. This includes a completed FAFSA on file for the 2017-2018 year.

After this deadline, funding will not be guaranteed. If funds are available after the deadline, they will be awarded based upon the date the documentation is completed and received. More information may be obtained online at [Virginia Tobacco Commission Program](#). Virginia Tobacco Scholarships are subject to the availability of funds.

Alternative Student Loan Program - Alternative loans, also called private loans, are offered by lending institutions as an additional source of funds for higher education. These funds are not part of the federal government loan programs; VHCC does not participate in the Direct Loan Programs which include Stafford or Plus student loan programs.

Other Fees, Charges and Fines

In accordance with the rules and regulations of the State Board for Community Colleges, the College has established the following fees:

Student Testing Fees: Students shall not be charged for credit by exam.

Community Education/Public Service: Fees shall be established for Community Education and Community Service offerings equal to or greater than the direct cost of such offerings plus 30% for administrative overhead support.

Technology Fee: The State Board for Community Colleges approved the technology fee to \$8.50 per credit hour. The funds will be used to finance major improvements in information technology at Virginia's community colleges.

Other Fees and Charges: A Student Activity fee (\$2 per credit hour) is required for all students registered for credit classes. The fee subsidizes student activities and cultural events, including the Arts Array/Film Series. VHCC students receive free admission to all of these events.

General: Certain other fees, such as a fee for parking, may be authorized on an individual basis by special action of the VHCC Board.

Students who damage or lose school property (laboratory or shop equipment, supplies, library materials, etc.) are expected to pay for such losses. In addition students may be expected to pay fines for overdue library books, improper parking or other infractions as determined by the College administration with approval of the Virginia Community College Systems Offices.

Transcripts, certificates, diplomas or degrees will not be issued nor will a student be permitted to enroll until payments due to the business office, bookstore, or library have been paid in full.

Books and Materials: Students are expected to purchase all books, supplies, consumable materials that they will use in their classes and studies. The estimated cost of these items will usually average between \$200 - \$400 per semester for a full-time student. Disability Services can arrange for textbooks when merited.

Students may use excess financial aid in the College Bookstore to purchase only required books and supplies for registered courses deemed eligible for financial aid for the term. A course would be deemed ineligible for financial aid if any of the following circumstances exist:

1. The course does not apply to the student's academic program;
2. The course has already been repeated once after having been successfully completed. Successful completion is defined as any grade other than an F, U, R, or W;
3. The course is developmental and the student has already attempted 30 or more developmental credits; and/or

Items not approved for purchase with financial aid include but are not limited to apparel, food, cell phones, gift items, and gift/prepaid cards. VHCC allows the purchase of course related electronics (e.g., laptops, tablets, cameras, and scientific calculators) limited to one time purchase.

During the book purchase period, books and supplies purchased using financial aid cannot be returned or sold back to the College Bookstore for cash. Amounts for returned items must be credited back to the aid types that paid for the books and supplies on the student's account.

Student Field Trips: All students participating in field trips will be responsible for related expenses, including transportation charges. Student activity funds will cover costs associated with official student activity trips.

Purchase of Tools: All students pursuing a curriculum requiring the use of hand tools are required to furnish their tools. The College will furnish specialized tools that an employer normally would provide for a mechanic or technician.

Refunds

1. Students will be eligible for a refund for credit hours dropped by the last date to qualify for a refund date as noted in the Academic Calendar. To be eligible for a refund, a student must log into their My VHCC account and drop a course by the refund deadline date. It is a student's responsibility to be aware of all deadline dates listed in the Academic Calendar. After the drop period has passed, there shall be no refunds.
 - A. Refunds will be on a per-credit hour rate.
 - B. Refunds will not exceed tuition charges.
 - C. Funds will be restored to the appropriate account from which payment was made.
 - D. Refunds are subject to proper bookstore clearance for returned/re-saleable or paid items (if applicable).
2. In accordance to Virginia Community College system Policy, 4.3.2.2, exceptions to the refund policy are considered only with documented extenuating circumstances for the following reasons:
 - Administrative error
 - Extreme financial hardship
 - Major medical emergency of extraordinary circumstances
 - National emergency or mobilization declared by the President of the United States
 - Other highly unusual emergency or extenuating circumstances as determined by the College

Tuition refund requests after the drop date must be initiated no later than the end of the subsequent academic semester in which the refund is requested. Requests outside this deadline

will not be accepted. To request a refund after the drop period, an Add/Drop form must be submitted along with documentation to the Vice President of Instruction and Student Services.

3. For students receiving financial aid, after the add/drop period has passed, return of Title IV funds only will be processed on a percentage based upon the time of withdrawal and the amount of Title IV aid earned as of that date. When a recipient of Title IV grant (Pell or FSEOG) assistance withdraws from the College during a semester in which the recipient began attendance, the College must determine the amount of Title IV grant assistance that the student earned as of the student's withdrawal date in accordance with federal regulations. Students should contact the financial aid office regarding the financial consequences prior to withdrawing.

Refunds, Credits, Reinstatement as a Result of Military Service

Pursuant to 23-9.6:2 of the Code of Virginia, and corresponding SCHEV Guidelines, VHCC provides 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.

Students need to submit documentation of the official military orders to the Veterans Officer before the end of the semester of withdrawal or prolonged absence.

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 he/she requests to be withdrawn from VHCC after 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".

VHCC offers the option for such refunds to be retained and to be applicable to tuition and fees charged in the semester or term in which the student returns to study.

b. Textbooks

VHCC will process refunds for textbooks according to the contractual arrangement with Follett, VHCC Bookstore vendor.

c. Academic Credits and Grades

Students who are subject to conditions described in Code of Virginia, Section 23-9.6:2 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 5.7.1 in accordance with the SCHEV Guidelines on Tuition Relief, Refund, and Reinstatement.

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 VHCC 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 military service.

Scholarships

At the local level, scholarships and grants-in-aid are made available and awarded on the basis of the student's scholastic achievement, financial need, character or occupational goal. The VHCC Educational Foundation, Inc. offers a number of scholarships provided by interested citizens and civic organizations. All inquiries concerning financial aid and scholarship programs should be made to the Office of Financial Aid.

The VHCC Educational Foundation, Inc. is a separately incorporated non-profit corporation which secures voluntary support and manages, invests, and expends such funds solely for the benefit of Virginia Highlands Community College and its students. The Foundation Board of Directors volunteer their expertise and service on behalf of the College and community.

The Foundation assists Virginia Highlands Community College in a variety of ways: through the endowment and distribution of scholarship funds, the purchase of equipment and furnishings, and financial support of academic and community enrichment programs. For additional information, call (276) 739-2538.

Tuition

(Includes basic tuition and applicable surcharge)

1. **General.** The 2016-17 tuition rate listed below is effective Fall 2016. Current tuition rates will be published on the VHCC website at www.vhcc.edu/tuition. Subject to change by the State Board of Community College.

Tuition Rate Per Credit Hour

Virginia Resident	\$149.25
Out-of-State Resident	\$345.85
30-Mile Radius.....	\$169.25

Upon paying tuition, students are eligible to obtain a student identification card that can be used in the VHCC Library, Bookstore, and other campus facilities.

Unless otherwise notified, students must meet all published payment deadlines each semester. Students who do not meet the deadline will be removed from the official class roster. Only paid students will be allowed to attend class.

2. **Reduced Tuition Charges.** The Virginia General Assembly in 1984 enacted legislation clarifying the state code regarding eligibility for in-state tuition. To be eligible for the in-state tuition rates, students must live in Virginia for a minimum of one year before the first official day of classes. If a student's parent or parents are employed full-time in Virginia but live out of state, special provisions for determining eligibility for reduced tuition rates exist. Spouses and dependents of active duty military personnel are entitled to show eligibility for in-state tuition rates in

the same manner as nonmilitary personnel, except that the one year durational period may be waived for active duty military personnel (and their dependent children) who voluntarily elect Virginia as their permanent residence for domiciliary purposes.

The General Assembly enacted legislation in 1995 that authorized the State Board for Community Colleges to charge a contract tuition rate to students enrolled in Virginia community colleges who live within 30-miles of campus and are eligible for in-state tuition in a state contiguous to Virginia, provided that state has a reciprocal agreement for Virginia residents.

Please check with the Registrar in the Student Services Division for more specific guidelines concerning changes in the domicile law.

3. **Waived Tuition.** Section 23.7.1 of the Code of Virginia provides that free tuition shall be granted to children of persons killed, disabled, missing in action or prisoners in any armed conflict.

Eligibility of such children shall be determined by the Virginia Department of Veterans Services who shall certify in writing to the admitting institution that tuition should be waived in accordance with the provisions of Section 23-7.1. Applications are available in Student Services Division Office. The Virginia Military Survivors and Dependents Education Program also applies to spouses of veterans killed or permanently disabled due to combat.

4. **Waived Tuition.** In accordance with Section 23-7.4 of the Code of Virginia, all students are eligible for in-state tuition for courses taken through the College’s dual enrollment program.

5. **Senior Citizens Higher Education Act of 1974 as Amended, 1976, 1977, 1982 and 2015.**

- A. To be eligible for free tuition and fees for credit courses, part-time or full time, a person must meet the following criteria:
 1. Be 60 years of age or older.
 2. Be a legal resident of Virginia.
 3. Report a taxable income not exceeding \$23,850 for Federal Income Tax purposes for the year prior to enrollment.
 4. Be admitted to a course after all tuition-paying students have been accommodated.
 5. Be admitted to the College as a student.
- B. To be eligible for free tuition when auditing a credit course or taking a non-credit course, a person must meet the following criteria:
 1. Be 60 years of age or older.
 2. Be a legal resident of Virginia.
 3. Be admitted to a course after all tuition-paying students have been accommodated.
 4. Be admitted to the College as a student.

Estimated Full-Time Cost of Attendance 2017-18

In-State students

Books and Supplies	\$ 1,200
Personal/Miscellaneous	\$ 1,800
Room and Board	\$ 3,200
Transportation	\$ 3,400
Tuition and Fees	\$ 3,930
Total	\$13,530

Out of State students

Books and Supplies	\$1,200
Personal/Miscellaneous	\$1,800
Room and Board	\$3,200
Transportation	\$3,380
Tuition and Fees	\$10,110
Total	\$19,690

Veterans Benefits

Information concerning veterans’ educational programs and benefits may be obtained from the Veterans Officer located in the Student Services Division. Veterans must first apply for Veterans Education Benefits at www.benefits.va.gov/gibill then contact the VHCC Veterans Officer, located in the Student Services Office. It is the responsibility of students eligible for Veterans Administration benefits to secure the necessary forms from this office. Assistance in completing and submitting these forms is also provided. Veterans may request a military transcript at the Joint Services Transcript, jst.doded.mil (Army, Coast Guard, Marine Corps, and Navy)* which will be evaluated by the Student Services Center to receive transfer credits at Virginia Highlands Community College.

*Air Force personnel can request their military transcripts through the Air Force Transcript Portal at www.au.af.mil/ccaf.

If you have questions regarding your qualifications of veteran’s benefits or to explore your options for maximum use, please call the Veterans Administration toll-free number at 888-442-4551 (1-888-GIbill1) or visit the website www.benefits.va.gov/gibill.

All academic policies as included in this catalog apply equally to all students at Virginia Highlands. However, there are a few guidelines specifically applicable to the administration of veterans certified for benefits through the Veterans Administration.

1. Veterans Officer will consult with veterans who fail to attend classes regularly.
2. Veterans Officer will report to the Veterans Administration as soon as possible any change in the status of veterans, whether that be a change of curriculum, reduction or increase in course-load or withdrawal.
3. Veterans who fail to maintain good academic standing must be counseled by a Counselor at the College prior to veterans benefits being reinstated.

4. Virginia Highlands Community College grading policies will be used to determine whether veterans are maintaining satisfactory progress. According to College and the Veterans Administration policies, students must make satisfactory academic progress. If suspended or dismissed, students must appeal to the Dean of Student Services and meet with the Admissions Committee. Students who have been reinstated must achieve a 2.0 GPA for the semester of their reinstatement. At the conclusion of this semester, enrollment for successful students receiving veterans' educational benefits will be certified.
5. The physical education requirements for the degree, diploma and certificate programs may be waived for veterans (please see Veterans Officer), and the College may substitute other credits to satisfy the total credit requirements of the veteran's curriculum.

Additional information and forms are available on the VHCC website at www.vhcc.edu/veterans.

Student Veterans Association

This organization is to serve as a collective voice for all veterans and military enrolled at VHCC, to be a source of open communication that will connect veterans with each other in a way that promotes camaraderie, and to provide support for student veterans and their families as they pursue their post military career through education. Membership is open to all interested students, faculty and staff. Check with the Veterans Officer for more details.

Veterans/Military Parking

VHCC has reserved "Veterans Parking." Contact the Veterans Officer located in the Student Services Division in room ISC 128-C for a parking pass.

Tuition Relief for Active Duty Personnel

As required by Virginia Code Section 23-9.6.2, VHCC will provide tuition relief, refund, and reinstatement of students whose active military status during a time of national emergency has required their sudden withdrawal or prolonged absence from their enrollment

EXPLANATION OF DEGREES AND COURSES

College Transfer Degrees

The college transfer programs include first- and second-year courses in arts and sciences and pre-professional courses that transfer to four-year colleges and universities. A number of four-year degree programs are available on the campus of VHCC through the Southwest Virginia Higher Education Center (SVHEC) which was established in 1991 to provide expanded educational opportunities for the citizens of the region. For additional information contact the SVHEC at 276-619-4300 or www.swcenter.edu.

Associate of Arts and Sciences Degree programs are designed with two primary goals in mind: (1) to offer the student a widely accepted program of general preparation for upper-division work in his/her chosen professional field, stressing a balance of required courses common to most baccalaureate degree programs; and (2) to offer maximum flexibility so that the student may select specific courses that may be required at the college or university to which transfer is contemplated.

Guaranteed Admissions Agreement

Through system-wide negotiated agreements, students who graduate from Virginia Highlands Community College with an associate's degree and a minimum grade point average are guaranteed admission to 23 of the Commonwealth's four-year colleges and universities. For more information, visit the online tool located at <http://myfuture.vccs.edu/transfer/> or contact Student Services.

Articulation Agreements

VHCC has articulation agreements with a number of colleges and universities. For more information contact Student Services.

Minimum High School Requirements or Equivalents for College Transfer Programs

- 4 units of English
- 3 units of college preparatory mathematics
- 1 unit of laboratory science
- 1 unit of social studies

College Transfer Programs

Associate of Arts & Sciences (AA&S)

- Business Administration
- Business Administration - Specialization in Business Information Technology
- Education
- Education - Specialization in Art
- Education - Specialization in Teacher Preparation
- Education - Specialization in Theatre Arts
- General Studies
- Science
- Science - Specialization in Engineering
- Science - Specialization in Horticulture

Certificate (C)

- General Education

Transfer Tool

The State Council of Higher Education for Virginia has implemented an online tool designed to clearly identify which courses will transfer from Virginia community colleges to four-year institutions. The SCHEV Transfer Tool is available at <http://www.schev.edu> (click on SCHEV Transfer Tool).

Cooperative Education

Co-op/Internship students are employed part-time at work experience sites in positions related to their future career goals. The typical work week is 10-25 hours, depending upon the number of credits to be earned. It is preferred that students take advantage of the Internship Program (without pay) while working at nonprofit entities. Experiential learning combined with classroom theory enhances the development and professional preparation of the Co-op/Internship student.

Developmental Courses

Developmental courses do not fulfill degree requirements. They are designed to help students overcome academic deficiencies and build the foundation needed to succeed in college-level courses.

The developmental courses at VHCC provide supplementary and compensatory learning experiences that are directly related to curricular or subject areas. These courses assist individuals in developing both basic study skills and subject knowledge necessary to succeed in their college programs.

Increasing numbers of students are continuing, extending, or updating their educational experience in areas of occupational-technical skills and in traditional academic areas. With this growth, VHCC assumes the responsibility to support and enhance each student's opportunity and potential for success through the developmental studies courses and through a continued commitment to serve the educational needs of the service region.

General Education Requirements

The programs in general education at VHCC emphasize broad learning that goes beyond job training and skill development. Each degree and certificate program of the College contains prescribed general education courses, including academic courses in the humanities/fine arts, social/behavioral sciences, natural sciences, mathematics, wellness and communication skills. General education is that portion of the collegiate experience that addresses the knowledge, skills, attitudes, and values characteristic of educated persons. It is unbounded by disciplines and honors the connections among bodies of knowledge.

Virginia Highlands Community College is committed to offering its students programs that encompass the common knowledge, skills, and attitudes required by each individual to be more effective as a person, a worker, a consumer, and a citizen. Through a combination of general education courses, specialized courses in the major field, and student development courses, graduates are provided with a collegiate experience that supports the development of the following general education goals.

Student Learning Outcomes for Each of the General Education Goal Areas

VHCC 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

- 1.1 understand and interpret complex materials;
- 1.2 assimilate, organize, develop, and present an idea formally and informally;
- 1.3 use standard English;
- 1.4 use appropriate verbal and non-verbal responses in interpersonal relations and group discussions;
- 1.5 use listening skills; and
- 1.6 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

- 2.1 discriminate among degrees of credibility, accuracy, and reliability of inferences drawn from given data;
- 2.2 recognize parallels, assumptions, or presuppositions in any given source of information;
- 2.3 evaluate the strengths and relevance of arguments on a particular question or issue;
- 2.4 weigh evidence and decide if generalizations or conclusions based on the given data are warranted;
- 2.5 determine whether certain conclusions or consequences are supported by the information provided; and
- 2.6 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

- 3.1 assess the impact that social institutions have on individuals and culture—past, present, and future;
- 3.2 describe their own as well as others’ personal ethical systems and values within social institutions; and
- 3.3 recognize the impact that arts and humanities have upon individuals and cultures.
- 3.4 recognize the role of language in social and cultural contexts.
- 3.5 recognize the interdependence of distinctive world-wide 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

- 4.1 determine the nature and extent of the information needed;
- 4.2 access needed information effectively and efficiently;
- 4.3 evaluate information and its sources critically and

incorporate selected information into his or her knowledge base;

- 4.4 use information effectively, individually or as a member of a group, to accomplish a specific purpose; and
- 4.5 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 and/or emotional well-being.

Degree graduates will demonstrate the ability to

- 5.1 develop and/or refine personal wellness goals; and
- 5.2 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

- 6.1 use logical and mathematical reasoning within the context of various disciplines;
- 6.2 interpret and use mathematical formulas;
- 6.3 interpret mathematical models such as graphs, tables and schematics and draw inferences from them;
- 6.4 use graphical, symbolic, and numerical methods to analyze, organize, and interpret data;
- 6.5 estimate and consider answers to mathematical problems in order to determine reasonableness; and
- 6.6 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

- 7.1 generate an empirically evidenced and logical argument;
- 7.2 distinguish a scientific argument from a non-scientific argument;
- 7.3 reason by deduction, induction and analogy;
- 7.4 distinguish between causal and correlational relationships; and
- 7.5 recognize methods of inquiry that lead to scientific knowledge.

Table 5-1 VCCS Degree Requirements

Area

GENERAL EDUCATION

General education is that portion of the collegiate experience that addresses the knowledge, skills, attitudes, and values characteristic of educated persons. It is unbounded by disciplines and honors the connections among bodies of knowledge. The associate degree programs within the VCCS support a collegiate experience that focuses on seven goal areas: communication; critical thinking; cultural and social understanding; information literacy; personal development; quantitative reasoning; scientific reasoning. The general education goal areas outlined below are to be introduced in the foundational courses and enhanced in program and elective courses. (NOTE: Some of the categories include two goal areas when a single course may provide foundations in both goal areas.)

I. Foundations In Communication:

Courses designed to enable students to interact with others using all forms of communication, resulting in understanding and being understood.

II. Foundations In Critical Thinking And Information Literacy:

Courses designed to enable students to evaluate evidence carefully and apply reasoning to decide what to believe and how to act, and to recognize when information is needed and have the ability to locate, evaluate, and use it effectively.

III. Foundations In Cultural And Social Understanding:

Courses designed to enable students to have an awareness, understanding, and appreciation of the interconnectedness of the social and cultural dimensions within and across local, regional, state, national, and global communities.

IV. Foundations In Personal Development:

Courses designed to enable students to strive for physical well-being and emotional maturity.

V. Foundations In Quantitative And Scientific Reasoning:

Courses designed to enable students to possess the skills and knowledge necessary to apply the use of logic, numbers, and mathematics to deal effectively with common problems and issues, and to adhere to a self-correcting system of inquiry (the scientific method) and rely on empirical evidence to describe, understand, predict, and control natural phenomena.

PROGRAM REQUIREMENTS

- Major Field Core
- Related/Specialization Courses
- Electives

TOTALS

Distribution

Minimum 15 credits

(Students must take at least one course in each of the five areas listed, to total at least 15 credits.)

Minimum 15 credits*
Maximum 15 credits
0-15 credits

AA/AS/AA&S:
60-63 credits**

AAA/AAS:
65-69 credits***

*Language in Section 5.1.0.0.1 of the VCCS Policy Manual states 25% of the courses in the degree program (15-18 credits) must be common across majors within a degree. The shared courses must be major or related/specialization courses.

**Credit range for engineering programs is 60-72 semester hour credits.

***Credit range for AAA/AAS programs is 65-69, including nursing. For other programs in the Health Technologies, the range is 65-72 semester hour credits

General Education Courses

General Education Courses for Associate of Applied Science Degrees, Diplomas, and Certificates

English Composition

ENG 111-112 College Composition I-II
ENG 115 Technical Writing

Humanities: Study of human culture

*ART 201-202 History of Art I-II
CST 130 Introduction to Theater
CST 151-152 Film Appreciation I-II
ENG 241-242 Survey of American Literature I-II
ENG 243-244 Survey of English Literature I-II
*MUS 121-122 Music Appreciation I-II
*PHI 100 Introduction to Philosophy
PHI 260 Studies in Eastern Thinking
REL 200 Old Testament – Fall Semesters only
REL 210 New Testament – Spring Semesters only
*REL 230 Religions of the World
Foreign Language – any 200 level course**
*Indicates course specified for pathways elective options

***100 level foreign language courses may not be used to satisfy the humanities graduation requirement in programs where only one humanities course is required. In programs with two humanities courses, only one 100 level foreign language course may be used to satisfy the humanities graduation requirement.*

Mathematics

MTH 111 Basic Technical Mathematics
MTH 132 Business Mathematics
MTH 154 Quantitative Reasoning
MTH 155 Statistical Reasoning
MTH 161-162 Precalculus I-II
MTH 245-246 Statistics I-II
MTH 261-262 Applied Calculus I-II
Note: Placement is required for all mathematics courses.

Natural Science

BIO 101-102 Biology I-II
BIO 141-142 Human Anatomy & Physiology I-II
BIO 145 Human Anatomy and Physiology for the Health Sciences
CHM 111-112 College Chemistry I-II
GOL 105 Physical Geology
GOL 106 Historical Geology
PHY 231-232 General University Physics I-II
PHY 241-242 University Physics I-II

Social Science: Study of relationships within a society

*ECO 201-202 Principles of Economic I-II
GEO 210 People and the Land: Intro Cultural Geography
GEO 220 World Regional Geography
*HIS 101 or higher (History courses)
PLS 135 or higher (Political Sciences courses)
*PSY 120 or higher (Psychology courses)
*SOC 200 or higher (Sociology courses)
*Indicates course specified for pathways elective options

Wellness

All PED Activity Courses (Physical Education Courses)

HLT 105 CPR
HLT 106 First Aid and Safety
HLT 110 Personal & Community Health
HLT 230 Nutrition and Human Development

General Education Electives

If a program requires a general education elective a student may choose any three-credit course from one of the above categories or from courses listed below.

ACC 211-212 Principles of Accounting I-II
BIO 215 Plant Life of Virginia

General Education Courses for Associate of Arts & Sciences Degrees

English Composition

ENG 111-112 College Composition I-II
ENG 210 Advanced Composition

Humanities: Study of human culture

*ART 201-202 History of Art I-II
CST 130 Introduction to Theater
CST 151-152 Film Appreciation I-II
ENG 241-242 Survey of American Literature I-II
ENG 243-244 Survey of English Literature I-II
*MUS 121-122 Music Appreciation I-II
*PHI 100 Introduction to Philosophy
PHI 260 Studies in Eastern Thinking
REL 200 Old Testament – Fall Semesters only
REL 210 New Testament – Spring Semesters only
*REL 230 Religions of the World
Foreign Language – any 200 level course**
*Indicates course specified for pathways elective options

***100 level foreign language courses may not be used to satisfy the humanities graduation requirement in programs where only one humanities course is required. In programs with two humanities courses, only one 100 level foreign language course may be used to satisfy the humanities graduation requirement.*

Mathematics

MTH 154 Quantitative Reasoning
MTH 155 Statistical Reasoning
MTH 161-162 Precalculus I-II
MTH 263-264 Calculus I-II
MTH 245-246 Statistics I-II
MTH 261-262 Applied Calculus I-II
MTH 265 Calculus III
MTH 266 Linear Algebra
MTH 267 Differential Equations

Note: Students are urged to check the mathematics requirements of the four-year college to which they plan to transfer to determine the proper mathematics courses that should be taken at the community college. Placement is required for all mathematics courses.

Natural Science

- BIO 101-102 Biology I-II
- BIO 141-142 Human Anatomy & Physiology I-II
- CHM 111-112 College Chemistry I-II
- CHM 241-242/243-244 Organic Chemistry I-II
- GOL 105 Physical Geology
- GOL 106 Historical Geology
- PHY 231-232 General University Physics I-II
- PHY 241-242 University Physics I-II

Social Science: Study of relationships within a society

- *ECO 201-202 Principles of Economic I-II
- GEO 210 People and the Land: Intro Cultural Geography
- GEO 220 World Regional Geography
- *HIS 101 or higher (History courses)
- PLS 135 or higher (Political Sciences courses)
- *PSY 120 or higher (Psychology courses)
- *SOC 200 or higher (Sociology courses)
- *Indicates course specified for pathways elective options

Wellness

- All PED Activity Courses (Physical Education Courses)
- HLT 105 CPR
- HLT 106 First Aid and Safety
- HLT 110 Personal & Community Health
- HLT 230 Nutrition and Human Development

Note: Transfer students should note that four-year institutions may require a PED activity course in the general education core.

General Education Electives

If a program requires a general education elective a student may choose any three-credit course from one of the above categories or from courses listed below.

- ACC 211-212 Principles of Accounting I & II
- BIO 215 Plant Life of Virginia
- BIO 151-152 Human Gross Anatomy I-II
- BIO 205 Microbiology
- BIO 256 Genetics
- BIO 278 Coastal Ecology
- ENG 211 Creative Writing

Note: Students may petition the division dean to count a class not listed above as a transfer elective. They must provide evidence that the class is accepted at the institution to which they plan to transfer.

Health/Physical Education Courses

Students may substitute any HLT (Health) course that contains a personal wellness component for Physical Education requirement. Transfer students should note that four-year institutions may require a PED activity course in the general education core.

Honors Program

The Virginia Highlands Community College Honors Program offers qualified students the opportunity to pursue challenges beyond those found in regular college classes. Honors students engage in special coursework that stimulates critical thinking and examines the interrelationships of ideas across disciplines. Specially designated honors courses and regular classes that offer an honors component, allow students to develop a broader, deeper understanding of topics in the humanities, social sciences, and natural sciences. Instructors of honors component courses may design, or allow students to design, one or more projects, areas of study, or additional topics beyond

regular class requirements in order to receive a course grade with honors. The instructor will specify the criteria for successful completion of the honors component. However, honors credit will not be awarded in a course where the student's final grade is C or lower. The faculty member may restrict honors options to students who meet appropriate criteria which might include but are not limited to performance on placement exams, performance in prerequisite or related courses, performance on SAT or other college placement tests, and recommendations of other faculty. A notation will be made on the transcript of a student to whom honors credit has been awarded.

Information Technology Requirements

VHCC policy requires that students must keep their IT skills up to date. Therefore, IT courses transferred from other institutions and IT courses completed at VHCC must not be more than 5 years old for IT majors. If a student can demonstrate competency, the student may appeal the rule by requesting departmental approval from the lead faculty in the IT Department.

IT courses transferred from other institutions and IT courses completed at VHCC must not be more than 10 years old for non-IT majors. If a student can demonstrate competency, the student may appeal the rule by requesting departmental approval from the lead faculty in the IT department.

Math Requirements

Students are urged to check the mathematics requirements of the four-year college or university to which they plan to transfer to determine the proper mathematics courses to be taken at the community college.

Occupational/Technical Degrees

The occupational and technical education programs are designed to meet the increasing demands for technicians, paraprofessional workers, and skilled craftsmen for employment in industry, business, the professions, and government. These programs may serve as initial training for students preparing to enter the job market for the first time, as a supplement to work experience for persons who are preparing for advancement in their present lines of work, or as retraining for persons who must develop new skills for the present job market.

To meet these goals, Citizens Advisory Committees provide, in partnership with industry and the community, information and advice to enable continuous updating of curricular, course content, technology and faculty knowledge of current industry practices. Preparation for successful employment may encompass many aspects of education that extends beyond the classroom, such as cooperative education and internships that are conducive to success in the workplace.

Associate of Applied Science Degree programs are designed primarily to prepare the student for employment immediately upon graduation from the community college. Thus, these programs contain a large number of specialized courses.

Virginia Highlands offers both **two-year diploma and one-year certificate programs** for those students interested in immediate employment in selected occupational fields. The student's program is designed to facilitate transition into an appropriate AAS degree program at a later date. Students interested in such options should plan their programs carefully with their advisors and counselors at VHCC.

Career Studies Certificate programs are designed in response to the non-conventional short-term program of study needs of many adults in our service region for an award which provides for upgrading, retraining, and investigating career possibilities or specialized interests.

AGRICULTURAL AND NATURAL RESOURCES TECHNOLOGY

Associate of Applied Science (AAS)

- Horticulture Technology
- Horticulture Technology - Specialization in Business and Entrepreneurship
- Horticulture Technology - Specialization in Landscape and Hardscape Construction Management

Career Studies Certificate (CSC)

- Horticulture: Agricultural Production and Management
- Horticulture: Crop Production
- Horticulture: General Horticulture
- Horticulture: Indoor Plant Care
- Horticulture: Landscape Management
- Horticulture: Turfgrass Management

BUSINESS TECHNOLOGY

Associate of Applied Science (AAS)

- Accounting
- Administrative Support Technology - Executive Administrative Assistant
- Administrative Support Technology – Specialization in Legal Assisting
- Administrative Support Technology – Specialization in Medical Office Specialist
- Information Systems Technology
- Information Systems Technology - Specialization in Networking Management

Certificate (C)

- Accounting and Information Systems Technology
- Clerical Studies
- Health Information Management
- Networking A+
- Supervision and Management
- Web Programming and Design

Career Studies Certificate (CSC)

- CISCO Networking and A+
- Computer Programming
- Cyber Security
- Database Security and Design
- Industrial Supervision
- Retail Management
- Small Business Management
- Software Applications Specialist
- Teleservices
- User Support Specialist
- Unmanned Aerial Systems (UAS)
- Web Design and Development

ENGINEERING AND INDUSTRIAL TECHNOLOGY

Associate of Applied Science (AAS)

- Air Conditioning, Refrigeration, and Heating
- Electrical Technology
- Electrical Technology – Specialization in Mechatronics
- Electrical Technology – Specialization in Energy Technology
- Technical Studies

Diploma (D)

- Air Conditioning, Refrigeration, and Heating

Certificate (C)

- Electricity
- Refrigeration
- Solar Energy Technology

Career Studies Certificate (CSC)

- Diesel Mechanic
- Industrial Electricity
- Mechatronics
- Precision Machining
- Welding

HEALTH TECHNOLOGY

Associate of Applied Science (AAS)

- Emergency Medical Services Technology
- Nursing
- Nursing - LPN to RN Bridge
- Occupational Therapy Assistant (SWVCC)*
- Radiography

*Southwest Virginia Community College

Certificate (C)

- Health Sciences
- Career Studies Certificate (CSC)**
- Computerized Tomography
 - Dental Assisting
 - Emergency Medical Technician
 - Emergency Medical Technology – Intermediate
 - Emergency Medical Technology – Paramedic
 - Magnetic Resonance Imaging
 - Medical Assisting

PUBLIC SERVICE TECHNOLOGY

Associate of Applied Science (AAS)

- Administration of Justice
- Human Services
- Human Services - Specialization in Early Childhood Education

Certificate (C)

- Early Childhood Teaching Assistant
- Human Services Advocate

Career Studies Certificate (CSC)

- Child Development

WORKFORCE DEVELOPMENT & CONTINUING EDUCATION

Career Studies Certificate (CSC)

- American Sign Language
- Automotive Technology (NVS)*
- Culinary Arts (NVS)*
- Fire Science Technology
- Nurse Aide
- *NVS Neff Vocational School

Orientation

All students enrolled in an associate degree, diploma or certificate program must complete an orientation (SDV) course during their first semester in college. This program carries a value of 1 credit hour and requires fifteen hours of counselor/instructor – student contact.

All curricular students in the community colleges of Virginia complete an orientation program designed primarily to provide information applicable to the basic operation of the College. Along with the SDV course, all new students are required to attend a New Student Orientation prior to the start of their classes. The SDV course and New Student Orientation introduces students to the local community college philosophy, campus resources, enrollment process, curricular offerings, program layouts, class schedules, placement testing, transfer, study skills, financial management, life management, personal wellness, and the faculty advising process.

Orientation Credit Eligibility:

- When transfer courses are evaluated for students entering a curriculum, VHCC will accept first-year experience credit courses such as study skills, orientation, if a student has a grade of “S” for Satisfactory, or a “C” or better.
- Students who have been awarded an associate’s or bachelor’s degree may petition for SDV course waiver. The credit hours are not waived and a student must make up the one credit hour for SDV.
- Approval is required by the Dean of Arts and Sciences and Vice President of Instruction and Student Services for all Petitions for Credit of SDV.

State Board Guidelines

In implementing its statement of purpose, VHCC provides several types of programs, as well as a wide selection of curricular offerings. Each curriculum is designed to meet the general criteria established by the State Board for Community Colleges. At the same time, VHCC strives to design each curriculum with emphasis on the needs and opportunities within the College’s service region.

The State Board sets minimum standards for conferring appropriate associate degrees, certificates, and diplomas to individuals who satisfactorily complete course and program requirements. The following programs are offered by VHCC. The descriptions reflect the philosophies of the state governing agencies and the College.

Workforce Development & Continuing Education

The mission of the **Workforce Development & Continuing Education** is to provide assistance, workforce training, and employee development to promote economic growth of business

and industry and opportunities for personal development within the VHCC service area.

The services provided via Workforce Development & Continuing Education include: Continuing Education; Workforce Development; Community Services (noncredit); Small Business Development Center and Manufacturing Technology Center.

Where specific employment opportunities for new or expanding industries are available, special training activities are developed and coordinated through the Workforce Services of the Virginia Department of Business Assistance. The College’s role is to provide facilities, equipment, instructors and/or administrative service as needed.

Continuing Education. Today’s rapidly changing technology requires that employees’ skills be continually. The mission of Continuing Education is to establish and deliver a total program, credit instruction, training and testing to professional groups for certification and licensure review.

Workforce Development. Pre-employment training and training for employed workers that helps to meet the need for highly trained workers. Conveniently scheduled, custom-designed classes are offered on the College campus or at the worksite during-all hours of the day or night.

Community Services. Programs and training include noncredit classes, seminars, workshops and teleconferences that will continue and expand individual and community learning experiences.

Small Business Development Center. A Small Business Development Center provides one-on-one counseling, business education opportunities, and resources from the federal, state, local, academic, and private sectors to assist owners and managers to improve their competitiveness and profitability. Counseling services are provided free of charge and are confidential.

Manufacturing Technology Center. The MTC, located at Wytheville Community College, is a catalyst for economic growth and industrial competitiveness through training, applied research, and community-industrial service.

Procurement Assistance Center. Contracts between government and the private sector are available at all levels. The Center provides assistance with government contracting at the federal, state and local levels.

Career Studies Certificate programs are designed in response to the non-conventional short-term program of study needs of many adults in our service region for an award which provides for upgrading, retraining, and investigating career possibilities or specialized interests.

Career Studies Programs - Career Studies Certificate (CSC)

- American Sign Language
- Automotive Technology (NVS)*
- Culinary Arts (NVS)*
- Fire Science Technology
- Nurse Aide
- *NVS Neff Vocational School

Curriculum & Program Requirements

College Transfer

Business Administration

Associate of Arts and Sciences Degree

Program Coordinator: Ben Bullen • LRC 211 • 276-739-2452
Length: Four semesters (two years)

Purpose: With the rapid development in business and industry in Virginia, there is a great demand for qualified personnel in business administration to help provide leadership for this economic growth. The Associate of Arts and Sciences Degree curriculum with a major in Business Administration is designed for persons who plan to transfer to a four-year college or university to complete a baccalaureate degree program in a business area.

Transfer Objectives: Business Administration, Finance, Accounting, Public Administration, Management, Banking, Marketing, Economics, Human Resource Management

Admission Requirements: In addition to the admission requirements established for the College, entry into the Associate of Arts and Sciences Degree curriculum with a major in Business Administration recommends the satisfactory completion of the following high school units or equivalent as a minimum: 4 units of English, 3 units of college preparatory mathematics, 1 unit of laboratory science, and 1 unit of social studies. Students with deficiencies in reading, writing or math will be required to take developmental studies.

Program Requirements: The modern business world demands that its employees be knowledgeable in fields over and beyond business technology. Thus, this curriculum requires courses in the humanities, natural sciences, and social sciences in addition to the principles of economics and principles of accounting usually required in the first two years of a baccalaureate business curriculum. In order to help prepare for upper division (junior class) standing at a four-year college or university, the student usually must complete a program at the community college which is comparable in length and courses to the first two years of the program at the four-year college or university. Upon completion of the four-semester curriculum listed, the graduate will be awarded the Associate of Arts and Sciences Degree with a major in Business Administration.

Course Number	Course Title	Lecture Hours	Lab Hours	Credits
First Semester (Fall)				
ENG 111	College Composition I	3	0	3
MTH	MTH 161, 261, 245, or 263	3	0	3
ACC 211	Principles of Accounting I	4	0	4
CST 100	Principles of Public Speaking	3	0	3
SDV 101	Orientation to College Success	1	0	1
PED	Physical Education	0	2-3	1
Total		14	2-3	15
Second Semester (Spring)				
ENG 112	College Composition II	3	0	3
MTH	MTH 162, 245, 261, 262, 246, or 264	3	0	3
ACC 212	Principles of Accounting II	4	0	4
ITE 115 or 119	Intro. to Computer Applications & Concepts or Information Literacy	3	0	3
EEE	Elective	3	0	3
Total		16	0	16
Third Semester (Fall)				
HIS	History 101, 111 or 121	3	0	3
ECO 201	Principles of Economics I	3	0	3
ENG	Literature 241, 243, or Humanities Elective	3	0	3
SCI	Natural Science (BIO, CHM, GOL, or PHY)	3	3	4
EEE	Elective	3	0	3
Total		15	3	16

Course Number	Course Title	Lecture Hours	Lab Hours	Credits
Fourth Semester (Spring)				
HIS	History 102, 112 or 122	3	0	3
ECO 202	Principles of Economics II	3	0	3
ENG	Literature 242, 244, or Humanities Elective	3	0	3
SCI	Natural Science (BIO, CHM, GOL, or PHY)	3	3	4
SDV	Preparation for Employment	1	0	1
Total		15	3	16

Total Minimum Credits for AA&S Degree 61

Students are urged to follow the [recommended pathway](#) for this degree when choosing electives.

Additional approved humanities and social science electives are listed at <http://www.vhcc.edu/GenEdCore>.

Students are urged to acquaint themselves with the requirements of the major department in the college or university to which transfer is contemplated; and further, to consult with their counselors and advisors at VHCC in planning their academic program and electives.

Business Administration – Specialization in Business Information Technology

Associate of Arts and Sciences Degree

Program Coordinator: Tamara Lasley • LRC 206 • 276-739-2503
Length: Four semesters (two years)

Purpose: With new economic development in business and IT industries in Virginia’s Southwest, there is a demand for qualified personnel in the business information technology field. The Associate of Arts and Sciences Degree curriculum major in Business Administration with Specialization in Information Technology is designed for persons who plan to transfer to a four-year college or university to complete a baccalaureate degree program in a Business or Business IT discipline.

Transfer and Career Objectives:
Business Majors, Business Management Information Systems, Business Information Technology

Admission Requirements: In addition to the admission requirements established for the College, entry into the Associate of Arts and Sciences Degree curriculum major in Business Administration with Specialization in Information Technology recommends the satisfactory completion of the following high school units or equivalent as a minimum: 4 units of English, 3 units of college preparatory mathematics, 1 unit of laboratory science, and 1 unit of social studies. Students with deficiencies in reading, writing or math will be required to take developmental studies.

Program Requirements: The modern business world demands that its employees be knowledgeable in disciplines beyond business technology. Thus, this curriculum requires courses in communication, humanities, natural sciences, and social sciences in addition to the principles of economics and principles of accounting usually required in the first two years of a baccalaureate in Business and Business IT programs. In order to help prepare for upper division (junior class) standing at a four-year college or university, the student usually must complete a program at the community college which is comparable in length and courses to the first two years of the program at the four-year college or university. Upon completion of the four-semester curriculum identified below, the graduate will be awarded the Associate of Arts and Sciences Degree with a major in Business Administration Specialization in Business Information Technology.

Course Number	Course Title	Lecture Hours	Lab Hours	Credits
First Semester (Fall)				
ENG 111	College Composition I	3	0	3
MTH	MTH 161, 261, 245, or 263	3	0	3
ACC 211	Principles of Accounting I	4	0	4
SDV 101	Orientation to College Success	1	0	1
ITE 115 or 119	Intro. to Computer Applications & Concepts or Information Literacy	3	0	3
CST 100	Principles of Public Speaking	3	0	3
Total		17	0	17
Second Semester (Spring)				
ENG 112	College Composition II	3	0	3
MTH	MTH 162, 245, 261, 262, 246, or 264	3	0	3
ACC 212	Principles of Accounting II	4	0	4
ITP 100	Software Design	3	0	3
EEE	Elective	3	0	3
Total		16	0	16

Course Number	Course Title	Lecture Hours	Lab Hours	Credits
Third Semester (Fall)				
HIS	History 101, 111 or 121	3	0	3
ECO 201	Principles of Economics I	3	0	3
ENG	Literature 241, 243, or Humanities Elective	3	0	3
SCI	Natural Science (BIO, CHM, GOL, or PHY)	3	3	4
ITP 120	Java Programming I	4	0	4
Total		16	3	17
Fourth Semester (Spring)				
HIS	History 102, 112 or 122	3	0	3
ECO 202	Principles of Economics II	3	0	3
ENG	Literature 242, 244, or Humanities Elective	3	0	3
SCI	Natural Science (BIO, CHM, GOL, or PHY)	3	3	4
SDV 106	Preparation for Employment	1	0	1
Total		13	3	14
Total Minimum Credits for AA&S Degree				61

Students are urged to follow the [recommended pathway](#) for this degree when choosing electives.

Additional approved humanities and social science electives are listed at <http://www.vhcc.edu/GenEdCore>.

Students are urged to acquaint themselves with the requirements of the major department in the college or university to which transfer is contemplated; and further, to consult with their counselors and advisors at VHCC in planning their academic program and electives.

VHCC policy requires that students must keep their IT skills up to date. Therefore, IT courses transferred from other institutions and IT courses completed at VHCC must not be more than 5 years old for IT majors. If a student can demonstrate competency, the student may appeal the rule by requesting departmental approval from the lead faculty in the IT Department.

Education

Associate of Arts and Sciences Degree

Program Coordinator: Sara Combs • OTC 212 • 276-739-2444
Length: Four semesters (two years)

Purpose: The Associate of Arts and Sciences Degree Program with a major in Education is designed for persons who plan to transfer to a four-year college or university to complete a baccalaureate degree program in the social sciences or high school education. This curriculum is designed to offer sufficient course flexibility to students whose educational goals may not yet be clearly defined and to provide greater opportunity for these students to elect courses which emphasize areas of individual academic strength and interest in the college transfer core.

Transfer Objectives:

- Education
- Pre-professional Careers
- Human Services
- Social Work
- Psychology
- Undecided Majors

Admission Requirements: In addition to the admission requirements established for the college entry into the Associate of Arts and Sciences Degree Program with a major in Education recommends the satisfactory completion of the following high school units or equivalent as a minimum: 4 units of English, 3 units of college preparatory mathematics, 1 unit of laboratory science, and 1 unit of social science. Students with deficiencies in reading, writing or math will be required to take developmental studies.

Program Requirements: The world of modern education demands that students be knowledgeable both in their teaching field and in general education. Thus, this curriculum requires courses in the humanities, natural sciences, mathematics, social sciences, personal wellness. The Education curriculum is designed to lead the student toward meeting state teacher licensure requirements and teaching endorsements. This curriculum also provides a solid general core education as students prepare for pre-professional degrees.

In order to prepare for upper division (junior class) standing at a four-year college or university, the student must complete a program at the community college which is comparable in length and courses to the first two years of the program at the four-year college or university. Upon satisfactory completion of the four-semester program listed, the graduate will be awarded the Associate of Arts and Sciences Degree with a major in Education.

Course Number	Course Title	Lecture Hours	Lab Hours	Credits
First Semester (Fall)				
ENG 111	College Composition I	3	0	3
SDV 101	Orientation to College Success	1	0	1
HLT 110	Concepts of Personal and Community Health	3	0	3
MTH	Mathematics	3	0	3
EEE	Humanities Elective	3	0	3
EEE	Social Science Elective	3	0	3
Total		16	0	16

Course Number	Course Title	Lecture Hours	Lab Hours	Credits
Second Semester (Spring)				
ENG 112	College Composition II	3	0	3
CST 100	Principles of Public Speaking	3	0	3
MTH	Mathematics	3	0	3
EEE	Humanities Elective	3	0	3
EEE	Social Science Elective	3	0	3
Total		15	0	15
Third Semester (Fall)				
ENG	Literature 241 or 243	3	0	3
SCI	Natural Science (BIO, CHM, GOL or PHY)	3	3	4
HIS	History 121, 111 or 101	3	0	3
EEE	Social Science Elective	3	0	3
ITE 115 or 119	Intro. to Computer Applications & Concepts or Information Literacy	3	0	3
Total		15	3	16
Fourth Semester (Spring)				
ENG	Literature 242 or 244	3	0	3
EEE	Social Science or Humanities Elective	3	0	3
SCI	Natural Science(BIO, CHM, GOL, or PHY)	3	3	4
HIS	History 122, 112 or 102	3	0	3
Total		12	3	13
Total Minimum Credits for AA&S Degree				60

Students are urged to follow the [recommended pathway](#) for this degree when choosing electives.

Additional approved humanities and social science electives are listed at <http://www.vhcc.edu/GenEdCore>.

Students are urged to acquaint themselves with the requirements of the major department in the college or university to which transfer is contemplated; and further, to consult with their counselors and advisors at VHCC in planning their academic program and electives.

Students planning to enter Secondary Education should complete Praxis I before transfer. For more information on licensure requirements, see an academic counselor or contact Eva S. Tilson at etilson1@vhcc.edu.

Education - Specialization in Art

Associate of Arts and Sciences Degree

Program Coordinator: Thomas Bryant • OTC 218 • 276-739-2451
Length: Four semesters (two years)

Purpose: The Associate of Arts and Sciences Degree Program with a major in Education - Specialization in Art is designed for persons who plan to transfer to a four-year college or university to complete a baccalaureate degree program.

Transfer Objectives and Professional Options:

College or high school teaching Art History
 Undecided majors with an interest in Art
 Museum studies
 Museum Curator

Admission Requirements: In addition to the admission requirements established for the college, entry into the Associate of Arts and Sciences Degree Program with a major in Education recommends the satisfactory completion of the following high school units or equivalent as a minimum: 4 units of English, 3 units of college preparatory mathematics, 1 unit of laboratory science, and 1 unit of social science. Students with deficiencies in reading, writing or math will be required to take developmental studies.

Program Requirements: The world of modern education demands that students be knowledgeable both in their teaching field and in general education. Thus, this curriculum requires courses in the humanities, natural sciences, mathematics, social sciences, and personal wellness. The Education curriculum is designed to lead the student toward meeting state teacher licensure requirements and teaching endorsements. This curriculum also provides a solid general core education as students prepare for pre-professional degrees.

In order to prepare for upper division (junior class) standing at a four-year college or university, the student must complete a program at the community college which is comparable in length and courses to the first two years of the program at the four-year college or university. Upon satisfactory completion of the four-semester program listed, the graduate will be awarded the Associate of Arts and Sciences Degree with a major in Education - Specialization in Art.

Course Number	Course Title	Lecture Hours	Lab Hours	Credits
First Semester (Fall)				
ENG 111	College Composition I	3	0	3
SDV 101	Orientation to College Success	1	0	1
HIS	History 101, 111 or 121	3	0	3
MTH	Mathematics	3	0	3
ART 121	Drawing I	1	4	3
ART 131	Fundamentals of Design I	1	4	3
Total		12	8	16
Second Semester (Spring)				
ENG 112	College Composition II	3	0	3
HIS	History 102, 112 or 122	3	0	3
MTH	Mathematics	3	0	3
ITE 115 or 119	Intro. to Computer Applications & Concepts or Information Literacy	3	0	3
ART 201 or 202	Art History I or II	3	0	3
Total		15	0	15

Course Number	Course Title	Lecture Hours	Lab Hours	Credits
Third Semester (Fall)				
ENG	Literature 241, 243, or Humanities Elective	3	0	3
SCI	Natural Science (BIO, CHM, GOL, or PHY)	3	3	4
EEE	Social Science Elective	3	0	3
ART 125	Introduction to Painting	2	3	3
CST 100	Principles of Public Speaking	3	0	3
Total		14	6	16
Fourth Semester (Spring)				
ENG	Literature 242, 244, or Humanities Elective	3	0	3
SCI	Natural Science (BIO, CHM, GOL, or PHY)	3	3	4
ART 134	Three Dimensional Design	1	4	3
EEE	Social Science Elective	3	0	3
PED	Physical Education	0	2-3	1
Total		10	9-10	14
Total Minimum Credits for AA&S Degree				61

Students are urged to follow the [recommended pathway](#) for this degree when choosing electives.

Additional approved humanities and social science electives are listed at <http://www.vhcc.edu/GenEdCore>.

Students are urged to acquaint themselves with the requirements of the major department in the college or university to which transfer is contemplated; and further, to consult with their counselors and advisors at VHCC in planning their academic program and electives.

Students planning to enter Secondary Education should complete Praxis I before transfer. For more information on licensure requirements, see an academic counselor or contact Eva S. Tilson at etilson1@vhcc.edu.

Education - Specialization in Teacher Preparation

Associate of Arts and Sciences Degree

For Early Childhood PK-3, Elementary PK-6, Middle Education 6-8 and Special Education

Program Coordinator: Barbara Manuel • OTC 208 • 276-739-2432
Length: Four semesters (two years)

Purpose: The VCCS Teacher Education Teacher Preparation Education degree is designed to provide the courses in general education for the student who plans to complete a baccalaureate degree in pursuit of teacher licensure at a four-year institution in one of the following endorsement areas:

Early Childhood PK-3, Elementary PK-6, Middle Education 6-8, Special Education Licensure, and Secondary Education

Students who enter this program should be aware of the requirements for professional employment in the education field including academic and licensing requirements. Consultation with the Counselor or faculty advisor is highly recommended.

Admission Requirements: In addition to the admission requirements established for the college, entry into the Associate of Arts and Sciences Degree Program with a major in Education recommends the satisfactory completion of the following high school units or equivalent as a minimum: 4 units of English, 3 units of college preparatory mathematics, 1 unit of laboratory science, and 1 unit of social science. Students with deficiencies in reading, writing or math will be required to take developmental studies.

Program Requirements: The world of modern education demands that students be knowledgeable both in their teaching field and in general education. Thus, this curriculum requires courses in the humanities, natural sciences, mathematics, social sciences, and personal wellness. The Education curriculum is designed to lead the student toward meeting state teacher licensure requirements and teaching endorsements. This curriculum also provides a solid general core education as students prepare for pre-professional degrees.

In order to prepare for upper division (junior class) standing at a four-year college or university, the student must complete a program at the community college which is comparable in length and courses to the first two years of the program at the four-year college or university. Upon satisfactory completion of the four-semester program listed, the graduate will be awarded the Associate of Arts and Sciences Degree with a major in Education - Specialization in Teacher Preparation.

Course Number	Course Title	Lecture Hours	Lab Hours	Credits
First Semester (Fall)				
ENG 111	College Composition I	3	0	3
SDV 101	Orientation to Education	1	0	1
MTH	Mathematics	3	0	3
HIS 121	United States History I	3	0	3
ITE 115 or 119	Intro. to Computer Applications & Concepts or Information Literacy	3	0	3
HLT/PED	Health/Wellness	0	2-3	1
Total		13	2-3	14

Course Number	Course Title	Lecture Hours	Lab Hours	Credits
Second Semester (Spring)				
ENG 112	College Composition II	3	0	3
MTH	Mathematics	3	0	3
HIS 122	United States History II	3	0	3
PLS 135	American National Politics	3	0	3
EEE	Humanities Elective	3	0	3
Total		15	0	15
Third Semester (Fall)				
CST 100	Principles of Public Speaking	3	0	3
HIS	History of Western Civilization 101 or 102	3	0	3
EDU 200	Intro. to Teaching	3	0	3
ECO	Principles of Economics 201 or 202	3	0	3
BIO 101	Biology I	3	3	4
Total		15	3	16
Fourth Semester (Spring)				
GEO 210	People and the Land: Intro. to Cultural Geography	3	0	3
BIO 102	Biology II	3	3	4
EEE	Humanities Elective	3	0	3
EEE	Elective	3	0	3
ENG	Literature 241, 242, 243 or 244	3	0	3
Total		15	3	16
Total Minimum Credits for AA&S Degree				61

Students are urged to follow the [recommended pathway](#) for this degree when choosing electives.

Additional approved humanities and social science electives are listed at <http://www.vhcc.edu/GenEdCore>.

Students are urged to acquaint themselves with the requirements of the major department in the college or university to which transfer is contemplated; and further, to consult with their counselors and advisors at VHCC in planning their academic program and electives.

Students planning to enter Secondary Education should complete Praxis I before transfer. For more information on licensure requirements, see an academic counselor or contact Eva S. Tilson at etilson1@vhcc.edu.

Education - Specialization in Theatre Arts

Associate of Arts and Sciences Degree

Program Coordinator: Dona Lee • OTC 205 • 276-739-2585
Length: Four semesters (two years)

Purpose: The Education - Specialization in Theatre Arts is designed for students who plan to transfer to a four-year institution. This program is designed to develop skills in and appreciation of those subjects related to performance and production in theatre. This program provides basic preparation leading to theatre-related careers, as well as to the teaching of theatre.

Transfer Objectives and Professional Options: Communications, Theatre, Dramatic Literature, Radio and Television Broadcasting, Undecided Majors with an interest In Theatre, Film, Drama

Admission Requirements: In addition to the admission requirements established for the college, entry into the Associate of Arts and Sciences Degree Program with a major in Education recommends the satisfactory completion of the following high school units or equivalent as a minimum: 4 units of English, 3 units of college preparatory mathematics, 1 unit of laboratory science, and 1 unit of social science. Students with deficiencies in reading, writing or math will be required to take developmental studies.

Program Requirements: The world of modern education demands that students be knowledgeable both in their teaching field and in general education. Thus, this curriculum requires courses in the humanities, natural sciences, mathematics, social sciences, and personal wellness. The Education curriculum is designed to lead the student toward meeting state teacher licensure requirements and teaching endorsements. This curriculum also provides a solid general core education as students prepare for pre-professional degrees.

Students are urged to consult with their counselors and advisors at Virginia Highlands Community College in planning their program and selecting electives. In order to prepare for upper division (junior class) standing at a four-year college or university, the student must complete a program at the community college which is comparable in length and courses to the first two years of the program at the four-year college or university. Upon satisfactory completion of the four-semester program listed, the graduate will be awarded the Associate of Arts and Sciences Degree with a major in Education - Specialization in Theatre Arts.

Course Number	Course Title	Lecture Hours	Lab Hours	Credits
First Semester (Fall)				
ENG 111	College Composition I	3	0	3
SDV 101	Orientation to College Success	1	0	1
MTH	Mathematics	3	0	3
CST 130	Intro. to the Theatre	3	0	3
CST 136	Theatre Workshop	0	3	1
ITE 115 or 119	Intro. to Computer Applications & Concepts or Information Literacy	3	0	3
Total		13	3	14
Second Semester (Spring)				
ENG 112	College Composition II	3	0	3
MTH	Mathematics	3	0	3
CST 100	Principles of Public Speaking	3	0	3
CST 136	Theatre Workshop	0	3	1
EEE	Social Science Elective	3	0	3
CST 145	Stagecraft (Taught in odd years)	2	2	3
Total		14	5	16

Course Number	Course Title	Lecture Hours	Lab Hours	Credits
Third Semester (Fall)				
EEE	Humanities Elective	3	0	3
SCI	Natural Science	3	3	4
PED	PED Elective	0	2-4	2
CST 136	Theatre Workshop	0	3	1
CST 131	Acting I (Taught in odd years)	3	0	3
HIS	History 101, 111, or 121	3	0	3
Total		12	8-10	16
Fourth Semester (Spring)				
EEE	Humanities Elective	3	0	3
SCI	Natural Science (BIO, CHM, GOL, or PHY)	3	3	4
CST 132	Acting II (Taught in even years)	3	0	3
CST 136	Theatre Workshop	0	3	1
EEE	Social Science Elective	3	0	3
Total		12	6	14
Total Minimum Credits for AA&S Degree				60

Students are urged to follow the [recommended pathway](#) for this degree when choosing electives.

Additional approved humanities and social science electives are listed at <http://www.vhcc.edu/GenEdCore>.

Students are urged to acquaint themselves with the requirements of the major department in the college or university to which transfer is contemplated; and further, to consult with their counselors and advisors at VHCC in planning their academic program and electives.

Students planning to enter Secondary Education should complete Praxis I before transfer. For more information on licensure requirements, see an academic counselor or contact Eva S. Tilson at etilson1@vhcc.edu.

General Studies

Associate of Arts and Sciences Degree

Program Coordinator: Pansy Waycaster • OTC 202 • 276-739-2478
Length: Four semesters (two years)

Purpose: The Associate of Arts and Sciences Degree Program with a major in General Studies is a degree program designed for transfer to four-year colleges for those students whose area of interest is other than those covered by VHCC's Business Administration, Science, or Education curricula. In general, these students would not be taking a foreign language and would not be planning to major in the fields of education, business, science, medicine, mathematics, agriculture, or computer science. Some possible goals of a General Studies student might be Communications, Social Work, or Journalism. General Studies is also appropriate for the undecided transfer student or those in transition between colleges.

Admission Requirements: In addition to the admission requirements established for the college, entry into the General Studies program recommends the satisfactory completion of the following high school units or equivalent as a minimum: 4 units of English; 3 units of college preparatory mathematics; 1 unit of laboratory science; and 1 unit of social science. Students with deficiencies in reading, writing or math will be required to take developmental studies.

Program Requirements: Four-year colleges and universities usually require a broad general education during the first two years of their baccalaureate programs. Therefore, this curriculum offers a distribution of general education courses usually required in the first two years of many baccalaureate programs. Students are urged to select a four-year college or university early in the planning with their counselor and to prepare their community college program carefully in accord with the requirements for entry into the junior year at the college to which they will transfer. When admitted into the program the student will, in consultation with the Counselor, develop a curriculum based upon the freshman and sophomore year requirements of the transfer institution, which the student has selected. The student should then consult with the transfer institution to be certain that the planned program will provide the student with the courses the student must have in order to be admitted as a junior upon graduation from VHCC. The Counselor and/or Faculty Advisor will assist the student in selecting courses, which are normally transferable. Upon satisfactory completion of the four-semester program, the graduate will be awarded the Associate of Arts and Sciences Degree with a major in General Studies.

Course Number	Course Title	Lecture Hours	Lab Hours	Credits
First Semester (Fall)				
ENG 111	College Composition I	3	0	3
HIS	History 101, 111 or 121	3	0	3
MTH	Mathematics	3	0	3
SCI	BIO 101	3	3	4
SDV 101	Orientation to College Success	1	0	1
EEE	Transfer Elective	3	0	3
Total		16	3	17
Second Semester (Spring)				
ENG 112	College Composition II	3	0	3
HIS	History 102, 112 or 122	3	0	3
MTH	Mathematics	3	0	3
SCI	Natural Science BIO 102	3	3	4
EEE	Transferrable Elective	3	0	3
Total		15	3	16

Course Number	Course Title	Lecture Hours	Lab Hours	Credits
Third Semester (Fall)				
HUM/FA	Humanities Elective	3	0	3
EEE	Transfer Elective	3	0	3
SSE	Social Sciences Elective	3	0	3
EEE	Transferrable Elective	3	0	3
EEE	Transfer Elective	3	0	3
Total		15	0	15
Fourth Semester (Spring)				
HUM/FA	Humanities Elective	3	0	3
EEE	Transfer Elective	3	0	3
EEE	Transfer Elective	3	0	3
EEE	Transfer Elective	3	0	3
EEE	Transfer Elective	3	0	3
Total		15	0	15
Total Minimum Credits for the AA&S Degree				63

Students are urged to follow the recommended pathways available for this degree when choosing electives - see General Studies: [History/Political Science Pathway](#), [Liberal Arts Pathway](#), [Psychology Pathway](#) or [Sociology Pathway](#).

Additional approved humanities and social science electives are listed at <http://www.vhcc.edu/GenEdCore>.

Students are urged to acquaint themselves with the requirements of the major department in the college or university to which transfer is contemplated; and further, to consult with their counselors and advisors at VHCC in planning their academic program and electives.

Science

Associate of Arts and Sciences Degree

Program Coordinator: Nicole Freeman • OTC 108 A • 276-739-2537
Length: Four semesters (two years)

Purpose: With the emphasis on scientific discoveries and technological development in today's society, there is a strong demand for scientists and scientifically oriented persons in business, government, industry and the professions. The Associate of Arts and Sciences Degree Program with a major in Science is designed primarily for those persons who are interested in a pre-professional or scientific program and who plan to transfer to a four-year college or university to complete a baccalaureate degree program or major in such fields as:

Agriculture	Nursing	Forestry
Mathematics	Pre-Chiropractic	Physics
Biology	Pharmacy	Geology
Pre-Medicine	Pre-Dentistry	Science Education
Chemistry	Physical Therapy	Home Economics

Admission Requirements: In addition to the admission requirements established for the college entry into the Associate of Arts and Sciences Degree program with a major in Science recommends the satisfactory completion of the following high school units or equivalent as a minimum: 4 units of English, 3 units of college preparatory mathematics, 1 unit of laboratory science, 1 unit of social studies. Students with deficiencies in reading, writing or math will be required to take developmental studies.

Program Requirements: Although the major emphasis in this curriculum is mathematics, the biological sciences, and the physical sciences, the curriculum also includes courses in humanities and social sciences. Electives are provided so that the student can select the appropriate courses for his pre-professional or scientific program as required in the first two years of the four-year college or university. In order to help prepare for upper division (junior class) standing at a four-year institution, the student usually must complete a program at the community college which is comparable in length and courses to the first two years of the program at the four-year institution. Upon satisfactory completion of the four-semester program described, the graduate will be awarded the Associate of Arts and Sciences Degree with a major in Science.

Course Number	Course Title	Lecture Hours	Lab Hours	Credits
First Semester (Fall)				
ENG 111	College Composition I	3	0	3
HIS	History 101, 111 or 121	3	0	3
MTH	MTH 161, 261, 245, or 263	3-5	0	3-5
SCI	Natural Science (BIO, CHM, GOL, PHY)	3	3	4
SDV 101	Orientation to College Success	1	0	1
Total		13-15	3	14-16
Second Semester (Spring)				
ENG 112	College Composition II	3	0	3
HIS	History 102, 112 or 122	3	0	3
MTH	MTH 162, 261, 262, 245, 246, or 264	3-5	0	3-5
PED	Physical Education	0	2-3	1
SCI	Natural Science (BIO, CHM, GOL, PHY)	3	3	4
Total		12-14	5-6	14-16

Course Number	Course Title	Lecture Hours	Lab Hours	Credits
Third Semester (Fall)				
ENG	Literature or Humanities Elective	3	0	3
EEE	Social Science Elective	3	0	3
MTH	Mathematics	3	0	3
SCI	Natural Science, Mathematics, or Engineering Transfer Elective (BIO, CHM, EGR, GOL, MTH, PHY)	3	3	4
CST 100	Principles of Public Speaking	3	0	3
Total		15	3	16
Fourth Semester (Spring)				
ENG	Literature or Humanities Elective	3	0	3
EEE	Transfer Elective	3	0	3
ITE or ITP	Information Technology Course	3	0-3	3-4
EEE	Transfer Elective	3	0	3
SCI	Science, Mathematics, or Engineering Transfer Elective (BIO, CHM, EGR, GOL, MTH, PHY)	3	3	4
Total		15	3-6	16-17
Total Minimum Credits for the AA&S Degree				60

Students are urged to follow the [recommended pathway](#) for this degree when making elective selections.

Additional approved humanities and social science electives are listed at <http://www.vhcc.edu/GenEdCore>.

Students are urged to acquaint themselves with the requirements of the major department in the college or university to which transfer is contemplated; and further, to consult with their counselors and advisors at VHCC in planning their academic program and electives.

Science - Specialization in Engineering

Associate of Arts and Sciences Degree

Program Coordinator: Tom Tidwell • LRC 216 • 276-739-2409

Length: Four semesters (two years)

Purpose: This program is designed to provide the first two years of general engineering education common to most engineering majors at universities in the US. It will prepare a student to transfer to a four year school and begin classes in a declared major. The Engineering classes that we offer will prepare a student to take the Fundamentals of Engineering exam which is the first test in the sequence to becoming a licensed professional engineer; transferability will depend on the transfer institution and specific major.

Students are urged to follow the [recommended pathway](#) for this degree when making elective selections.

Additional approved humanities and social science electives are listed at <http://www.vhcc.edu/GenEdCore>.

Students who are planning to transfer are urged to acquaint themselves with the requirements of the major department in the college or university to which transfer is contemplated and to consult with their counselor or advisor at Virginia Highlands Community College in planning their program and selecting electives.

Course Number	Course Title	Lecture Hours	Lab Hours	Credits
First Semester (Fall)				
ENG 111	College Composition I	3	0	3
HIS	History 101, 111 or 121	3	0	3
MTH 263	Calculus I	4	0	4
MTH 266	Linear Algebra	3	0	3
CHM 111	College Chemistry I	3	3	4
SDV 101	Orientation to College Success	1	0	1
Total		17	3	18
Second Semester (Spring)				
ENG 112	College Composition II	3	0	3
HIS	History 102, 112 or 122	3	0	3
MTH 264	Calculus II	4	0	4
EGR 140	Engineering Mechanics – Statics	3	0	3
CST 100	Principles of Public Speaking	3	0	3
Total		16	0	16
Third Semester (Fall)				
EEE	Social Science Elective	3	0	3
ITP	Computer Programming Course	4	0	4
MTH 265	Calculus III	4	0	4
PHY 241	University Physics I	3	3	4
EGR 245	Engineering Mechanics – Dynamics	3	0	3
Total		17	3	18
Fourth Semester (Spring)				
ENG	Literature or Humanities Elective	3	0	3
HUM	Literature or Humanities Elective	3	0	3
MTH 267	Differential Equations	3	0	3
PHY 242	University Physics II	3	3	4
EGR 246	Mechanics of Materials	3	0	3
EGR 295	Engineering Experiences	1	0	1
Total		15	3	17
Total Minimum Credits for the AA&S Degree				69

Science - Specialization in Horticulture

Associate of Arts and Sciences Degree

Program Coordinator: Ben Casteel • OTC 206 • 276-739-2441

Length: Four semesters (two years)

Course Number	Course Title	Lecture Hours	Lab Hours	Credits
First Semester (Fall)				
ENG 111	College Composition I	3	0	3
BIO 101	General Biology I	3	3	4
MTH 161	Pre-Calculus	3	0	3
HIS 101	Western Civilization I	3	0	3
EEE	Transfer Horticulture Elective	2	2	3
SDV 101	Orientation to College Success	1	1	1
Total		15	6	17
Second Semester (Spring)				
ENG 112	College Composition II	3	0	3
BIO 102	General Biology II	3	3	4
MTH 261	Applied Calculus I	3	0	3
EEE	Transfer Horticulture Elective	2	2	3
PED	Physical Education	0	2-3	1
Total		11	7-8	14
Third Semester (Fall)				
ECO 201	Principles of Economics I	3	0	3
EEE	Literature or Humanities Elec.	3	0	3
CHM 111	College Chemistry I	3	3	4
EEE	Transfer Horticulture Elective	2	2	3
ITE 115 or 119	Intro. to Computer Applications & Concepts or Information Literacy	3	0	3
Total		14	5	16
Fourth Semester (Spring)				
ECO 202	Economics II	3	0	3
EEE	Literature or Humanities Elec.	3	0	3
CHM 112	College Chemistry II	3	3	4
EEE	Transfer Horticulture Elective	2	2	3
Total		11	5	13
Total Minimum Credits for AA&S				60

Students are urged to follow the [recommended pathway](#) for this degree when making elective selections.

Additional approved humanities and social science electives are listed at <http://www.vhcc.edu/GenEdCore>.

Students who are planning to transfer are urged to acquaint themselves with the requirements of the major department in the college or university to which transfer is contemplated and to consult with their counselor or advisor at Virginia Highlands Community College (VHCC) in planning their program and selecting electives.

General Education

Certificate

Program Coordinator: Pansy Waycaster • OTC 202 • 276-739-2478
Length: Two Semesters (1 year)

Course Number	Course Title	Lecture Hours	Lab Hours	Credits
First Semester (Fall)				
SDV 101	Orientation to College Success	1	0	1
ENG 111	College Composition I	3	0	3
MTH	Transfer Mathematics Course	3	0	3
EEE	Social Science elective	3	0	3
EEE	Transfer Elective	3	0	3
SCI	Natural Science	3	3	4
Total		16	3	17
Second Semester (Spring)				
EEE	Communications (ENG 112 or CST 100)	3	0	3
EEE	Social Science Elective	3	0	3
EEE	Social Science Elective	3	0	3
EEE	Humanities Elective	3	0	3
SCI	Natural Science	3	3	4
Total		15	3	16
Total Minimum Credits for Certificate				33

Additional approved humanities and social science electives are listed at <http://www.vhcc.edu/GenEdCore>.

Students are urged to acquaint themselves with the requirements of the major department in the college or university to which transfer is contemplated; and further, to consult with their counselors and advisors at VHCC in planning their academic program and electives.

Curriculum & Program Requirements

Agricultural and Natural Resources Technology

Horticulture Technology

Associate of Applied Science

Program Coordinator: Ben Casteel • OTC 206 • 276-739-2441

Length: Four semesters (two years)

Purpose: The Horticulture Industry is one of the fastest growing industries in the VHCC service region. The Horticulture program is designed to prepare students for employment in the horticulture industry or a related field and to provide training for those who are currently working in the field and wish to improve their knowledge and skills. Students will not only develop skills in crop production, but also interpersonal and business management skills.

Occupational Objectives: Graduates of the program are prepared for managerial/supervisory level positions in areas that include landscape design and installation, grounds maintenance, turf grass maintenance, floral designer, greenhouse and nursery management, garden center operation, and sales and marketing and related industries.

Program Requirements: The curriculum is designed to integrate courses in nursery management, greenhouse management, turf management and related areas, general education, and electives. Students are advised to follow the curriculum as outlined in the College catalog and consult with their faculty advisor or counselor in planning their programs and selecting electives. A program-specific SDV 101 section that is taught by the program coordinator is available, and students are strongly encouraged to enroll in this section during the first semester. Students planning to transfer should explore opportunities with their faculty advisor or counselor. Upon satisfactory completion of the four-semester curriculum, the student will be awarded an Associate of Applied Science Degree in Horticulture Technology.

Course Number	Course Title	Lecture Hours	Lab Hours	Credits
First Semester (Fall)				
HRT 100	Intro. to Horticulture	2	2	3
HRT 205	Soils	2	2	3
HRT 246	Herbaceous Plants	2	2	3
ENG 111 or ENG 115	College Composition I or Technical Writing	3	0	3
HRT 207	Plant Pest Management*	2	2	3
SDV 101	Orientation to College Success	1	1	1
Total		13	7	16
Second Semester (Spring)				
HRT 245	Woody Plants	2	2	3
HRT 134 or HRT 269	Four Seasons Food Production or Professional Turf Care	2	2	3
HRT 260	Floral Design	2	2	3
HRT 231 or HRT 228	Planting Design I* or Turfgrass Management I	2	2	3
EEE	Humanities Elective	3	0	3
Total		11	8	15
Summer Semester				
HRT 197 or 297	Cooperative Education	0	45	3
PED	Physical Education	0	2	1
Total		0	47	4

Course Number	Course Title	Lecture Hours	Lab Hours	Credits
Third Semester (Fall)				
HRT 259	Arboriculture*	2	2	3
EEE	Social Science Elective	3	0	3
HRT 247 or BIO 215	Indoor Plants or Plant Life of Virginia	2	2	3
BIO 101	General Biology I	3	3	4
MTH 132	Business Mathematics	3	0	3
Total		12	9	16
Fourth Semester (Spring)				
CST 100	Public Speaking	3	0	3
HRT 115 or HRT 227	Plant Propagation or Professional Landscape Management	2	2	3
HRT 275	Landscape Construction and Maintenance *	2	2	3
EEE	Social Science Elective	3	0	3
HRT 226	Greenhouse Management	2	2	3
Total		12	6	16
Total Minimum Credits for AAS Degree				66

*Denotes a course with an industry-recognized credential.

Students are urged to follow the default pathways for this degree when making elective selections.

- [Horticulture Technology \(AAS\)](#)
- [Horticulture Technology - Specialization in Business and Entrepreneurship \(AAS\)](#)

Additional approved humanities and social science electives are listed at <http://www.vhcc.edu/GenEdCore>.

Horticulture Technology-Specialization in Business and Entrepreneurship

Associate of Applied Science

Program Coordinator: Ben Casteel • OTC 206 • 276-739-2441

Length: Four semesters (two years)

Purpose: The Horticulture Industry is one of the fastest growing industries in the VHCC service region. The Horticulture Technology Specialization: Business and Entrepreneurship program is designed to prepare students for employment or ownership in the horticulture industry or a related field. The specialization is designed to provide training for those who are currently working in the field and wish to improve their knowledge and skills. Students will not only develop skills applicable to nursery and garden center management, but they will also develop interpersonal and business management skills.

Occupational Objectives: Graduates of the program are prepared for managerial/supervisory or ownership level positions in the horticulture industry. These areas include greenhouse and nursery management, garden center operation, sales and marketing, and related industries.

Program Requirements: The curriculum is designed to integrate courses in nursery management, greenhouse management, turf management and related areas, general education, and electives. Students are advised to follow the curriculum as outlined in the College catalog and consult with their faculty advisor or counselor in planning their programs and selecting electives. Students planning to transfer should explore opportunities with their faculty advisor or counselor. Upon satisfactory completion of the four-semester curriculum, the student will be awarded an Associate of Applied Science Degree in Horticulture Technology – Specialization in Business and Entrepreneurship.

Course Number	Course Title	Lecture Hours	Lab Hours	Credits
First Semester (Fall)				
HRT 100	Introduction to Horticulture	2	2	3
BUS 100	Introduction to Business	3	0	3
HRT 207	Plant Pest Management*	2	2	3
ENG 111 or ENG 115	College Composition I or Technical Writing	3	0	3
EEE	Social Science Elective	3	0	3
SDV 101	Orientation to College Success	1	1	1
Total		14	5	16
Second Semester (Spring)				
CST 100	Public Speaking	3	0	3
BUS 116	Entrepreneurship	3	0	3
HRT 226	Greenhouse Management	2	2	3
HRT 231	Planting Design I*	2	2	3
EEE	Social Science Elective	3	0	3
Total		13	4	15
Summer Semester				
HRT 197 or 297	Cooperative Education	0	45	3
PED	Physical Education	0	2	1
Total		0	47	4

Course Number	Course Title	Lecture Hours	Lab Hours	Credits
Third Semester (Fall)				
HRT 225	Nursery and Garden Center Management	2	2	3
MTH 132	Business Mathematics	3	0	3
HRT 247 or BIO 215	Indoor Plants or Plant Life of Virginia	2	2-3	3
BIO 101	General Biology	3	3	4
HRT 259	Arboriculture	2	2	3
Total		12	9-10	16
Fourth Semester (Spring)				
MKT 100	Principles of Marketing	3	0	3
HRT 245	Woody Plants	2	2	3
HRT 275	Landscape Construction and Maintenance*	2	2	3
EEE	Humanities Elective	3	0	3
HRT 227	Professional Landscape Management	2	2	3
Total		12	6	15
Total Minimum Credits for AAS Degree				66

*Denotes a course with an industry-recognized credential.

Students are urged to follow the [recommended pathway](#) for this degree when choosing electives.

Additional approved humanities and social science electives are listed at <http://www.vhcc.edu/GenEdCore>.

Horticulture Technology-Specialization in Landscape and Hardscape Construction and Management

Associate of Applied Science

Program Coordinator: Ben Casteel • OTC 206 • 276-739-2441

Length: Four semesters (two years)

Purpose: The Horticulture industry is one of the fastest growing industries in the VHCC service region. The Horticulture Technology Specialization: Landscape and Hardscape Construction and Management program is designed to prepare students for employment in the horticulture industry or a related field and to provide training for those who are currently working in the field and wish to improve their knowledge and skills. Students will not only develop skills in landscape and hardscape construction, but they will also develop interpersonal and business management skills.

Occupational Objectives: Graduates of this program are prepared for managerial/supervisory level positions in areas that include landscape design and installation, grounds maintenance, sales and marketing, and related industries.

Program Requirements: The curriculum is designed to integrate courses in nursery management, greenhouse management, turf management and related areas, general education, and electives. Students are advised to follow the curriculum as outlined in the College catalog and consult with their faculty advisor or counselor in planning their programs and selecting electives. Students planning to transfer should explore opportunities with their faculty advisor or counselor. Upon satisfactory completion of the four-semester curriculum, the student will be awarded an Associate of Applied Science Degree in Horticulture Technology – Specialization in Landscape and Hardscape Construction and Management.

Course Number	Course Title	Lecture Hours	Lab Hours	Credits
First Semester (Fall)				
HRT 100	Intro. to Horticulture	2	2	3
HRT 205	Soils	2	2	3
HRT 246	Herbaceous Plants	2	2	3
ENG 111 or ENG 115	College Composition I or Technical Writing	3	0	3
HRT 207	Plant Pest Management*	2	2	3
SDV 101	Orientation to College Success	1	1	1
Total		12	9	16
Second Semester (Spring)				
HRT 115	Plant Propagation	2	2	3
HRT 269	Professional Turf Care	2	2	3
HRT 226	Greenhouse Management	2	2	3
HRT 231	Planting Design I*	2	2	3
EEE	Humanities Elective	3	0	3
Total		11	8	15
Summer Semester				
HRT 197 or 297	Cooperative Education	0	45	3
PED	Physical Education	0	2	1
Total		0	47	4

Course Number	Course Title	Lecture Hours	Lab Hours	Credits
Third Semester (Fall)				
HRT 259	Arboriculture*	2	2	3
EEE	Social Science Elective	3	0	3
BIO 215	Plant Life of Virginia	2	3	3
BIO 101	General Biology I	3	3	4
MTH 132	Business Mathematics	3	0	3
Total		13	8	16
Fourth Semester (Spring)				
CST 100	Public Speaking	3	0	3
HRT 245	Woody Plants	2	2	3
HRT 275	Landscape Construction and Maintenance *	2	2	3
EEE	Social Science Elective	3	0	3
HRT 227	Professional Landscape Management	2	2	3
Total		12	6	15
Total Minimum Credits for AAS Degree				66

*Denotes a course with an industry-recognized credential.

Students are urged to follow the [recommended pathway](#) for this degree when choosing electives.

Additional approved humanities and social science electives are listed at <http://www.vhcc.edu/GenEdCore>.

Agricultural Production and Management

Career Studies Certificate

Program Coordinator: Ben Casteel • OTC 206 • 276-739-2441

Purpose: Students will develop skills directly applicable to agricultural production and management. This Career Studies Certificate will focus on introductory animal, plant, and soils science and technology.

*Denotes a course with an industry-recognized credential.

Course Number	Course Title	Lecture Hours	Lab Hours	Credits
AGR 143	Introduction to Agribusiness and Financial Management	2	2	3
AGR 142	Introduction to Plant Science and Technology	2	2	3
HRT 205	Soils	2	2	3
HRT 207	Plant Pest Management*	2	2	3
AGR 242	Animal Production, Products, and Emerging Technologies	3	0	3
Total		11	8	15

Crop Production

Career Studies Certificate

Program Coordinator: Ben Casteel • OTC 206 • 276-739-2441

Purpose: To provide the knowledge and skills needed for growing organic food and plant crops. Also appropriate for personal growth and development.

*Denotes a course with an industry-recognized credential.

Course Number	Course Title	Lecture Hours	Lab Hours	Credits
HRT 100	Intro. To Horticulture	2	2	3
HRT 115	Plant Propagation	2	2	3
HRT 259	Arboriculture	2	2	3
HRT 134	Four Season Food Production	3	0	3
HRT 205	Soils	2	2	3
HRT 226	Greenhouse Management	2	2	3
Total		13	10	18

General Horticulture

Career Studies Certificate

Program Coordinator: Ben Casteel • OTC 206 • 276-739-2441

Length: Two semesters (one year)

Purpose: To provide the knowledge and skills needed for entry-level positions in horticulture. Also appropriate for personal growth and development.

*Denotes a course with an industry-recognized credential.

Course Number	Course Title	Lecture Hours	Lab Hours	Credits
HRT 100	Intro. To Horticulture	2	2	3
BIO 215	Plant Life of Virginia	2	3	3
HRT 246	Herbaceous Plants	2	2	3
HRT 205	Soils	2	2	3
HRT 245	Woody Plants	2	2	3
EEE	Horticulture Elective	2	2	3
Total		12	13	18

Indoor Plant Care

Career Studies Certificate

Program Coordinator: Ben Casteel • OTC 206 • 276-739-2441

Purpose: To provide the knowledge and skills needed for entry-level positions in horticulture. Also appropriate for personal growth and development.

*Denotes a course with an industry-recognized credential.

Course Number	Course Title	Lecture Hours	Lab Hours	Credits
HRT 100	Intro. to Horticulture	2	2	3
HRT 115	Plant Propagation	2	2	3
HRT 247	Indoor Plants	2	2	3
HRT 207	Plant Pest Management	2	2	3
HRT 226	Greenhouse Management	2	2	3
HRT 260	Floral Design	2	2	3
Total		12	12	18

Landscape Management

Career Studies Certificate

Purpose: Students will develop skills directly applicable to landscape management. This Career Studies Certificate will focus on introductory professional landscape, construction, maintenance, management, and design.

*Denotes a course with an industry-recognized credential.

Course Number	Course Title	Lecture Hours	Lab Hours	Credits
HRT 100	Introduction to Horticulture	2	2	3
HRT 245	Woody Plants	2	2	3
BIO 215	Plant Life of Virginia	2	3	3
HRT 227	Professional Landscape Management	2	2	3
HRT 275	Landscape Construction and Maintenance*	2	2	3
HRT 231	Planting Design I*	2	2	3
Total		12	13	18

Turfgrass Management

Career Studies Certificate

Purpose: Students will develop skills directly applicable to turf grass management. This Career Studies Certificate will focus on introductory professional turf care and maintenance.

*Denotes a course with an industry-recognized credential.

Course Number	Course Title	Lecture Hours	Lab Hours	Credits
HRT 100	Introduction to Horticulture	2	2	3
HRT 207	Plant Pest Management*	2	2	3
HRT 246	Herbaceous Plants	2	2	3
HRT 228	Turfgrass Management	2	2	3
HRT 275	Landscape Construction and Maintenance*	2	2	3
HRT 269	Professional Turf Care	2	2	3
Total		12	12	18

Curriculum & Program Requirements

Business Technology

Accounting

Associate of Applied Science

Program Coordinator: Ben Bullen • LRC 217 • 276-739-2452
Length: Four semesters (two years)

Purpose: With the rapid development of business and industry in Virginia, there is a great demand for qualified personnel who can accumulate, analyze, and interpret data, which is essential for reporting and decision-making. The Associate of Applied Science Degree curriculum in Accounting is designed primarily for persons who seek full-time employment in the accounting field immediately upon completion of the community college curriculum. Persons who are seeking their first employment in an accounting position in addition to those presently in accounting who are seeking a promotion may benefit from this curriculum.

Occupational Objectives: Accounting Clerk, Accounting Trainee, Accounting Technician, Junior Accountant, Accountant

Admission Requirements: In addition to the admission requirements established for the college entry into the Associate of Applied Science program in Accounting requires proficiency in high school English and mathematics. Students who are not proficient in English and mathematics will be required to correct their deficiencies in developmental courses. Proficiency in keyboarding is required. Students may enroll in AST 114 to upgrade keyboarding skills.

Program Requirements: The first two semesters (first year) of the Associate of Applied Science Degree curriculum in Accounting are similar to the AAS degree in Business Technology with a major in Management. In the second year, each student will pursue his specialty in Accounting. The curriculum will include technical courses in accounting, related areas, general education, and electives. Instruction will include both the theoretical concepts and practical applications needed for future success in accounting. Each student is urged to consult with his/her counselor and faculty advisor in planning their program and selecting their electives. Courses within this curriculum may be applied to a four-year program at the discretion of the admitting institution. Upon successful completion of the four-semester curriculum listed, the graduate will be awarded the Associate of Applied Science Degree in Business Technology with a major in Accounting.

Notes on Transfer: Associate of Applied Science Degree programs are designed primarily to provide occupational competence for employment. Upon the student's request, courses may be modified to provide possible transfer acceptability by four-year colleges and universities.

Course Number	Course Title	Lecture Hours	Lab Hours	Credits
Second Semester (Spring)				
ACC 212	Principles of Accounting II	4	0	4
BUS 200	Principles of Management	3	0	3
ITE 140	Spreadsheet Software	3	0	3
ACC 215	Computerized Accounting	4	0	4
EEE	Humanities Elective	3	0	3
Total		17	0	17
Third Semester (Fall)				
ACC 221	Intermediate Accounting I	4	0	4
ACC 231	Cost Accounting I	3	0	3
BUS 241	Business Law I	3	0	3
CST 100	Principles of Public Speaking	3	0	3
PSY 200	Principles of Psychology	3	0	3
Total		16	0	16
Fourth Semester (Spring)				
ACC 222	Intermediate Accounting II	4	0	4
ACC 261	Principles of Federal Taxation I	3	0	3
FIN 215	Financial Management	3	0	3
BUS 225	Applied Business Statistics	3	0	3
SDV 106	Preparation for Employment	1	0	1
EEE	General Education Elective	3	0	3
Total		17	0	17
Total Minimum Credits for AAS Degree				67

Footnote:

1. Prerequisite: Math 141.

Students are urged to follow the [recommended pathway](#) for this degree when choosing electives.

Additional approved humanities and social science electives are listed at <http://www.vhcc.edu/GenEdCore>.

Course Number	Course Title	Lecture Hours	Lab Hours	Credits
First Semester (Fall)				
SDV 101	Orientation to College Success	1	0	1
ENG 111	College Composition I	3	0	3
ACC 211	Principles of Accounting I	4	0	4
MTH 132	Business Mathematics	3	0	3
BUS 100	Introduction to Business	3	0	3
ITE 115	Introduction to Computer Applications and Concepts	3	0	3
Total		17	0	17

Administrative Support Technology - Executive Administrative Assistant Associate of Applied Science

Program Coordinator: Nan Jones • LRC 212 • 276-739-2465

Length: Four semesters (two years)

Purpose: With the rapid development of business and industry in Virginia, there is a great demand for qualified personnel in office occupations. The Associate of Applied Science Degree curriculum in Administrative Support Technology is designed to prepare persons for full-time employment immediately upon completion of the community college program. Persons who are seeking their first employment in an office position as well as those who are seeking a promotion may benefit from this curriculum.

Occupational Objectives: Office Specialist, Executive Secretary, Executive Administrative, Assistant, Office Manager, Related Office Occupations, Executive Office Assistant

Admissions Requirements: In addition to the admission requirements established for the college entry into the Associate of Applied Science Degree curriculum in Administrative Support Technology requires proficiency in high school English and mathematics. Students who are not proficient in English and mathematics will be required to correct their deficiencies in developmental courses.

Advanced Placement: Students who have completed training in Office Technology courses at the high school level or who have had appropriate occupational experience may apply for advance placement with credit. Credit by examination will be the basis upon which such advance placement will be granted. Students currently holding either the CPS or PLS certification may also be granted up to 25 semester hours of credit. The student may then elect to enroll in an accelerated program to complete the AAS degree requirements in less than two years or take appropriate advanced courses for further occupational preparation.

Program Requirements: The two-year curriculum in Administrative Support Technology combines instruction in the many areas required for competence as a secretary in business, government, industry, law offices, and other organizations. The curriculum will include courses in Administrative Support Technology, related areas, general education and electives. Students are advised to consult with their faculty advisor and counselor in planning their programs. Upon satisfactory completion of the four semester curriculum listed below, the graduate will be awarded the Associate of Applied Science Degree in Business Technology with a major in Administrative Support Technology, Executive Administrative Assistant.

Notes on Transfer: Associate of Applied Science Degree programs are designed primarily to provide occupational competence for employment entry. Upon the student's request, courses may be modified to provide possible transfer acceptability by four-year colleges and universities.

Course Number	Course Title	Lecture Hours	Lab Hours	Credits
First Semester (Fall)				
ENG 111	College Composition I	3	0	3
SDV 101	Orientation to College Success	1	0	1
AST 101	¹ Keyboarding I	4	0	4
AST 107	Proofreading and Editing	3	0	3
EEE	Social Science Elective	3	0	3
MTH 132	Business Mathematics	3	0	3
Total		17	0	17

Course Number	Course Title	Lecture Hours	Lab Hours	Credits
Second Semester (Spring)				
AST 102	Keyboarding II	4	0	4
AST 171	Intro. To Call Center Services	3	0	3
AST 141	Word Processing I	3	0	3
AST 137	Records Management	3	0	3
PED	Physical Education	0	2-3	1
EEE	Social Science Elective	3	0	3
Total		16	2-3	17
Third Semester (Fall)				
EEE	Humanities	3	0	3
AST 205	Business Communications	3	0	3
AST 238	Word Processing Advanced Operations	3	0	3
AST 232	Microcomputer Office Applications	3	0	3
AST 230	Intro. To Office Technology	3	0	3
AST 154	Voice Recognition Applications	2	0	2
Total		17	0	17
Fourth Semester (Spring)				
BUS 241	Business Law I	3	0	3
AST 236	Specialized Software Applications	3	0	3
AST 243	Office Administration I	3	0	3
AST 206	Professional Development	3	0	3
AST 136	Office Record Keeping	3	0	3
Total		15	0	15
Total Minimum Credits for AAS Degree				66

Footnote:

1. Students who pass the Keyboarding Exemption Test will be granted credit for this course. Testing date is published in the [class schedule](#).

Students are urged to follow the [recommended pathway](#) for this degree when choosing electives.

Additional approved humanities and social science electives are listed at <http://www.vhcc.edu/GenEdCore>.

Administrative Support Technology - Specialization in Legal Assisting

Associate of Applied Science Degree

Program Coordinator: Nan Jones • LRC 212 • 276-739-2465

Length: Four Semesters (two years)

Purpose: The curriculum is designed to provide an individual with a sufficient level of knowledge, understanding, and proficiency to perform specific tasks in a legal environment. A legal assistant will have a basic understanding of the general processes of American law, and will have the knowledge and proficiency to perform specific tasks under the supervision of a lawyer.

Occupational Objectives: The Administrative Support Technology with a Specialization in Legal Assisting will help prepare you for a wide range of entry level positions in the legal fields with opportunities in: Law Firms, Private Corporations, Mortgage Companies, Government, Banks, Administrative Agencies, Title Insurance Companies

Admissions Requirements: In addition to the admission requirements established for the college, entry into the Associate of Applied Science Degree curriculum in Administrative Support Technology requires proficiency in high school English and mathematics. Students who are not proficient in English and mathematics will be required to correct their deficiencies in developmental courses.

Advanced Placement: Students who have completed training in Office Technology courses at the high school level or who have had appropriate occupational experience may apply for advance placement with credit. Credit by examination will be the basis upon which such advance placement will be granted. Students currently holding either the CPS or PLS certification may also be granted up to 25 semester hours of credit. The student may then elect to enroll in an accelerated program to complete the AAS degree requirements in less than two years or take appropriate advanced courses for further occupational preparation.

Program Requirements: The two-year curriculum in Administrative Support Technology combines instruction in the many areas required for competence as a legal assistant in business, government, industry, law offices, and other organizations. The curriculum will include courses in Administrative Support Technology, specialized courses in legal assisting, general education and electives. Students are advised to consult with their faculty advisor and counselor in planning their programs. Upon satisfactory completion of the four semester curriculum listed below, the graduate will be awarded the Associate of Applied Science Degree in Business Technology with a major in Administrative Support Technology - Specialization in Legal Assisting.

Notes on Transfer: Associate of Applied Science Degree programs are designed primarily to provide occupational competence for employment entry. Upon the student's request, courses may be modified to provide possible transfer acceptability by four-year colleges and universities.

Course Number	Course Title	Lecture Hours	Lab Hours	Credits
Second Semester (Spring)				
AST 102	Keyboarding II	4	0	4
AST 137	Records Management	3	0	3
LGL EEE	LGL Elective	3	0	3
AST 141	Word Processing I	3	0	3
EEE	Social Science Elective	3	0	3
Total		16	0	16
Third Semester (Fall)				
AST 154	Voice Recognition Applications	2	0	2
AST 232	Microcomputer Office Applications	3	0	3
AST 230	Intro. To Office Technology	3	0	3
LGL EEE	LGL Elective	3	0	3
AST 205	Business Communications	3	0	3
AST 238	Word Processing Advanced Operations	3	0	3
Total		17	0	17
Fourth Semester (Spring)				
AST 236	Specialized Software Applications	3	0	3
EEE	Social Science Elective	3	0	3
AST 243	Office Administration	3	0	3
AST 206	Professional Development	3	0	3
EEE	Humanities Elective	3	0	3
AST 136	² Office Record Keeping	3	0	3
Total		18	0	18
Total Minimum Credits for AAS Degree				68

Footnotes:

1. Students who pass the Keyboarding Exemption Test will be granted credit for this course. Testing date is published in the [class schedule](#).
2. ACC 211 should be taken in place of AST 136 if you intend to transfer.

Students are urged to follow the [recommended pathway](#) for this degree when choosing electives.

Additional approved humanities and social science electives are listed at <http://www.vhcc.edu/GenEdCore>.

Course Number	Course Title	Lecture Hours	Lab Hours	Credits
First Semester (Fall)				
ENG 111	College Composition I	3	0	3
SDV 101	Orientation to College Success	1	0	1
AST 101	¹ Keyboarding I	4	0	4
MTH 132	Business Mathematics	3	0	3
LGL EEE	LGL Elective	3	0	3
AST 107	Proofreading and Editing	3	0	3
Total		17	0	17

Administrative Support Technology - Specialization in Medical Office Specialist

Associate of Applied Science Degree

Program Coordinator: Nan Jones • LRC 212 • 276-739-2465

Length: Four semesters (two years)

Purpose: This curriculum is designed to provide specialized administrative support technology education in the medical field. It is recommended for students interested in a professional career as a medical office assistant in a private medical practice, in a hospital setting, and in other health care organizations. In addition, the Administrative Support Technology curriculum offers basic skills training and advanced training complementary to the information systems demands of the electronic office. Included are skills in word processing, microcomputer usage, and human relations.

Occupational Objectives: Medical Office Assistant, Medical Secretary/Administrative Assistant, Medical Transcriptionist, Medical Receptionist and Information Clerk, Medical Records and Health Information Technician, Hospital Ward or Office Clerk

Admissions Requirements: In addition to the admission requirements established for the college, entry into the Associate of Applied Science Degree curriculum in Administrative Support Technology - Medical Office Specialist requires proficiency in high school English and mathematics. Students who are not proficient in English and mathematics will be required to correct their deficiencies in developmental courses.

Advanced Placement: Students who have completed training in Office Technology courses at the high school level or who have had appropriate occupational experience may apply for advance placement with credit. Credit by examination will be the basis upon which such advance placement will be granted. Students currently holding either the CPS or PLS certification may also be granted up to 25 semester hours of credit. The student may then elect to enroll in an accelerated program to complete the AAS degree requirements in less than two years or take appropriate advanced courses for further occupational preparation.

Program Requirements: The two-year curriculum in Administrative Support Technology combines instruction in the many areas required for competence as a secretary in business, government, industry, law offices, and other organizations. The curriculum will include courses in Administrative Support Technology, medical transcription, medical terminology, general education and electives. Students are advised to consult with their faculty advisor and counselor in planning their programs. Upon satisfactory completion of the four semester curriculum listed below, the graduate will be awarded the Associate of Applied Science Degree in Business Technology with a major in Administrative Support Technology - Medical Office Specialist.

Notes on Transfer: Associate of Applied Science Degree programs are designed primarily to provide occupational competence for employment entry. Upon the student's request, courses may be modified to provide possible transfer acceptability by four-year colleges and universities.

Course Number	Course Title	Lecture Hours	Lab Hours	Credits
First Semester (Fall)				
ENG 111	College Composition I	3	0	3
SDV 101	Orientation to College Success	1	0	1
AST 101	¹ Keyboarding I	4	0	4
HIM 113	Medical Terminology and Disease Processes I	3	0	3
AST 107	Proofreading and Editing	3	0	3
EEE	Humanities Elective	3	0	3
Total		17	0	17

Course Number	Course Title	Lecture Hours	Lab Hours	Credits
Second Semester (Spring)				
AST 102	Keyboarding II	4	0	4
AST 137	Records Management	3	0	3
MTH 132	Business Mathematics	3	0	3
AST 141	Word Processing I	3	0	3
AST 176	Medical Office/Unit Management	3	0	3
Total		16	0	16
Third Semester (Fall)				
AST 232	Microcomputer Office Applications	3	0	3
AST 154	Voice Recognition Applications	2	0	2
AST 230	Intro. To Office Technology	3	0	3
AST 271	Medical Office Procedures I	3	0	3
AST 205	Business Communications	3	0	3
AST 238	Word Processing Advanced Operations	3	0	3
Total		17	0	17
Fourth Semester (Spring)				
EEE	Social Science Elective	3	0	3
AST 236	Specialized Software Applications	3	0	3
EEE	Social Science Elective	3	0	3
AST 243	Office Administration I	3	0	3
AST 206	Professional Development	3	0	3
AST 136	Office Record Keeping	3	0	3
Total		18	0	18
Total Minimum Credits for AAS Degree				68

Footnote:

1. Students who pass the Keyboarding Exemption Test will be granted credit for this course. Testing date is published in the [class schedule](#).

Students are urged to follow the [recommended pathway](#) for this degree when choosing electives

Additional approved humanities and social science electives are listed at <http://www.vhcc.edu/GenEdCore>.

Information Systems Technology

Associate of Applied Science Degree

Program Coordinator: Tamara Lasley • LRC 215 • 276-739-2503

Length: Four semesters (two years)

Purpose: The Associate of Applied Science program is designed to provide a broad base of information systems and computer software experience, which will prepare the graduate to enter the work force upon graduation. With the rapid development of business and industrial applications of information systems, there is a growing demand of qualified personnel in this area.

Occupational Objectives: Software Applications Programmer, Database Associate, Program Tester, Web Page Developer

Admission Requirements: In addition to the admission requirements established for the college entry into the Associate of Applied Science Degree Program in Information Systems Technology requires proficiency in high school English and mathematics. Students who are not proficient in English and mathematics will be required to correct their deficiencies in developmental courses. Keyboarding skills are highly recommended. Students may enroll in AST 114 or 101 to upgrade keyboarding skills.

Program Requirements: The curriculum includes courses in information systems, programming, web page design, help desk topics, productivity software, database management, accounting, business and related areas as well as general education. Instruction covers both the theoretical concepts and practical applications needed for future success in business and industry. Each student is urged to consult carefully with the counselor and a faculty advisor. Some courses within this curriculum may be applied to a four-year college program at the discretion of the admitting institution. Upon satisfactory completion of the four-semester curriculum listed, the graduate will be awarded the Associate of Applied Science Degree in Information Systems Technology.

Notes on Transfer: Associate of Applied Science Degree programs are designed primarily to provide occupational competence for employment entry. Upon the student's request, courses may be modified to provide possible transfer acceptability by four-year colleges and universities.

Course Number	Course Title	Lecture Hours	Lab Hours	Credits
First Semester (Fall)				
ENG 111	College Composition I	3	0	3
ITD 110	Web Page Design I	3	0	3
ITE 115 or 119	Intro. to Computer Applications & Concepts or Information Literacy	3	0	3
ITE 182	User Support/Help Desk Principles	3	0	3
MTH 132	Business Mathematics	3	0	3
SDV 101	Orientation to College Success	1	0	1
Total		16	0	16
Second Semester (Spring)				
ENG 112 or CST 100	College Composition II or Principles of Public Speaking	3	0	3
BUS 225	¹ Applied Business Statistics	3	0	3
EEE	Humanities Elective	3	0	3
ITP 100	Software Design	3	0	3
ITE 140	Spreadsheet Software	3	0	3
Total		15	0	15

Course Number	Course Title	Lecture Hours	Lab Hours	Credits
Third Semester (Fall)				
ITE 150	Desktop Database Software	4	0	4
ITN 154	Networking Fundamentals (CISCO I)	3	2	4
ITP 120	Java Programming I	4	0	4
ITP 140	Client Side Scripting	3	0	3
ECO 201 or ECO 202	Principles of Economics I or II	3	0	3
Total		17	2	18
Fourth Semester (Spring)				
ITD 132	Structured Query Language	4	0	4
ITN 113	Active Directory (Windows Server)	3	0	3
ITP 240	Server Side Scripting	3	0	3
EEE	Social Science Elective	3	0	3
EEE	Approved IT Elective or Co-op Education	3	0	3
SDV 106	Preparation for Employment	1	0	1
Total		17	0	17
Total Minimum Credits for AAS Degree				66

Footnote:

1. Prerequisite: MTH 132.

VHCC policy requires that students must keep their IT skills up to date. Therefore, IT courses transferred from other institutions and IT courses completed at VHCC must not be more than 5 years old for IT majors. If a student can demonstrate competency, the student may appeal the rule by requesting departmental approval from the lead faculty in the IT Department.

Students are urged to follow the [recommended pathway](#) for this degree when choosing electives.

Additional approved humanities and social science electives are listed at <http://www.vhcc.edu/GenEdCore>.

Information Systems Technology - Specialization in Networking

Associate of Applied Science Degree

Program Coordinators: Tamara Lasley • LRC 215 • 276-739-2503

Length: Four semesters (two years)

Purpose: The Associate of Applied Science program is designed to provide a broad base of information systems and computer software experiences, which will prepare the graduate to enter the work force upon graduation. With the rapid development of business and industrial applications of information systems, there is a growing demand of qualified personnel in this area.

Occupational Objectives: Network Administrator, Help Desk Technician, Computer Support Specialist

Admission Requirements: In addition to the admission requirements established for the college, entry into the Associate of Applied Science Degree Program in Information Systems Technology - Specialization in Networking requires proficiency in high school English and mathematics. Students who are not proficient in English and mathematics will be required to correct their deficiencies in developmental courses. Keyboarding skills are highly recommended. Students may enroll in AST 114 or 101 to upgrade keyboarding skills.

Program Requirements: The curriculum includes courses in information systems, programming, operating systems, hardware, troubleshooting, server administration, help desk topics, productivity software, database management, accounting, business and related areas as well as general education. Instruction covers both the theoretical concepts and practical applications needed for future success in business and industry. Courses in operating systems and PC hardware prepare students for A+ certification. Each student is urged to consult carefully with the counselor and a faculty advisor. Some courses within this curriculum may be applied to a four-year college program at the discretion of the admitting institution. Upon satisfactory completion of the four-semester curriculum listed, the graduate will be awarded the Associate of Applied Science Degree in Information Systems Technology - Specialization in Networking.

Notes on Transfer: Associate of Applied Science Degree programs are designed primarily to provide occupational competence for employment entry. Upon the student's request, courses may be modified to provide possible transfer acceptability by four-year colleges and universities.

Course Number	Course Title	Lecture Hours	Lab Hours	Credits
Third Semester (Fall)				
EEE	Approved IT Elective or Co-op Education	3	0	3
ITP 120	Java Programming I	4	0	4
ITN 156	Basic Switching & Routing (CISCO III)	3	2	4
MTH 132	Business Mathematics	3	0	3
ECO 201 or ECO 202	Principles of Economics I or II	3	0	3
Total		16	2	17
Fourth Semester (Spring)				
ITD 132	Structured Query Language	4	0	4
ITN 113	Active Directory (Windows Server 2008)	3	0	3
ITN 157	WAN Technologies (CISCO IV)	3	2	4
BUS 225	Applied Business Statistics	3	0	3
EEE	Humanities Elective	3	0	3
SDV 106	Preparation for Employment	1	0	1
Total		17	2	18
Total Minimum Credits for AAS Degree				68

Footnote:

1. Prerequisite: MTH 132.

VHCC policy requires that students must keep their IT skills up to date. Therefore, IT courses transferred from other institutions and IT courses completed at VHCC must not be more than 5 years old for IT majors. If a student can demonstrate competency, the student may appeal the rule by requesting departmental approval from the lead faculty in the IT Department.

Students are urged to follow the [recommended pathway](#) for this degree when choosing electives.

Additional approved humanities and social science electives are listed at <http://www.vhcc.edu/GenEdCore>.

Course Number	Course Title	Lecture Hours	Lab Hours	Credits
First Semester (Fall)				
ENG 111	College Composition I	3	0	3
ITE 115 or 119	Intro. to Computer Applications & Concepts or Information Literacy	3	0	3
ITE 182	User Support/Help Desk Principles	3	0	3
ITN 106	Micro. Operating Systems	3	0	3
ITN 154	Networking Fundamentals (CISCO I)	3	2	4
SDV 101	Orientation to College Success	1	0	1
Total		16	2	17
Second Semester (Spring)				
EEE	Social Science Elective	3	0	3
ITP 100	Software Design	3	0	3
ITE 140	Spreadsheet Software	3	0	3
ITN 107	PC Hardware & Troubleshooting	3	0	3
ITN 155	Switching, Wireless & WAN Technologies (CISCO II)	3	2	4
Total		15	2	16

Management

Associate of Applied Science Degree

Program Coordinator: Ben Bullen • LRC 217 • 276-739-2452

Length: Four semesters (two years)

Purpose: With the rapid development of business and industry in Virginia, there is a great demand for qualified management personnel to assist in this economic growth. The Associate of Applied Science Degree curriculum in Management is designed primarily for persons who seek full-time employment in various managerial positions immediately upon completion of the community college curriculum. Persons who are seeking their first employment in a managerial position as well as those presently in management who are seeking a promotion may benefit from this curriculum.

Occupational Objectives: Management Trainee, Manager of Small Business, Industrial Supervisor, Branch Manager, Department Head

Admission Requirements: In addition to the admission requirements established for the college, entry into the Associate of Applied Science Degree program in Management requires proficiency in high school English and mathematics. Students who are not proficient in English and mathematics will be required to correct their deficiencies in developmental courses. Proficiency in keyboarding is highly recommended. Students may enroll in AST 114 to upgrade keyboarding skills.

Program Requirements: The first two semesters (first year) of the Associate of Applied Science Degree curriculum in Management are similar to the AAS degree in Business Technology with a major in Accounting. In the second year each student will pursue his or her specialty in management. The curriculum will include technical courses in business and industrial management, courses in related areas, general education and electives. Instruction will include both the theoretical concepts and practical applications needed for future success in a management career. Upon successful completion of the curriculum, the student will be awarded the Associate of Applied Science Degree in Business Technology with a major in Management.

Notes on Transfer: Associate of Applied Science Degree programs are designed primarily to provide occupational competence for employment entry. Upon the student's request, courses may be modified to provide possible transfer acceptability by four-year colleges and universities.

Course Number	Course Title	Lecture Hours	Lab Hours	Credits
Third Semester (Fall)				
BUS 241	Business Law I	3	0	3
BUS 205	Human Resource Management	3	0	3
MKT 100	Principles of Marketing	3	0	3
ECO 202	Principles of Economics II	3	0	3
EEE	Degree Related Elective	3	0	3
EEE	Humanities Elective	3	0	3
Total		18	0	18
Fourth Semester (Spring)				
BUS 242	Business Law II	3	0	3
FIN 215	Financial Management	3	0	3
PSY 120	Human Relations	3	0	3
BUS 225	¹ Applied Business Statistics	3	0	3
SDV 106	Preparation for Employment	1	0	1
BUS 197 or 297	Co-op Education	3	0	3
Total		16	0	16
Total Minimum Credits for AAS Degree				67

Footnote:

1. Prerequisite: MTH 132.

Students are urged to follow the [recommended pathway](#) for this degree when choosing electives.

Additional approved humanities and social science electives are listed at <http://www.vhcc.edu/GenEdCore>.

Course Number	Course Title	Lecture Hours	Lab Hours	Credits
First Semester (Fall)				
ACC 211	Principles of Accounting	4	0	4
ENG 111	College Composition I	3	0	3
BUS 100	Introduction to Business	3	0	3
MTH 132	Business Mathematics	3	0	3
ITE 115	Introduction to Computer Applications and Concepts	3	0	3
SDV 101	Orientation to College Success	1	0	1
Total		17	0	17
Second Semester (Spring)				
ACC 212	Principles of Accounting II	4	0	4
BUS 200	Principles of Management	3	0	3
CST 100	Principles of Public Speaking	3	0	3
ITE 140	Spreadsheet Software	3	0	3
ECO 201	Principles of Economics I	3	0	3
Total		16	0	16

Accounting and Information Systems Technology

Certificate

Program Coordinator: Ben Bullen • LRC 217 • 276-739-2452

Length: Two semesters (one year)

Purpose: This certificate program in Accounting and Information Systems Technology is designed to provide individuals with basic skills in accounting and computer information systems which will enable them to obtain employment immediately upon completion of the two-semester program. With the present growth in this area, there is a need for personnel who possess basic skills in accounting and personal computers who are unable to pursue a two-year degree program.

Occupational Objectives: Computerized Accounting Clerk, Computerized Inventory Clerk, Computerized Payroll Clerk, Computerized Bookkeeping Clerk, Computerized Information Input Clerk

Admission Requirements: In addition to the admission requirements established for the college, entry into the Accounting and Information Systems Technology program requires proficiency in high school English and mathematics. Students who are not proficient in English and mathematics will be required to correct their deficiencies in developmental courses.

Program Requirements: Proficiency in keyboarding is highly recommended. Students may enroll in AST 114 to upgrade keyboarding skills. Upon successful completion of the curriculum, the student will be awarded a Certificate in Accounting and Information Systems Technology.

Course Number	Course Title	Lecture Hours	Lab Hours	Credits
First Semester (Fall)				
ACC 211	Principles of Accounting I	4	0	4
ITE 115	Intro. to Computer Applications and Concepts	3	0	3
MTH 132	Business Mathematics	3	0	3
ENG 111	College Composition I	3	0	3
BUS 100	Introduction to Business	3	0	3
SDV 101	Orientation to College Success	1	0	1
Total		17	0	17
Second Semester (Spring)				
ACC 212	Principles of Accounting II	4	0	4
ACC 215	Computerized Accounting	4	0	4
BUS 241	Business Law	3	0	3
ITE 140	Spreadsheet Software	3	0	3
CST 100	Principles of Public Speaking	3	0	3
Total		17	0	17
Total Minimum Credits required for Certificate				34

Clerical Studies

Certificate

Program Coordinator: Nan Jones • LRC 212 • 276-739-2465

Length: Two semesters (one year)

Purpose: With the increased development of business, industry, and government in Virginia, there is a great need for qualified personnel in the clerical area of office occupations. The clerical program is designed to train personnel for full-time employment upon completion of the course requirements. In addition, the curriculum furnishes the student the opportunity to elect to transfer into the AAS degree program if she/he so wishes.

Occupational Objectives: Receptionist, Records Clerk, Typist, Office Clerk, Office Assistant

Admission Requirements: A student eligible for admission to the College can normally be considered for admission to Clerical Studies curriculum. Proficiency in high school English and mathematics is required. Students who are not proficient in English and mathematics will be required to correct their deficiencies in developmental courses.

Program Requirements: The two-semester curriculum provides training in keyboarding, filing, word processing, and office record keeping or business electives. In addition to this, the curriculum includes supportive courses as a preparation for entrance into the job market. Upon successful completion of the curriculum, the student will be awarded a Certificate in Clerical Studies.

Course Number	Course Title	Lecture Hours	Lab Hours	Credits
First Semester (Fall)				
ENG 111	College Composition I	3	0	3
SDV 101	Orientation to College Success	1	0	1
AST 101	¹ Keyboarding I	4	0	4
AST 107	Proofreading and Editing	3	0	3
MTH 132	Business Mathematics	3	0	3
AST 154	Voice Recognition Applications	2	0	2
Total		16	0	16
Second Semester (Spring)				
AST 102	Keyboarding II	4	0	4
AST 171	Intro. To Call Center Services	3	0	3
AST 137	Records Management	3	0	3
AST 141	Word Processing I	3	0	3
AST 136	Office Record Keeping	3	0	3
Total		16	0	16
Total Minimum Credits required for Certificate				32

Footnote:

1. Students who pass the Keyboarding Exemption Test will be granted credit for this course. Testing date is published in the [class schedule](#).

Health Information Management

Certificate

Program Coordinator: Nan Jones • LRC 212 • 276-739-2465

Length: Two semesters (one year)

Purpose: With the increased requirements of insurance and medical agencies there is a need for qualified personnel in medical offices. This program is designed to train personnel for full-time employment upon completion of the course requirements. In addition, the curriculum furnishes the student the opportunity to take courses that prepare them for certification exams.

Occupational Objectives: Medical Records Worker, Medical Coder, Medical Office Clerk

Admissions Requirements: A student eligible for admission to the College can normally be considered for admission to Health Information Management. Proficiency in high school English and mathematics is required. Students who are not proficient in English and mathematics will be required to correct their deficiencies in developmental courses.

Program Requirements: The two-semester curriculum provides training in medical terminology, health records management, coding for health records, and health record applications. It is highly recommended that students who are not proficient in Keyboarding take AST 114, Keyboarding for Information Processing.

Course Number	Course Title	Lecture Hours	Lab Hours	Credits
First Semester (Summer)				
ENG 111	College Composition I	3	0	3
SDV 101	Orientation to College Success	1	0	1
ITE 115	Introduction to Computer Applications and Concepts	3	0	3
Total		7	0	7
Second Semester (Fall)				
HIM 130	Healthcare Information Systems	3	0	3
HIM 253	Health Records Coding I	4	0	4
HIM 113	Medical Terminology & Disease Processes I	3	0	3
HIM 150	Health Records Management	3	0	3
HIM 151	Reimbursement Issues	2	0	2
Total		15	0	15
Third Semester (Spring)				
HIM 114	Medical Terminology & Disease Processes II	3	0	3
HIM 254	Advanced Coding and Reimbursement	4	0	4
HIM163	Anatomy and Physiology for Adm. Health. Prof.	3	0	3
HIM 198	¹ Seminar and Project	1	0	1
MTH 132	Business Mathematics	3	0	3
Total		13	0	14
Total Minimum Credits Required for Certificate				36

Footnote:

1. Seminar and Project is designed to facilitate successful completion of licensure assessment.

Networking A+

Certificate

Program Coordinators: Tamara Lasley • LRC 215 • 276-739-2503

Length: Three semesters
(1 year beginning in summer term)

Purpose: With the increased development of business, industry, and government in Virginia, there is a need for qualified personnel in information systems technology and networking. This certificate program is designed to train personnel for full-time employment upon completion of the course requirements. In addition, the curriculum furnishes the student the option to transfer into the AAS degree programs.

Occupational Objectives: Network Technician, Help Desk Technician, Computer Support Technician

Admission Requirements: A student eligible for admission to the College can normally be considered for admission to the Networking Certificate. Proficiency in high school English and mathematics is required. Students who are not proficient in English and mathematics will be required to correct their deficiencies in developmental courses.

Program Requirements: The three-semester curriculum provides training in information systems, A+, help desk and Windows server. In addition, the curriculum includes supportive courses as a preparation for entrance into the job market. Upon successful completion of the curriculum, the student will be awarded a Certificate in Networking.

Course Number	Course Title	Lecture Hours	Lab Hours	Credits
Summer Session				
ENG 111	College Composition I	3	0	3
ITE 115 or 119	Intro. to Computer Applications & Concepts or Information Literacy	3	0	3
Total		6	0	6
First Semester (Fall)				
SDV 101	Orientation to College Success	1	0	1
MTH 132	Business Mathematics	3	0	3
ITN 106	Micro. Operating Systems	3	0	3
ITN 154	Networking Fundamentals (CISCO I)	3	2	4
ITE 182	User Support/Help Desk Principles	3	0	3
Total		14	0	14
Second Semester (Spring)				
ITE 140	Spreadsheet Software or Approved IST elective	3	0	3
ITP 100	Software Design	3	0	3
ITN 107	PC Hardware & Troubleshooting	3	0	3
ITN 113	Active Directory (Windows Server 2008)	3	0	3
EEE	Social Science Elective	3	0	3
Total		15	0	15
Total Minimum Credits Required for Certificate				35

VHCC policy requires that students must keep their IT skills up to date. Therefore, IT courses transferred from other institutions and IT courses completed at VHCC must not be more than 5 years old for IT majors. If a student can demonstrate competency, the student may appeal the rule by requesting departmental approval from the lead faculty in the IT Department.

Students are urged to follow the [recommended pathway](#) for this certificate when choosing electives.

Additional approved humanities and social science electives are listed at <http://www.vhcc.edu/GenEdCore>.

Supervision and Management

Certificate

Program Coordinator: Ben Bullen • LRC 217 • 276-739-2452

Length: Two semesters (one year)

Purpose: With increased development of business, industry, and government in Virginia, there is a great need for qualified management personnel. The supervision and management program is designed to train personnel for full-time employment upon completion of the course requirements. In addition, the curriculum furnishes the student the option to transfer into the AAS degree Management program.

Occupational Objectives: Entry Level Management, Industrial Supervision, Small Business Management

Admission Requirements: A student eligible for admission to the College can normally be considered for admission to Supervision and Management certificate curriculum. Proficiency in high school English and mathematics is required. Students who are not proficient in English and mathematics will be required to correct their deficiencies in developmental courses.

Program Requirements: The one year curriculum provides training in general business, accounting, management, and information systems. In addition to this, the curriculum includes supportive courses as a preparation for entrance into the job market. Upon successful completion of the curriculum, the student will be awarded a Certificate in Supervision and Management.

Course Number	Course Title	Lecture Hours	Lab Hours	Credits
First Semester (Fall)				
ACC 211	Principles of Accounting I	4	0	4
BUS 100	Introduction to Business	3	0	3
BUS 205	Human Resource Management	3	0	3
ENG 111	College Composition I	3	0	3
MTH 132	Business Mathematics	3	0	3
SDV 101	Orientation to College Success	1	0	1
Total		17	0	17
Second Semester (Spring)				
BUS 200	Principles of Management	3	0	3
BUS 241	Business Law	3	0	3
BUS 225	¹ Applied Business Statistics	3	0	3
CST 100	Principles of Public Speaking	3	0	3
ITE 115	Intro. to Computer Applications and Concepts	3	0	3
PSY 120	² Human Relations	3	0	3
Total		18	0	18
Total Minimum Credits Required for Certificate				35

Footnotes:

1. Prerequisite: MTH 132.
2. Psychology 200 will substitute for PSY 120.

Web Programming and Design

Certificate

Program Coordinators: Tamara Lasley • LRC 215 • 276-739-2503

Length: Three semesters
(1 year beginning in summer term)

Purpose: With the increased development of business, industry, and government in Virginia, there is a need for qualified personnel in information systems technology and web design. This certificate program is designed to train personnel for full-time employment upon completion of the course requirements. In addition, the curriculum furnishes the student the option to transfer into the AAS degree programs.

Occupational Objectives: Web Programmer, Web Designer, Support for Web Developer

Admission Requirements: A student eligible for admission to the College can normally be considered for admission to Web Design Certificate. Proficiency in high school English and mathematics is required. Students who are not proficient in English and mathematics will be required to correct their deficiencies in developmental courses.

Program Requirements: The two-semester curriculum provides training in information systems, web design, and graphics. In addition, the curriculum includes supportive courses as a preparation for entrance into the job market. Upon successful completion of the curriculum, the student will be awarded a Certificate in Web Design.

Course Number	Course Title	Lecture Hours	Lab Hours	Credits
Summer Session				
ENG 111	College Composition I	3	0	3
ITE 115 or 119	Intro. to Computer Applications & Concepts or Information Literacy	3	0	3
Total		6	0	6
First Semester (Fall)				
SDV 101	Orientation to College Success	1	0	1
MTH 132	Business Mathematics	3	0	3
ITD 110	Web Page Design I	3	0	3
EEE	Approved IT Elective	3	0	3
ITP 140	Client Side Scripting	3	0	3
Total		13	0	13
Second Semester (Spring)				
ENG 112 or CST 100	College Composition II or Principles of Public Speaking	3	0	3
ITE 140	Spreadsheet Software	3	0	3
ITP 100	Software Design or approved IT elective	3	0	3
ITP 240	Server Side Scripting	3	0	3
EEE	Social Science elective	3	0	3
Total		15	0	15
Total Minimum Credits Required for Certificate				34

VHCC policy requires that students must keep their IT skills up to date. Therefore, IT courses transferred from other institutions and IT courses completed at VHCC must not be more than 5 years old for IT majors. If a student can demonstrate competency, the student may appeal the rule by requesting departmental approval from the program coordinator.

Students are urged to follow the [recommended pathway](#) for this certificate when choosing electives.

Additional approved humanities and social science electives are listed at <http://www.vhcc.edu/GenEdCore>.

Culinary Arts

Career Studies Certificate

Program Coordinator: Ben Bullen • LRC 217 • 276-739-2452

Course Number	Course Title	Lecture Hours	Lab Hours	Credits
HRI 106	Principles of Culinary Arts I	3	0	3
HRI 107	Principles of Culinary Arts II	3	0	3
HRI 128	Principles of Baking	2	3	3
HRI 158	Sanitation and Safety	3	0	3
Total		11	3	12

CISCO Networking and A+

Career Studies Certificate

Program Coordinator: Tamara Lasley • LRC 215 • 276-739-2503

Course Number	Course Title	Lecture Hours	Lab Hours	Credits
ITN 106	Microcomputer Operating Systems	3	0	3
ITN 107	Pers. Computer Hardware and Troubleshooting	3	0	3
ITN 154	Networking Fundamentals	4	0	4
ITN 155	Introductory Routing	4	0	4
ITN 156	Basic Switching and Routing	4	0	4
ITN 157	WAN Technologies	4	0	4
Total		22	0	22

Footnotes:

1. ITN 106 and ITN 107 prepares student for the A+ certification.
2. ITN 154, ITN 155, ITN 156, and ITN 157 prepares student for CCNA CISCO Certified Network Associate.

Computer Programming

Career Studies Certificate

Program Coordinator: Tamara Lasley • LRC 215 • 276-739-2503

Course Number	Course Title	Lecture Hours	Lab Hours	Credits
ITE 115 or 119	Intro. to Computer Applications & Concepts or Information Literacy	3	0	3
ITP 100	¹ Software Design	3	0	3
ITP 120	² Java Programming I	4	0	4
EEE	³ Approved IT Elective	3	0	3
Total		13	0	13

Footnotes:

1. Prerequisite for Java Programming I.
2. Other object-oriented or event-driven programming language may be substituted with faculty or division approval.
3. Recommended IT Elective is ITD 110. Contact an IST Advisor for more information about additional approved IT Electives.

Cyber Security *

Career Studies Certificate

Program Coordinator: Dr. James Baker • LRC 213 • 276-739-2415

Length: Two Semesters (One year)

Purpose: This career studies certificate in Cybersecurity is designed to prepare students for employment as Network security specialists or Internet security specialists. This career studies certificate also helps prepare students for the CompTIA Security+ certificate.

Occupational Objectives: Network security specialists or Internet security specialists.

Admission Requirements: See the section on admission requirements in this catalog. A student eligible for admission to the College can normally be considered for admission to the Cyber Security program.

Program Requirements: All courses in this curriculum will be information technology essentials or networking courses. Upon completion of the program, the student will be awarded a Career Studies Certificate in Cyber Security.

Course Number	Course Title	Lecture Hours	Lab Hours	Credits
First Semester (Fall)				
ITE 105	Cyber Careers and Ethics	2	0	2
ITE 115	Introduction to Computer	3	0	3
ITN 154	Network Fundamentals, Router Basis,	3	2	4
ITP 120	JAVA I ²	4	0	4
ITN 260	Network Security Basics ³	3	0	3
Total		15	2	16
Second Semester (Spring)				
ITN 170	Linux I ⁴	3	0	3
ITN 261	Network Attacks, Computer Crime,	3	0	3
ITN 262	Network Communication, Security,	3	0	3
ITN 266	Network Security Layers	3	0	3
Total		12	0	12
Total Minimum Credits Required for Certificate				28

Footnotes:

1. ITN 101 will substitute
2. Pre-requisite ITP 100 or Division approval
3. Pre or Co-Requisite of ITN 154 or ITN 101
4. ITN 111 or ITN 171 will substitute

*Pending approval by SACSCOC

Database Security and Design Career Studies Certificate

Program Coordinator: Tamara Lasley • LRC 215 • 276-739-2503

Course Number	Course Title	Lecture Hours	Lab Hours	Credits
ITE 115 or 119	Intro. to Computer Applications & Concepts or Information Literacy	3	0	3
ITE 150	Desktop Database Software	4	0	4
ITD 132	Structured Query Language	4	0	4
ITN 113	Active Directory (Windows Server 2008)	3	0	3
ITP 240	Server Side Scripting or ¹ Recommended IT Elective	3	0	3
Total		17	0	17

Footnote:

1. Recommended IT Elective is ITD 110. Contact an IST Advisor for more information about additional approved IT Electives.

Software Applications Specialist Career Studies Certificate

Program Coordinator: Tamara Lasley • LRC 215 • 276-739-2503

Course Number	Course Title	Lecture Hours	Lab Hours	Credits
ITE 115 or 119	Intro. to Computer Applications & Concepts or Information Literacy	3	0	3
AST 141	Word Processing I	3	0	3
ITE 140	Spreadsheet Software	3	0	3
ITE 150	Desktop Database Software	4	0	4
ITE 182	User Support/Help Desk Principles	3	0	3
Total		16	0	16

Program prepares student for Microsoft certification in Word, Excel, and Access. Contact an IST advisor for more information.

User Support Specialist Career Studies Certificate

Program Coordinator: Tamara Lasley • LRC 215 • 276-739-2503

Course Number	Course Title	Lecture Hours	Lab Hours	Credits
ITN 106	Micro. Operating Systems	3	0	3
ITN 107	PC Hardware & Troubleshooting	3	0	3
ITE 182	User Support/Help Desk Principles	3	0	3
ITN 113	Active Directory (Windows Server 2008)	3	0	3
EEE	¹ Approved IT Elective	3	0	3
Total		15	0	15

Footnote:

1. Recommended IT Elective is ITE 140. Contact an IST Advisor for more information about additional approved IT Electives.

ITN 106/107 prepares student for the A+ certification. Combining the Software Applications and User Support certificates is recommended for both software and hardware support specialists.

Web Design and Development Career Studies Certificate

Program Coordinator: Tamara Lasley • LRC 215 • 276-739-2503

Course Number	Course Title	Lecture Hours	Lab Hours	Credits
ITE 115 or 119	Intro. to Computer Applications & Concepts or Information Literacy	3	0	3
ITD 110	Web Page Design I	3	0	3
ITP 140	Client Side Scripting	3	0	3
ITP 240	Server Side Scripting	3	0	3
EEE	¹ Approved IT Elective	3	0	3
Total		15	0	15

Footnote:

1. Recommended IT Elective is ITD 110. Contact an IST Advisor for more information about additional approved IT Electives.

Unmanned Aerial Systems (UAS) *

Career Studies Certificate

Program Coordinators: Tamara Lasley • LRC 215 • 276-739-2503

Dr. Kevin Hamed • OTC 220 • 276-739-2431

Occupational Objective:

Course Number	Course Title	Lecture Hours	Lab Hours	Credits
UMS 107	Small Unmanned Aircraft Systems (UAS) remote Pilot Ground School ¹	3	0	3
UMS 111	Small Unmanned Aircraft Systems (UAS) I	3	0	3
UMS 177	Small Unmanned Aircraft Systems (UAS) Components and Maintenance	2	2	3
Total		8	2	9

Footnote:

1. Students must be 16 years of age to sit for Pilot License Exam

*Pending approval by SACSCOC

Industrial Supervision

Career Studies Certificate

Program Coordinator: Ben Bullen • LRC 217 • 276-739-2452

Course Number	Course Title	Lecture Hours	Lab Hours	Credits
BUS 117	Human Relations and Leadership Development	3	0	3
BUS 200	Principles of Management	3	0	3
BUS 241	Business Law I	3	0	3
CST 100	Principles of Public Speaking	3	0	3
MKT 100	Principles of Marketing	3	0	3
SAF 127	Industrial Safety	2	0	2
Total		17	0	17

Small Business Management

Career Studies Certificate

Program Coordinator: Ben Bullen • LRC 217 • 276-739-2452

Course Number	Course Title	Lecture Hours	Lab Hours	Credits
MKT 100	Introduction to Marketing	3	0	3
BUS 100	Introduction to Business	3	0	3
BUS 200	Principles of Management	3	0	3
BUS 241	Business Law I	3	0	3
BUS 295	NX Level for Entrepreneurs	3	0	3
Total		15	0	15

Retail Management

Career Studies Certificate

Program Coordinator: Ben Bullen • LRC 215 • 276-739-2452

Length: Two Semesters

Purpose: Designed for the retail industry, the Career Studies Certificate in Retail Management provides successful students with the knowledge, skills and competency required for managerial success.

Occupational Objectives: Managers, Assistant Managers and Department Managers.

Admission Requirements: A student eligible for admission to the College can normally be considered for admission to the Retail Management Certificate.

Program Requirements: The curriculum will include technical, industrial, and behavioral management courses that will prepare students for future success in a management career. Upon completion of the program, students are awarded the Career Studies Certificate in Retail Management.

Course Number	Course Title	Lecture Hours	Lab Hours	Credits
First Semester				
ITE 115	Intro. to Computer Applications	3	0	3
MKT 100	Principles of Marketing	3	0	3
AST 205	Business Communication	3	0	3
BUS 205	Human Resource Management	3	0	3
Total		12	0	12
Second Semester				
BUS 200	Principles of Management	3	0	3
BUS 201	Organizational Behavior	3	0	3
FIN 215	Financial Management	3	0	3
MKT 216	Retail Management	3	0	3
Total		12	0	12
Total Minimum Credits Required for Certificate				24

Teleservices

Career Studies Certificate

Program Coordinator: Nan Jones • LRC 212 • 276-739-2465

Occupational Objective: Client Support, Customer Service, Marketing and Sales

Course Number	Course Title	Lecture Hours	Lab Hours	Credits
AST 114	¹ Keyboarding for Information Processing	2	0	2
AST 171	Introduction to Call Center Services	3	0	3
AST 206	Professional Development	3	0	3
AST 232	Microcomputer Office Applications	3	0	3
MKT 100	Principles of Marketing	3	0	3
AST 137	Records Management	3	0	3
Total		17	0	17

Footnote:

1. Students who pass the Keyboarding Exemption Test will be granted credit for this course. Testing date is published in the [class schedule](#).

Curriculum & Program Requirements

Engineering & Industrial Technology

Air Conditioning, Refrigeration, and Heating

Associate of Applied Science Degree

Program Coordinator: Jim Kroll • OTC 201 • 276-739-2560
Length: Four semesters**

**Program can be completed in day or evening classes. The day program starts in even numbered years and the evening program starts in odd numbered years.

Purpose: The Air Conditioning, Refrigeration, & Heating curriculum is designed to provide up-to-date technical skills for employment in the growing \$150 billion HVACR industry. VHCC's 4,500 sq. ft. lab is equipped with various manufacturers' equipment, with student time divided in half between classroom theory and lab projects. Students will operate "live" equipment to improve skills in troubleshooting, maintenance, and installation. In addition, students will utilize manufacturer-training software, audiovisual materials, and specially designed trainers for electricity and refrigeration. There is a growing demand for trained HVACR technicians, due to record equipment sales, the introduction of new refrigerants, and technical improvements in equipment. The curriculum satisfies the entry-level training requirements for students new to the HVACR industry, as well as updating the skills of those who want to improve their current skills for advancement in the workplace. VHCC's program content and entry-level skills of students are verified through the nationally recognized Air Conditioning, Heating and Refrigeration Institute's Industry Competency Exam.

Occupational Objectives: Air Conditioning Technician, Heating Technician, Refrigeration Technician, HVACR Technician, HVACR Contractor, Controls Technician, Indoor Air Quality Technician, HVACR Technical Sales, HVACR Installation, Service, Maintenance Technician

Admission Requirements: A student eligible for admission to the College can normally be considered for admission to the Air Conditioning, Refrigeration and Heating program. Proficiency in high school English and mathematics is required. Students who are not proficient in English and mathematics will be required to correct their deficiencies in developmental courses. Students from other schools or colleges or with appropriate industrial experience may submit transcripts or other documentation for evaluation and advanced placement. The HVACR industry changes related to EPA regulations involving refrigerants, DOE efficiency requirements for equipment, and equipment manufacturer requirements for updated training, will require that students requesting credit for AAS/diploma/certificate/any other AIR classes older than 8 years old, from VHCC or other sources, will need to demonstrate competency and an understanding of current HVACR procedures to the HVACR faculty in order to receive approval.

Program Requirements: The majority of the curriculum will consist of courses in Air Conditioning, Refrigeration and Heating, with the remaining courses in related subjects, general education, and electives. The program will consist of both theoretical concepts and practical applications needed for success in this skilled field. Each student is advised to consult with his/her advisor and counselor for program planning and in selecting electives.

Upon completion of the four-semester program listed in this catalog, the graduate will be awarded an Associate of Applied Science Degree.

Course Number	Course Title	Lecture Hours	Lab Hours	Credits
Second Semester (Spring)				
AIR 112	Air Cond. & Ref. Controls II	2	2	3
AIR 159	Heating and Cooling Safety	1	0	1
AIR 172	Refrigeration II	6	6	9
MTH 111	Basic Technical Mathematics	3	0	3
Total		12	8	16
Third Semester (Fall)				
EEE	Humanities Elective	3	0	3
EEE	Social Science Elective	3	0	3
AIR 134	Circuits and Controls I	2	2	3
AIR 176	Air Conditioning	4	4	6
AIR 235	Heat Pumps	2	2	3
Total		14	8	18
Fourth Semester (Spring)				
EEE	Social Science Elective	3	0	3
AIR 154	Heating Systems I	2	2	3
AIR 165	Air Conditioning Systems I	2	3	3
AIR 205	Hydronics and Zoning	2	2	3
AIR 231	Circuits and Controls IV	3	3	4
Total		12	10	16
Total Minimum Credits required for the AAS Degree				66

Students are urged to follow the [recommended pathway](#) for this degree when choosing electives.

Additional approved humanities and social science electives are listed at <http://www.vhcc.edu/GenEdCore>.

Course Number	Course Title	Lecture Hours	Lab Hours	Credits
First Semester (Fall)				
SDV 101	Orientation to College Success	1	0	1
ENG 111 or ENG 115	College Composition I or Technical Writing	3	0	3
AIR 111	Air Cond. & Ref. Controls I	2	2	3
AIR 171	Refrigeration I	6	6	9
Total		12	8	16

Electrical Technology

Associate of Applied Science Degree

Program Coordinator: Donnie Melvin • ISC 142A • 276-739-2453

Length: Four semesters (two years)

Purpose: The Associate of Applied Science Degree in Electrical Technology is designed to prepare students for employment upon graduation as electrical technicians with emphasis on installation, power distribution, controls, programmable controls, mechanical systems and the maintenance of industrial machinery.

Occupational Objectives:

Basic Electrician, Electrical/ Electronic Technician, Industrial Maintenance Technician, Industrial Technical Sales, Industrial Field Service, Maintenance Supervisor

Admission Requirements: A student eligible for admission to the College can normally be considered for admission to the Electrical Technology curriculum. Proficiency in high school English and mathematics is required. Students who are not proficient in English and mathematics will be required to correct their deficiencies in developmental courses.

Program Requirements: The Electrical Technology Degree is a two-year program with two-thirds of the program content in electrical and mechanical courses, and the remaining one-third consists of math, social sciences, English, humanities, and physical education. Course content will include the theoretical concepts and practical applications as they pertain to industry needs. The graduate will be awarded the Associate of Applied Science in Electrical Technology upon satisfactory completion of the two-year program.

Course Number	Course Title	Lecture Hours	Lab Hours	Credits
First Semester (Fall)				
DRF 161	Blueprint Reading	1	2	2
ELE 133	Practical Electricity I	2	2	3
ELE 111	Home Electric Power I	2	3	3
ENG 111 or ENG 115	College Composition I or Technical Writing	3	0	3
SDV 101	Orientation to College Success	1	0	1
ITE 100	Introduction to Information System ¹	3	0	3
SAF 130	Industrial Safety – OSHA 10	1	0	1
Total		12	7	16
Second Semester (Spring)				
MTH 111	Basic Technical Mathematics	3	0	3
ELE 134	Practical Electricity II	2	2	3
ELE 141	DC & AC Machines	3	3	4
ELE 112	Home Electric Power II	2	3	3
ELE 131	National Electrical Code I	3	0	3
Total		13	8	16
Third Semester (Fall)				
EEE	General Education Elective	3	0	3
ELE 233	Programmable Logic Controllers I	2	3	3
ELE 175	Industrial Solid State Devices & Circuits	2	3	3
ELE 245	Industrial Wiring	2	3	3
MEC 161	Hydraulics & Pneumatics	2	2	3
EEE	Humanities Elective	3	0	3
Total		14	11	18

Course Number	Course Title	Lecture Hours	Lab Hours	Credits
Fourth Semester (Spring)				
ELE 234	Programmable Logic Controllers II	2	3	3
ELE 225	Electrical Control Systems	3	3	4
WEL 110	Welding Processes	2	3	3
ELE 132	National Electrical Code II	3	0	3
PED	Physical Education	0	2	1
EEE	Social Science Elective	3	0	3
Total		13	11	17
Total Minimum Credits for the AAS Degree				67

¹ ITE 115 or ITE 119 are acceptable substitutes

Students are urged to follow the [recommended pathway](#) for this degree when choosing electives.

Additional approved humanities and social science electives are listed at <http://www.vhcc.edu/GenEdCore>.

Electrical Technology – Specialization in Mechatronics

Associate of Applied Science Degree

Program Coordinator: Donnie Melvin • ISC 142A • 276-739-2453

Length: Four semesters (two years)

Purpose: The Associate of Applied Science Degree in Electrical Technology – Specialization in Mechatronics is designed to prepare students for employment upon graduation as electrical technicians with emphasis on installation, power distribution, controls, programmable controls, mechanical systems and the maintenance of industrial machinery.

Occupational Objectives: Basic Electrician, Electrical/ Electronic Technician, Electro-Mechanical Installer/Representative, Industrial Maintenance Technician, Industrial Technical Sales, Industrial Field Service, Maintenance Supervisor

Admission Requirements: A student eligible for admission to the College can normally be considered for admission to the Electrical Technology – Specialization in Mechatronics curriculum. Proficiency in high school English and mathematics is required. Students who are not proficient in English and mathematics will be required to correct their deficiencies in developmental courses.

Program Requirements: The Electrical Technology Degree is a two-year program with two-thirds of the program content in electrical and mechanical courses, and the remaining one-third consists of math, social sciences, English, humanities, and physical education. The graduate will be awarded the Associate of Applied Science in Electrical Technology upon satisfactory completion of the two-year program. Course content will include the theoretical concepts and practical applications as they pertain to industry needs.

Course Number	Course Title	Lecture Hours	Lab Hours	Credits
First Semester (Fall)				
DRF 161	Blueprint Reading	1	2	2
ELE 133	Practical Electricity I	2	2	3
MEC 140	Introduction to Mechatronics	2	2	3
ENG 111 or ENG 115	College Composition I or Technical Writing	3	0	3
SDV 101	Orientation to College Success	1	0	1
SAF 130	Industrial Safety – OSHA 10	1	0	1
ITE 100	Introduction to Information Systems ¹	3	0	3
Total		13	6	16
Second Semester (Spring)				
MTH 103	Applied Technical Mathematics I	3	0	3
ELE 134	Practical Electricity II	2	2	3
ELE 141	DC & AC Machines	3	3	4
ELE 175	Ind. Solid State Devices & Circuits	2	3	3
IND 243	Principles and Apps. of Mechatronics	2	2	3
Total		12	10	16
Third Semester (Fall)				
EEE	General Education Elective	3	0	3
ELE 233	Programmable Logic Controllers I	2	3	3
MEC 161	Hydraulics & Pneumatics	2	2	3
ELE 245	Industrial Wiring	2	2	3
EEE	Social Science Elective	3	0	3
EEE	Humanities Elective	3	0	3
Total		15	7	18

Course Number	Course Title	Lecture Hours	Lab Hours	Credits
Fourth Semester (Spring)				
ELE 234	Programmable Logic Controllers II	2	3	3
ELE 225	Electrical Control Systems	3	3	4
WEL 110	Welding Processes	2	3	3
ELE 132	National Electrical Code II	3	0	3
PED	Physical Education	0	2	1
INS 232	Systems Troubleshooting	2	3	3
Total		12	14	17
Total Minimum Credits for the AAS Degree				67

¹ ITE 115 or ITE 119 are acceptable substitutes

Students are urged to follow the [recommended pathway](#) for this degree when choosing electives.

Additional approved humanities and social science electives are listed at <http://www.vhcc.edu/GenEdCore>.

Electrical Technology – Specialization in Energy Technology

Associate of Applied Science Degree

Program Coordinator: Donnie Melvin • ISC 142A • 276-739-2453

Length: Four semesters (two years)

Purpose: The Associate of Applied Science Degree in Electrical Technology – Specialization in Energy Technology is designed to prepare students for employment upon graduation as electrical technicians with emphasis on installation, power distribution, controls, programmable controls, mechanical systems and the maintenance of industrial machinery.

Occupational Objectives: Basic Electrician, Electrical/ Electronic Technician, Power Systems Technician, Solar Power Technician, Maintenance Supervisor

Admission Requirements: A student eligible for admission to the College can normally be considered for admission to the Electrical Technology – Specialization in Energy Technology curriculum. Proficiency in high school English and mathematics is required. Students who are not proficient in English and mathematics will be required to correct their deficiencies in developmental courses.

Program Requirements: The Electrical Technology Degree is a two-year program with two-thirds of the program content in electrical and mechanical courses, and the remaining one-third consists of math, social sciences, English, humanities, and physical education. The graduate will be awarded the Associate of Applied Science in Electrical Technology upon satisfactory completion of the two-year program. Course content will include the theoretical concepts and practical applications as they pertain to industry needs.

Course Number	Course Title	Lecture Hours	Lab Hours	Credits
First Semester (Fall)				
DRF 161	Blueprint Reading	1	2	2
ELE 133	Practical Electricity I	2	2	3
ELE 111	Home Electric Power I	2	3	3
ENG 111 or ENG 115	College Composition I or Technical Writing	3	0	3
SDV 101	Orientation to College Success	1	0	1
ITE 100	Introduction to Information Systems ¹	3	0	3
SAF 130	Industrial Safety – OSHA 10	1	0	1
Total		12	7	16
Second Semester (Spring)				
MTH 111	Basic Technical Mathematics	3	0	3
ELE 134	Practical Electricity II	2	2	3
ELE 141	DC & AC Machines	3	3	4
ELE 112	Home Electric Power II	2	3	3
ELE 131	National Electrical Code I	3	0	3
Total		13	8	16
Third Semester (Fall)				
ELE 100	Conventional and Alternate Energy Applications	3	3	4
ELE 175	Industrial Solid State Devices & Circuits	2	3	3
ELE 245	Industrial Wiring	2	2	3
ELE 176	Introduction to Alternative Energy Including Hybrid Systems	2	3	3
EEE	Humanities Elective	3	0	3
Total		12	11	16

Course Number	Course Title	Lecture Hours	Lab Hours	Credits
Fourth Semester (Spring)				
ELE 177	Photovoltaic Energy Systems	3	3	4
ENE 200	Power Monitoring	3	3	4
ELE 132	National Electrical Code II	3	0	3
EEE	General Education Elective	3	0	3
PED	Physical Education	0	2	1
EEE	Social Science Elective	3	0	3
Total		15	8	18
Total Minimum Credits for the AAS Degree				66

¹ ITE 115 or ITE 119 are acceptable substitutes

Students are urged to follow the [recommended pathway](#) for this degree when choosing electives.

Additional approved humanities and social science electives are listed at <http://www.vhcc.edu/GenEdCore>.

Air Conditioning, Refrigeration, and Heating

Diploma

Program Coordinator: Jim Kroll • OTC 201 • 276-739-2560
Length: **Four semesters (two years)

**Program can be completed in day or evening classes. The day program starts in even numbered years and the evening program starts in odd numbered years.

Purpose: The Air Conditioning, Refrigeration, & Heating curriculum is designed to provide up-to-date technical skills for employment in the growing \$150 billion HVACR industry. VHCC's 4,500 sq. ft. lab is equipped with various manufacturers' equipment, with student time divided in half between classroom theory and lab projects. Students will operate "live" equipment to improve skills in troubleshooting, maintenance, and installation. In addition, students will utilize manufacturer-training software, audiovisual materials, and specially designed trainers for electricity and refrigeration. There is a growing demand for trained HVACR technicians, due to record equipment sales, the introduction of new refrigerants, and technical improvements in equipment. The curriculum satisfies the entry-level training requirements for students new to the HVACR industry, as well as updating the skills of those who want to improve their current skills for advancement in the workplace. VHCC's program content and entry-level skills of students are verified through the nationally recognized Air Conditioning, Heating and Refrigeration Institute's Industry Competency Exam.

Occupational Objectives: Air Conditioning Technician, Heating Technician, Refrigeration Technician, HVACR Technician, HVACR Contractor, Controls Technician, Indoor Air Quality Technician, HVACR Technical Sales, HVACR Installation, Service, Maintenance Technician

Admission Requirements: Students are required to meet the general requirements of the college as contained in this catalog. Proficiency in high school English and mathematics is required. Students who are not proficient in English and mathematics will be required to correct their deficiencies in developmental courses. Graduates of the Refrigeration Certificate program at Virginia Highlands Community College may enter the third semester of the program directly and continue for the two subsequent semesters to fulfill the diploma requirements. Students from other schools or colleges or with appropriate industrial experience may submit transcripts or other documentation for evaluation and advanced placement. The HVACR industry changes related to EPA regulations involving refrigerants, DOE efficiency requirements for equipment, and equipment manufacturer requirements for updated training, will require that students requesting credit for AAS/diploma/certificate/any other AIR classes older than 8 years old, from VHCC or other sources, will need to demonstrate competency and an understanding of current HVACR procedures to the HVACR faculty in order to receive approval.

Program Requirements: The majority of the curriculum will consist of courses in Air Conditioning, Refrigeration and Heating, with the remaining courses in related subjects, general education, and electives. The program will consist of both theoretical concepts and practical applications needed for success in this skilled field. Each student is advised to consult with his/her advisor and counselor for program planning and in selecting electives.

Upon completion of the four-semester program listed in this catalog, the graduate will be awarded a Diploma.

Virginia Tradesman Certification Program: Students seeking the Journeyman or Master levels of certification may, with appropriate documentation, help meet the practical work experience requirement through the Cooperative Education Program.

Course Number	Course Title	Lecture Hours	Lab Hours	Credits
First Semester (Fall)				
SDV 101	Orientation to College Success	1	0	1
AIR 111	Air Cond. & Ref. Controls I	2	2	3
AIR 171	Refrigeration I	6	6	9
ENG 111 or ENG 115	College Composition I or Technical Writing	3	0	3
Total		12	8	16
Second Semester (Spring)				
AIR 112	Air Cond. & Ref. Controls II	2	2	3
AIR 159	Heating and Cooling Safety	1	0	1
AIR 172	Refrigeration II	6	6	9
MTH 111	Basic Technical Mathematics	3	0	3
Total		12	8	16
Third Semester (Fall)				
EEE	General Elective or Co-op Education	3	0	3
AIR 134	Circuits and Controls I	2	2	3
AIR 176	Air Conditioning	4	4	6
AIR 235	Heat Pumps	2	2	3
Total		11	8	15
Fourth Semester (Spring)				
EEE	General Elective or Co-op Education	3	0	3
AIR 154	Heating Systems I	2	2	3
AIR 165	Air Conditioning Systems I	2	3	3
AIR 205	Hydronics and Zoning	2	2	3
AIR 231	Circuits and Controls IV	3	3	4
Total		12	10	16
Total Minimum Credits required for the Diploma				63

Students are urged to follow the [recommended pathway](#) for this diploma when choosing electives.

Additional approved humanities and social science electives are listed at <http://www.vhcc.edu/GenEdCore>.

Electricity

Certificate

Program Coordinator: Donnie Melvin • ISC 142A • 276-739-2453

Length: Two semesters (one year)

Purpose: The Certificate program in Electricity is designed to prepare the student for full-time employment as an electrician, immediately upon completion of the program. A student who completes the program is capable of performing the job skills normally expected of beginning electricians, working with a licensed electrician.

Occupational Objectives: Residential, industrial, or maintenance electrician

Admission Requirements: A student eligible for admission to the College can normally be considered for admission to the Electricity curriculum. Proficiency in high school English is required. Students who are not proficient in English will be required to correct their deficiencies in developmental courses.

Program Requirements: Approximately two-thirds of the curriculum will include courses in electricity, with the remaining courses in related subjects, and general education. Instruction will include both the theoretical concepts and practical applications needed for future success as an electrician. Upon completion of the two-semester curriculum listed, the student will be awarded a Certificate in Electricity.

Virginia Tradesman Certification Program: Students who seek the Journeyman or Master levels of certification may, with appropriate documentation, help meet the practical experience requirement through the Cooperative Education Program.

Course Number	Course Title	Lecture Hours	Lab Hours	Credits
First Semester (Fall)				
ELE 133	Practical Electricity I	2	2	3
ELE 111	Home Electric Power I	2	3	3
ENG 111 or 115	College Composition I or Technical Writing	3	0	3
SDV 101	Orientation to College Success	1	0	1
EEE	¹ General Education Elective or Co-op Education	3	0	3
SAF 130	Industrial Safety OSHA-10	1	0	1
Total		12	5	14
Second Semester (Spring)				
ELE 134	Practical Electricity II	2	2	3
ELE 141	DC & AC Machines	3	3	4
ELE 112	Home Electric Power II	2	3	3
ELE 131	National Electric Code I	3	0	3
MTH 111	Basic Technical Mathematics	3	0	3
Total		13	8	16
Total Minimum Credits Required for Certificate				30

Approved general education electives are listed at <http://www.vhcc.edu/GenEdCore>.

Refrigeration

Certificate

Program Coordinator: Jim Kroll • OTC 201 • 276-739-2560
Length: **Two semesters (one year)

***Program can be completed in day or evening classes. The day program starts in even numbered years and the evening program starts in odd numbered years.*

Purpose: The Certificate program in Refrigeration is designed to provide the student with HVACR skills in the vapor compression refrigeration cycle; commercial and residential refrigeration systems, basic electricity and HVACR electrical controls such as; temperature, pressure, and time operated controls. Students will receive training in the proper handling of refrigerants according to EPA guidelines. A student who completes the certificate program is capable of performing job skills normally expected of a beginning refrigeration technician. Students should note that the certificate program is the same as the first two semesters in both the HVACR diploma and AAS degree programs. Completion of either the diploma or AAS degree program is recommended, providing more employment opportunities in the additional areas of indoor climate control.

Occupational Objectives: Refrigeration Technician, HVACR Technician, HVACR Technical Sales

Admission Requirements: A student eligible for admission to the College can normally be considered for admission to the Refrigeration curriculum. Proficiency in high school English is required. Students who are not proficient in English will be required to correct their deficiencies in developmental courses. The HVACR industry changes related to EPA regulations involving refrigerants, DOE efficiency requirements for equipment, and equipment manufacturer requirements for updated training, will require that students requesting credit for AAS/diploma/certificate/any other AIR classes older than 8 years old, from VHCC or other sources, will need to demonstrate competency and an understanding of current HVACR procedures to the HVACR faculty in order to receive approval.

Program Requirements: Approximately two-thirds of the curriculum will include courses in Air Conditioning and Refrigeration, with the remaining courses in related subjects, general education, and electives. Instruction will include both the theoretical concepts and practical applications needed for future success in Air Conditioning and Refrigeration Servicing. Each student is advised to consult with his/her faculty advisor and counselor in planning a program and selecting electives. Upon completion of the two-semester curriculum listed on this page, the student will be awarded a Certificate in Refrigeration.

Course Number	Course Title	Lecture Hours	Lab Hours	Credits
First Semester (Fall)				
AIR 111	Air Cond. & Ref. Controls I	2	2	3
AIR 171	Refrigeration I (Basic)	6	6	9
ENG 111 or ENG 115	College Composition I or Technical Writing	3	0	3
SDV 101	Orientation to College Success	1	0	1
Total		12	8	16
Second Semester (Spring)				
AIR 112	Air Cond. & Ref. Controls II	2	2	3
AIR 159	Heating and Cooling Safety	1	0	1
AIR 172	Refrigeration II	6	6	9
MTH 111	Basic Technical Mathematics	3	0	3
Total		12	8	16
Total Minimum Credits for Certificate				32

Solar Energy Technology

Certificate

Program Coordinator: Donnie Melvin • ISC 142A • 276-739-2453

Length: Two semesters (one year)

Purpose: The Certificate in Energy Technology is designed to prepare students for employment upon graduation as technicians to install solar power generation systems.

Admission Requirements: A student eligible for admission to the College can normally be considered for admission to the Solar Energy Technology curriculum. Proficiency in high school English is required. Students who are not proficient in English will be required to correct their deficiencies in developmental courses.

Program Requirements: The program contains twenty-five credits in electrical technology and energy technology courses. The remaining credits are in mathematics, English, and orientation.

Course Number	Course Title	Lecture Hours	Lab Hours	Credits
First Semester (Fall)				
ELE 133	Practical Electricity I	2	2	3
ELE 176	Introduction to Alternative Energy Including Hybrid Systems	2	3	3
SAF 130	OSHA 10	1	0	1
SDV 101	Orientation to College Success	1	0	1
ENG 111 or 115	College Composition I or Technical Writing	3	0	3
ELE 245	Industrial Wiring	2	2	3
ELE 131	National Electric Code I	3	0	3
Total		14	7	17
Second Semester (Spring)				
ELE 177	Photovoltaic Energy Systems	3	3	4
ELE 134	Practical Electricity II	2	2	3
ELE 141	DC/AC Machines	3	3	4
MTH 111	Basic Technical Mathematics	3	0	3
ELE 132	National Electric Code II	3	0	3
Total		14	8	17
Total Minimum Credits for Certificate				34

Diesel Mechanic

Career Studies Certificate

Program Coordinator: Keith Harless • Diesel Technology Lab
276-525-4578

Length: Two Semesters

Purpose: The Career Studies Certificate in Diesel Mechanics provides successful students with the knowledge, skills and competency required for basic diesel mechanic positions.

Occupational Objectives: Fulfill the need for Diesel Mechanics.

Admission Requirements: A student eligible for admission to the College can normally be considered for admission to the Diesel Mechanic Studies Certificate.

Program Requirements: The curriculum will consist of both hands on learning and classroom instruction. The program can be completed in one year and will prepare graduates for entry-level diesel mechanic positions.

Track 1: (Day)

Course Number	Course Title	Lecture Hours	Lab Hours	Credits
First Semester (Fall)				
DSL 111	Introduction to Diesel	1	2	2
DSL 152	Diesel Power Trains, Chassis, And Transmissions	2	4	4
DSL 143	Diesel Truck Electrical Systems	2	4	4
DSL 176	Transportation Air Conditioning	1	2	2
DSL 160	Air Brakes	2	2	3
Total		8	14	15
Second Semester (Spring)				
DSL 121	Diesel Engines I	3	6	6
DSL 122	Diesel Engines II	3	6	6
Total		6	12	12
Total Minimum Credits Required for Certificate				27

Track 2: (Evening)

Course Number	Course Title	Lecture Hours	Lab Hours	Credits
First Semester (Fall)				
DSL 121	Diesel Engines	3	6	6
DSL 122	Diesel Engines II	3	6	6
Total		6	12	12
Second Semester (Spring)				
DSL 111	Introduction to Diesel	1	2	2
DSL 143	Diesel Truck Electrical Systems	2	4	4
DSL 152	Diesel Power Trains, Chassis, and Transmissions	2	4	4
DSL 160	Air Brakes	2	2	3
DSL 176	Transportation Air Conditioning	1	2	2
Total		8	14	15
Total Minimum Credits Required for Certificate				27

Industrial Electricity

Career Studies Certificate

Program Coordinator: Donnie Melvin • ISC 142A • 276-739-2453

Length: Two Semesters (One year)

Purpose: The Career Studies Certificate program in Industrial Electricity is designed to update the skills for full-time employment as an industrial electrician. A student who completes the program is capable of performing the job skills normally expected of beginning industrial electricians.

Occupational Objectives: Industrial or maintenance electrician.

Admission Requirements: See the section on admission requirements in this catalog. A student eligible for admission to the College can normally be considered for admission to the Industrial Electricity program.

Program Requirements: All courses in this curriculum will be technical electrical courses. These courses will be transferable to the regular Electricity Certificate or on of the three AAS programs in Electrical Technology.

Course Number	Course Title	Lecture Hours	Lab Hours	Credits
First Semester (Fall)				
ELE 133	Practical Electricity I	2	2	3
ELE 245	Industrial Wiring	2	3	3
ELE 132	National Electric Code 2	3	0	3
MEC 161	Hydraulics and Pneumatics	2	2	3
Total		9		12
Second Semester (Spring)				
ELE 134	Practical Electricity II	2	2	3
ELE 175	Industrial Solid State Devices	2	3	3
ELE 141	DC & AC Machines	3	3	4
ELE 233	Programmable Logic Controllers I	2	3	3
Total		9		13
Total Minimum Credits Required for Certificate				25

The above semester-by-semester sequence of courses may be modified when necessary. Please refer to the Program Choices section of this Catalog for a discussion of factors which affect planning and sequencing programs of study. Courses may be substituted or adjustments may be made by the College to meet program objectives and requirements.

Mechatronics

Career Studies Certificate

Program Coordinator: Donnie Melvin • ISC 142A • 276-739-2453

Length: One semesters

Purpose: The Career Studies Certificate in Mechatronics is intended for students with electrical and/or automation background.

Occupational Objectives: Mechatronics Entry Level Maintenance Technician, Senior Level Industrial Machine Operator

Admission Requirements: A student eligible for admission to the College can normally be considered for admission to the career studies certificate.

Program Requirements: All courses in this curriculum will be as required in the Siemens Level One Certification. An entry level examination will be given to determine if the candidate has the pre-requisite knowledge to succeed in the program. This examination will be used to advise the student and possibly recommend tutoring.

Course Number	Course Title	Lecture Hours	Lab Hours	Credits
MEC 140	Introduction to Mechatronics	2	2	3
MEC 161	Hydraulics & Pneumatics	2	2	3
ELE 175	Ind. Solid State Devices & Circuits	2	3	3
INS 232	Systems Troubleshooting	2	3	3
ELE 233	Programmable Log. Controllers I	2	3	3
IND 243	Prin. and Apps. of Mechatronics	2	2	3
Total		12	15	18

Precision Machining

Career Studies Certificate

Program Coordinator: Johnnie Keene • MEC 104 • 276-739-2455

Length: Two Semesters

Purpose: This program is designed to provide individuals with basic machining concepts, blueprint reading and inspection procedures. Upon completion of this program, graduates will be prepared for employment as basic machine tool operators.

Occupational Objectives: The Precision Machining Career Studies Certificate provides the basic skills necessary to secure an entry level job as a machinist. Students develop the basic skills necessary to read blueprints, function as a Lathe Operator, Drill Press Operator, and Milling Machine Operator.

Admission Requirements: General college curricular admission.

Program Notes: Students are strongly encouraged to meet with the program head either before registering for their first semester or early in their first semester of study. Students will be required to furnish clear lens safety glasses, leather work footwear, and proper clothing for working in the lab.

Program Requirements: The curriculum will consist of both hands on learning and classroom instruction. The program can be completed in one year and will prepare graduates for entry-level positions.

Course Number	Course Title	Lecture Hours	Lab Hours	Credits
First Semester (Fall)				
DRF 161	Blueprint Reading I	1	3	2
MAC 161	Machine Shop Practices I	2	3	3
MAC 121	Numerical Control I	1	2	2
SAF 127	Industrial Safety	2	0	2
MAC 116	Machinist Handbook	2	0	2
MAC 162	Machine Shop Practices II ¹	2	3	3
Total		10	11	14
Second Semester (Spring)				
MAC 122	Numerical Control II ²	2	3	3
MAC 163	Machine Shop Practices III ³	2	3	3
MAC 150	Introduction to CAM	2	4	3
MAC 164	Machine Shop Practices IV ⁴	2	3	3
Total		8	13	12
Total Minimum Credits Required for Certificate				26

1. Pre-Requisite or Co-Requisite of MAC 161
2. Pre-Requisite of MAC 121
3. Pre-Requisite of MAC 161, 162
4. Pre-Requisite or Co-Requisite of MAC 163

Welding

Career Studies Certificate

Program Coordinator: Eddie Fultz • SBI 162 • 276-492-2065

Length: Two-Three Semesters

Purpose: The Career Studies Certificate in Welding provides successful students with the knowledge, skills and competency required for basic welding positions.

Occupational Objectives: Fulfill the need for qualified welders.

Admission Requirements: A student eligible for admission to the College can normally be considered for admission to the Welding Career Studies Certificate.

Program Requirements: The curriculum will consist of both hands on learning and classroom instruction. The program can be completed in one year and will prepare graduates for entry-level welding positions in the manufacturing industry.

Day Program:

Course Number	Course Title	Lecture Hours	Lab Hours	Credits
First Semester (Fall)				
HLT 105	Cardiopulmonary Resuscitation	1	0	1
SAF 127	Industrial Safety	2	0	2
WEL 117	Oxyfuel Welding & Cutting	2	6	4
WEL 123	Shielded Metal Arc Welding	2	6	4
WEL 130	Inert Gas Welding	2	6	4
Total		9	18	15
Second Semester (Spring)				
WEL 124	Shielded Arc Welding (Advanced)	2	3	3
WEL 136	Welding III (Inert Gas)	1	3	2
WEL 150	Welding Drawing & Interpretation	3	0	3
WEL 160	Gas Metal Arc Welding	2	6	4
Total		8	12	12
Total Minimum Credits Required for Certificate				27

Evening Program:

Course Number	Course Title	Lecture Hours	Lab Hours	Credits
First Semester (Fall)				
HLT 105	Cardiopulmonary Resuscitation	1	0	1
SAF 127	Industrial Safety	2	0	2
WEL 123	Shielded Metal Arc Welding	2	6	4
WEL 130	Inert Gas Welding	2	6	4
Total		7	12	11
Second Semester (Spring)				
WEL 124	Shielded Arc Welding (Advanced)	2	3	3
WEL 150	Welding Drawing & Interpretation	3	0	3
WEL 160	Gas Metal Arc Welding	2	6	4
Total		7	9	10
Third Semester (Summer)				
WEL 117	Oxyfuel Welding & Cutting	2	6	4
WEL 136	Welding III (Inert Gas)	1	3	2
Total		3	9	6
Total Minimum Credits Required for Certificate				27

Curriculum & Program Requirements

Health Technology

Emergency Medical Services Technology

Associate of Applied Science Degree

Note: A new statewide curriculum will be published in July 2018 and courses will change. Changes will be published in Catalog Addendum.

Program Coordinator: Bill Akers, Jr., MS, NRP, Program Director
276-964-7729 • bill.akers@sw.edu

Length: Five semesters

Offered in cooperation with Southwest Virginia Community College. Degree awarded by Virginia Highlands Community College.

Purpose: The purpose of this curriculum is to produce competent entry-level Emergency Medical Technician-Paramedics (EMT-P) who can service the community with advance life support care via the Emergency Medical Services (EMS) infrastructure. Upon completion of the program, students will be eligible for National Registry testing and certification in the Commonwealth of Virginia. Employment opportunities for Paramedics are available with ambulance; fire and rescue services; hospitals; local, state and federal government agencies; and humanitarian relief organizations.

Program Goals: At the completion of the program the graduate will be able to demonstrate:

1. The Ability to comprehend, apply, and evaluate the clinical information relative to his role as an entry-level paramedic;
2. Technical proficiency in all skills necessary to fulfill the role of an entry-level paramedic; and
3. Personal behaviors consistent with professional and employer expectations for the entry-level paramedic.

Accreditation: This program is accredited nationally by the Committee on Accreditation of Allied Health Educational Programs (CAAHEP), 25400 U.S. Highway 19 North, Suite 158, Clearwater FL, 33763, phone 727-210-2350.

Admission Requirements: Prior to the starting program courses, the applicant must:

1. Meet eligibility requirements as stipulated by the Virginia Office of EMS; and
2. Meet the college's general admission requirements.

Selection Process: To be eligible for selection to the program, interested person should complete the following process by May 10:

1. Submit a college admission application.
2. Submit an application to the program (separate document) with required attachments.
3. Complete the VPT English and Math assessment. To enroll in EMS courses the student must test above ENF 1 and MTE 1 on the college placement test or have equivalent scores on the ACT, SAT, etc. (or submit satisfactory SAT or ACT scores).
4. Have transcripts of previous college courses sent to the college.

At this time the first round of students will be selected. Selection will be based on previous college coursework, interview, entrance exam, and college placement reading scores. Students should place into ENF 3 or higher to be eligible for consideration in the first round of selection. Should openings still be available, persons who apply or meet requirements after May 10, or score lower than cut score on the reading exam will be considered.

PROGRAM REQUIREMENTS:

Physical Requirements: An EMS provider is faced with many physical and psychological challenges. Please refer to the Office of Emergency Medical Services web site for a more detailed functional job description <http://www.vdh.virginia.gov/content/uploads/sites/23/2017/04/BLS-Student-Handouts-for-Initial-Certification-Programs.pdf> pp. 16-25.

Academic Requirements: Students must make a "C" or better in all program cores courses. Any student receiving a grade less than "C" will be placed on programmatic academic probation. That course shall be remediated. Remediated course must be completed with a final grade of "C" or better.

Clinical and Behavioral Requirements: Selected and supervised student experience is required by the program and will be accomplished at selected, regional health care facilities. The student is responsible for transportation to these facilities, as well as to any scheduled field trips. Program preceptors will observe and evaluate the student's suitability for the profession. If the student does not exhibit those documented behaviors required of the EMS professional, the student might be asked to withdraw from the program.

Other Requirements: Applicants accepted to the program are required to submit a health certificate signed by a licensed physician, physician's assistant or RNP and should include documentation of measles, mumps, Rubella (MMR) and chicken pox exposure or inoculations; documentation of Hepatitis B inoculation; Tuberculosis testing; and overall general health of the applicant. A criminal background check and drug screening is also done to confirm compliance with state regulations. See <http://www.vdh.virginia.gov/content/uploads/sites/23/2017/04/BLS-Student-Handouts-for-Initial-Certification-Programs.pdf> pp. 6-7.

The purchase of items such as uniforms, liability insurance and other accessories is the financial responsibility of the individual student. Students who elect to take support courses recommended by the Program Director prior to formal acceptance into the program will find this activity to be advantageous in subsequent course scheduling.

Note: A new statewide curriculum will be published in July 2018 and courses will change. Changes will be published in Catalog Addendum.

Course Number	Course Title	Lecture Hours	Lab Hours	Credits
First Semester (Summer)				
EMS 111	Emergency Medical Technician	5	4	7
EMS 120	EMT-Basic Clinical	0	2	1
BIO 145	¹ Anatomy & Physiology	3	3	4
SDV 101	Orientation to College Success	1	0	1
Total		9	9	13
Second Semester (Fall)				
EMS 151	Intro to Advanced Life Support	3	2	4
EMS 152	AEMT Completion	1	2	2
EMS 153	Basic ECG Recognition	2	0	2
EMS 170	ALS Internship I	0	3	1
ENG 111	English Composition I	3	0	3
Total		9	7	12
Third Semester (Spring)				
EMS 154	ALS - Cardiac Care	1	2	2
EMS 157	ALS - Trauma Care	2	2	3
EMS 159	EMS Special Populations	2	2	3
EMS 172	ALS Clinical Internship II	0	3	1
EMS 173	ALS Field Internship II	0	3	1
EEE	General Education Elective	3	0	3
Total		8	12	12

Course Number	Course Title	Lecture Hours	Lab Hours	Credits
Fourth Semester (Fall)				
EMS 205	Advanced Pathophysiology	4	0	4
EMS 209	Advanced Pharmacology	3	2	4
EMS 242	ALS Clinical Internship III	0	3	1
EMS 243	ALS Field Internship III	0	3	1
EEE	² Social Science Elective	3	0	3
Total		10	8	13
Fifth Semester (Spring)				
EMS 201	EMS Professional Development	3	0	3
EMS 207	Advanced Patient Assessment	2	2	3
EMS 211	Operations	1	2	2
EMS 244	ALS Clinical Internship IV	0	3	1
EMS 245	ALS Field Internship IV	0	3	1
HUM	² Humanities Elective	3	0	3
Total		9	10	13
Total Minimum Credits for EMS Technology Major				64

Footnotes:

1. Students should take BIO 141 and 142 or BIO 145. It is recommended that students who are planning to transfer to another medically related program complete BIO 141-142.
2. Recommended social science subject areas: PSY/PLS/ECO/HIS/SOC Recommend PSY 230. Recommended humanities/fine arts subject areas: MUS/ART/PHI/SPA/REL/ENG 241-242/SPD 130.

Nursing

Associate of Applied Science Degree

Program Dean: Kathy Mitchell, PhD, MSN, RN
NEB 144 • 276-739- 2439

Length: Five semesters (2 years)

About the Program: The Virginia Appalachian Tricollege Nursing Program (VATNP) is a three college consortium serving Virginia Highlands Community College, Southwest Virginia Community College, and Mountain Empire Community College. Beginning fall 2018, the program will transition to the Virginia Community College System (VCCS) Common Curriculum for all VCCS nursing programs.

State Approval and Accreditation Status: The Nursing Program is approved by the Virginia Board of Nursing and is accredited by the Accreditation Commission for Education in Nursing (ACEN), 3343 Peachtree Road NE, Suite 850, Atlanta, Georgia 30326, phone: (404) 975-5000, www.acenursing.org. ACEN is officially recognized as the national accrediting agency for nursing education by the Council on Post-secondary Accreditation (COPA) and by the U.S. Department of Education.

Purpose:

The purpose of the VATNP and other nursing programs of the Virginia Community College System (VCCS) is to provide affordable, community access to quality nursing education. The VCCS nursing programs prepare qualified students to provide safe, competent, entry-level nursing care in 21st century healthcare environments. Students are prepared to meet the ever-increasing complexity of the healthcare needs of the citizens of Virginia.

Student Learning Outcomes

- Provide client-centered care promoting therapeutic relationships, caring behaviors, and self-determination across the lifespan for diverse populations.
- Practice safe nursing care that minimizes risk of harm across systems and client populations.
- Demonstrate nursing judgment through the use of clinical reasoning, the nursing process, and evidence-based practice in the provision of safe, quality care.
- Practice professional behaviors that encompass the legal/ethical framework while incorporating self-reflection, leadership and a commitment to recognize the value of life-long learning.
- Manage client care through quality improvement processes, information technology, and fiscal responsibility to meet client needs and support organizational outcomes.
- Demonstrate principles of collaborative practice within the nursing and interdisciplinary teams fostering mutual respect and shared decision-making to achieve stated outcomes of care.

Employment Opportunities: Employment opportunities for the RN include, but are not limited to, staff positions in hospitals, nursing homes, health departments, physician's offices, clinics, home health agencies, public schools, day care centers, and civil service.

Admission Requirements: Admission to the Virginia Appalachian Tricollege Nursing Program is a selective process. The program is open to applicants who are free of any physical or mental condition which might adversely affect performance as a member of the nursing profession. In addition to the requirements for admission to the college, the applicant must meet the following requirements:

1. Graduation from high school or satisfactory completion of the GED.
2. Good standing with the most recently attended institution with a minimum GPA of 2.0.
3. Demonstrated competency in science as evidenced by the completion of either one unit of general high school biology with laboratory **or** high school chemistry with laboratory, **or**

4. completion of BIO 141 and BIO 142 with no grade below a "C" prior to application deadline. Deficiencies can be made up through developmental studies or college courses.
4. Demonstrated competency in mathematics as evidenced by placement out of MTE 1-5 on the Virginia Placement Test (VPT). Placement is determined by means and measures identified in the Multiple Measures Placement Policy. For those who do not meet this requirement, all prescribed developmental work must be completed prior to application deadline. Competency may be demonstrated by accomplished by one of the following multiple measures:
 - a. Completion of Virginia Placement Tests (VPT) within 5 years prior to application with demonstrated proficiency in MTE 1-5, or
 - b. HSGPA & Algebra II 3.0 or higher within the last 5 years, or
 - c. GED Math score of 165 or above within the last 5 years, or
 - d. SAT math score of 510-520, ACT math score of 19-22, or
 - e. Completion of college-level math class equivalent to MTH 1-5 within the last 5 years.
5. Demonstrated competency in English as evidenced by placement into ENG 111. Placement is determined by means and measures identified in the Multiple Measures Placement Policy. For those who do not meet this requirement, all prescribed developmental work must be completed prior to application deadline.
6. Completion of the nursing entrance test (Test of Essential Academic Skills, TEAS) with a **National Percentile Rank** of 45th percentile or above prior to application. Nursing preadmission results will be accepted if completed within 5 years of applying to the nursing program.
NOTE: Applicants who meet the requirements listed above will be ranked for admission using the TEAS National Percentile Rank.
7. A 2.5 cumulative grade point average (GPA) for ENG 111, BIO 141, PSY 230, ITE 119, and SDV 101. These courses must be completed prior to enrollment in nursing (NSG) classes.
8. Completion of Nursing Application for each academic year interested in being considered for the Nursing Program.

SPECIAL NOTE: LPNs entering the LPN to RN Track in summer 2018 will follow the curriculum as described in the 2017-2018 catalog. LPNs entering the program in summer 2019 will follow the 2018-2019 catalog.

Nursing program application packets will be accepted in the Admissions Office between September 1 and February 15. Packets must include official high school transcripts, all college transcripts; GED test scores (if applicable), and a copy of TEAS results. Licensed LPN applicants must also include a copy of current LPN license and documentation of graduation from an approved LPN program. LPNs who graduated before May 15, 2016 must provide documentation of 1 year (2000 hours) of full-time LPN work experience in direct patient care during the past three years with written verification from employer.

The Admissions Office will suspend processing an application if all transcripts are not attached. Once an application is submitted, additional documentation will not be accepted. Transcripts from other Virginia Community Colleges are not required; however, any Virginia Community Colleges attended must be listed on both the Admissions Application and the Nursing Application.

All prerequisites (science, English and math proficiency) must be met and all documents submitted by the February 15 deadline. Further details of the application process can be found at www.vhcc.edu (click Future Students > Admissions & Records > Apply for Admissions > Applications & Forms > Medical Program Application).

Students residing in the college service area (Washington County, the western portion of Smyth County, or the city of Bristol) will be given priority consideration for admission to the program. Out-of-region applicants will only be considered for openings in the Nursing program after all qualified in-region applicants are considered (see Admission Priorities). To be considered in-region, an applicant must be domiciled within the service region for 12 months prior to the program application deadline.

LPN to RN Transition: Licensed LPNs who have been accepted to the nursing program may be offered the option of entering a summer LPN to RN Transition program providing they have completed all the general education courses required as outlined in the Nursing Track 2: LPN to RN Transition Curriculum or Track 4: Part-time Evening/Weekend LPN to RN Transition Curriculum. Applicants must have graduated from an LPN program after May 15, 2016 or provide documentation of 1 year (2000 hours) of full-time LPN work experience in direct patient care during the past three years with written verification from employer at the time of application.

Transfer of Nursing Credit: Students seeking to transfer credit from nursing programs at other institutions will be considered on an individual basis. Students must meet the admission requirements identified by the college and the VATNP. The student may be asked to provide course descriptions, documentation of completed direct patient care clinical time, course syllabi, achievement or progressive testing scores, demonstration of competency in critical nursing skills, and selected data from the course instructor or program director in order to determine placement in the nursing program. Consideration will be subject to availability of space. Since there frequently are differences among nursing programs, students wishing to transfer should be aware that there may be an interruption in program progression. Applicants must be in good standing at their previous college with a “C” average or better and must provide documentation of eligibility to return to that nursing program. Nursing courses which are being transferred must have been completed within three (3) years prior to admission to the nursing program.

Decisions on admission offers to transferring applicants will be determined by the VATNP faculty following official transcript analysis, review of completed nursing course outlines, and space and faculty availability. A transferring student must demonstrate expected level proficiencies by testing including demonstration of competency in critical skills. The transferring applicant may have to repeat courses.

Program Requirements: The VATNP is dependent on use of local clinical agencies to meet the experiential or clinical learning needs of its students. In order to protect patients and visitors as well as students, clinical agencies require that each student have proof of completion of the following:

1. Annual Student Statement of Health Form.
2. Student Information, Physical, Immunization Forms.
 - a. The VATNP physical examination from must be completed by a medical practitioner, MD, PA, or CNP.
 - b. Immunizations including tetanus, Mumps-Measles-Rubella (MMR), Varicella, and Hepatitis B.
 - c. Current testing for tuberculosis, either Mantoux Tuberculin Skin Test (TB Tine Test is not accepted) or chest X-ray.
 - d. Documentation of ability to perform physical demands required in direct patient care activities.
3. Purchase a background check, drug screen, and medical document package.
4. Clearance of criminal background check and drug testing.
5. Proof of CPR certification, American Heart Association, Basic Life Support (BLS) for Healthcare Providers completed during the summer (May 15 – August 1) prior to admission to NSG courses and maintained throughout the program.
6. Additional annual immunization requirements: Flu immunizations are required by most healthcare agencies and are usually available in fall semester.
7. Additional forms required by the nursing program or the clinical agencies.

Prior to enrollment in any NSG course, the student must provide the required clinical documentation. For more information, see the VATNP website at www.vhcc.edu/vatnp. The cost of these requirements is the responsibility of the student.

Criminal Background Checks/Barrier Crimes: The State Board of Nursing has the authority to deny license to any applicant who has violated any of the provisions of 54.1-3007 of the Code of Virginia. Most

healthcare organizations are prohibited from hiring persons who have been convicted of certain criminal acts (For a list of crimes under this category refer to the [Virginia Board of Nursing webpage](#) under the heading, Licensure/Applicants: Article 90-55, click on the link, [Joint statement of the Department of Health and The Department of Health Professions on Impact of Criminal Convictions on Nursing Licensure or Certification and Employment in Virginia, Revised November 2015](#)). Students with convictions or positive drug tests may be prohibited from clinical practice and may not be able to complete the program requirements.

Performance Standards for Clinical Laboratory Assignments:

Students must be able to perform all essential job functions or performance standards in clinical settings with reasonable accommodation. The following performance standards are consistent with those identified by the Southern Regional Education Boards and include, but are not limited to:

1. Critical thinking: Critical thinking ability sufficient for clinical judgment and delivery of safe patient care.
2. Interpersonal abilities: Interpersonal abilities sufficient to interact with clients, families and groups from a variety of social, emotional, cultural, and intellectual backgrounds.
3. Communication: Communication abilities sufficient for interaction with others in verbal and written form.
4. Mobility: Physical abilities sufficient to move from room to room and maneuver in small spaces.
5. Motor skills: Gross and fine motor abilities sufficient to provide safe and effective nursing care.
6. Physical demands: Physical demands in this program include duties that frequently require squatting, bending, kneeling, reaching, and stair climbing; lifting and carrying up to 50 pounds; frequent pushing and pulling up to 200 pounds with assistance; occasional lifting up to 200 pounds with assistance and occasional carrying up to 51-74 pounds.
7. Hearing: Auditory ability sufficient to monitor and assess health needs.
8. Visual: Visual ability sufficient for nursing observation and assessment.
9. Tactile: Tactile ability sufficient for physical assessment.

These guidelines serve as essential elements basic to eligibility requirements for clinical participation in the VATNP.

Student Accommodations Statement: Students admitted to the VATNP can be expected to complete course requirements that prepare them to perform essential job functions as a registered professional nurse. Those functions or skills that are essential to the profession must be performed with or without accommodations. Any student who thinks he/she does not possess one or more of these functions should contact the Office of Disability Services. Provisions for accommodations will be made in compliance with Section 504 of the Rehabilitation Act of 1973 and the Americans with Disabilities Act of 1990.

Course Requirements: Students must complete all courses listed in the first year of the curriculum before entering the second year. Exceptions due to unusual circumstances must be approved by the program Dean. A student must have a “C” or above in theory plus “satisfactory” in clinical performance in all nursing courses to remain in the program. A grade of “C” or above in any related requirement is a prerequisite for continuing in the nursing program.

The student is required to complete a sequence of courses and learning experiences provided at the college and selected community agencies such as hospitals, nursing homes, clinics, physicians’ offices and comparable facilities. The nursing faculty will observe and evaluate the student’s suitability for nursing and direct patient care. The nursing program faculty reserves the right to recommend, through appropriate channels, the withdrawal of any student who does not exhibit suitable demeanor/attendance.

Program Progression, Reapplication/Readmission

Requirements: All courses in the curriculum, both general education and nursing, must be completed in sequence prior to progressing to the next semester. Students must earn a minimum grade of "C" (80) in all nursing courses, a minimum grade of "C" in all non-nursing courses and maintain a minimum cumulative GPA of 2.0 to remain eligible for continued enrollment in the nursing program. In addition, during the NSG 106 or NSG 115 course, a Comprehensive Drug Calculation Exam (CDCE) will be administered to verify skills. Students must achieve at least 90 percent of maximum score on the CDCE with no more than three attempts in order to achieve a passing grade in the course. Any student who earns a final grade lower than a "C" in a required course (either general education or nursing courses) must repeat the course and earn a final grade of "C" or better before taking the next course in the sequence.

Clinical performance in a course is graded as Satisfactory/Unsatisfactory. A student who does not meet the clinical learning outcomes will fail the course

- A student who has 2 academic failures in nursing courses will be ineligible for reenrollment in the program.
- Any student who drops or withdraws from NSG 106 or NSG 200 must also drop or withdraw from NSG 100 due to the inability to complete clinical requirements.
- A student may continue in NSG 200 regardless of dropping or withdrawing from NSG 100 and/or NSG 106.
- Any student who drops or withdraws from NSG 252 or NSG 270 must withdraw from the other course.
- Students who are not successful in any first semester nursing (NSG) course must reapply to the nursing program. Re-enrollment must occur no later than three years from successful completion of NSG 100 or 115, otherwise the student will have to repeat all nursing courses.
- A student who wishes to reenter the nursing curriculum at any other level (e.g., NSG 152, 170, 210, 211, 230, 252, 270) must write a letter to the program dean requesting readmission in the semester prior to the semester of enrollment. Each student's application for readmission will be considered by the nursing faculty and the decision to readmit will be based on additional requested data, prior performance in the nursing program, and space availability. Based on the course(s) that must be repeated, the student who is readmitted may be required to complete a skills competency course or demonstrate competency in critical nursing skills before progressing to the next level.
- According to the VCCS Policy 5.7.4, "A student will normally be limited to two enrollments in the same credit course." Any exception to this policy must be approved by the program dean and the vice president of instruction and student services.

A student must obtain permission from the Dean of VATNP to continue in the Nursing Program under the following conditions:

- Repeating a course with a grade below "C";
- Withdrawal from a nursing course;
- Cumulative GPA below 2.0.

Financial Requirements:

In addition to the usual college tuition and fees, the nursing program requires pre-admission testing and other expenses as identified below. Students are responsible for these costs as well as the cost of transportation to and from the College and health agencies used for clinical experiences.

Pre-admission Testing (Test of Essential Academic Skills or TEAS)	\$70.00
Uniforms/Shoes/Watch/Stethoscope	\$300.00
Standardized Progressive Testing Program	\$785.00
Textbooks/Electronic Resources	\$1600.00

CastleBranch© Criminal Background Check, Drug Screen, Document Manager	\$115.00
Physical Exam, Immunizations, TB test	\$250.00
CPR Certification	\$150.00
Estimated In-state Tuition 67 credit hours @ \$153.25 per credit hour	\$10, 289.75
NCLEX-RN Application Fees	\$400.00
VATNP Pin (optional)	\$50.00
Transportation (to and from college and clinical agencies)	Variable

These costs are estimates and are subject to change without notification to faculty or students.

Clinical Contracts: The VATNP has contracts with clinical agencies for both student and patient safety. If students cannot comply with these contractual requirements, they will not be able to participate in clinical activities and will be asked to withdraw from the program. General guidelines follow:

1. Clinical agencies reserve the right to dismiss a student from their agency at any time with due cause. This will be done with advance notice except in an emergency.
2. Published policies of the clinical agency must be followed. Each student must successfully complete an orientation program prior to participating in activities at any clinical facility.
3. Clinical facilities require that all students have documentation of ability to perform the physical demands required in direct patient care activities.
4. Immunizations must be current.
5. Student releases any clinical agency, its agents and employees from any liability for any injury or death to himself or damage to his property arising out of agreement or use of the clinical agencies.
6. Proof of HIPAA and CPR Certification must be provided.
7. Clinical facilities require a criminal background check and drug screen clearance as a condition for student placement.
8. Proper uniform must be worn when participating in clinical activities.

Nursing Track 1: 2 Year Curriculum

The VATNP offers an opportunity for recent high school graduates and other eligible adults to complete the nursing degree program after two years of full time attendance (4 semesters and 1 summer session). This is a rigorous and academically challenging program.

Students have the option to complete all general education courses required by the nursing curriculum and receive a Health Sciences certificate before beginning nursing classes. This option takes three years or longer depending on the amount of time taken to complete the general education classes. Many students, who have families, work or other responsibilities often choose to complete all general education (non-nursing) courses before entering the program.

Course Number	Course Title	Lecture Hours	Lab Hours	Credits
Summer Session- Year 1				
BIO 141	Human Anatomy and Physiology I	3	3	4
ENG 111	English Composition I	3	0	3
ITE 119	Information Literacy	3	0	3
PSY 230	Developmental Psychology	3	0	3
SDV 101	Orientation to College Success	1	0	1
TOTAL		13	3	14
Fall Semester- Year 1				
BIO 142	Human Anatomy & Physiology II	3	3	4
NSG 100	Intro to Nursing Concepts	3	3	4
NSG 106	Competencies for Nursing Practice	0	6	2
NSG 130	Professional Concepts	1	0	1
NUR 200	Health Promotion & Assessment	2	3	3
TOTAL		9	15	14
Spring Semester- Year 1				
BIO 150	Microbiology	3	3	4
NSG 152	Health Care Participant	2	3	3
NSG 170	Health/Illness Concepts	4	6	6
TOTAL		9	12	13
Fall Semester- Year 2				
ENG 112	College Composition II	3	0	3
NSG 210	Health Concepts I	3	6	5
NUR 211	Health Concepts II	3	6	5
TOTAL		9	12	13

Course Number	Course Title	Lecture Hours	Lab Hours	Credits
Spring Semester- Year 2				
NSG 230	Advanced Professional Nursing Concepts	2	0	2
NSG 252	Complex Health Care Concepts	4	0	4
NSG 270	Nursing Capstone	0	12	4
HUM EEE ¹	See list of approved electives in footnote	3	0	3
TOTAL		9	12	13
Total Minimum Credits for the AAS Degree				67

Footnote:

¹Humanities electives include: ART 101, ENG 241, 243, 251, MUS 121, REL 230.

Nursing Track 2: LPN to RN Transition Curriculum

Students who are LPNs are required to complete at least 22 hours of the general education courses before beginning the LPN to RN nursing classes. The length of this track depends on the amount of time needed to complete the general education classes. The nursing classes can be completed in one year. Some LPNs may opt for the part-time/evening weekend program which requires 2 years of nursing classes after completion of general education requirements.

The Virginia Appalachian Tricollege Nursing Program's advance placement or "Transition Program," is designed to grant advanced placement to LPNs who have been admitted to the Virginia Appalachian Tricollege Nursing Program (VATNP) Associate Degree program and meet pre-requisite requirements.

If there is sufficient enrollment in the VATNP, Virginia Appalachian Tricollege Nursing Program, students who meet the eligibility requirements for the advanced placement will take "Transition Courses" in the summer term and then be eligible to take the sophomore level courses and graduate within one (1) academic year with an AAS Degree in Nursing.

This program is designed to recognize the common abilities of nurses and to bridge the difference between LPN and RN knowledge base and to allow these students to finish the AAS program within a 12 month period of 1 summer session and 2 semesters.

Special Note: *Special note: LPNs entering the LPN to RN Track in summer 2018, will follow the curriculum as described in the 2017-2018 catalog. Students entering the program beginning in summer 2019 will follow the 2018-2019 catalog.*

Admission Requirements: Admissions requirements for the LPN to RN nursing program are the same as the regular program with the following exceptions:

1. Current LPN license.
2. Applicants must have graduated from an LPN program after May 15, 2016 OR provide documentation of one (1) year (2000 hours) of full-time LPN work experience in direct patient care during the past three years with written verification form employer at the time of application.
3. Completion of 22 credits of support (general education) courses required for graduation from the Nursing program: BIO 141, BIO 142, BIO 150, ENG 111, ITE 119, PSY 230, and SDV 101. Additional required general education courses can be completed after enrolling in the program.

Course Number	Course Title	Lecture Hours	Lab Hours	Credits
Total		19	9	22
Summer Session - Year 1				
NUR 115 ¹	Health Care Concepts for Transition	3	6	5
NSG 200	Health Promotion and Assessment	2	3	3
Total		5	9	8
Fall Semester - Year 1				
ENG 112	College Composition II	3	0	3
NSG 210	Health Care Concepts I	3	6	5
NSG 211	Health Care Concepts II	3	6	5
Total		9	12	13
Spring Semester - Year 1				
NSG 230	Advanced Professional Nursing Concepts	2	0	2
NSG 252	Complex Health Care Concepts	4	0	4
NSG 270	Nursing Capstone	0	12	4
HUM EEE ²	See list of approved elective in footnote	3	0	3
Total		9	12	13
Total Minimum Credits for the AAS Degree				56

Footnote:

¹Upon completion of NSG 115, credit will be awarded for NSG 100, 106, 130, 152, 170 (16 credits). These credits will appear on the student's official transcript.

²Approved Humanities Electives: ART 101, ENG 241, 243, 251, MUS 121, REL 230

Course Number	Course Title	Lecture Hours	Lab Hours	Credits
Pre-Nursing Courses				
BIO 141	Human Anatomy & Physiology I	3	3	4
BIO 142	Human Anatomy & Physiology II	3	3	4
BIO 150	Introductory Microbiology	3	3	4
ENG 111	College Comp I	3	0	3
ITE 119	Information Literacy	3	0	3
PSY 230	Development Psychology	3	0	3
SDV 101	Orientation to College Success	1	0	1

Nursing Track 3: Part-time Evening/Weekend Curriculum

The VATNP part-time evening/weekend program is specifically designed for working adults or other adults who are interested in becoming RN's but have other responsibilities that interfere with their abilities to attend the rigorous scheduling of the previously described program of study. Classes will be provided in a combination of evening, weekend, and distance learning. The program is designed at a slower pace and may be completed in 4 years.

Admission Requirements: Admissions requirements for the part-time evening/weekend nursing program are the same as the regular program with the following exception: Students must complete 22 credits of support (general education) courses: BIO 141, BIO 142, BIO 150, ENG 111, ITE 119, PSY 230 and SDV 101. Additional required general education courses can be completed after acceptance to the program. General education courses listed in Year 1 must be completed before the student will be able to begin nursing courses in Year 2.

Course Number	Course Title	Lecture Hours	Lab Hours	Credits
Pre-Nursing Courses – Year 1				
ENG 111	College Composition I	3	0	3
BIO 141	Human Anatomy & Physiology I	3	3	4
BIO 142	Anatomy & Physiology II	3	3	4
BIO 150	Introductory Microbiology	3	3	4
ITE 119	Information Literacy	3	0	3
PSY 230	Developmental Psychology	3	0	3
SDV 101	Orientation to College Success	1	0	1
TOTAL		19	9	22
Fall Semester – Year 2				
NSG 200	Health Promotion & Assessment	2	3	3
NSG 106	Competencies for Nursing Practice	0	6	2
NSG 130	Professional Concepts	1	0	1
TOTAL		3	9	6
Spring Semester – Year 2				
NSG 100	Introduction to Nursing Concepts	3	3	4
NSG 152	Health Care Participant	2	3	3
TOTAL		5	6	7
Summer Session – No Scheduled Classes				
Fall Semester – Year 3				
NSG 170	Health/Illness Concepts	4	6	6
TOTAL		4	6	6
Spring Semester – Year 3				
NSG 210	Health Care Concepts I	3	6	5
TOTAL		3	6	5
Summer Semester – Year 3				
HUM EEE ¹	See list of approved electives in footnote	3	0	3
ENG 112	College Composition II	3	0	3
TOTAL		6	0	6
Fall Semester – Year 4				
NSG 211	Health Care Concepts II	3	6	5
NSG 230	Advanced Professional Nursing Concepts	2	0	2
TOTAL		5	6	7
Spring Semester – Year 4				
NSG 252	Complex Health Care Concepts	4	0	4
NSG 270	Nursing Capstone	0	12	4
TOTAL		4	12	8
Total Minimum Credits for the AAS Degree				67

Footnote:

¹Approved Humanities Electives: ART 101, ENG 241, 243, 251, MUS 121, REL 230

Nursing Track 4: Part-time Evening/Weekend LPN to RN Transition Curriculum

A part-time evening/weekend LPN to RN option is available for LPNs who work and or wish to attend part time. General education courses can be completed as night classes or by distance education options such as web based learning. Nursing classes and clinicals are taught on evenings and weekends on an extended plan. General education courses listed in Year 1 must be completed before the student will be able to begin Year 2.

Special Note: Special note: LPNs entering the LPN to RN Track in summer 2018, will follow the curriculum as described in the 2017-2018 catalog. Students entering the program beginning in summer 2019 will follow the 2018-2019 catalog.

Admission Requirements: Admissions requirements for the part-time evening/weekend LPN to RN nursing program are the same as the regular program with the following exceptions:

1. Current LPN license.
2. Applicants must have graduated from an LPN program after May 15, 2016 OR provide documentation of one (1) year (2000 hours) of full-time LPN work experience in direct patient care during the past three years with written verification form employer at the time of application.
3. Completion of 22 credits of support (general education) courses required for graduation from the Nursing program: BIO 141, BIO 142, BIO 150, ENG 111, ITE 119, PSY 230, and SDV 101.
- 4.

Course Number	Course Title	Lecture Hours	Lab Hours	Credits
Pre-Nursing Courses - Year 1				
BIO 141	Human Anatomy and Physiology I	3	3	4
BIO 142	Human Anatomy and Physiology II	3	3	4
BIO 150	Introductory Microbiology	3	3	4
ENG 111	College Composition I	3	0	3
ITE 119	Information Literacy	3	0	3
PSY 230	Developmental Psychology	3	0	3
SDV 101	Orientation to College Success	1	0	1
TOTAL		19	9	22
Summer Session - Year 2				
NSG 115 ¹	Health Care Concepts for Transition	3	6	5
TOTAL		3	6	5
Fall Semester - Year 2				
NSG 200	Health Promotion & Assessment	2	3	3
TOTAL		2	3	3

Course Number	Course Title	Lecture Hours	Lab Hours	Credits
Spring Semester - Year 2				
NSG 210	Health Care Concepts I	3	6	5
TOTAL		3	6	5
Summer Session - Year 3				
ENG 112	College Composition II	3	0	3
HUM EEE ²	See list of approved electives in footnote.	3	0	3
TOTAL		6	0	6
Fall Semester - Year 3				
NSG 211	Health Care Concepts II	3	6	5
NSG 230	Advanced Professional Nursing Concepts	2	0	2
TOTAL		5	6	7
Spring Semester - Year 3				
NSG 252	Complex Health Care Concepts	4	0	4
NSG 270	Nursing Capstone	0	12	4
TOTAL		4	12	8
Total Minimum Credits for the AAS Degree				56

Footnotes:

¹ Upon completion of NSG 115, credit will be awarded for NSG 100, 106, 130, 152, 170 (16 credits). These credits will appear on the student's official transcript.

² Approved Humanities Electives: ART 101; ENG 241, 243, 251; MUS 121; REL 230

Occupational Therapy Assistant

Associate of Applied Science

Program Coordinator: Annette Looney • Southwest Virginia Community College • 276-964-7643 • Annette.Looney@sw.edu

Length: Twenty-two months, (five semesters)

Offered in cooperation with Southwest Virginia Community College. Students admitted into the program will enroll with Southwest Virginia Community College. The degree will be awarded by Southwest Virginia Community College. Southwest Virginia Community College will have the final authority on program requirements.

Purpose: To prepare selected students to qualify as contributing members of the health care team who will care for patients under the supervision of a Registered Occupational Therapist. The goals of the occupational therapy team are to develop, restore, or maintain adaptive skills in individuals whose abilities to cope with daily living are threatened or impaired by disease, injury, developmental disability, or social disadvantage.

Accreditation: The Occupational Therapy Assistant Program at Southwest Virginia Community College with additional accredited site at Virginia Highlands Community College campus is accredited by the Accreditation Council for Occupational Therapy Education (ACOTE) of the American Occupational Therapy Association (AOTA), located at 4720 Montgomery Lane, Suite 200, Bethesda, MD 20814-3449. ACOTE's telephone number c/o AOTA is (301) 652-AOTA and its web address is www.acoteonline.org.

Occupational Objectives: Employment opportunities include positions in hospitals, rehabilitation centers, clinics, day care centers, long-term care facilities, schools, sheltered workshops, homebound programs and community agencies.

Program Format: The OTA program educational experiences consists of on-site lecture, distance learning lecture to remote campus sites via the compressed video network, hands-on laboratory, computer web-based instruction through BlackBoard, and a variety of clinical experiences. Students are required to complete a computer course and need to have skills necessary to navigate the internet for researching projects and assignments and utilizing the BlackBoard components for classes (i.e., online testing, online resources, grades, and discussions).

Admission Requirements: In addition to the general requirements for admission to the College, consideration for a position in this program requires the following:

1. Graduation from high school or satisfactory completion of the GED.
2. The completion of one year Biology with lab and Chemistry with lab or completion of BIO 141 and 142 ("C" or better grades)
3. High school seniors who have not completed the full sequence of the prerequisite courses must be enrolled in the second semester of these courses and have earned a grade of "C" or above for the first semester to be considered for program admission. Grades in these courses must reflect a minimum of "C". Any prescribed developmental courses must be successfully completed before the application deadline.
4. Minimum 2.5 high school or college curricular GPA – Based on Last School Attended Whether HS or College, with at least 12 credits completed
5. Competency must be demonstrated in Math and English via VPT scores or means and measures identified in Multiple Measures Placement Policy.
 1. Place into ENG 111 or Completion of ENG 111 (grade "C" or better)
 2. Proficiency in Math Modules MTE 1-6 or Completion of MTH 151 or higher (grade "C" or better)
6. A minimum of eight (8) hours of documented job shadowing in an occupational therapy setting with an occupational therapist or occupational therapy assistant should be

submitted to the program director prior to the application deadline.

Students planning to transfer to senior institutions should inform their advisors and should consider coursework that can be used for transfer.

When enrollments must be limited for any curriculum, priority shall be given to all qualified applicants who are residents of the political subdivisions (Buchanan, Dickenson [partial], Russell, or Tazewell counties), supporting the College and to Virginia residents not having access to a given program at their local community college, provided such students apply for admission to the program prior to registration or by a deadline established by the College. In addition, residents of localities with the College have clinical-site or other agreements may receive equal consideration for admission.

Students residing in the college service area will be given priority consideration for admission to the program. Out-of-region applicants will only be considered for openings in the Occupational Therapy Assistant program after all qualified in-region applicants are considered. To be considered in-region, an applicant must be domiciled within the service region for 12 months prior to the program application deadline. Students accepted into the program are required to submit a certificate reflecting a successful physical examination, signed by a licensed physician. The physical examination must be completed after receiving notification of acceptance to the program and prior to beginning classes. Immunizations must be current and include Hepatitis B and MMR. Proof of Tuberculin skin test (PPD) and CPR certification must be shown on admission to the program and kept current throughout the program.

Criminal Background Checks/Drug Testing: Background checks for criminal history and sex offender crimes against minors are required for admission to the OTA program. Students with convictions may be prohibited from clinical practice and may not complete the program. Clinical agencies may require drug testing prior to placement of students for clinical rotations. Students with positive drug test results may be prohibited from clinical practice and may not complete the program. Cost for criminal background checks and drug testing will be the responsibility of the student.

PROGRAM REQUIREMENTS:

Academic Requirements:

The student is required to complete a sequence of courses and learning experiences. Students must achieve a grade of "C" or better in all program courses. Any student receiving a grade of "D" in any of the program courses will be placed on Program Probation. That course shall be remediated once, with a written contract containing the requirements of the remediation. Please note: Students may be required to wait at least one academic year before they will have an opportunity to remediate the course. Students on program probation status will only be allowed to remediate the course if there is an open position in the class and they have approval of the program director. Dismissal from the program shall result if: 1) the student does not meet the requirements of the probationary contract; 2) the student receives a final grade of less than "C" in any program courses either during or after the period of the Program Probation; or 3) earning more than one "D" in a semester on program courses or a final grade of "F" in any coursework after admittance to the program will result in dismissal from the program. Remediated courses must be completed with a final grade of "C" or better.

Clinical and Behavioral Requirements:

Selected and supervised learning experiences are required by this program and will be accomplished at selected health care facilities. Because there are limited clinical sites within the area, students may be required to travel to other areas to complete clinical training. Students are responsible for providing their own transportation, uniforms, and living expenses during fieldwork experiences. In the fifth semester, there will be 40 hours per week of clinical time (Level II fieldwork) in two eight week segments, so students must plan their schedules accordingly. Program faculty will observe and evaluate the student. If in the judgment of the program faculty the student does not exhibit those behaviors required of the occupational therapy assistant, the student may be asked to withdraw from the program.

NOTE: All OTA students must complete Level II Fieldwork within 18 months following completion of academic preparation.

NOTE: A felony conviction may affect a graduate's ability to sit for the NBCOT certification examination or attain state licensure.

Course Number	Course Title	Lecture Hours	Lab Hours	Credits
First Semester				
BIO 141	Human Anatomy & Physiology I	3	3	4
ENG 111	College Composition I	3	0	3
HLT 143	Medical Terminology	3	0	3
OCT 100	Intro. to Occupational Therapy	3	0	3
PSY 230	¹ Development Psychology	3	0	3
SDV 104	Study Skills OR	1	0	1
SDV 100	College Success Skills			
TOTAL		16	3	17
Second Semester				
BIO 142	Human Anatomy & Physiology II	3	3	4
OCT 201	Occupational Therapy with Psychosocial Dysfunction	3	0	3
OCT 195	Topics in OT for Physical Dysfunction	2	0	2
OCT 205	Therapeutic Media	1	3	2
NAS 195	Topics in Upper Extremity Anatomy & Kinesiology	1	0	1
Elective	² Humanities/Fine Arts	3	0	3
ITE 115	³ Computers and Information Systems	3	0	3
TOTAL		16	6	18
Summer Semester				
OCT 190	Coord. Practice in OT I (Level I)	0	5	1
OCT 207	Therapeutic Skills	2	3	3
OCT 220	Occupational Therapy for the Adult	2	0	2
TOTAL		4	8	6
Third Semester				
OCT 210	Assistive Tech. in OT	2	0	2
OCT 202	Occupational Therapy with Physical Disabilities	3	3	4
OCT 203	Occupational Therapy with Developmental Disabilities	3	3	4
OCT 208	OT Service Mgmt. & Delivery	3	0	3
OCT 190	Coord. Pract. in OT II-Level I Fieldwork	0	5	1
TOTAL		11	11	14
Fourth Semester				
OCT 290	Coord. Pract. In OT III-Level II Fieldwork	0	40	6
OCT 290	Coord. Pract. In OT Iv-Level II Fieldwork	0	40	6
OCT 298	Seminar and Project in OTA	1	0	1
TOTAL		1	80	13
Total Credits for the Occupational Therapy Assistant Program				68

Footnotes:

1. PSY 231 and 232 will substitute for PSY 230.
2. Humanities electives include: ART 201, 202; literature; MUS 121, 122; PHI 101; REL 200, 210, 230; CST 130, 151, 152.
3. AST 232, ITE 100 or ITE 119 may substitute for ITE 115.

Radiography

Associate of Applied Science Degree

Program Coordinator: Christy Lee • NEB 132 • 276-739-2488
SWCC • 276-964-7341

Length: Two Years (six semesters)**

Program offered in cooperation with Southwest Virginia Community College. Degree awarded by Virginia Highlands Community College.

**Program with practical experience in a radiology department to complete requirements for ARRT certification.

Program Mission: The cooperative Radiologic Technology Program at Southwest Virginia Community College is dedicated to serve students from southwest Virginia and east Tennessee. The Program will provide a quality educational experience in the art and science of radiologic technology and help the students succeed, both academically and clinically, as entry-level radiographers. It is the Program's aim to provide a sound foundation for our students towards building a rewarding professional career, and an opportunity to qualify as a valued contributing member in the healthcare team for our region.

See Radiography Program Effectiveness Data online at:
<https://sv.edu/catalogs/wp-content/uploads/Radiography-Program-Effectiveness-Data.pdf>

Accreditation: This program is fully accredited by the Joint Review Committee for Radiologic Technology Education (JRCERT), 20 North Wacker Drive, Suite 2850, Chicago, Illinois, 60606-3182, phone (312)704-5300. You may also contact JRCERT at mail@jrcert.org or at www.jrcert.org. Detailed Program Effectiveness Data is available from the link on the right side of the page. The JRCERT also publishes program effectiveness data, available at <https://portal.jrcertaccreditation.org/accredited-educational-programs/details/3fdeb5d1-39bf-4da8-8aff-0f5fe1a817a0>.

Occupational Objectives: Employment opportunities for well-trained registered radiographer are available in hospitals, clinics, education, industry, government agencies, and private offices.

Admission Requirements: In addition to the general admission requirements to the College, applicants must be high school graduates, or equivalent, and must reflect "C" average. A cumulative GPA of 2.0 must be achieved on all college work.

To meet the Radiography Program specific admission requirements the applicant must have completed and submit for file at the college by January 15th:

- One unit of biology with lab, and one unit of chemistry with lab with a "C" or better.
- Biology 101 and Chemistry 5 or 111 at VHCC will be considered equivalent to high school biology and chemistry.
- Completion of Virginia Placement Test (VPT) within two years prior to application which includes sections in reading, writing and mathematics. Satisfactory scores in English and proficiency in MTE 1-6 are required. If a college-level math class equivalent to MTH 154 or higher with a grade of "C" or higher has been completed within the past 5 years this will meet the math proficiency requirement. All prescribed development work must be completed prior to admission to program.
- Submit a Radiography application (including all high school and college transcripts or copy of GED) by the January 15 deadline.
- Hospital observation requirement in a Radiology Department for a minimum of twelve (12) hours; this observation is to be documented by radiology personnel denoting date(s) and time(s)
- Attend an information session with Radiography Program faculty.
- Applicants to the Radiography program must have taken the Test of Essential Academic Skills - also known as the ATI TEAS - Allied Health within the last five years. (We will also accept the ATI TEAS, if students have taken that version in order to apply to a nursing program.) The ATI TEAS Score Report (PDF) must be attached to the application sent to admissions, and emailed to both

christy.lee@sw.edu and donna.corns@sw.edu. Register for the TEAS test at www.atitesting.com. Choose Abingdon, Virginia for testing delivered at Virginia Highlands

The Radiology Program admission requirements listed must be completed and on file at the college by January 15.

Students should make their advisor aware of any plans to transfer to a senior institution. Students who are planning to transfer to a senior institution may be advised to take upper-level math and science courses as prerequisites to the Radiography Program.

Students selected for the Radiography Program are required to submit a Health Certificate complete with a physical examination/vaccination history signed by a physician prior to final admission to the program. The certificate will be furnished by the program and when returned, it will be kept on file for program documentation. Applicants are to wait for selection notification from the program before proceeding with the physical examination due to the expense involved.

When enrollments must be limited for any curriculum, priority shall be given to all qualified applicants who are residents of the political subdivisions (Buchanan, Dickenson [partial], Russell, or Tazewell counties), supporting the College and to Virginia residents not having access to a given program at their local community college, provided such students apply for admission to the program prior to registration or by a deadline established by the College. In addition, residents of localities with which the College has clinical-site or other agreements may receive equal consideration for admission. To be considered as a Virginia resident, an applicant must be domiciled within Virginia for 12 months prior to January 15. Applicants moving out-of-state between January 15 and the first day of classes will lose their preferred status and any offer of admission to the program will be withdrawn. Out-of-region applicants who are Virginia residents will be considered for program openings available after April 1 and out-of-state applicants for openings available May 1.

TECHNICAL STANDARDS:

Physical Demands:

- Duties frequently require squatting, bending, kneeling, reaching, and stair climbing. Also includes occasional crawling and climbing.
- Duties include lifting/positioning of patients and equipment required to provide care:
 - frequent lifting and carrying up to 50 pounds
 - frequent pushing and pulling up to 200 pounds with assistance
 - occasional lifting up to 200 pounds with assistance
 - occasional carrying up to 51-74 pounds
- Duties require constant use of acute sense of sight, hearing, and touch.
 - ability to read orders, test results, instructions, labels differentiate color, consistency
 - must be able to hear heart sounds, etc.
 - must be able to palpate and distinguish heat/cold

Environmental Conditions:

Environmental conditions include procedures that involve handling blood and body fluids using universal precautions.

Program Requirements: Upon admission and during the course of the program, the radiologic faculty will carefully observe and evaluate the student's suitability for the profession. If, in the opinion of the radiologic faculty, a student does not exhibit professional behavior, the student may be asked to withdraw from the program.

Once enrolled, students who receive a final grade lower than "C" in any of the courses in radiography or related areas must obtain permission from the program director to continue the major in radiography.

Selected learning experiences will be provided at the cooperating hospitals within the geographic areas served by the college. The student is expected to provide transportation to such facilities. Travel, time and expense, must be anticipated because of program design and location. Travel distance will vary from 1-60 miles one way from your home campus depending on the hospital clinical assignment.

The purchase of items such as student's uniforms, accessories, and liability insurance is the financial responsibility of the individual student.

Criminal Background Checks/Drug Testing:

Background checks for criminal history and sex offender crimes against minors are required for entrance into some clinical agencies. Students with convictions may be prohibited from clinical practice and may not complete the program. Clinical agencies may require drug testing prior to placement of students for clinical rotations. Students with positive drug test results may be prohibited from clinical practice and may not complete the program. Cost for criminal background checks and drug testing will be the responsibility of the student.

Radiography is a cooperative program with Southwest Virginia Community College and Virginia Highlands Community College.

Program Contact: Christy Lee, VHCC: clee@vhcc.edu, 276-739-2488 or SWCC: christy.lee@sw.edu, 276-964-7341

Footnotes:

1. Students who wish to pursue a Baccalaureate Degree are advised to take both ENG 111 and 112.
2. RAD 190 – 2 credit hour (Term I) - 5 week summer sessions will spend 30 hours per week for 5 weeks, equaling 150 total hours.
3. RAD 190 – 3 credit hour (Term II) – 5 week summer sessions will spend 40 hours per week for 5 weeks, equaling 200 total hours.
4. Students may substitute PSY 231-232 (both required) for PSY 230. Humanities/Fine Arts: Students may choose from the following courses: Philosophy, Religion, Music Appreciation and Art Appreciation.

Download the [Radiography Handbook](#) [pdf]

Download the [Shadowing/Observation Form](#) [pdf]

Course Number	Course Title	Lecture Hours	Lab Hours	Credits
Summer Session				
RAD 105	Intro to Radiology Protection & Patient Care (Term II)	3	0	3
SDV 100	College Survival Skills	1	0	1
RAD 195	Ethics & Teamwork (Term II)	1	0	1
ENG 111	¹ College Composition	3	0	3
Total		8	0	8
First Semester (Fall)				
MTH 154	Quantitative Reasoning	3	0	3
BIO 141	Human Anatomy & Physiology I	3	3	4
RAD 110	Imaging Equipment and Protection	3	0	3
RAD 121	Radiographic Procedures I	3	3	4
Total		12	6	14
Second Semester (Spring)				
HLT 143	Medical Terminology	3	0	3
BIO 142	Human Anatomy and Physiology II	3	3	4
RAD 112	Radiologic Science II	3	3	4
RAD 221	Radiographic Procedures II	3	3	4
Total		12	9	15
Summer Session				
RAD 205	Radiation Protection & Radiobiology (Term I)	3	0	3
RAD 190	² Coordinated Internship (Term I)	0	10	2
RAD 190	³ Coordinated Internship (Term II)	0	15	3
Total		3	25	8
Third Semester (Fall)				
RAD 290	Coordinated Internship	0	15	3
RAD 290	Coordinated Internship	0	15	3
RAD 246	Special Procedures	2	0	2
RAD 270	Digital Image Acquisition & Display	1	3	2
PHY 230	Developmental Psychology	3	0	3
Total		6	33	13
Fourth Semester (Spring)				
RAD 290	Coordinated Internship	0	15	3
RAD 290	Coordinated Internship	0	15	3
RAD 240	Radiographic Pathology	3	0	3
RAD 215	Correlated Radiographic Theory	2	0	2
EEE	⁴ Humanities/Fine Arts Elective	3	0	3
Total		8	30	14
Total Minimum Credits for the AAS Degree				72

Health Sciences

Certificate

Program Coordinator: Kathy Mitchell, PhD, MSN, RN
NEB 144 • 276-739-2439

Length: Two semesters (one year)

Purpose: The growth and development of health professions as well as the changes in health care, requires the health care provider be multi-skilled and well prepared. This program is designed for those individuals interested in entering the health professions. The program will enable students interested in health care professions to acquire an academic foundation to continue their education in one of the health programs. Students should consult an academic advisor for any course substitutions to this curriculum.

Occupational Objective: Preparation for entry into the health professions.

Admission Requirements: The applicant must meet the general requirements for admission to the College including any developmental coursework.

Course Number	Course Title	Lecture Hours	Lab Hours	Credits
First Semester (Fall)				
ENG 111	College Composition I	3	0	3
BIO 141	Human Anatomy & Physiology I	3	3	4
SDV 101	Orientation to College Success	1	0	1
EEE	Humanities Elective (REL 230, ENG 241, 243, 251, MUS 121, or ART 201)	3	0	3
PSY 230	Developmental Psychology	3	0	3
MTH 155 or SOC 200 or HLT 143	Statistical Reasoning or Principles of Sociology Medical Terminology	3	0	3
Total		16	3	17
Second Semester (Spring)				
ENG 112	College Composition II	3	0	3
BIO 142	Human Anatomy & Physiology II	3	3	4
BIO 150	Introductory Microbiology	3	3	4
ITE 119	Information Literacy	3	0	3
Total		12	6	14
Total Minimum Credits for Certificate				31

Computerized Tomography

Career Studies Certificate

Program Coordinator: Christy Lee • NEB 132 • 276-739-2488
SVCC • 276-964-7341

Length: Two Semesters

Purpose: The Career Studies Certificate in Computed Tomography Imaging is designed to prepare selected students to qualify as contributing members of the allied health interdisciplinary team. Upon completion of the curriculum (and successful completion and documentation of all required clinical competencies as set for by the American Registry of Radiologic Technologists), the student is eligible to apply to take the National Registry examination leading to advanced certification as a Registered Radiographer in CT by the ARRT.

Admission Requirements: The student in Computed Tomography must have completed an approved program in radiography, radiation therapy, or nuclear medicine technology (either ARRT or NMTCB). Students must be either ARRT or CNMT registered technologists in order to be eligible for entry into the CT program. All students must have a current CPR certification and must maintain that certification throughout the program. Applicants must have maintained a "C" average in past program courses in the discipline or certification.

Applicants must provide the following prior to consideration for admission.

- Application to SWCC
- Official transcripts of all other colleges attended
- CT Program Application

The student in Computerized Tomography must abide by all community college policies as well as hospital policies while enrolled in the program.

Program Requirements: Upon admission and during the course of study, the college and hospital faculty will carefully observe and evaluate the student's progress. If, in the opinion of the faculty, a student does not exhibit professional behavior, the student will be asked to withdraw from the program. Students will not be eligible to receive the certificate until a grade of "C" or better is obtained in each of the required courses.

Criminal Background Checks/Drug Testing: Background checks for criminal history and sex offender crimes against minors are required for entrance into some clinical agencies. Students with convictions may be prohibited from clinical practice and may not complete the program. Clinical agencies may require drug testing prior to placement of students for clinical rotations. Students with positive drug test results may be prohibited from clinical practice and may not complete the program. Cost for criminal background checks and drug testing will be the responsibility of the student.

Course Number	Course Title	Lecture Hours	Lab Hours	Credits
Fall Semester				
RAD 247	Cross Sectional Anatomy for CT/MR	3	0	3
RAD 242	CT Procedures and Instrumentation	2	0	2
RAD 195	Topics in Pharmacology for Technologies	1	0	1
RAD 196	On Site Training Clinical Internship in CT	0	5	1
Total		6	5	7

Course Number	Course Title	Lecture Hours	Lab Hours	Credits
Spring Semester				
RAD 295	Topics in CT Registry Preparation	3	0	3
RAD 196	¹ On Site Training Clinical Internship in CT	0	10	2
HLT 143	Medical Terminology I	3	0	3
HLT 145	Ethics for Healthcare Personnel	2	0	2
Total		8	10	10
Total Minimum Credits for Career Studies Certificate				17

Footnote:

1. Students who can provide documentation of continuous employment in CT for a minimum of 1 year prior to the application deadline have the option of NOT completing the RAD 196 clinical class requirements.

Dental Assisting

Career Studies Certificate

Program Coordinator: Patricia Mullins • NEB 142 • (276)739-2544

Length: Two Semesters

Purpose: This program will prepare individual to serve as dental assistants in both large and small dentist offices. Training experiences in nearby dental clinics and private dental offices are provided.

Dental assistants typically do the following:

- Ensure that patients are comfortable in the dental chair
- Prepare patients and the work area for treatments and procedures
- Sterilize dental instruments
- Help dentists by handing them instruments during procedures
- Keep patients' mouths dry by using suction hoses and other equipment
- Instruct patients in proper oral hygiene
- Process x rays and complete lab tasks, under the direction of a dentist
- Keep records of dental treatments
- Schedule patient appointments
- Work with patients on billing and payment

Occupational Objectives: This program is designed to provide essential technological and practical knowledge required for a Dental Assistant I to perform efficiently in a dental office. Training experiences in nearby dental offices and clinics are provided.

At the successful completion of this program, the student will be eligible to take the Dental Assistant National Board Examination for entry into the profession as a Dental Assistant I (DA I) and/or National Entry Level Dental Assistant (NELDA).

The number of qualified applicants offered admission to the dental assisting program is contingent upon the space available in the classrooms and dental laboratories, the program's access to sufficient clinical spaces in the region's healthcare settings in order to meet the program's learning outcomes, and the number of qualified dental assisting faculty to teach the students in classrooms, labs, and clinical settings.

This program demands a high level of English proficiency as well as extensive reading and writing.

Admission Requirements

- Completion of the VHCC Application
- Graduation from high school or satisfactory completion of the GED with all transcripts on file with Student Services
- Completion of a high school or college science course with a "C" or better or documented proficiency.
- Completion of high school or college computer applications course with a "C" or better or documented proficiency.
- Achievement of a minimum GPA (high school or college) or 2.0.
- Dental Assisting program application packets for 2018, including transcripts, will be accepted in the Admissions Office until July 7, 2018.
- Completion of the Health Occupations Aptitude Examination (HOAE)
- Participation in program informational session and possible interview.

Special Program Requirements

- Students in dental assisting program incur a variety of expenses in addition to college tuition and fees. These include, but are not limited to, the cost of uniforms, accessories, and travel to clinical assignments. Students are also responsible for testing fees.
- A strict dress code is required in the clinical setting. Students may be dismissed if they fail to comply with this dress code.
- Students are required to complete learning experiences at local clinics, private offices, and/or other community-based agencies. Students may be required to attend both day and/or evening clinical assignments.
- Students must provide their own transportation to clinical assignments. Strict attendance is required at clinical sites. Students

with criminal convictions who do not self-disclose this information are subject to dismissal from the program.

- Students must comply with all clinical contract protocols including immunization requirements, drug screening and background checks. Cost for criminal background checks and drug screenings will be the responsibility of the student. Students with criminal convictions who do not self-disclose this information are subject to dismissal from the program.
- Students must maintain current American Heart Association Basic Cardiac Life Support for Healthcare Providers.
- While enrolled in clinical courses, students may not replace or take the responsibility of "qualified" staff in affiliated facilities. However, after demonstrating proficiency, students may be permitted to perform specified procedures under careful supervision. Students may be employed in clinical facilities outside regular education hours provided that such work does not interfere with academic responsibilities. The work must be non-compulsory and subject to employee regulations. Any exception must have the approval of the Dean of Nursing and Health Technologies.
- Students are expected to demonstrate professional behavior consistent with standards associated with health care practitioners.
- Each course in the program major must be completed with a grade of "C" or better before taking the next course in the sequence and to satisfy graduation requirements, unless waived by the Division Dean upon the recommendation of the Program Director.
- All courses in the major must be taken in the sequence prescribed in the VHCC Catalog, unless otherwise approved by the Program Coordinator or Division Dean.
- Satisfactory physical and mental health must be maintained for continuance in the program. Applicants must be free of any physical and/or mental condition that might adversely affect their acceptance or performances in the program. The College reserves the right to require medical examinations to verify continuing compliance. Students with pre-existing physical and/or mental conditions which might adversely affect performance in the program who do not self-disclose this information are subject to dismissal from the program.

Program Re-Enrollment Requirements for Dental Assisting Students

Any student who has voluntarily withdrawn or who has been withdrawn due to unsatisfactory academic or clinical performance may apply for re-admission the following academic year. Acceptance will be based upon space availability, successful fulfillment of any contingencies agreed to in writing at the time of withdrawal, and Program Director approval.

Course Number	Course Title	Lecture Hours	Lab Hours	Credits
Semester 1				
DNA 100	Intro. to Oral Health Professions	1	0	1
DNA 108	Dental Science	2	3	3
DNA 109	Practical Infection Control	2	3	3
DNA 110	Dental Materials	2	3	3
DNA 113	Chairside Assisting I	2	3	3
Total		9	12	13
Semester 2				
DNA 114	Chairside Assisting II	2	6	4
DNA 120	Community Health	1	0	1
DNA 130	Dental Office Management	1	3	2
DNA 134	Dental Radiology and Practicum	2	3	3
HLT 105	Cardiopulmonary Resuscitation	1	0	1
Total		7	12	11

Total Minimum Credits for Career Studies Certificate **24**

Emergency Medical Technician

Career Studies Certificate

Program Coordinator: Bill Akers, Jr., MS, NRP, Program Director
276-964-7729 • bill.akers@sw.edu

Length: One Semester

Purpose: The purpose of this curriculum is to produce competent, entry-level Emergency Medical Technicians who can provide basic life support and care to the sick and injured via the Emergency Medical Services (EMS) infrastructure. Upon successful completion of the program, students will be eligible for National Registry testing and certification in the Commonwealth of Virginia. Employment opportunities for EMTs are available with ambulance services, fire and rescue departments, hospitals, local, state and federal government agencies, and humanitarian relief organizations.

Program Goals: At the completion of the program:

- The student will demonstrate technical proficiency in all skills necessary to fulfill the role of an entry-level EMT.
- The graduate of the program will demonstrate the ability to comprehend, apply, and evaluate the clinical information relative to his/her role as an entry-level EMT,
- The student will demonstrate personal behaviors consistent with professional and employer expectations for the entry-level EMT.

Approval: This program is approved by the Virginia Office of Emergency Medical Services

Admission Requirements: Admission to the program will be governed by the requirements for general admission to the College and the Commonwealth of Virginia Office of Emergency Medical Services. Individuals who have a felony conviction may not be eligible to take the certification exam. To enroll in EMS courses the student must test above ENF 1 and MTE 1 on the college placement test or have equivalent scores on the ACT, SAT, etc.

PROGRAM REQUIREMENTS:

Physical Requirements: This program requires extensive walking, stooping, bending, pushing, pulling, climbing stairs, and lifting. Lifting and carrying requirements: at least 125 pounds; motor coordination is necessary because over uneven terrain, the patients', EMTs' and other workers' well-being must not be jeopardized. Further, extensive use of sight, hearing, and speaking is required. An EMS provider is faced with many physical and psychological challenges. Please refer to the Virginia Office of Emergency Medical Services web site for a more detailed functional job description-
<http://www.vdh.virginia.gov/ems/training>.

Academic Requirements: Any student receiving a grade of less than "C" in any of the required program courses will be placed on programmatic academic probation. That course shall be remediated once. Remediated courses must be completed with a final grade of "C" or better.

Clinical and Behavioral Requirements: Selected and supervised student clinical experience is required by the program and will be accomplished at selected, regional health care facilities and licensed EMS agencies. The student is responsible for transportation to these facilities, as well as to any scheduled field trips or combined program classes. Program preceptors will observe and evaluate the student's suitability for the profession. If the student does not exhibit those documented behaviors required of the EMS professional, the student may be asked to withdraw from the program.

Other Requirements: In addition to basic college costs such as tuition and fees, this program requires expenditures for uniforms, books, immunizations and physical, testing fees, certification courses and some medical equipment items. Students are also responsible for their own transportation to clinical sites.

Course Number	Course Title	Lecture Hours	Lab Hours	Credits
EMS 111	Emergency Medical Technician - Basic	5	4	7
EMS 120	EMT-Basic Clinical	0	2	1
HLT 105	Cardiopulmonary Resuscitation	1	0	1
Total				9
Total Minimum Credits for Career Studies Certificate				9

Emergency Medical Technology - Intermediate

Careers Studies Certificate

Please Note: This program will no longer be offered by VCCS programs after July 2018 due to Virginia no longer certifying new providers at this level after 2019. Changes will be published in Catalog Addendum.

Program Coordinator: Bill Akers, Jr., MS, NRP, Program Director
276-964-7729 • bill.akers@sw.edu

Length: Three Semesters

***Offered in cooperation with Southwest Virginia Community College. Degree awarded by Virginia Highlands Community College**

Purpose: The purpose of this curriculum is to produce competent entry-level Emergency Medical Technician-Intermediates (EMT-I/99) who can service the community with advanced life support care via the Emergency Medical Services (EMS) infrastructure. Upon completion of the program, students will be eligible for National Registry testing and certification in the Commonwealth of Virginia. Employment opportunities for EMT-Intermediates are available with ambulance; fire and rescue services; hospitals; local, state and federal government agencies; and humanitarian relief organizations.

Program Goals:

At the completion of the program the graduate will be able to demonstrate:

1. The ability to comprehend, apply, and evaluate the clinical information relative to his role as an entry-level EMT-Intermediate;
2. Technical proficiency in all skills necessary to fulfill the role of an entry-level EMT-Intermediate; and
3. Personal behaviors consistent with professional and employer expectations for the entry-level EMT-Intermediate.

Admission Requirements:

Prior to the starting program courses, the applicant must:

1. Meet eligibility requirements as stipulated by the Virginia Office of EMS; and
2. Meet the college's general admission requirements.

Accreditation: This program is accredited nationally by the Committee on Accreditation of Allied Health Educational Programs (CAAHEP), 25400 U.S. Highway 19 North, Suite 158, Clearwater FL, 33763, phone 727-210-2350.

Selection Process:

To be eligible for selection to the program, **interested persons should complete the following process by May 10:**

1. Submit a college admission application.
2. Submit an application to the program (separate document) with required attachments.
3. Complete the VPT English and Math assessment. To enroll in EMS courses the student must test above ENF 1 and MTE 1 on the college placement test or have equivalent scores on the ACT, SAT, etc. (or submit satisfactory SAT or ACT scores).
4. Have transcripts of previous college courses sent to the college.

At this time the first round of students will be selected. Selection will be based on previous college coursework, interview, entrance exam, and college placement reading scores. Students should place into ENF 3 or higher to be eligible for consideration in the first round of selection. Should openings still be available, persons who apply or meet requirements after May 10, or score lower than cut score on the reading exam will be considered.

Program Requirements:

Physical Requirements: An EMS provider is faced with many physical and psychological challenges. Please refer to the Office of Emergency Medical Services web site for a more detailed functional job description. <http://www.vdh.virginia.gov/content/uploads/sites/23/2017/04/BLS-Student-Handouts-for-Initial-Certification-Programs.pdf> pp. 16-25.

Academic Requirements: Students must make a "C" or better in all program core courses. Any student receiving a grade less than "C" will be placed on programmatic academic probation. That course shall be remediated. Remediated courses must be completed with a final grade of "C" or better.

Clinical and Behavioral Requirements: Selected and supervised student experience is required by the program and will be accomplished at selected, regional health care facilities. The student is responsible for transportation to these facilities, as well as to any scheduled field trips. Program preceptors will observe and evaluate the student's suitability for the profession. If the student does not exhibit those documented behaviors required of the EMS professional, the student might be asked to withdraw from the program.

Other Requirements: Applicants accepted to the program are required to submit a health certificate signed by a licensed physician, physician's assistant or RNP and should include documentation of measles, mumps, Rubella (MMR) and chicken pox exposure or inoculations; documentation of Hepatitis B inoculation; Tuberculosis testing; and overall general health of the applicant. A criminal background check and drug screening is also done to confirm compliance with state regulations. See <http://www.vdh.virginia.gov/content/uploads/sites/23/2017/04/BLS-Student-Handouts-for-Initial-Certification-Programs.pdf> pp. 6-7.

The purchase of items such as uniforms, liability insurance and other accessories is the financial responsibility of the individual student. Students who elect to take support courses recommended by the Program Director prior to formal acceptance into the program will find this activity to be advantageous in subsequent course scheduling.

Course Number	Course Title	Lecture Hours	Lab Hours	Credits
First Semester (Summer)				
EMS 111	Emergency Medical Technician - Basic	5	4	7
EMS 120	EMT-Basic Clinical	0	2	1
Total		5	6	8
Second Semester (Fall)				
EMS 151	Intro to Advanced Life Support	3	2	4
EMS 152	AEMT Completion	1	2	2
EMS 153	Basic ECG Recognition	2	0	2
EMS 170	ALS Internship I	0	3	1
Total		6	7	9
Third Semester (Spring)				
EMS 154	ALS - Cardiac Care	1	2	2
EMS 157	ALS - Trauma Care	2	2	3
EMS 159	EMS Special Populations	2	2	3
EMS 172	ALS Clinical Internship II	0	3	1
EMS 173	ALS Field Internship II	0	3	1
Total		5	12	10
Total Minimum Credits for Career Studies Certificate				27

Emergency Medical Technology - Paramedic

Career Studies Certificate

Note: A new statewide curriculum will be published in July 2018 and courses will change. Changes will be published in Catalog Addendum.

Program Coordinator: Bill Akers, Jr., MS, NRP, Program Director
276-964-7729 • bill.akers@sw.edu

Length: Three semesters

Purpose: The purpose of this curriculum is to produce competent entry-level Emergency Medical Technician-Paramedics (EMT-P) who can service the community with advanced life support care via the Emergency Medical Services (EMS) infrastructure. Upon completion of the program, students will be eligible for National Registry testing and certification in the Commonwealth of Virginia. Employment opportunities for Paramedics are available with ambulance; fire and rescue services; hospitals; local, state and federal government agencies; and humanitarian relief organizations.

Program Goals:

At the completion of the program the graduate will be able to demonstrate:

- The ability to comprehend, apply, and evaluate the clinical information relative to his role as an entry-level paramedic;
- Technical proficiency in all skills necessary to fulfill the role of an entry-level paramedic; and
- Personal behaviors consistent with professional and employer expectations for the entry-level paramedic.

Admission Requirements:

Prior to the starting program courses, the applicant must:

1. Meet eligibility requirements as stipulated by the Virginia Office of EMS; and
2. Be certified as an EMT-Intermediate and have three years experience at or above that level; and
3. Meet the college's general admission requirements.

Accreditation: This program is accredited nationally by the Committee on Accreditation of Allied Health Educational Programs (CAAHEP), 25400 U.S. Highway 19 North, Suite 158, Clearwater FL, 33763, phone 727-210-2350.

Selection Process:

To be eligible for selection to the program, **interested persons should complete the following process by May 10:**

1. Submit a college admission application.
2. Submit an application to the program (separate document) with required attachments.
3. Complete the VPT English and Math assessment. To enroll in EMS courses the student must test above ENF 1 and MTE 1 on the college placement test or have equivalent scores on the ACT, SAT, etc. (or submit satisfactory SAT or ACT scores).
4. Have transcripts of previous college courses sent to the college.

At this time the first round of students will be selected. Selection will be based on previous college coursework, interview, entrance exam, and college placement reading scores. Students should place into ENF 3 or higher to be eligible for consideration in first round of selection. Should openings still be available, persons who apply or meet requirements after May 10, or score lower than cut score on the reading exam will be considered.

PROGRAM REQUIREMENTS:

Physical Requirements:

An EMS provider is faced with many physical and psychological challenges. Please refer to the Office of Emergency Medical Services web site for a more detailed functional job description.

<http://www.vdh.virginia.gov/content/uploads/sites/23/2017/04/BLS-Student-Handouts-for-Initial-Certification-Programs.pdf> pp. 16-25.

Academic Requirements:

Students must make a "C" or better in all program core courses. Any student receiving a grade less than "C" will be placed on programmatic academic probation. That course shall be remediated. Remediated courses must be completed with a final grade of "C" or better.

Clinical and Behavioral Requirements:

Selected and supervised student experience is required by the program and will be accomplished at selected, regional health care facilities. The student is responsible for transportation to these facilities, as well as to any scheduled field trips. Program preceptors will observe and evaluate the student's suitability for the profession. If the student does not exhibit those documented behaviors required of the EMS professional, the student might be asked to withdraw from the program.

Other Requirements:

Applicants accepted to the program are required to submit a health certificate signed by a licensed physician, physician's assistant or RNP and should include documentation of measles, mumps, Rubella (MMR) and chicken pox exposure or inoculations; documentation of Hepatitis B inoculation; Tuberculosis testing; and overall general health of the applicant. A criminal background check and drug screening is also done to confirm compliance with state regulations. See <http://www.vdh.virginia.gov/content/uploads/sites/23/2017/04/BLS-Student-Handouts-for-Initial-Certification-Programs.pdf> pp. 6-7.

The purchase of items such as uniforms, liability insurance and other accessories is the financial responsibility of the individual student. Students who elect to take support courses recommended by the Program Director prior to formal acceptance into the program will find this activity to be advantageous in subsequent course scheduling.

Note: A new statewide curriculum will be published in July 2018 and courses will change.

Course Number	Course Title	Lecture Hours	Lab Hours	Credits
First Semester (Summer)				
EMS 213	ALS Skills Development	0	4	2
SCI	¹ Human Anatomy & Physiology	3	1	4
Total		3	5	6
Second Semester (Fall)				
EMS 205	Advanced Pathophysiology	4	0	4
EMS 209	Advanced Pharmacology	3	2	4
EMS 242	ALS Clinical Internship III	0	3	1
EMS 243	ALS Field Internship III	0	3	1
Total		7	6	10
Third Semester (Spring)				
EMS 201	EMS Professional Development	3	0	3
EMS 207	Advanced Patient Assessment	2	2	3
EMS 211	Operations	1	2	2
EMS 244	ALS Clinical Internship IV	0	3	1
EMS 245	ALS Field Internship IV	0	3	1
Total		6	10	10
Total Minimum Credits for Career Studies Certificate				26

Footnote:

1. Students should take BIO 141 and 142 or BIO 145. It is recommended that students who are planning to transfer to another medically related program complete BIO 141-142.

Magnetic Resonance Imaging

Career Studies Certificate

Program Coordinator: Christy Lee • NEB 132 • 276-739-2488
SVCC • 276-964-7341

Length: One semester

Program designed to prepare radiographers for employment in Magnetic Resonance Imaging.

Purpose: The rapid growth of the health care industry has created a need for trained, high skilled magnetic resonance imaging technologists. The curriculum is designed to train and prepare radiographers for employment as magnetic resonance imaging technologists upon completion of the certificate program.

Admission Requirements: The student in Magnetic Resonance Imaging must have completed an approved program in radiography, ultrasound, or nuclear medicine technology. The student must be registered or registry eligible by the appropriate certification agency. All students must have a current CPR certification and must maintain that certification throughout the program. Applicants must have maintained a "C" average in past program courses in the discipline of certification.

Applicants must have an interview with a member of the Radiography program faculty prior to admission.

The student in Magnetic Resonance Imaging must abide by all community college policies as well as hospital policies while enrolled in the program.

Program Requirements: Upon admission and during the course of the program, the College and hospital faculty will carefully observe and evaluate the student's progress. If, in the opinion of the faculty, a student does not exhibit professional behavior, the student may be asked to withdraw from the program.

Students who receive a final grade lower than "C" in any course will not receive a certificate until a grade of "C" or better is obtained.

Course Number	Course Title	Lecture Hours	Lab Hours	Credits
RAD 115	Principles of Magnetic Resonance Imaging	2	0	2
RAD 126	¹ Advanced Imaging Procedures	2	2	3
RAD 136	Clinical Procedures in MRI	0	15	3
RAD 298	² Seminar & Project	2	2	3
RAD 175	Case Studies in MRI	2	2	3
Total		8	21	14

Total Minimum Credits for Career Studies Certificate **14**

Footnotes:

1. This course is required for MRI and CT. Students enrolling in the joint program of MRI/CT need to take the course once.
2. This course is required for MRI or CT. Students enrolling in the joint program of MRI/CT do not have to complete the course in the CT portion of the curriculum.

Medical Assisting

Career Studies Certificate

Program Coordinator: Kim Felty • NEB 136 • (276)739-2534

Length: Two Semesters

Purpose: This program will prepare individuals to serve as medical assistants in various medical office settings. Medical assistants typically do the following:

- Record patient history and personal information
- Measure vital signs, such as blood pressure
- Help the physician with patient examinations
- Give patients injections or medications as directed by the physician and as permitted by state law
- Schedule patient appointments
- Prepare blood samples for laboratory tests
- Enter patient information into medical records

Occupational Objectives: This program is designed to provide essential technological and practical knowledge required for a medical assistant to perform patient clinical skills in various medical office settings. Training experiences in nearby medical offices are provided.

At the successful completion of this program, the student will be eligible to take the CCMA exam offered by the National Healthcareer Association (NHA) for entry into the profession as a Certified Clinical Medical Assistant (CCMA).

The number of qualified applicants offered admission to the medical assisting program is contingent upon the space available in the classrooms and medical assistant laboratories, the program's access to sufficient clinical spaces in the region's healthcare settings in order to meet the program's learning outcomes, and the number of qualified medical assisting faculty to teach the students in classrooms, labs, and clinical settings.

This program demands a high level of English proficiency as well as extensive reading and writing.

Admission Requirements

- Completion of the VHCC Application
- Graduation from high school or satisfactory completion of the GED with all transcripts on file with Student Services
- Completion of a high school or college science course with a "C" or better or documented proficiency.
- Completion of Algebra I with a "C" or better or documented proficiency.
- Completion of high school or college computer applications course with a "C" or better or documented proficiency.
- Achievement of a minimum GPA (high school or college) or 2.0.
- Medical Assisting Program application packets for 2018, including transcripts, will be accepted in the Admissions Office until July 10, 2018.
- Participation in program informational session and possible interview and possible interview.
- Completion of the Health Occupations Aptitude Examination (HOAE)

Special Program Requirements

- Students in medical assisting program incur a variety of expenses in addition to college tuition and fees. These include, but are not limited to, the cost of uniforms, accessories, and travel to clinical assignments. Students are also responsible for testing fees.
- A strict dress code is required in the clinical setting. Students may be dismissed if they fail to comply with this dress code.
- Students are required to complete learning experiences at local clinics, private offices, and/or other community-based agencies. Students may be required to attend both day and/or evening clinical assignments.
- Students must provide their own transportation to clinical assignments. Strict attendance is required at clinical sites.

- Students must comply with all clinical contract protocols including immunization requirements, drug screening and background checks. The cost for criminal background checks, drug screenings, immunizations, and physicals will be the responsibility of the student. Students with criminal convictions who do not self-disclose this information are subject to dismissal from the program.
- Students must maintain current American Heart Association Basic Cardiac Life Support for Healthcare Providers.
- While enrolled in clinical courses, students may not replace or take the responsibility of "qualified" staff in affiliated facilities. However, after demonstrating proficiency, students may be permitted to perform specified procedures under careful supervision.
- Students are expected to demonstrate professional behavior consistent with standards associated with health care practitioners.
- Each course in the program major must be completed with a grade of "C" or better before taking the next course in the sequence and to satisfy graduation requirements, unless waived by the Division Dean upon the recommendation of the Program Director.
- All courses in the major must be taken in the sequence prescribed in the VHCC Catalog, unless otherwise approved by the Program Coordinator or Division Dean.
- Satisfactory physical and mental health must be maintained for continuance in the program. Applicants must be free of any physical and/or mental condition that might adversely affect their acceptance or performances in the program. The College reserves the right to require medical examinations to verify continuing compliance. Students with pre-existing physical and/or mental conditions which might adversely affect performance in the program who do not self-disclose this information are subject to dismissal from the program.

Program Re-Enrollment Requirements for Medical Assisting Students

Any student who has voluntarily withdrawn or who has been withdrawn due to unsatisfactory academic or clinical performance may apply for re-admission the following academic year. Acceptance will be based upon space availability, successful fulfillment of any contingencies agreed to in writing at the time of withdrawal, and Program Director approval.

Course Number	Course Title	Lecture Hours	Lab Hours	Credits
Semester 1				
MDA 100	Intro. to Medical Assisting	2	0	2
MDA 101	Medical Assistant Science I	4	2	5
MDA 203	Medical Office Procedures	2	3	3
MDA 209	Medical Office Insurance	1	3	2
Total		9	8	12
Semester 2				
MDA 102	Medical Assistant Science II	1	3	2
MDA 104	Medical Assistant Science IV	2	3	3
MDA 107	Pharmacology for Medical Assistants	2	0	2
MDA 196	On-Site Training	0	12	4
HLT 105	Cardiopulmonary Resuscitation	1	0	1
Total		6	18	12
Total Minimum Credits for Career Studies Certificate				24



Curriculum & Program Requirements

Public Service Technology

Administration of Justice

Associate of Applied Science Degree

Program Coordinator: Robin Widener • OTC 110 • 276-739-2408

Length: Four semesters (two years)

Purpose: The curriculum in Administration of Justice is designed to improve the knowledge and skills of the practitioner in criminal justice and to prepare individuals for career service in this field.

Occupational Objectives: Police Officer, Investigator, Probation and Parole Worker, Security Officer, Juvenile Worker, Corrections Officer, Local, State, or Federal Enforcement Officer

Admission Requirements: A student eligible for admission to the college can normally be considered for admission to the Administration of Justice curriculum. Proficiency in high school English and mathematics is required. Students who are not proficient in English and mathematics will be required to correct their deficiencies in developmental courses.

In addition to meeting the admission requirements established for the college, the applicant should consult with the program coordinator to see if he or she would meet the specialized requirements for the criminal justice agency with which he or she plans to seek employment. Any person who has been convicted of a felony or of any offense involving turpitude or violence is ineligible for admission to this program.

Enrollment in certain ADJ courses may be restricted to persons who have been accepted into the program. Please consult a Student Services Counselor or the Program Coordinator for instructions on applying to the Program.

Program Requirements: Approximately one-half of the curriculum will include courses in administration of justice with the remaining courses in related areas, general education, and electives. Instruction will include both the theoretical concepts and practical applications needed for future success in criminal justice careers. Each student is advised to consult with his/her counselor and faculty advisor in planning a program and selecting electives. Upon completion of the four-semester program, the graduate will be awarded the Associate of Applied Science in Protective Services.

The student is required to complete a sequence of courses and learning experiences provided at the college. The Administration of Justice program faculty reserves the right to recommend, through appropriate channels, the withdrawal of any student who does not exhibit suitable attendance, behavior, and adherence to the regulations governing student conduct as outlined in the student handbook.

Students must complete all Administration of Justice courses listed in the first year of the curriculum before being allowed to enter the second year Administration of Justice courses. Exceptions may be approved by the Division Chairman upon faculty recommendation.

A student must have a "C" or above in all Administration of Justice courses to remain in the program. A grade of "C" or above in any related requirements is a prerequisite for continuing in the Administration of Justice program. Exceptions may be approved by the Division Dean upon faculty recommendation.

Program Progression: Any student who earns a final grade lower than "C" in any Administration of Justice course or SOC 235 or 236 must repeat the course and earn a final grade of "C" or better before taking the next course or courses in the sequence.

A student must obtain permission from the Administration of Justice faculty to continue in the Administration of Justice program under the following conditions:

1. repeating a course with a grade below "C,"
2. withdrawal from an Administration of Justice course,
3. cumulative GPA below 2.0.

Notes on Transfer: Associate of Applied Science Degree programs are designed primarily to provide occupational competence for employment entry. Students who wish to transfer to four-year institutions should acquaint themselves with the requirements of the college or university to which transfer is contemplated. Such students should consult with their faculty advisor at Virginia Highlands Community College in planning their programs.

Course Number	Course Title	Lecture Hours	Lab Hours	Credits
First Semester (Fall)				
SDV 101	Orientation to College Success	1	0	1
ADJ 100	Survey of Criminal Justice	3	0	3
ITE 115 or 119	Intro. to Computer Applications & Concepts or Information Literacy	3	0	3
ENG 111	College Composition I	3	0	3
PSY 120	Human Relations	3	0	3
EEE	Social Science Elective	3	0	3
Total		16	0	16
Second Semester (Spring)				
ADJ 140	Introduction to Corrections	3	0	3
ADJ 130	Criminal Law	3	0	3
ADJ 236	Principles of Investigation	3	0	3
ENG 112	College Composition II	3	0	3
MTH 155	¹ Statistical Reasoning	3	0	3
EEE	Social Science Elective	3	0	3
Total		18	0	18
Third Semester (Fall)				
ADJ 111	Law Enforcement Organization & Administration I	3	0	3
ADJ 171	Forensic Science I	3	3	4
ADJ 237	Advanced Criminal Investigation	3	0	3
SOC 235	Juvenile Delinquency	3	0	3
EEE	Related Elective	3	0	3
Total		15	3	16
Fourth Semester (Spring)				
ADJ 133	Ethics and the Criminal Justice Professional	3	0	3
ADJ 227	Constitutional Law for Justice Personnel	3	0	3
HLT 121	Introduction to Drug Use & Abuse	3	0	3
SOC 236	Criminology	3	0	3
EEE	Humanities Elective	3	0	3
ADJ 138	² Defensive Tactics	2	0	2
Total		17	0	17
Total Minimum Credits for the AAS Degree				67

¹ MTH 155 or Higher is required. Students planning to transfer to a four-year program should check to see the required math of the transfer institution.

² Includes CPR/First Aid Certification

Students are urged to follow the [recommended pathway](#) for this diploma when choosing electives.

Additional approved humanities and social science electives are listed at <http://www.vhcc.edu/GenEdCore>.

Human Services

Associate of Applied Science Degree

Program Coordinator: Winona Fleenor • LRC 208 • 276-739-2493

Length: Four semesters (two years)

Purpose: The curriculum is designed to provide students with a broad foundation in preparation for work in a variety of social service fields. With the increasing demands upon human services agencies for the delivery of specialized services, there is a growing need for trained workers and paraprofessionals with essential skills. Persons seeking their first employment in human services and those presently in such occupations seeking to upgrade their skills may benefit from this curriculum.

Occupational Objectives: Child Care Worker, Rehabilitation Technician, Social Services Aide, Corrections Assistant, Teacher's Aide, Counseling Aide, Adult/Nursing Home Worker

Admission Requirements: A student eligible for admission to the college can normally be considered for admission to the Human Services Associate Degree curriculum. Proficiency in high school English and mathematics is required. Students who are not proficient in English and mathematics will be required to correct their deficiencies in developmental courses.

Program Requirements: The Human Services curriculum consists of courses in psychology, sociology, public services and human services. In addition to these core courses, other courses in general education and related areas are included. Instruction will include both a specialized as well as a general education approach. Upon completion of the four-semester program, the student is awarded the Associate of Applied Science in Human Services.

Notes on Transfer: Associate of Applied Science Degree programs are designed primarily to provide occupational competence for employment. Upon the student's request, courses may be modified to provide possible transfer acceptability by four-year colleges and universities.

Course Number	Course Title	Lecture Hours	Lab Hours	Credits
Third Semester (Fall)				
PSY 236	Adolescent Psychology	3	0	3
SOC 215	Sociology of the Family	3	0	3
ECO 201 or 202	Principles of Economics I or II	3	3	3
EEE	Degree Related Elective	3	3	3-4
PBS 266	Group Leadership	3	0	3
Total		15	0-3	15-16
Fourth Semester (Spring)				
PSY 237	Adult Psychology	3	0	3
HMS 227	Change Agent	3	0	3
SOC 268	Social Problems	3	0	3
EEE	Humanities Elective	3	0	3
CST 100	Principles of Public Speaking	3	0	3
Total		15	0	15
Total Minimum Credits for the AAS Degree				64-65

Students are urged to follow the [recommended pathway](#) for this diploma when choosing electives.

Additional approved humanities and social science electives are listed at <http://www.vhcc.edu/GenEdCore>.

Course Number	Course Title	Lecture Hours	Lab Hours	Credits
First Semester (Fall)				
ENG 111	College Composition I	3	0	3
SDV 101	Orientation to College Success	1	0	1
HMS 100	Introduction to Human Services	3	0	3
ITE 119 or 115	Information Literacy or Intro. to Computer Applications	3	0	3
PSY 120	Human Relations	3	0	3
PSY 200	Principles of Psychology	3	0	3
Total		16	0	16
Second Semester (Spring)				
ENG 112	College Composition II	3	0	3
PBS 265	Interviewing	3	0	3
PLS 211 or 212	United States Government	3	0	3
PSY 235	Child Psychology	3	0	3
SOC 200	Principles of Sociology	3	0	3
MTH 155	Statistical Reasoning	3	0	3
Total		18	0	18

Human Services - Specialization in Early Childhood Education

Associate of Applied Science Degree

Program Coordinator: Winona Fleenor • LRC 208 • 276-739-2493

Length: Four semesters (two years)

Purpose: The program in Early Childhood Development is designed to provide students with practical skills and theoretical knowledge related to the care, development and guidance of young children. The curriculum addresses the intellectual, social, physical, emotional, and creative growth of young children.

Occupational Objectives:

Day Care Center Worker, Nursery Schools, Teacher's Aide, Family Day Care Specialist, Child Development Specialist, Teaching Assistant, After School Programs

Admission Requirements: A student eligible for admission to the college can normally be considered for admission to the Human Services Specialization in Early Childhood Education Associate Degree curriculum. Proficiency in high school English and mathematics is required. Students who are not proficient in English and mathematics will be required to correct their deficiencies in developmental courses.

Program Requirements: The Human Services Specialization in Early Childhood Education curriculum consists of courses in psychology, sociology, public services, and human services. In addition to these core courses, other courses in general education and related areas are included. Instruction will include both a specialized as well as a general education approach. Upon completion of the four-semester program, the student is awarded the Associate of Applied Science in Human Services - Specialization in Early Childhood Education.

Notes on Transfer: Associate of Applied Science Degree programs are designed primarily to provide occupational competence for employment. Upon the student's request, courses may be modified to provide possible transfer acceptability by four-year colleges and universities. Transfer options are listed in the footnotes.

Course Number	Course Title	Lecture Hours	Lab Hours	Credits
First Semester (Fall)				
ENG 111	College Composition I	3	0	3
HMS 100	Introduction to Human Services	3	0	3
PSY 120	Human Relations	3	0	3
CHD 120	Introduction to Early Childhood Education	3	0	3
PSY 200	Principles of Psychology	3	0	3
SDV 101	Orientation to College Success	1	0	1
PED	Physical Education	0	2-3	1
Total		16	2-3	17
Second Semester (Spring)				
ENG 112	College Composition II	3	0	3
PSY 235	Child Psychology	3	0	3
MTH 155	Statistical Reasoning	3	0	3
SOC 200	Principles of Sociology	3	0	3
CHD 145	Teaching Art, Music, and Movement to Children	2	2	3
PED	Physical Education	0	2-3	1
Total		14	4-5	16

Course Number	Course Title	Lecture Hours	Lab Hours	Credits
Third Semester (Fall)				
ITE 119 or 115	Information Literacy or Intro. to Computer Applications	3	0	3
SOC 215	Sociology of the Family	3	0	3
EEE	Humanities Elective	3	0	3
CHD 205	Guiding the Behavior of Children	3	0	3
EDU 235	Health, Safety, and Nutrition Education	3	0	3
EEE	Social Science Sequence Part I	3	0	3
Total		18	0	18
Fourth Semester (Spring)				
CST 100	Principles of Public Speaking	3	0	3
EEE	Social Science Sequence Part II	3	0	3
CHD 118	Language Arts for Children	2	2	3
HMS 227	Change Agent	3	0	3
SOC 268	Social Problems	3	0	3
Total		14	2	15
Total Minimum Credits for the AAS Degree				66

Students are urged to follow the [recommended pathway](#) for this diploma when choosing electives

Additional approved humanities and social science electives are listed at <http://www.vhcc.edu/GenEdCore>.

Early Childhood Teaching Assistant

Certificate

Program Coordinator: Winona Fleenor • LRC 208 • 276-739-2493

Length: Three semesters
(one year beginning in summer term)

Purpose: The increased need for childcare in Southwest Virginia is an indicator of the need for more teachers and caregivers at the pre-school level. The Early Childhood Teaching Assistant program is designed to train personnel for employment in the field upon completion of the course requirements. In addition, the curriculum furnishes the student the opportunity to elect to transfer into the AAS Early Childhood Education degree program if she/he so wishes.

Occupational Objectives:

Teacher's Aide, Child Care Assistant, Day Care worker

Admission Requirements: A student eligible for admission to the College can normally be considered for admission to the Human Services - Early Childhood Teaching Assistant curriculum. Proficiency in high school English and mathematics is required. Students who are not proficient in English and mathematics will be required to correct their deficiencies in developmental courses.

Program Requirements: The one year curriculum provides training in child psychology, child care and child education in addition to general education classes. Students who are not proficient in English and mathematics will be required to correct their deficiencies in developmental courses. Upon successful completion of the curriculum, the student will be awarded a Certificate in Early Childhood Teaching Assistant.

Course Number	Course Title	Lecture Hours	Lab Hours	Credits
Summer Session				
ENG 111	College Composition I	3	0	3
ENG 112 or CST 100	College Composition II or Principles of Public Speaking	3	0	3
Total		6	0	6
First Semester (Fall)				
CHD 120	Intro. to Early Childhood Education	3	0	3
CHD 205	Guiding the Behavior of Children	3	0	3
MTH 155	Statistical Reasoning	3	0	3
PSY 235	Child Psychology	3	0	3
SDV 101	Orientation to College Success	1	0	1
SOC 200	Principles of Sociology	3	0	3
Total		16	0	16
Second Semester (Spring)				
CHD 118	Language Arts for Children	3	0	3
CHD 145	Teaching Art, Music, and Movement to Children	2	2	3
PBS	Interviewing PBS 266 or Leadership PBS 265	3	0	3
PSY 200	Principles of Psychology	3	0	3
SOC 215	Sociology of the Family	3	0	3
Total		14	2	15
Total Minimum Credits Required for Certificate				37

Human Services Advocate

Certificate

Program Coordinator: Winona Fleenor • LRC 208 • 276-739-2493

Length: Two semesters (one year)

Purpose: The certificate program in Human Services Advocate is designed to prepare persons for entry into careers which emphasize human relations skills, typically performed in a person-to-person relationship.

Occupational Objectives: Students who complete the program may enter the labor market in jobs which lead to a variety of positions, such as:

- Therapeutic Assistant
- Social Services Liaison
- Case Management Aide
- Client Advocate
- Social Services Para-professional
- Child Care Assistant

Admission Requirements: A student eligible for admission to the college can normally be considered for admission to the Human Services Advocate curriculum. Proficiency in high school English and mathematics is required. Students who are not proficient in English or mathematics will be required to correct their deficiencies in developmental courses.

Program Requirements: Approximately three-fourths of the courses will be a core curriculum which is basic for all human services, i.e., general education, occupational-technical, and human relations skills. The remaining courses, along with the coordinated internship, are designed to give the student specialized training for the particular career area which he/she has chosen. Upon completion of the two-semester program, the student will be awarded a Certificate in Human Services Advocate.

Course Number	Course Title	Lecture Hours	Lab Hours	Credits
First Semester (Fall)				
ENG 111	College Composition I	3	0	3
SDV 101	Orientation to College Success	1	0	1
SOC 200	¹ Principles of Sociology	3	0	3
AST 114	² Keyboarding for Information Processing	0	2	2
HMS 100	Intro. to Human Services	3	0	3
PSY 120	Human Relations	3	0	3
Total		13	2	15
Second Semester (Spring)				
ENG 112	College Composition II	3	0	3
MTH 155	Statistical Reasoning	3	0	3
PBS 265	³ Interviewing	3	0	3
HLT 110	Concepts of Personal and Community Health	3	0	3
ITE 115	Intro. to Computer Applications and Concepts	3	0	3
EEE or HMS 197	⁴ Degree Related Elective or Co-op Education	3 0	0 15	3 3
Total		15-18	0-15	18
Total Minimum Credits Required for Certificate				33

Footnotes:

1. Students may substitute PSY 200.
2. Students who pass the Keyboarding Exemption Test will be granted credit for this course. Testing date is published in the [class schedule](#).
3. Students may substitute PBS 266 Group Leadership for this course.
4. Students may take any ACC, AST, BUS, ECO, IST, or MKT course to meet this requirement or participate in Co-op Education. HMS 197 may be taken after satisfactory completion of the first semester with Faculty Curriculum Advisor and Faculty Co-op Advisor approvals. The non-paid Co-op Education option is available in this program of study.

Sample Related Electives for Human Services Advocate

HMS 197	Coordinated Internship or Cooperative Education in Human Services
ITE 119	Information Literacy
PBS 265	Group Leadership
PSY 235	Child Psychology
PSY 236	Adolescent Psychology
PSY 237	Adult Psychology
SOC 215	Sociology of the Family
SOC 235	Juvenile Delinquency

Child Development

Career Studies Certificate

Program Coordinator: Winona Fleenor • LRC 208 • 276-739-2493

Course Number	Course Title	Lecture Hours	Lab Hours	Credits
CHD 120	Introduction to Early Childhood Education	3	0	3
CHD 145	Creative Activities for Children	2	2	3
CHD 205	Guiding the Behavior of Children	3	0	3
EDU 235	Health Safety and Nutritional Education	2	2	3
PSY 235	Child Psychology	3	0	3
Total		13	4	15

All courses are approved by the Virginia Child Care Provider Scholarship Program and applicable to the Child Development Associate (CDA) credential of the National Association for the Education of Young Children.



Curriculum & Program Requirements

Workforce Development & Continuing Education

Workforce Development & Continuing Education

Continuing Education Courses

Listed below are classes offered by Workforce Development & Continuing Education that are not part of a Career Studies Certificate. Some classes may be offered only when requested by a specific employer or for an identified community need.

Health

HLT 105	CPR (American Heart Association)	1 credit
HLT 106	First Aid and Safety (American Red Cross)	2 credits
HLT 195	Standard First Aid (American Red Cross)	1 credit

Career Studies Certificates

Length: Variable for part-time Continuing Education students.

Normally equivalent to one semester of full-time community college work as an evening program. All of the courses in a Career Studies Certificate program will not be offered in a single semester.

Purpose: These certificate programs are designed as a response to needs identified by employers to upgrade skills of employees. The programs provide an opportunity for adults to investigate career possibilities or specialized interests. Some programs may be offered only when requested by a specific employer or for an identified community need.

Career Studies Program Options:

- American Sign Language
- Automotive Technology (NVS)
- Culinary Arts (NVS)
- Fire Science Technology
- Nurse Aide

Admission Requirements: Student must meet general admission requirement established by the College.

Program Requirements: The Career Studies Certificate curricula includes selected specialized courses that are designed as distinct “mini-curricula” to meet minimum occupational and adult interest requirements. Upon satisfactory completion of a particular program option with a C average, the graduate will contact Workforce Development & Continuing Education and apply to receive a Certificate in Career Studies with the appropriate specialization. Not eligible for graduation honors. Twenty-five percent of courses must be taken at home institution.

Program Conditions: Career Studies Program Options will be developed and implemented as community needs are identified and institutional resources permit. Normally courses in the various programs may be offered when all the following conditions are met: (1) justifiable student enrollment, (2) adequate facilities, (3) qualified instructors, and (4) adequate financial resources. The flexibility of the program option approach provides for the activation or the deactivation of program options depending upon the above factors.

American Sign Language

Course Number	Course Title	Lecture Hours	Lab Hours	Credits
ASL 101	American Sign Language I	3	0	3
ASL 102	American Sign Language II	3	0	3
ASL 125	History & Culture of the Deaf Community I	3	0	3
ASL 201	American Sign Language III	3	0	3
ASL 202	American Sign Language IV	3	0	3
INT 130	Interpreting: An Introduction to the Profession	3	0	3
Total		18	0	18

Fire Science Technology

Course Number	Course Title	Lecture Hours	Lab Hours	Credits
FST 100	Principles of Emergency Service	3	0	3
FST 110	Fire Behavior and Combustion	3	0	3
FST 210	Legal Aspect of Fire Service	3	0	3
FST 115	Fire Prevention	3	0	3
FST 120	Occupational Health and Safety	3	0	3
FST 205	Fire Protection Hydraulics and Water Supply	3	0	3
FST 220	Building Construction for Fire Protection	3	0	3
FST 235	Strategy and Tactics	3	0	3
Total		24	0	24

Nurse Aide

Course Number	Course Title	Lecture Hours	Lab Hours	Credits
First Semester (Fall)				
HLT 105	CPR	1	0	1
HCT 101	^{1,2} Health Care Tech I	3	0	3
HCT 102	^{1,2} Health Care Tech II	1	6	3
PSY 230	Developmental Psychology	3	0	3
Total		8	6	10
Second Semester (Spring)				
HLT 261	³ Basic Pharmacy I	3	0	3
ITE 115 or 119	Intro. to Computer Applications Information Literacy	3	0	3
HUM EEE	Recommendations: REL 230, MUS 121, or ART 201	3	0	3
Total		9	0	9
Total Minimum Credits for the Nurse Aide CSC				19

Footnotes:

1. Approved by the Virginia Board of Nursing and prepares you to take the Nurse Aid licensure exam.
2. Criminal background may prevent you from participating in required clinical work.
3. Approved by the Board of Pharmacy and meets the requirements set forth by the Virginia Board of Pharmacy Regulation. You will be eligible to take the Pharmacy Technician Certification Exam.

Dual Enrollment with Neff Vocational School Only (NVS) Cooperative Career Studies Certificates

Students must meet enrollment and eligibility requirements for the Neff Vocational School. Contact NVS to enroll, <http://neff.wcs.k12.va.us/> or 276-739-3100.

Automotive Technology

Course Number	Course Title	Lecture Hours	Lab Hours	Credits
AUT 166	Automotive Diagnostics I	4	2	5
AUT 265	Automotive Braking System	3	3	4
AUT 266	Auto Alignment, Steering, & Suspension	2	6	4
AUT 241	Automotive Electricity I	3	3	4
Total		12	14	17

Course Descriptions

Description of Courses

All courses in degree programs are offered on a regular basis. Some courses listed in this section are not required in degree programs and are not offered on a regular basis. Students should check with the Counselors concerning all courses in their degree programs.

Course Numbers

Courses numbered 01-09 are generally courses for developmental studies. The credits earned in these courses are not applicable toward associate degree programs; however, upon approval of the Vice-President of Instruction and Student Services, some developmental courses may provide credit applicable to basic occupational certificate programs. Students may reregister for these courses in subsequent semesters as necessary until the course objectives are completed.

Courses numbered 10-99 are generally courses for certificate programs. The credits earned in these courses are applicable toward certificate programs but are not applicable toward an associate degree.

Courses numbered 100-199 are generally freshmen courses applicable toward associate degree and/or certificate programs.

Courses numbered 200-299 are generally sophomore courses applicable toward associate degree and/or certificate programs.

Course Credits

The credit for each course is indicated after the title in the course description. One credit is equivalent to one collegiate semester hour credit.

Course Hours

Each semester hour of credit given for a course is based on approximately one academic hour (50 minutes) of formalized, structured instructional time in a particular course for fifteen weeks. This may consist of lectures, out-of-class study, laboratory and shop study, or combinations thereof as follows:

1. One hour of lecture (including lecture, seminar, discussion or other similar experiences) per week for 15 weeks plus an examination period = 1 collegiate semester-hour credit.
2. 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 15 weeks plus an examination period (1 hour) = 1 collegiate semester-hour credit.
3. One to five credits with variable hours for the general usage courses: Coordinated Internship, Cooperative Education, Seminar and Project, and Supervised Study (see SDV section).

The number of lecture hours in class each week (including lecture, seminar and discussion hours) and/or the number of laboratory hours in class each week (including laboratory, shop, supervised practice, and cooperative work experiences) are indicated for each course in the course description. The number of lecture and laboratory hours in class each week are also called "contact" hours because they represent time spent under direct supervision of a faculty member. In addition to the lecture and laboratory hours in class each week, as listed in the course description, each student also must spend some time on out-of-class assignments under his/her own direction. Usually each credit per course requires an average of three hours of in-class and out-of-class study each week.

Course Prerequisites

If any prerequisites are required before enrolling in a course, these prerequisites will be identified in the course description. Courses in special sequences (usually identified by the numerals I-II-III) require that prior courses or their equivalent be completed before enrolling in the advanced courses in the sequence. When corequisites are required for a course, usually the corequisites must be taken at the same time. The prerequisites or their equivalent must be completed satisfactorily before enrolling in a course unless special permission is obtained from the chairperson of the appropriate instructional division and the instructor.

General Usage Courses

Note: The following "General Usage Courses" apply to multiple curricula and all prefix sections. The titles and descriptions are generally applicable for such use. However, colleges may elect to substitute different, but essentially equivalent, titles (e.g. Field Experiences in lieu of Coordinated Internship) to satisfy the preferences of respective professional fields or disciplines. Similarly, the course description may be reconstructed for adaptation to appropriate context or to a more specialized applicability (e.g. health agencies/facilities or hospitals in lieu of business, industrial and service firms).

General usage courses may be repeated for credit and may include lecture, laboratory, out-of-class study, or a combination thereof.

A "Topics in" course is intended to cover topics of an evolving nature or of short-term importance in the discipline. The course shall be approved by the academic vice-president or designee for a period up to two years. The vice-president may approve an extension of another two-year period, after which the course must be approved under the appropriate discipline according to VCCS processes for adding new courses to the Master Course File.

A "Studies in" course is intended as an experimental course to test its viability as a permanent offering. Each offering of the course must be approved by the academic vice-president or designee. An experimental course may be offered twice, after which the course must be approved under the appropriate discipline according to VCCS processes for adding new courses to the Master Course File.

Coordinated Practice In: (Course Prefix) 90, 190, 290 (1-5 credits.) Includes supervised practice in selected health agencies coordinated by the College. Credit/Practice ratio maximum 1:5 hours. May be repeated for credit. Variable hours per week.

Studies In: (Course Prefix) 93, 193, 293 (1-5 credits.) Covers new content not covered in existing courses in the discipline. Allows instructor to explore content and instructional methods to assess the course's viability as a permanent offering. Variable hours per week.

Topics In: (Course Prefix) 95, 195, 295 (1-5 credits.) Provides an opportunity to explore topic areas of an evolving nature or of short-term importance in the discipline. May be used also for special honors courses. May be repeated for credit. Variable hours per week.

On Site Training In: (Course Prefix) 96, 196, 296 (1-5 credits.) Offers opportunities for career orientation and training without pay in selected businesses and industry. Supervised and coordinated by the College. Credit/work ratio not to exceed 1:5 hours. May be repeated for credit. Variable hours per week.

Cooperative Education In: (Course Prefix) 97, 197, 297 (1-5 credits.) Provides on-the-job training for pay in approved business, industrial and service firms. Applies 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 per week.

Seminar and Project In: (Course Prefix) 98, 198, 298 (1-5 credits) 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 per week.

Supervised Study In: (Course Prefix) 99, 199, 299 (1-5 credits) Assigns problems for independent study incorporating previous instruction and supervised by the instructor. May be repeated for credit. Variable hours per week.

Accounting

ACC 197 Co-op (2-5 credits)

Requires curriculum advisor and co-op advisor approval.

Supervises in on-the-job training for pay in approved business, industrial and service firms, coordinated by the college's cooperative education office. Is 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. 1-5 credits

ACC 211 Principles of Accounting I (4 credits)

A laboratory corequisite (ACC 213) may be required

Introduces accounting principles with respect to financial reporting. Demonstrates how decision makers use accounting information for reporting purposes. Focuses on the preparation of accounting information and its use in the operation of organizations, as well as methods of analysis and interpretation of accounting information. Lecture 4 hours per week. 4 credits

ACC 212 Principles of Accounting II (4 credits)

Prerequisite: ACC 211

A laboratory corequisite (ACC 214) may be required

Introduces accounting principles with respect to cost and managerial accounting. Focuses on the application of accounting information with respect to product costing, as well as its use within the organization to provide direction and to judge performance. Lecture 4 hours per week. 4 credits

ACC 215 Computerized Accounting (4 credits)

Prerequisite or corequisite: ACC 211 or equivalent

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. Lecture 3-4 hours per week. 3-4 credits.

ACC 221 Intermediate Accounting I (4 credits)

Prerequisite: ACC 212 or equivalent

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. Lecture 3-4 hours per week. 3-4 credits.

ACC 222 Intermediate Accounting II (4 credits)

Prerequisite: ACC 221 or equivalent

Continues accounting principles and theory with emphasis on accounting for fixed assets, intangibles, corporate capital structure, long-term liabilities, and investments. Lecture 3-4 hours per week. 3-4 credits.

ACC 231 Cost Accounting I (3 credits)

Prerequisite: ACC 212 or equivalent

Studies cost accounting methods and reporting as applied to job order, process, and standard cost accounting systems. Includes cost control and other topics. Lecture 3-4 hours per week. 3-4 credits.

ACC 261 Principles of Federal Taxation I (3 credits)

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. 3 credits.

ACC 297 Co-op (2-5 credits)

Requires curriculum advisor and co-op advisor approval.

Supervises in on-the-job training for pay in approved business, industrial and service firms, coordinated by the college's cooperative education office. Is 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. 1-6 credits

Administration of Justice

ADJ 100 Survey of Criminal Justice (3 credits)

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.

ADJ 107 - Survey of Criminology (3 credits)

Surveys the volume and scope of crime; considers a variety of theories developed to explain the causation of crime and criminality. Lecture 3 hours per week.

ADJ 111 - 112 Law Enforcement Organization & Administration I - II (3 credits/3 credits)

Prerequisite for ADJ 112: Division approval or ADJ 111

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. Lecture 3 hours per week.

ADJ 115 Patrol Procedures (3 credits)

Describes, instructs and evaluates street-level procedures commonly employed by patrol officers in everyday law enforcement operations. Lecture 3 hours per week.

ADJ 130 Introduction to Criminal Law (3 credits)

Surveys the general principles of American criminal law, the elements of major crimes, and the basic steps of prosecution procedure. Lecture 3 hours per week.

ADJ 140 Introduction to Corrections (3 credits)

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.

ADJ 138 Defensive Tactics (2 credits)

Surveys and demonstrates the various types of non-lethal force tools and tactics for use by criminal justice personnel in self-defense, arrest, search, restraint and transport of those in custody. Lecture 2 hours per week.

ADJ 160 - Police Response to Critical Incidents (3 credits)

Provides a basic introduction to incident command and emerging trends. Addresses bomb threats; hostage/barricade situations; attacks on institutions such as schools and hospitals; criminal hazmat; terrorist, militia/paramilitary, and extended crime scene evidence collection scenarios; and other long term or large scale events. Lecture 3 hours per week.

ADJ 162 - Introduction to Sex Crimes (3 credits)

Provides a basic introduction to sex crimes. Covers relevant law, investigative techniques, cybersex crimes and criminals, application of criminal investigative analysis, and future trends. Lecture 3 hours per week.

ADJ 164 - Case Studies in Murder/Violent Crime (3 credits)

Introduces the student to the investigation of murder and other violent crimes by means of classic case studies and, to the extent feasible, local case files. Includes methodology, strategy and tactics, analysis, relevant law, and future trends. Covers evidentiary techniques and technologies with a primary focus on how critical thinking is applied to serious violent crime. Lecture 3 hours per week.

ADJ 166 Fish and Game Regulations (3 credits)

Surveys state and federal laws regulating inland fishing, water fowl and game animals. Lecture 3 hours per week.

ADJ 171 - 172 Forensic Science I - II (4 credits/4 credits)

Prerequisite for ADJ 172: ADJ 171 and ADJ 236

These courses are designed primarily for second-year students in Police Science. Others may enroll with the permission of the instructor. Introduces student to crime scene technology, procedures for sketching, diagramming, and using casting materials. Surveys the concepts of forensic chemistry, fingerprint classification/identification and latent techniques, drug identification, hair and fiber evidence, death investigation techniques, thin-layer chromatographic methods, and arson materials examination. Lecture 3 hours, Laboratory 3 hours, Total 6 hours per week.

ADJ 227 Constitutional Law for Justice Personnel (3 credits)

Prerequisites: ADJ 111 and 130

Surveys the basic guarantees of liberty described in the U.S. Constitution and the historical development of these restrictions on government power, primarily through U.S. Supreme Court decisions. Reviews rights of free speech, press, assembly, as well as criminal procedure guarantees (to counsel, jury trial, habeas corpus, etc.) as they apply to the activities of those in the criminal justice system. Lecture 3 hours per week.

ADJ 236 Principles of Criminal Investigation (3 credits)

Limited to students who have completed all first-year Police Science courses or who have received departmental permission. Surveys the fundamentals of criminal investigation procedures and techniques. Examines crime scene search, collecting, handling and preserving of evidence. Lecture 3 hours per week.

ADJ 237 Advanced Criminal Investigation (3 credits)

Prerequisite: ADJ 236 or division approval

Introduces specialized tools and scientific aids used in criminal investigation. Applies investigative techniques to specific situations and preparation of trial evidence. Lecture 3 hours per week.

ADJ 246 Correctional Counseling (3 credits)

Presents concepts and principles of interviewing and counseling as applied in the correctional setting. Lecture 3 hours per week.

ADJ 248 Probation, Parole and Treatment (3 credits)

Surveys the philosophy, history, organization and functioning of traditional and innovative probation and parole programs; considers major treatment models for clients. Lecture 3 hours per week.

ADJ 297 Co-op (2-5 credits)

Requires curriculum advisor and co-op advisor approvals.

Cooperative education in police science. Designed to provide practical work experience for the police science student. Minimum on-the-job training is 10 hours per week.

Administrative Support Technology

AST 101 Keyboarding I (2-4 credits)

A laboratory corequisite (AST 103) may be required.

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.

AST 102 Keyboarding II (3-4 credits)

Prerequisite: AST 101

A laboratory corequisite (AST 104) may be required.

Develops keyboarding and document production skills with emphasis on preparation of specialized business documents. Continues skill-building for speed and accuracy. A laboratory co-requisite (AST 104) may be required. Lecture 2-4 hours per week.

AST 107 - Editing/Proofreading Skills (3 credits)

Develops skills essential to creating and editing business documents. Covers grammar, spelling, diction, punctuation, capitalization, and other usage problems. Lecture 3 hours per week.

AST 114 Keyboarding for Information Processing (1-2 credits)

A laboratory corequisite (AST 115) may be required.

Teaches the alphabetic and numeric keys; develops correct techniques and competency in the use of computer keyboards. May include basic correspondence and report formats. A laboratory co-requisite (AST 115) may be required. Lecture 1-2 hours per week.

AST 136 - Office Record Keeping (3 credits)

Introduces types of record keeping duties performed in the office, such as financial, tax, payroll, and inventory. Utilizes specialized software where applicable. Lecture 3 hours per week.

AST 137 Records Management (3 credits)

Teaches filing and records management procedures for hard copy, electronic, and micrographic systems. Identifies equipment, supplies, and solutions to records management problems. Lecture 3 hours per week.

AST 141 Word Processing (Specify Software) (2-4 credits)

Prerequisite: AST 101 or equivalent

A laboratory co-requisite (AST 144) may be required

Teaches creating and editing documents, including line and page layouts, columns, fonts, search/replace, cut/past, spell/thesaurus, and advanced editing and formatting features of word processing software. Lecture 2-4 hours per week.

AST 154 Voice Recognition Applications (1-2 credits)

Teaches the computer user to use the voice as an input device to compose documents and to give commands directly to the computer. Lecture 1-2 hours per week.

AST 171 Introduction to Call Center Services (3 credits)

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 176 Medical Office/Unit Management (3 credits)

Develops administrative and support skills for a medical setting including effective communications, ethical and legal issues, research techniques, and insurance claims processing. Lecture 3 hours per week.

AST 197 Co-op (1-5 credits)

Requires curriculum advisor and co-op advisor approvals.

Supervises in on-the-job training for pay in approved business, industrial and service firms, coordinated by the college's cooperative education office. Is 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.

AST 205 Business Communications (3 credits)

Teaches techniques of oral and written communications. Emphasizes writing and presenting business-related materials. Lecture 3 hours per week.

AST 206 Professional Development (3 credits)

Develops professional awareness in handling business and social situations. Emphasizes goal setting, critical thinking, decision-making, and employment skills. Lecture 3 hours per week.

AST 230 Introduction to Office Technology (3 credits)

A laboratory corequisite (AST 231) may be required

Introduces principles, methods, and techniques involved in office technology. Emphasizes the use of microcomputer equipment and software. Lecture 3 hours per week.

AST 232 Microcomputer Office Applications (2-4 credits)

Prerequisite: AST 101 or equivalent

A laboratory corequisite (AST 233) may be required.

Teaches production of business documents using word processing, databases, and spreadsheets. Emphasizes document production to meet business and industry standard. A laboratory co-requisite (AST 233) may be required. Lecture 2-4 hours per week.

AST 236 Specialized Software Applications (Specify Software) (2-4 credits)

Prerequisite: AST 101 or equivalent

A laboratory corequisite (AST 237) may be required.

Teaches specialized integrated software application on the microcomputer. Emphasizes document production to meet business and industry standards. A laboratory co-requisite (AST 237) may be required. Lecture 2-4 hours per week.

AST 238 - Word Processing Advanced Operations (2-4 credits)

A laboratory co-requisite (AST 239) may be required.

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.

AST 240 Machine Transcription (2-4 credits)

Prerequisite: AST 101

A laboratory corequisite (AST 241) may be required.

Corequisite AST 102 or equivalent.

Develops proficiency in the use of transcribing equipment to produce business documents. Emphasizes listening techniques, business English, and proper formatting. Includes production rates and mailable copy requirements. A laboratory co-requisite (AST 241) may be required. Lecture 2-4 hours per week.

AST 243 - Office Administration I (3 credits)

Prerequisite: AST 101

Develops an understanding of the administrative support role and the skills necessary to provide organizational and technical support in a contemporary office setting. Emphasizes the development of critical-thinking, problem-solving, and job performance skills in a business office environment. Lecture 3 hours per week.

AST 245 Medical Machine Transcription (2-4 credits)

Prerequisite: AST 102 or equivalent

A laboratory co-requisite (AST 246) may be required.

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. A laboratory co-requisite (AST 246) may be required. Lecture 2-4 hours per week.

AST 271 Medical Office Procedures I (3 credits)

Prerequisite: AST 101

Corequisite: AST 102 or equivalent.

Covers medical office procedures, records management, preparation of medical reports, and other medical documents. Lecture 3 hours per week.

AST 297 Co-op (1-5 credits)

Requires curriculum advisor and co-op advisor approvals.

Supervises in on-the-job training for pay in approved business, industrial and service firms, coordinated by the college's cooperative education office. Is 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.

Agriculture

AGR 142 - Introduction to Plant Science and Technology (3 credits)

Introduces students to plant science, ecology, plant morphology, plant and soil relations and energy conversions. Includes surveying agricultural crops and their importance in the economy. Lecture 2 hours. Lab 2-3 hours. 4-5 hours per week.

AGR 143 - Introduction to Agribusiness and Financial Management (3 credits)

Introduces agriculture's importance to society and ways to start a farm or agribusiness. Evaluates forms of business including cooperatives and create financial statements and reports necessary for routine accounting and tax preparation. Utilizes financial tools for decision making, budgets and time value of money. Explores retirement, transition planning, personal financial management, and capital acquisition techniques. 2 Lecture, 2-3 Lab, 4-6 Contact Hours. Local college option.

AGR 242 - Animal Production, Products and Emerging Technologies (3 credits)

Teaches theoretical and practical science-based animal production and management systems; principles of nutrition, reproduction, economics, and breeding and selection of beef cattle, swine, sheep, poultry, goats, fish and other specialty animal enterprises. Includes management practices, marketing, housing, and mitigation of environmental impacts with emphasis on profitable business enterprises for small to medium sized producers and collaborative opportunities to expand profitability for traditional enterprises. Introduces emerging technologies influencing production practices and new products. 3 Lecture, 0 Lab.

Air Conditioning and Refrigeration

AIR 111 - 112 Air Conditioning and Refrigeration Controls I - II (2-3 credits)

Corequisite for AIR 111: AIR 171

Corequisite for AIR 112: AIR 172

Presents electron theory, magnetism, Ohm's law, resistance, current flow, instruments for electrical measurement, A.C. motors, power distribution controls and their application. Lecture 1-2 hours, Laboratory 2-3 hours, Total 3-5 hours per week.

AIR 134 Circuits and Controls I (3-4 credits)

Corequisite: AIR 176 or AIR 235

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 2-3 hours, Laboratory 2-6 hours, Total 4-9 hours per week.

AIR 154 Heating Systems I (3-4 credits)

Corequisite: AIR 231

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 159 Heating and Cooling Safety (1 credit)

Presents standard safety procedures used in the heating and cooling industry. Discusses proper handling of equipment refrigerants and electricity. Lecture 1 hour per week.

AIR 165 Air Conditioning Systems I (3-4 credits)

Introduces comfort survey, house construction, load calculations, types of distribution systems, and equipment selection. Introduces designing, layout, installing and adjusting of duct systems, job costs, and bidding of job. Lecture 2-3 hours, Laboratory 3-6 hours, Total 5-8 hours per week.

AIR 171-172 Refrigeration I - II (6-9 credits)**Corequisite for AIR 171: AIR 111****Corequisite for AIR 172: AIR 112**

Introduces basic principles of refrigeration. Includes refrigeration systems, cycles, and use and care of refrigeration tools. Studies shop techniques including soldering, brazing, leak testing, tube testing, tube bending, flaring, and swaging. Analyzes mechanical (vapor compression) systems. Assembles and repairs them including evacuating, charging, testing, and electrical repairs. Introduces advanced troubleshooting and repairs for domestic, commercial and industrial units. Includes medium, low, and ultra low temperature systems of the single and multiple unit types. Includes equipment selection, system balancing, and installation procedures. Lecture 4-6 hours. Laboratory 6-9 hours. Total 10-15 hours per week.

AIR 176 Air Conditioning (6-7 credits)**Corequisite: AIR 134**

Presents residential and commercial air conditioning systems, including air conditioning principles, psychometrics and pressure balancing. Includes window units, residential central systems, small commercial (air and water cooled condensers) and automobile units. Lecture 4-5 hours. Laboratory 4-8 hours, Total 8-13 hours per week.

AIR 197 Co-op (2-5 credits)**Requires curriculum advisor and co-op advisor approvals.**

Cooperative education in air conditioning and refrigeration. Designed to provide practical work experience for the air conditioning and refrigeration student. Minimum on-the-job training is 10 hours per week.

AIR 205 Hydronics and Zoning (3-4 credits)**Corequisites: AIR 231**

Presents installation, servicing, troubleshooting, and repair of hydronic systems for heating and cooling. Includes hot water and chilled water systems using forced circulation as the transfer medium. Lecture 2-3 hours. Laboratory 2-3 hours. Total 4-6 hours per week.

AIR 231 Circuits and Controls IV (4-5 credits)**Corequisites: AIR 154**

Applies controls and control circuits to air conditioning and refrigeration, including components, pilot devices and controls, and circuit diagrams. Lecture 3-4 hours. Laboratory 3 hours. Total 6-7 hours per week.

AIR 235 Heat Pumps (3-4 credits)**Corequisites: AIR 134**

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 297 Co-op (2-5 credits)**Requires curriculum advisor and co-op advisor approvals.**

Cooperative education in air conditioning, refrigeration, and heating. Designed to provide practical work experience for the air conditioning, refrigeration and heating student. Minimum on-the-job training is 10 hours per week.

American Sign Language

ASL 101 - 102 American Sign Language I - II (3- 4 credits/3- 4 credits)**Prerequisite for ASL 102: ASL 101 or division approval**

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. Lecture 3-4 hours. Laboratory 0-2 hours. Total 3-5 hours per week.

ASL 125 - History & Culture of the Deaf Community (3 credits)

Presents an overview of various aspects of Deaf Culture, including educational and legal issues. Lecture 3 hours per week.

ASL 201 - 202 American Sign Language III - IV (3- 4 credits/3- 4 credits)**Prerequisite for ASL 201: ASL 102 or division approval****Prerequisite for ASL 202: ASL 201 or division approval**

Develops vocabulary, conversational competence, and grammatical knowledge with a total immersion approach. Introduces increasingly complex grammatical aspects including those unique to ASL. Discusses culture and literature. Contact with the Deaf Community is encouraged to enhance linguistic and cultural knowledge. Lecture 3-4 hours. Laboratory 0-2 hours. Total 3-5 hours per week.

Arts

ART 121 - Drawing I (3-4 credits)

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 I of II. Lecture 1-2 hours. Studio instruction 4 hours. Total 5-6 hours per week.

ART 125 Introduction to Painting (3 credits)

Introduces study of color, composition and painting techniques. Places emphasis on experimentation and enjoyment of oil and /or acrylic paints and the fundamentals of tools and materials. Lecture 2 hours. Studio instruction 3 hours. Total 5 hours per week.

ART 131 - Fundamentals of Design I (3-4 credits)

Explores the concepts of two- and three-dimensional design and color. May include field trips as required. Part I of II. Lecture 1-2 hours. Studio instruction 4 hours. Total 5-6 hours per week.

ART 134 Three Dimensional Design (3 credits)

Explores the concepts of three dimensional design applicable to all fields of Visual Art. Covers tools and techniques. Uses computers as appropriate for research. Lecture 1 hour. Laboratory 4 hours. Total 5 hours per week.

ART 201 - History of Art I (3 credits)

Studies the historical context of art of the ancient, medieval, Renaissance and modern worlds. Includes research project. Part I of II. Lecture 3 hours per week.

ART 202 - History of Art II (3 credits)

Studies the historical context of art of the ancient, medieval, Renaissance and modern worlds. Includes research project. Part II of II. Lecture 3 hours per week.

Automotive

AUT 101 - Introduction to Automotive Systems (3-4 credits)

Introduces fundamental systems of automobile, the engine fuel, exhaust, electric, ignition, lubrication, cooling, transmission, steering, brake and suspension systems. Teaches theory and function of each system. Demonstrates operation. Lecture 2-3 hours. Laboratory 2-3 hours. Total 4-6 hours per week.

AUT 166 Automotive Diagnostics I (5 credits)

Presents the application of operating theory and diagnostic procedures on general engine mechanical and electrical systems. Emphasizes diagnostic procedures using the latest diagnostic procedures and equipment. Lecture 4 hours. Laboratory 2 hours. Total 6 hours per week.

AUT 241 Automotive Electricity I (3-4 credits)

Introduces electricity and magnetism, symbols and circuitry as applied to the alternators, regulators, starters, lighting systems, instruments and gauges and accessories. Lecture 2-3 hours. Laboratory 2-3 hours. Total 4-6 hours per week.

AUT 265 Automotive Braking Systems (4 credits)

Presents operation, design, construction, repair, and servicing of braking system, including Anti-Lock Brake systems (ABS). Explains uses of tools and test equipment, evaluation of test results, estimation of repair cost for power, standard and disc brakes. Lecture 1-3 hours. Laboratory 3 hours. Total 5-6 hours per week.

AUT 266 Auto Alignment, Suspension and Steering (4 credits)

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.

Biology

BIO 101 - 102 General Biology I - II (4 credits)

Prerequisite for BIO 102: BIO 101; Placement into ENG 111

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. Lecture 3 hours. Recitation and Laboratory 3 hours, Total 6 hours per week.

BIO 141 - 142 Human Anatomy and Physiology I - II (4 credits)

Prerequisite for BIO 142: BIO 141; Placement into ENF 3 or higher

Integrates anatomy and physiology of cells, tissues, organs, and systems of the human body. Integrates concepts of chemistry, physics, and pathology. Lecture 3 hours, Laboratory 2-3 hours, Total 5-6 hours per week.

BIO 145 Human Anatomy and Physiology for the Health Sciences (4-5 credits)

Introduces human anatomy and physiology primarily to those planning to pursue an AAS degree in nursing. Covers basic chemical concepts, cellular physiology, as well as the anatomy and physiology of human organ systems. Lecture 3-4 hours, laboratory 3 hours, Total 6-7 hours per week.

BIO 150 - Introductory Microbiology

Studies the general characteristics of microorganisms. Emphasizes their relationships to individual and community health. Lecture 3 hours. Recitation and laboratory 3 hours. Total 6 hours per week. 4 credits

BIO 151 152 Human Gross Anatomy I - II (1 credit)

Prerequisite: BIO 141; Placement into ENF 3 or higher

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. Laboratory 3 hours per week.

BIO 205 General Microbiology (4 credits)

Prerequisites: one year of college biology and one year of college chemistry or division approval.

Examines morphology, genetics, physiology, ecology and control of microorganisms. Emphasizes application of microbiological techniques to selected fields. Lecture 3 hours, Recitation and Laboratory 3 hours, Total 6 hours per week.

BIO 215 Plant Life of Virginia (3 credits)

Focuses on identification and ecological relationships of the native plants of Virginia. Emphasizes shrubs, vines, weeds, wildflowers, ferns, and mushrooms. Lecture 2 hours. Recitation and laboratory 3 hours. Total 5 hours per week.

BIO 256 General Genetics (4 credits)

Prerequisite: BIO 101-102 or equivalent

Explore 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. Lecture 3 hours. Recitation and laboratory 3 hours. Total 6 hours per week.

BIO 278 Coastal Ecology (3 credits)

Prerequisite: Placement into ENG 111

Investigates beach, saltmarsh, and estuarine ecosystems including the effects of chemical, geological, and physical factors upon the distribution of organisms. Discusses the effects of pollution and human manipulation of the coastline. Includes observation and identification of coastal plants and animals, and analysis of the dynamics of coastal community structure and function in a field-based setting. Lecture 2 hours. Laboratory 3 hours. Total 5 hours per week.

Business Management and Administration

BUS 100 Introduction to Business (3 credits)

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, human resource management, marketing, finance, and risk management. Develops business vocabulary. Lecture 3 hours per week.

BUS 111 Principles of Supervision I (3-4 credits)

Teaches the fundamentals of supervision, including the primary responsibilities of the supervisor. Introduces factors relating to the 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.

BUS 112 Principles of Supervision II (3-4 credits)

Prerequisite: BUS 111

Develops skills in carrying out the responsibilities of a supervisor including interviewing, evaluating and disciplining, and problem-solving techniques. Lecture 3-4 hours per week.

BUS 116 - Entrepreneurship (3 credits)

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.

BUS 117 Human Relations and Leadership Development (3 credits)

Covers interpersonal relations in hierarchical structures. Examines the dynamics of teamwork, motivation, handling change and conflict and how to achieve positive results through others. Lecture 3 hours per week.

BUS 165 Small Business Management (3 credits)

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.

BUS 195 Topics in (discipline) (1-5 credits)

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.

BUS 197 Co-op (1-5 credits)

Requires curriculum advisor and co-op advisor approvals.

Supervises in on-the-job training for pay in approved business, industrial and service firms, coordinated by the college's cooperative education office. Is 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.

BUS 200 Principles of Management (3 credits)

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.

BUS 201 - Organizational Behavior (3 credits)

Presents a behaviorally oriented course combining the functions of management with the psychology of leading and managing people. Focuses on the effective use of human resources through understanding human motivation and behavior patterns, conflict management and resolution, group functioning and process, the psychology of decision-making, and the importance of recognizing and managing change. Lecture 3 hours per week.

BUS 205 Human Resource Management (3 credits)

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.

BUS 225 Applied Business Statistics (3 credits)

Prerequisite: MTH 132 or division approval

Introduces statistics as a tool in decision making. Emphasizes ability to collect, present, and analyze data. Employs measures of central tendency and dispersion, statistical inference, index number, and time series analysis. Lecture 3 hours per week.

BUS 241 Business Law I (3 credits)

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.

BUS 242 Business Law II (3 credits)

Prerequisite: BUS 241 or division approval

Focuses on business organization and dissolution, bankruptcy and Uniform Commercial Code. Introduces international law and the emerging fields of E-Commerce and Internet Law. Lecture 3 hours per week.

BUS 295 NX Level for Entrepreneurs (1-5 credits)

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.

BUS 297 Co-op (1-6 credits)

Requires curriculum advisor and co-op advisor approvals.

Supervises in on-the-job training for pay in approved business, industrial and service firms, coordinated by the college's cooperative education office. Is 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.

Chemistry

CHM 05 Developmental Chemistry for Health Sciences (1-5 credits)

Prerequisite: MTT 1-3

Introduces basic principles of inorganic, organic, and biological chemistry. Emphasizes applications to the health sciences.

CHM 111 - 112 College Chemistry I - II (4 credits/4 credits)

Prerequisite for CHM 111: Completion of developmental mathematics or placement recommendation for MTH 161, and placement recommendation for ENG 111

Prerequisite for CHM 112: CHM 111

Explores the fundamental laws, theories, and mathematical concepts of chemistry. Designed primarily for science and engineering majors. Requires a strong background in mathematics. Lecture 3 hours, Laboratory 3 hours, Total 6 hours per week.

CHM 241 - 242 Organic Chemistry I - II (3 credits/3 credits)

Prerequisite: CHM 111, CHM 112

Corequisite: CHM 243, CHM 244

Introduces fundamental chemistry of carbon compounds, including structures, physical properties, syntheses, and typical reactions. Emphasizes reaction mechanisms. Lecture 3 hours per week.

CHM 243 - 244 Organic Chemistry Laboratory I - II (1 credit/1 credit)

Prerequisite: CHM 111, CHM 112

Should be taken concurrently with CHM 241-242. Laboratory 3 hours per week.

CHM 245 - 246 Special Organic Chemistry Laboratory I - II (2 credits)

Prerequisite: CHM 112

Is taken by chemistry and chemical engineering majors. Includes qualitative organic analysis. May be taken concurrently with or following CHM 241-242. Laboratory 6 hours per week.

Childhood Development

CHD 118 Language Arts for Young Children (3 credits)

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 audiovisual materials. Lecture 2 hours. Laboratory 2 hours. Total 4 hours per week.

CHD 120 Introduction to Early Childhood Education (3 credits)

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 145 - Teaching Art, Music, and Movement to Children (3 credits)

Provides experiences in developing the content, methods, and materials for directing children in art, music, and movement activities. Lecture 2 hours. Laboratory 2 hours. Total 4 hours per week.

CHD 205 Guiding the Behavior of Children (3 credits)

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 classroom management. Lecture 3 hours per week.

Communication Studies and Theatre

CST 100 - Principles of Public Speaking (3 credits)

Applies theory and principles of public address with emphasis on preparation and delivery. Lecture 3 hour per week.

CST 130 Introduction to the Theatre (3 credits)

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 credits)

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 hour. Total 5 hours per week.

CST 132 - Acting II (3 credits)

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 hour. Total 5 hours per week.

CST 136 Theatre Workshop (1-6 credits)

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 145 Stagecraft (3 credits)

Acquaints the student with fundamental methods, materials, and techniques of set construction for the stage. Lecture 2 hours. Laboratory 2 hour. Total 4 hours per week.

CST 151 - Film Appreciation I (3 credits)

Provides students with a critical understanding of film through the discussion and viewing of motion pictures with emphasis upon the study of film history and the forms and functions of film. Students will develop skills to analyze the shared social, cultural and historical influences of films and their contexts. Part I of II. Lecture 3 hours per week.

CST 152 - Film Appreciation II (3 credits)

Provides students with a critical understanding of film through the discussion and viewing of motion pictures with emphasis upon the study of film history and the forms and functions of film. Students will develop skills to analyze the shared social, cultural and historical influences of films and their contexts. Part II of II. Lecture 3 hours per week.

CST 197 Cooperative Education (1-5 credits)

Requires curriculum advisor and co-op advisor approvals.

Supervises in on-the-job training for pay in approved business, industrial and service firms, coordinated by the college's cooperative education office. Is 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.

CST 297 Cooperative Education (1-5 credits)

Requires curriculum advisor and co-op advisor approvals.

Supervises in on-the-job training for pay in approved business, industrial and service firms, coordinated by the college's cooperative education office. Is 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.

Culinary Arts

HRI 106 - Principles of Culinary Arts I (3 credits)

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 1-3 hours. Total 3-5 hours per week.

HRI 107 - Principles of Culinary Arts II (3 credits)

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 II of II. Lecture 2-3 hours. Laboratory 1-3 hours. Total 3-5 hours per week.

HRI 128 - Principles of Baking (3 credits)

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. Lecture 2 hours. Laboratory 3 hours. Total 5 hours per week.

Dental Assisting

DNA 100 Introduction to Oral Health Professions (1 credit)

Provides an introduction to the oral health profession and covers basic terminology, historical perspective, the credentialing process, accreditation, professional organizations, and legal and ethical considerations. Lecture 1 hour per week.

DNA 108 Dental Science (3 credits)

Studies head and neck anatomy, tooth morphology, pathological conditions of the oral cavity, disease processes, and microbiology. Lecture 2 hours. Laboratory 3 hours. Total 5 hours per week.

DNA 109 Practical Infection Control (3 credits)

Studies principles of management of disease producing micro organisms and diseases associated. Emphasis is placed on sterilization, asepsis, and disinfection techniques applicable in the dental office. Lecture 2 hours. Laboratory 3 hours. Total 5 hours per week.

DNA 110 - Dental Materials (3 credits)

Studies the materials utilized in the laboratory aspect of dentistry as support in treatment. Emphasis is placed on the characteristics, manipulation, economical control, storage, and delivery of materials. Lecture 2 hours. Laboratory 3 hours. Total 5 hours per week.

DNA 113 Chairside Assisting I (3 credits)

Provides instruction on the principles of clinical chair side dental assisting, dental equipment use and maintenance, safety, instrument identification, tray set-ups by procedures, and patient data collection. Emphasis on patient management during restorative procedures. Lecture 2 hours. Laboratory 3 hours. Total 5 hours per week.

DNA 114 Chairside Assisting II (4 credits)

Introduces the student to the various dental specialties including oral surgery, orthodontics, periodontics, prosthodontics, endodontics, and pediatric dentistry. Integrates and applies previous course content to operative dental procedures. Lecture 2 hours. Laboratory 6 hours. Total 8 hours per week.

DNA 120 Community Health (1 credit)

Studies topics related to community health issues including identification of specific diseases, symptoms, causes, and effects. An emphasis is placed on the promotion of oral health in the community through patient education in oral home care techniques, dietary counseling, plaque control procedures and application of medicinal agents. Lecture 1 hour per week.

DNA 130 - Dental Office Management (2 credits)

Exposes students to and provides practical experience in the legal aspects of dental office management with regard to ethics, jurisprudence, appointment control, recall systems, reception techniques, telephone techniques, accounts receivable and payable, payroll, insurance claims, inventory control, and professional conduct in a dental office. Lecture 1-2 hours. Laboratory 0-3 hours. Total 2-5 hours per week.

DNA 134 Dental Radiology and Practicum (3 credits)

Teaches the physics of dental radiation and safety, equipment operation, cone placement for the parallel and bisection techniques, panoramic exposures, mounting and film processing. Lecture 2 hours. Laboratory 3 hours. Total 5 hours per week.

Diesel Mechanic

DSL 111 Introduction to Diesel Engine (2 credits)

Studies the modern diesel engine, including its fuel, cooling, induction, and exhaust systems. Covers construction, fabrication, maintenance, tune-up, and minor repair and adjustment. Lecture 1 hour. Laboratory 2 hours. Total 3 hours per week.

DSL 121 Diesel Engines I (5-6 credits)

Studies the basic principles involved in the construction and operation of diesel engines. Examines fuel, air, cooling, and control system of various designs. Emphasizes engine overhaul and repair, including gauging proper measuring instruments and tools for these tasks. Part I of II. Lecture 2-3 hours. Laboratory 6 hours. Total 8-9 hours per week.

DSL 122 Diesel Engines II (5-6 credits)

Studies the basic principles involved in the construction and operation of diesel engines. Examines fuel, air, cooling, and control system of various designs. Emphasizes engine overhaul and repair, including gauging proper measuring instruments and tools for these tasks. Part II of II. Lecture 2-3 hours. Laboratory 6 hours. Total 8-9 hours per week.

DSL 143 Diesel Truck Electrical Systems (4 credits)

Studies the theory and operation of various truck and tractor electrical systems. Covers preheating, starting, generating, and lighting systems. Uses modern test equipment for measurement, adjustment, and troubleshooting. Lecture 2 hours per week. Laboratory 4 hours. Total 6 hours per week.

DSL 152 Diesel Power Trains, Chassis, and Suspension (4 credits)

Studies the chassis, suspension, steering and brake systems found on medium and heavy-duty diesel trucks. Covers construction features, operating principles and service procedures for such power train components as clutches, multi-speed transmissions, propeller shafts, and rear axles. Teaches operations of modern equipment to correct and adjust abnormalities. Lecture 2 hours. Laboratory 4 hours. Total 6 hours per week.

DSL 160 Air Brake Systems (3 credits)

Studies the basic operational theory of pneumatic and air brake systems as used in heavy-duty and public transportation vehicles. Covers various air control valves, test system components, and advanced air system schematics. Teaches proper service and preventative maintenance of systems. Lecture 2 hours. Laboratory 2 hours. Total 4 hours per week.

DSL 176 Transportation Air Conditioning (2 credits)

Studies fundamentals of transportation air conditioning. Includes repair, service, and troubleshooting of the refrigeration systems used in road vehicles and heavy equipment. Lecture 1 hour. Laboratory 2 hours. Total 3 hours per week.

Drafting

DRF 160 - Machine Blueprint Reading (3 credits)

Introduces interpreting of various blueprints and working drawings. Applies basic principles and techniques such as visualization of an object, orthographic projection, technical sketching and drafting terminology. Requires outside preparation. Lecture 3 hours per week.

DRF 161 Blueprint Reading I (2 credits)

Teaches the application of basic principles, visualization, orthographic projection, detail of drafting shop process and terminology, assembly drawings and exploded views. Considers dimensioning, changes and corrections, classes of fits, tolerance and allowances, sections and convention in blueprint reading. Lecture 1 hour, Laboratory 3 hours, Total 4 hours per week.

DRF 202 - Computer Aided Drafting and Design II (3-4 credits)

Teaches production drawings and advanced operations in computer aided drafting. Lecture 2-3 hours. Laboratory 2-3 hours. Total 4-6 hours per week.

Economics

ECO 201 Principles of Macroeconomics (3 credits)

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 the government spending and taxation, along with international trade and investments. Lecture 3 hours per week.

ECO 202 Principles of Microeconomics (3 credits)

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.

Education

EDU 196 - On-Site Training (1-5 credits)

Specializes in career orientation and training program without pay in selected businesses and industry, supervised and coordinated by the college. Credit/work ratio not to exceed 1:5 hours. May be repeated for credit. Variable hours.

EDU 200 Introduction to Teaching as a Profession (3 credits)

Prerequisite: Successful completion of 24 credits of transfer courses or division approval

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.

EDU 235 Health, Safety and Nutrition Education (3 credits)

Focuses on the physical needs of children and explores strategies to meet these needs. Emphasizes positive health routines, hygiene, nutrition, feeding and clothing habits, childhood diseases, and safety. Places emphasis on the development of food habits and concerns in food and nutrition. Describes symptoms and reporting procedures for child abuse. Lecture 3 hours per week.

Electrical Technology

ELE 111 - 112 Home Electric Power I - II (3 credits/3 credits)

Teaches fundamentals of residential power distribution, circuits, enclosures, protective devices, and transformers. Studies various charts and tables of the National Electrical Code. Lecture 2 hours, Laboratory 3 hours, Total 5 hours per week.

ELE 115 Basic Electricity (3 credits)

Covers basic circuits and theory of fundamental concepts of electricity. Presents a practical approach to discussion of components and devices. Lecture 3 hours per week.

ELE 131 - National Electrical Code I (3-4 credits)

Provides comprehensive study of the purpose and interpretations of the National Electric Code as well as familiarization and implementation of various charts, code rulings and wiring methods including state and local regulations. Part I of II. Lecture 3-4 hours per week.

ELE 132 - National Electrical Code II (3-4 credits)

Provides comprehensive study of the purpose and interpretations of the National Electric Code as well as familiarization and implementation of various charts, code rulings and wiring methods including state and local regulations. Part II of II. Lecture 3-4 hours per week.

ELE 133 - Practical Electricity I (3 credits)

Teaches the fundamentals of electricity, terminology, symbols, and diagrams. Includes the principles essential to the understanding of general practices, safety and the practical aspects of residential and non-residential wiring and electrical installation, including fundamentals of motors and controls. Pre/Corequisite MTE 1-3 or equivalent. Part I of II. Lecture 2 hours. Laboratory 2 hours. Total 4 hours per week.

ELE 134 - Practical Electricity II (3 credits)

Teaches the fundamentals of electricity, terminology, symbols, and diagrams. Includes the principles essential to the understanding of general practices, safety and the practical aspects of residential and non-residential wiring and electrical installation, including fundamentals of motors and controls. Pre/Corequisite MTE 1-3 or equivalent. Part II of II. Lecture 2 hours. Laboratory 2 hours. Total 4 hours per week.

ELE 138 National Electrical Code (2 credits)

Teaches purpose and interpretation of the National Electrical Code as well as familiarization with various charts, code rulings, and wiring methods. Lecture 2 hours.

ELE 141 DC and AC Machines I (4-5 credits)

Prerequisite: ELE 133/134

Teaches construction, theory of operation, connections, and applications of direct current motors, generators; single and polyphase alternating current alternators, synchronous and induction motors. Lecture 3 hours, Laboratory 3-9 hours, Total 6-12 hours per week.

ELE 149 Wiring Methods in Industry I (3-4 credits)

The fundamentals of industrial power distribution, circuits, switches, enclosures, panels, fuses, circuit breakers, transformers, and wiring methods, using various charts and tables of the National Electrical Code. Lecture 2-3 hours, Laboratory 3 hours, Total 5-6 hours per week.

ELE 156 - Electrical Control Systems (3 credits)

Includes troubleshooting and servicing electrical controls, electric motors, motor controls, motor starters, relays, overloads, instruments and control circuits. Lecture 2 hours. Laboratory 2 hours. Total 4 hours per week.

ELE 157 Electricity Fundamentals (6-7 credits)

Teaches the theories and laws of the flow of electricity, magnetism, inductance, capacitance, and the fundamentals of direct and alternating currents. Provides practical application by the use of test and measuring equipment, circuitry, and electrical apparatus. Lecture 3 hours, Laboratory 6-8 hours, Total 9-11 hours per week.

ELE 169 DC and AC Controls (4-6 credits)

Study of symbols, terminology, connections, applications and troubleshooting of direct and alternating current electrical/electronic circuits and controls used in industry. Lecture 2-3 hours, Laboratory 6-7 hours. Total 8-10 hours per week.

ELE 175 Industrial Solid State Devices and Circuits (2-3 credits)

The theory, symbols, properties, and applications of solid state devices in industry. Lecture 1-2 hours, Laboratory 3 hours, Total 4-5 hours per week.

ELE 176 - Introduction to Alternative Energy Including Hybrid Systems (2-3 credits)

Introduces Alternative Energy with an emphasis on solar photovoltaic systems, small wind turbines technology, the theory of PV technology, PV applications, solar energy terminology, system components, site analysis, PV system integration and PV system connections and small wind turbine technology site analysis. Lecture 2-3 hours. Laboratory 2-3 hours. Total 4-6 hours per week.

ELE 177 - Photovoltaic Energy Systems (4 credits)

Teaches techniques for conduct site surveys, installing system components, installing inverters and performing system sizing and system maintenance. Introduces different battery configurations, and charge controllers. Introduces safety, system design and layout, National Electric Code, Component Selection, wiring and installation techniques. Lecture 3 hours. Laboratory 3 hours. Total 6 hours per week.

ELE 197 Co-op (2-5 credits)

Requires curriculum advisor and co-op advisor approvals.

Cooperative education in electricity. Designed to provide practical work experience for the electricity student. Minimum on-the-job training is 10 hours per week.

ELE 225 - Electrical Control Systems (4 credits)

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. Prerequisite: ELE 217 or equivalent. Lecture 3 hours. Laboratory 3 hours. Total 6 hours per week.

ELE 233 - Programmable Logic Controller Systems I (3-4 credits)

Teaches operating and programming of programmable logic controllers. Covers analog and digital interfacing and communication schemes as they apply to system. Prerequisite: ETR 156 and ETR 211 or equivalent. Part I of II. Lecture 2-3 hours. Laboratory 3 hours. Total 5-6 hours per week.

ELE 234 - Programmable Logic Controller Systems II (3-4 credits)

Teaches operating and programming of programmable logic controllers. Covers analog and digital interfacing and communication schemes as they apply to system. Prerequisite: ETR 156 and ETR 211 or equivalent. Part II of II. Lecture 2-3 hours. Laboratory 3 hours. Total 5-6 hours per week.

ELE 239 Programmable Controllers (2-3 credits)

Prerequisite: ELE 157 or equivalent

Deals with installation, programming, interfacing, and concepts of troubleshooting programmable controllers. Lecture 2 hours, Laboratory 2 hours. Total 4 hours per week.

ELE 245 - Industrial Wiring (3 credits)

Teaches the practical applications of industrial and commercial wiring. Includes the principles essential to the understanding of conduit applications and other raceway installations. Includes conduit sizing, cutting, bending, and threading. Lecture 2 hours. Laboratory 2 hours. Total 4 hours per week.

ELE 297 Co-op (2-5 credits)

Requires curriculum advisor and co-op advisor approvals.

Cooperative education in electricity. Designed to provide practical work experience for the electricity or the Electrical/Electro student. Minimum on-the-job training is 10 hours per week.

Electronics Technology

ETR 168 - Digital Circuit Fundamentals (2-3 credits)

Covers the fundamentals of digital logic and the study of digital circuits and their applications. Lecture 2-3 hours per week.

ETR 218 - Industrial Electronics Circuits (4 credits)

Introduces the principles of industrial measurements and control: electrical, electronic, mechanical, thermal, and optical measuring and records, and actuators, electronic instrumentation control devices and circuits. Lecture 3 hours. Laboratory 3 hours. Total 6 hours per week.

ETR 237 - Industrial Electronics I (3-4 credits)

Studies linear integrated circuits for industrial applications, motors, industrial control devices, power control circuits, transducers, industrial process control, and sequential process control. Part I of II. Lecture 2-3 hours. Laboratory 2-4 hours. Total 4-5 hours per week.

Emergency Medical Technology

EMS 100 - CPR for Healthcare Providers (1 credit)

Provides instruction in Cardiopulmonary Resuscitation that meets current Emergency Cardiac Care (ECC) guidelines for Cardiopulmonary Resuscitation education for Healthcare Providers. Equivalent to HLT 105. Lecture 1 hours per week.

EMS 101 - EMS First Responder (3 credits)

Provides education in the provision of emergency medical care for persons such as Police, non-EMS Fire personnel, industrial personnel and the general public who are likely to be the first medically trained personnel on the scene of an injury or illness. Meets current Virginia Office of Emergency Medical Services curriculum for First Responder. Equivalent to HLT 119. Lecture 3 hour per week.

EMS 102 - EMS First Responder Refresher (1 credit)

Provides 18 clock hours of instruction to meet Virginia Office of EMS requirements for recertification at the First Responder Level. Lecture 1 hour per week.

EMS 111 - Emergency Medical Technician (7credits)

Prerequisite: EMS 100/equivalent **Co-requisite:** EMS 120

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 Medicine Technician. 5 lecture hours; 4 lab hours; 9 hours per week.

EMS 112 - Emergency Medical Technician-Basic I (3 credits)

Prepares student for certification as a Virginia and/or National Registry EMT-Basic. Focuses on all aspects of pre-hospital basic life support as defined by the Virginia office of Emergency Medical Services curriculum for Emergency Medicine Technician Basic. Lecture 3 hours. Laboratory 2 hours. Total 5 hours per week.

EMS 113 - Emergency Medical Technician-Basic II (3credits)

Continues preparation of student for certification as a Virginia and/or National Registry EMT-Basic. Includes all aspects of pre-hospital basic life support as defined by the Virginia Office of Emergency Medical Services curriculum for Emergency Medicine Technician Basic. Lecture 2 hours. Laboratory 2 hours. Total 4 hours per week.

EMS 115 - Emergency Medical Technician - Basic Refresher (2 credits)

Provides 36 clock hours of instruction to meet Virginia Office of EMS requirements for recertification at the EMT-Basic level. Lecture 2 hours per week.

EMS 120 - Emergency Medical Technician - Basic Clinical (1 credit)

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; 2 hours per week

EMS 151 - Introduction to Advanced Life Support (4 credits)

Prerequisites: Current State or National Registry EMT-B and CPR

Corequisite: EMS 170 Clinical and Field Internship

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 at a minimum to the Virginia Office of Emergency Medical Services curriculum. Lecture 3 hours. Laboratory 2 hours. Total 5 hours per week.

EMS 152 - Advanced EMT Completion (2 credits)

Prerequisite - Current EMT Certification and EMS 151.

Co-requisite - EMS 151

Continues the Virginia Office of Emergency Medical Services Advanced, Intermediate and/or Paramedic curricula. Includes patient assessment, differential diagnosis and management of multiple complaints. Includes, but are not limited to conditions relating to diabetic, neurological, abdominal pain, environmental, behavioral, gynecology, and toxicological disease conditions. Also includes Advanced EMT level cardiac, trauma and special population topics. Lecture 1 hour. Lab 2 hours. Total 3 hours per week.

EMS 153 - Basic ECG Recognition (2 credits)

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 154 - ALS Cardiac Care (2 credits)

Pre/Co-requisites: EMS 153

Continues the Virginia Office of Emergency Medical Services Intermediate and/or Paramedic curricula. Includes Advanced Life Support (ALS) airway management, electrical therapy, pharmacology, drug and fluid administration with emphasis on patient assessment, differential diagnosis and management of cardiovascular emergencies. It will

incorporate the current American Heart Association (AHA) - ACLS guidelines and curriculum including stroke management. Lecture 1 hour. Lab 2 hours. Total 3 hours per week.

EMS 155 - ALS - Medical Care (4credits)

Prerequisites: EMS 151, 153

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. Includes, but are not limited to conditions relating to cardiac, diabetic, neurological, non-traumatic abdominal pain, environmental, behavioral, gynecology, and toxicological disease conditions. Lecture 3 hours. Laboratory 2 hours. Total 5 hours per week.

EMS 157 - ALS - Trauma Care (3 credits)

Prerequisites: Current EMT-B certification, EMS 151 and EMS 153

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. Laboratory 2 hours. Total 4 hours per week.

EMS 159 - ALS - Special Populations (3credits)

Prerequisites: EMS 151 and EMS 153; **Pre or Co-requisites:** EMS 155

Continues the Virginia office of Emergency Medical Services Intermediate and/or Paramedic curricula. Focuses on the assessment and management of specialty patients including obstetrical, pediatric, and neonates. 2 lecture hours; 2 lab hours; 4 Hours per week.

EMS 163 - Pre-hospital Trauma Life Support (PHTLS) (1 credit)

Prerequisites: Current certification/licensure as an EMS provider or other allied healthcare provider: EMS 111 or equivalent

Prepares for certification as a Pre-hospital Trauma Life Support provider as defined by the American College of Surgeons. Lecture 1 hour per week.

EMS 165 - Advanced Cardiac Life Support (ACLS) (1 credit)

Prerequisites: EMS 100, 153 or equivalent

Prepares for certification as an Advanced Cardiac Life provider. Follows course as defined by the American Heart Association. Lecture 1 hour per week.

EMS 167 - Neonatal Resuscitation Program (NRP) (1 credit)

Prerequisite: Current certification/licensure as an advanced EMS provider or other allied healthcare provider.

Provides the student information in current topics in the care of newborn patients to current AAP/American Heart Association- Neonatal Resuscitation Program guidelines. Lecture 1 hour per week.

EMS 168 - Emergency Pediatric Care (PEPP) (1 credit)

Prerequisite: EMS 100 or equivalent

Prepares the student for certification as a pre-hospital 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 credit)

Prerequisites: EMS 100, 153, or equivalent

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 Internship I (1-2 credits)

Prerequisites: EMS 151

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. Laboratory 3-6 hours per week.

EMS 172 - ALS Clinical Internship II (1-2credits)

Co-requisite: EMS 151

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. Laboratory 3-6 hours per week.

EMS 173 - ALS Field Internship II (1 credit)

Co-requisite: EMS 151

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 193 - Studies In RN to Paramedic (4 credits)

Prerequisite: RN Licensure, EMT Basic Certification

Begins preparation for Virginia and National Registry Paramedic certification for registered nurses. Covers new content not covered in existing courses in the discipline. Allows instructor to explore content and instructional methods to assess the course's viability as a permanent offering. Variable hours per week.

EMS 201 - EMS Professional Development (3 credits)

Prerequisite: EMT/B Certification

The purpose of this course is to prepare the EMS student to use community resources to facilitate personal and community wellness and fulfills the wellness and resource objectives of the Virginia Office of Emergency Medical Services Intermediate curriculum. Lecture 3 hours. Total 3 hours per week.

EMS 205 - Advanced Pathophysiology (4 credits)

Prerequisite: EMT/B Certification

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. Lecture 4 hours. Total 4 hours per week.

EMS 207 - Advanced Patient Assessment (3 credits)

Focuses on the principles of normal and abnormal physical exam. 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 credits)

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, contraindications, 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 a laboratory environment. Lecture 3 hours. Laboratory 2 hours. Total 5 hours per week.

EMS 211 - Operations (2 credits)

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 EMT-Paramedics.) Lecture 1 hour. Laboratory 2 hours. Total 3 hours per week.

EMS 213 - ALS Skills Development (1-2 credits)

Utilizes reinforcement and remediation of additional advanced life support skills, as needed. Laboratory 2-4 hours per week.

EMS 215 - Registry Review (1 credit)

Reviews material covered in the intermediate/paramedic program. Prepares the student for National Registry testing. Lecture 1 hour per week.

EMS 240 - ALS Internship II (1 credit)

Continues clinical and/or field 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 hours per week.

EMS 242 - ALS Clinical Internship III (1-2 credits)

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 credits)

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 - ALS Clinical Internship IV (1-2 credits)

The fourth in a series of clinical experiences providing 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 credits)

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 251 - ALS Required Topics (3 credits)

Reviews material covered in the ALS programs. Covers all category 1 content required for Advanced Life Support recertification. Lecture 3 hours per week.

EMS 253 - ALS Refresher (4 credits)

Reviews material covered in the ALS programs. Meets all required criteria for recertification eligibility. Lecture 3 hours. Laboratory 2 hours. Total 5 hours per week.

EMS 255 - Concepts in Critical Care (5 credits)

Prepares the paramedic or RN to become a critical care specialist, capable of managing the care of a critical care patient both in a hospital setting or during a high risk inter - facility transfer. Includes advanced concepts that build on the knowledge and skills of the paramedic and/or nursing curricula, as well as topics needed to trouble shoot complex monitoring devices and equipment. Includes anatomy and physiology based clinical assessment, advanced airway management to include mechanical ventilators, diagnostics data interpretation, bedside hemodynamic monitoring, 12 lead EKG interpretation and hemodialysis care. Lecture 4 hours. Laboratory 2 hours. Total 6 hours per week.

EMS 290 - Coordinated Internship in RN to P Clinical I (2 credits)

Prerequisite: EMT Basic Certification

Provides supervised direct patient contact in appropriate hospital care facilities and EMS agencies. Includes patient care units such as the Emergency Department, Critical Care units, Pediatric, Labor and Delivery, Operating Room, Trauma Centers and advanced life support units. Laboratory 3 hours.

EMS 293 - Studies In RN to Paramedic II (3 credits)**Prerequisite:** RN Licensure, EMT Basic Certification

Continues student preparation for Virginia and National Registry Paramedic certification for registered nurses. Includes the theory and application of the National Paramedic Curriculum. Lecture 2 hours, Laboratory 2 hours, Total 4 hours per week.

EMS 295 - Topics In RN to Paramedic II (2 credits)**Prerequisite:** EMT Basic Certification

Provides supervised direct patient contact in appropriate hospital care facilities and EMS agencies. Includes patient care units such as the Emergency Department, Critical Care units, Pediatric, Labor and Delivery, Operating Room, Trauma Centers and advanced life supporting units. Clinical 3 hours.

Energy Technology

ENE 100 - Conventional and Alternate Energy Applications (4 credits)

Provides an overview of hydroelectric, coal, and nuclear energy production methods and renewable solar, geothermal, wind, and fuel cell technology. A complete system breakdown of conventional power production methods, efficiency, and sustainability when compared with solar. Lecture 3 hours. Laboratory 3 hours. Total 6 hours per week. Prerequisite: ELE 176 or instructor approval.

ENE 197 - Cooperative Education (1-5 credits)

Supervises in on-the-job training for pay in approved business, industrial and service firms, coordinated by the college's cooperative education office. Is 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.

ENE 200 - Power Monitoring (4 credits)

Covers the equipment, connections, and use of monitoring power production necessary for offsite and onsite use. Includes study of computer applications used for monitoring including real time storage and historical storage of data. Prerequisites: ELE 157 and MTE 1-5 or equivalents. Lecture 3 hours. Laboratory 3 hours. Total 6 hours per week.

ENE 297 - Cooperative Education (1-5 credits)

Supervises in on-the-job training for pay in approved business, industrial and service firms, coordinated by the college's cooperative education office. Is 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.

Engineering

EGR 120 - Introduction to Engineering (1-2 credits)**Prerequisites:** MTH 263, MTH 266**Corequisites:** MTH 164

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.

EGR 140 Engineering Mechanics—Statics (3 credits)**Prerequisites:** MTH 163, MTH 266 **Corequisites:** MTH 164

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. Lecture 3 hours per week.

EGR 245 Engineering Mechanics - Dynamics (3 credits)**Prerequisites:** EGR 140

Presents approach to kinematics of particles in linear and curvilinear motion. Includes kinematics of rigid bodies in plane motion. Teaches

Newton's second law, work-energy and power, impulse and momentum, and problem solving using computers. Lecture 3 hours per week.

EGR 246 Mechanics of Materials (3 credits)**Prerequisite:** EGR 140

Teaches concepts of stress, strain, deformation, internal equilibrium, and basic properties of engineering materials. Analyses axial loads, torsion, bending, shear and combines loading. Studies stress transformation and principle stresses, column analysis and energy principles. Lecture 3 hours per week.

EGR 295 Experiences in Engineering (1-5 credits)

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.

English Fundamentals

ENF 1: Preparing for College English I (8 credits)

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 upon VPT-English test score. Upon successful completion and faculty recommendation, students will move into ENF 3: Preparing for College English (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. Contact hours 8. Qualifying placement test score.

ENF 2: Preparing for College English II (4 credits)

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 upon VPT-English test score. Upon successful completion and faculty recommendation, students will move into ENF 3: Preparing for College English (if they require additional preparation) or into college-level English (if they require no additional preparation). Credit is not applicable toward graduation. Lecture 4 hours per week. Contact hours 4. Qualifying placement test score.

ENF 3: Preparing for College English III (2 credits)

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 (ENG 111). Students will place into this course based on VPT-English test and faculty recommendation. Credit is not applicable toward graduation. Lecture 2 hours per week. Contact hours 2. Qualifying placement test score. Co-Enrollment in a college-level English course.

English

ENG 111 - College Composition I (3 credits)**Prerequisite:** VPT English Placement

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.

ENG 112 - College Composition II (3 credits)**Prerequisite:** ENG 111 or its equivalent

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. Prerequisite: Students must successfully complete ENG 111 or its equivalent, and must be able to use word processing software. Lecture 3 hours per week.

ENG 115 Technical Writing (3 credits)

Students must pass VHCC college placement tests in reading and writing before entry into ENG 115.

Develops ability in technical writing through extensive practice in composing technical reports and other documents. Guides students in achieving voice, tone, style, and content in formatting, editing, and graphics. Introduces students to technical discourse through selected reading. Lecture 3 hours per week.

ENG 210 - Advanced Composition (3 credits)

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 211 - Creative Writing I (3 credits)

Introduces the student to the fundamentals of writing imaginatively. Students write in forms to be selected from poetry, fiction, drama, and essays. Prerequisite ENG 112 or divisional approval. Part I of II. Lecture 3 hours per week.

ENG 212 - Creative Writing II

Introduces the student to the fundamentals of writing imaginatively. Students write in forms to be selected from poetry, fiction, drama, and essays. Prerequisite ENG 112 or divisional approval. Part II of II. Lecture 3 hours per week.

ENG 241 - Survey of American Literature I (3 credits)

Prerequisite: ENG 112 or divisional approval

Examines American literary works from colonial times to the present, emphasizing the ideas and characteristics of our national literature. Involves critical reading and writing. Part I of II. Lecture 3 hours per week.

ENG 242 - Survey of American Literature II (3 credits)

Prerequisite: ENG 112 or divisional approval

Examines American literary works from colonial times to the present, emphasizing the ideas and characteristics of our national literature. Involves critical reading and writing. Part II of II. Lecture 3 hours per week.

ENG 243 - Survey of English Literature I (3 credits)

Prerequisite: ENG 112 or divisional approval

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. Part I of II. Lecture 3 hours per week.

ENG 244 - Survey of English Literature II (3 credits)

Prerequisite: ENG 112 or divisional approval

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. Part II of II. Lecture 3 hours per week. 3 credits.

Financial Services

FIN 107 - Personal Finance (3 credits)

Presents a framework of personal money management concepts, including establishing values and goals, determining sources of income, managing income, preparing a budget, developing consumer buying ability, using credit, understanding savings and insurance, providing for adequate retirement, and estate planning. Lecture 3 hours per week.

FIN 110 Principles of Banking (3 credits)

Presents nearly every aspect of banking, providing a comprehensive introduction to the diversified services and operations of the banking industry. Focuses on new trends gaining attention in banking circles. Recommended for all banking students. (AIB Approved). Lecture 3 hours per week.

FIN 125 Law and Banking: Principles (3 credits)

Presents a banker's guide to law and legal issues with special emphasis on the Uniform Commercial Code. Includes summaries of law pertaining to contracts, real estate, and bankruptcy. Highlights legal implications of consumer lending, sources and applications of banking law, torts, and crimes, real and personal property, and a complete glossary of legal terminology related to banking. (AIB Approved). Lecture 3 hours per week.

FIN 215 Financial Management (3 credits)

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.

FIN 256 Marketing for Bankers (3 credits)

Focuses on understanding the basic concepts necessary to successfully market bank products and services. Develops an understanding of the functions of public relations, advertising, sales promotion, selling, and distribution. Highlights customer motivation and buying behavior, the marketing management process and marketing and the wholesale side of banking. (AIB Approved). Lecture 3 hours per week.

Fire Science

FST 100 Principles of Emergency Services (3 credits)

Provides an overview to fire protection; career opportunities in fire protection and related fields; philosophy and history of fire protection/service; fire loss analysis; organization and function to public and private fire protection services; fire departments as part of local government; laws and regulations affecting the fire service; fire service nomenclature; specific fire protection functions; basic fire chemistry and physics; introduction to fire protection systems; introduction to fire strategy and tactics. Lecture 3 hours per week.

FST 110 Fire Behavior and Combustion (3 credits)

Explores the theories and fundamentals of how and why fires start, spread, and how they are controlled. Lecture 3 hours per week.

FST 115 Fire Prevention (3 credits)

Provides fundamental information regarding the history and philosophy of fire prevention, organization and operation of a fire prevention bureau, use of fire codes, identification and correction of fire hazards, and the relationships of fire prevention with built-in fire protection systems, fire investigation, and fire and life-safety education. Lecture 3 hours per week.

FST 120 Occupational Safety and Health for the Fire Service (3 credits)

Introduces the basic concepts of occupational health and safety as it relates to emergency service organizations. Includes risk evaluation and control procedures for fire stations, training sites, emergency vehicles, and emergency situations involving fire, EMS, hazardous materials, and technical rescue. (Upon completion of this course, students should be able to establish and manage a safety program in an emergency service organization. Lecture 3 hours per week.

FST 205 Fire Protection Hydraulics and Water Supply (3 credits)

Provides a foundation of theoretical knowledge in order to understand the principles of the use of water in fire protection and to apply hydraulic principles to analyze and to solve water supply problems. Lecture 3 hours per week.

FST 210 Legal Aspects of Fire service (3 credits)

Introduces the Federal, State, and local laws that regulate emergency services, national standards influencing emergency services, standard of care, tort, liability, and a review of relevant court cases. Lecture 3 hours per week.

FST 220 Building Construction for Fire Protection (3 credits)

Provides the components of building construction that relate to fire and life safety. Focuses on firefighter safety. Covers the elements of construction and design of structures and how they are key factors when inspecting buildings, preplanning fire operations, and operating at emergencies. Lecture 3 hours per week.

FST 235 Strategy and Tactics (3 credits)

Provides an in-depth analysis of the principles of fire control through utilization of personnel, equipment, and extinguishing agents on the fire ground. Lecture 3 hours per week.

Geography

GEO 210 People and the Land: Intro to Cultural Geography (3 credits)

Focuses on the relationship between culture and geography. Presents a survey of modern demographics, landscape modification, material and nonmaterial culture, language, race and ethnicity, religion, politics and economic activities. Introduces the student to types and uses of maps. Lecture 3 hours per week.

Geology

GOL 105 Physical Geology (4 credits)

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 per week, Laboratory 3 hours, Total 6 hours per week.

GOL 106 Historical Geology (4 credits)

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.

Health

HLT 105 Cardiopulmonary Resuscitation (1 credit)

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 106 First Aid and Safety (2 credits)

Focuses on the principles and techniques of safety and first aid. Lecture 2 hours per week.

HLT 110 Concepts of Personal and Community Health (3 credits)

Studies the concepts related to the maintenance of health, safety and the prevention of illness at the personal and community level. Lecture 3 hours per week.

HLT 119 First Responder (3 credits)

Provides knowledge and proficiency in basic life support and in actions necessary to minimize patient discomfort and prevention of further complications. Meets requirements for Virginia Certification as a first responder. This course is dually listed under EMT, as 105. It is also listed under the health prefix to allow EMT's business and industry personnel to enroll in a health class to apply toward degree or certificate HLT requirements. Total 3 hours per week.

HLT 121 Introduction to Drug Use and Abuse (3 credits)

Explores the use an abuse of drugs in contemporary society with emphasis upon sociological, physiological, and psychological effects of drugs. Lecture 3 hours per week.

HLT 143 - 144 Medical Terminology I - II (3 credits/3credits)

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. Lecture 3 hours per week.

HLT 195/295 Topics in (discipline) (1-5 credits)

Provides an opportunity to explore topic areas of an evolving nature or of short-term importance in the discipline. Variable hours per week.

HLT 230 Principles of Nutrition and Human Development (3 credits)

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. 3 credits

HLT 247 - Health and Safety in Industry Settings (2 credits)

Presents an introduction to occupational health and its application in the workplace. Special emphasis is placed upon communication of health and safety principles to employees. Provides an overview of regulations that apply to health, safety and the environment in the workplace. Lecture 2 hours per week.

HLT 261 - Basic Pharmacy I (3 credits)

Explores the basics of general pharmacy, reading prescriptions, symbols, packages, pharmacy calculations. Teaches measuring compounds of drugs, dosage forms, drug laws, and drug classifications. Lecture 3 hours per week.

Health Care Technology

HCT 101 Health Care Technician I (3- 4 credits)

Teaches basic care skills with emphasis on physical, social, emotional, and spiritual needs of patients. Covers procedures, communications and interpersonal relations; observation, 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, long and short term care facilities. Lecture 3-4 hours per week.

HCT 102 Health Care Technician II (3- 4 credits)**Prerequisite: HCT 101**

Applies theory through laboratory experience for health care technicians to work in home health, long and short term facilities. Lecture 1-2 hours. Laboratory 2-6 hours. Total 4- 8 hours per week.

Health Information Management

HIM 101 Health Information Technology I (4 credits)

Introduces values, uses and content of the medical record. Defines numbering, filling and retention policies and practices. Lecture 3 hours. Laboratory 3 hours. Total 6 hours per week.

HIM 113 Medical Terminology and Disease Processes I (3 credits)

Includes the study of prefixes, suffixes, stem words, and technical terms; puts emphasis on the causes and treatment of selected disease processes. Part I of II. Lecture 3 hours per week.

HIM 114 Medical Terminology and Diseases Processes II (3 credits)

Continues the study of prefixes, suffixes, stem words, and technical term; puts emphasis on the causes and treatment of selected disease processes. Part II of II. Lecture 3 hours per week.

HIM 130 Healthcare Information Systems (3 credits)

Teaches basic concepts of microcomputer software (to include operating systems, word processing, spreadsheets, and database applications). Focuses on microcomputer applications and information systems in the Healthcare environment. Provides a working introduction to electronic health information systems for allied health, teaching students how the adoption of electronic health records affects them as future healthcare professionals. Lecture 3 hours per week.

HIM 150 Health Records Management (3 credits)

Presents documentation format and content of the medical record relevant to the coding function. Introduces application of standard techniques for filing, maintenance, and acquisition of health information. Examines the processes of collecting, computing, analyzing, interpreting, and presenting data related to health care services. Includes legal and regulatory guidelines for the control and use of health information data. Lecture 3 hours per week.

HIM 151 Reimbursement Issues In Medical Practice Management (2 credits)

Introduces major reimbursement systems in the United States. Focuses on prospective payment systems, managed care, and documentation necessary for appropriate reimbursement. Emphasizes management of practice to avoid fraud. Lecture 2 hours per week.

HIM 163 Anatomy and Physiology for Administrative Health Professionals (3 credits)

Prerequisite: Medical Terminology or HLT 143 or HIM 111.

Introduces the structure and function of the systems of the human body as applied by administrative health professionals. Lecture 3 hours per week.

HIM 198 Seminar and Project (1-5 credits)

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 per week.

HIM 226 Legal Aspects of Health Record Documentation (2 credits)

Presents the legal requirements associated with health record documentation. Emphasizes the policies and procedures concerning the protection of the confidentiality of patient's health records. Lecture 2 hours per week.

HIM 233 Electronic Health Records Management (3 credits)

Prerequisites: HIM 130 and HIM 230

Studies new trends in management and processing of health information with emphasis on the electronic health record (EHR). Covers the definition, benefits, standards, functionality, confidentiality and security, and impact of the EHR in the healthcare environment. Explores implementation of the EHR including infrastructure required, project management techniques, information technology systems, workflow processes and redesign in various health care settings. Discusses legal issues created by implementation of the EHR. Lecture 3 hours per week.

HIM 253 Health Records Coding (3-5 credits)

Examines the development of coding classification systems. Introduces ICD-9-CM coding classification system, its format and conventions. Stresses basic coding steps and guidelines according to body systems. Provides actual coding exercises in relation to each system covered. Lecture 3-4 hours per week.

HIM 254 Advanced Coding and Reimbursement (3-4 credits)

Stresses advanced coding skills through practical exercises using actual medical records. Introduces CPT-4 coding system and guidelines for out-patient/ambulatory surgery coding. Introduces prospective payment system and its integration with ICD-CM-9 coding. Lecture 3-4 hours per week.

HIM 295 Topics in (1-5 credits)

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 per week.

History

HIS 101 - History of Western Civilization I (3 credits)

Examines the development of western civilization from ancient times to the present. Part I of II. Lecture 3 hours per week.

HIS 102 - History of Western Civilization II (3 credits)

Examines the development of western civilization from ancient times to the present. Part II of II. Lecture 3 hours per week.

HIS 111 - History of World Civilization I (3 credits)

Surveys Asian, African, Latin American, and European civilizations from the ancient period to the present. Part I of II. Lecture 3 hours per week.

HIS 112 - History of World Civilization II (3 credits)

Surveys Asian, African, Latin American, and European civilizations from the ancient period to the present. Part II of II. Lecture 3 hours per week.

HIS 121 - United States History I (3 credits)

Surveys United States history from its beginning to the present. Part I of II. Lecture 3 hours per week.

HIS 122 - United States History II (3 credits)

Surveys United States history from its beginning to the present. Part II of II. Lecture 3 hours per week.

Horticulture

HRT 100 Introduction to Horticulture (3 credits) (Fall)

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 115 Plant Propagation (3 credits) (Fall)

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 134 Four Season Food Production (3 credits) (Spring)

Familiarizes students with organic small-scale food production through lecture and demonstration. Includes seed saving, cover crops, and gardening planning. Lecture 3 hours per week.

HRT 197 Co-op (3 credits)

Requires curriculum advisor and co-op advisor approvals.

Cooperative education in ornamental horticulture. Designed to provide practical work experience for the horticulture student. Minimum on-the-job training is 225 work hours over the course of a semester.

HRT 121 - Greenhouse Crop Production I

Covers commercial practices related to production of floriculture crops. Considers production requirements, environmental control and management, and cultural techniques. Lecture 2 hours. Laboratory 2 hours. Total 4 hours per week. 3 credits

HRT 205 Soils (3 credits) (Spring)

Teaches theoretical and practical aspects of soils and other growing media. Examines media components, chemical and physical properties, and soil organisms. Discusses management and conservation. Lecture 2 hours. Laboratory 2 hours. Total 4 hours per week.

HRT 207 Plant Pest Management (3 credits) (Spring)

Teaches principles of plant pest management. Covers morphology and life cycles of insects and other small animal pests and plant pathogens. Lab stresses diagnosis, chemical and non-chemical control of specific pests, and pesticide safety. Lecture 2 hours. Laboratory 2 hours. Total 4 hours per week.

HRT 225 - Nursery and Garden Center Management (3 credits)

Covers aspects of nursery management, including culture, plant handling, and facilities layout. Discusses aspects of garden center management, including planning and layout, purchasing, product selection, marketing, merchandising, and display. Lecture 2 hours. Laboratory 2 hours. Total 4 hours per week.

HRT 226 Greenhouse Management (3 credits) (Spring)

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 227 Professional Landscape Management (3 credits) (Spring)

Focuses on basic practices and techniques involving landscape management. Includes development of a year-round management calendar and preparation of bid and contract proposals. Lecture 2 hours. Laboratory 2 hours. Total 4 hours per week.

HRT 228 - Turfgrass Management I (3 credits)

Applies scientific principles for the establishment and maintenance of intensively managed turfgrass. Topics covered include cultivar selection, seeding, sprigging and sodding techniques, fertilization, watering, weed identification and control, insect identification and control, fungus identification and control, soil structure, drainage, topdressing, and mowing frequency and height. Lecture 2 hours. Laboratory 2 hours. Total 4 hours per week.

HRT 231 - Planting Design I (3 credits)

Applies landscape theory and principles of drawing to the planning of residential and small scale commercial landscape designs. Lecture 2 hours. Laboratory 2 hours. Total 4 hours per week.

HRT 245 - Woody Plants (3 credits)

Studies identification, culture, and uses of woody plants in landscaping. Includes deciduous and evergreen, native and cultivated shrubs, trees and vines. Teaches scientific and common names of plants. Lecture 2 hours. Laboratory 2 hours. Total 4 hours per week.

HRT 246 Herbaceous Plants (2-3 credits)

Studies identification, culture and uses of herbaceous plants in landscaping. Includes perennials, biennials, common bulbs and annuals. Teaches scientific and common names of plants. Lecture 1 - 2 hours. Laboratory 2 hours. Total 3-4 hours per week.

HRT 247 Indoor Plants (3 credits) (Spring)

Studies identification, culture, and uses of indoor plants in interior landscaping. Includes tropical, subtropical and non-hardy temperate plants. Teaches scientific and common names of plants. Lecture 1-2 hours. Laboratory 2 hours. Total 3-4 hours per week.

HRT 259 Arboriculture (3 credits)

Studies the techniques of tree care. Covers surgery, pruning, insect and disease recognition and control, fertilization, cabling, and lightning rod installation. Lecture 2 hours. Laboratory 2 hours. Total 4 hours per week.

HRT 260 Introduction to Floral Design (3 credits) (Fall)

Teaches skills required for the composition of basic table arrangements. Includes the history of design styles, identification of flowers and green, identification and use of equipment, and conditioning and handling of flowers. Lecture 2 hours. Laboratory 2 hours. Total 4 hours per week.

HRT 269 Professional Turf Care (3 credits) (Fall)

Covers turf grass identification selection, culture, propagation, and pest control. Surveys commercial turf care operations and use of common equipment. Lecture 2 hours. Laboratory 2 hours. Total 4 hours per week.

HRT 275 Landscape Construction and Maintenance (3 credits) (Fall)

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.

HRT 297 - Cooperative Education (1-6 credits)

Supervises in on-the-job training for pay in approved business, industrial and service firms, coordinated by the college's cooperative education office. Is 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.

Human Services

HMS 100 Introduction to Human Services (3 credits)

Introduces human service agencies, roles and careers. Presents a historical perspective of the field as it relates to human services today. Additional topics include values clarification and needs of target population. Lecture 3 hours per week.

HMS 197 - Cooperative Education (1-5 credits)

Supervises in on-the-job training for pay in approved business, industrial and service firms, coordinated by the college's cooperative education office. Is 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.

HMS 227 The Helper as a Change Agent (3 credits)

Teaches the following skills for implementing alternative models of change and influence: action research, problem-solving, consultation, workshop development, and outreach and advocacy for diverse client populations. Lecture 3 hours per week.

HMS 297 - Cooperative Education (1-6 credits)

Supervises in on-the-job training for pay in approved business, industrial and service firms, coordinated by the college's cooperative education office. Is 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.

Industrial Engineering Technology

IND 125 Installation and Preventive Maintenance (3 credits)

Studies practices in the installation of machinery, including mounting, grouting, leveling, and alignment. Examines methods of preventive maintenance including inspection, scheduled maintenance, controls, record keeping, repair parts stocking, and safety considerations. Lecture 2 hours. Laboratory 2 hours. Total 4 hours per week.

IND 137 - Team Concepts & Problem Solving (3 credits)

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.

IND 235 Statistical Quality Control (3 credits)

Gives over view of the quality control function within industry. May include the organization, cost and techniques of quality control. Emphasizes essentials and applications of statistics in the quality control function. Lecture 2-3 hours, Laboratory 0-2 hours, Total 3-4 hours per week.

IND 243 - Principles and Applications of Mechatronics (3 credits)***Prerequisite: Divisional Approval.***

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. Lecture 2 hours. Laboratory 2 hours. Total 4 hours per week.

Information Technology Database Processing

ITD 110 Web Page Design I (3-4 credits)

Corequisite: ITE 115, or 119 or equivalent (introduction to the Internet) or division approval.

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.

ITD 132 Structured Query Language (3-4 credits)

Prerequisite: ITE 115, or 119 or division approval

Incorporates a working introduction to commands, functions and operators used in SQL for extracting data from standard databases. Lecture 3-4 hours per week.

ITD 197 Cooperative Education (1-5 credits)

Requires curriculum advisor and co-op advisor approvals.

Supervises in on-the-job training for pay in approved business, industrial and service firms, coordinated by the college's cooperative education office. Is 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.

ITD 297 Cooperative Education in Web Design, Graphics and Database (1-5 credits)

Requires curriculum advisor and co-op advisor approvals.

Supervises in on-the-job training for pay in approved business, industrial and service firms, coordinated by the college's cooperative education office. Is 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.

Information Technology Essentials

ITE 100 - Introduction to Information Systems (3-4 credits)

Covers the fundamentals of computers and computing and topics which include impact of computers on society, ethical issues, and terminology. Provides discussion about available hardware and software as well as their application. Lecture 3-4 hours per week.

ITE 105 - Careers and Cyber Ethics (2 credits)

Career paths in Information Technology will be explored to help the student determine the appropriate degree plan. Career paths will include but not be limited to software development, computer science, database, networking, system administration and operations, end user support, web design, and management. The student will learn ethical concerns in business and information technology including the ACM Code of Ethics. Lecture 2 hours per week.

ITE 115 Introduction to Computer Applications and Concepts (3-4 credits)

Recommended prerequisite: keyboarding skills

Covers computer concepts and internet skills, and uses 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.

ITE 119 Information Literacy (3 credits)

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.

ITE 140 Spreadsheet Software (3-4 credits)

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. Lecture 3-4 hours per week.

ITE 150 Desktop Database Software (3-4 credits)

Incorporates instruction in planning, defining, and using a database; performing queries; producing reports; working with multiple files; and concepts of database programming. Includes database concepts, principles of table design and table relationships, entering data, creating and using forms, using data from different sources, filtering, creating mailing labels. Lecture 3-4 hours per week.

ITE 170 - Multimedia Software (3-4 credits)

Explores technical fundamentals of creating multimedia projects with related hardware and software. Students will learn to manage resources required for multimedia production and evaluation and techniques for selection of graphics and multimedia software. Lecture 3-4 hours per week.

ITE 182 User Support/Help Desk Principles (3-4 credits)

Introduces a variety of tools and techniques that are used to provide user support in help desk operations. Includes help desk concepts, customer service skills, troubleshooting problems, writing for end users, help desk operations, and software, needs analysis, facilities management, and other related topics related to end user support. Lecture 3-4 hours per week.

ITE 195 Topics in (discipline) (1-5 credits)

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.

ITE 270 - Advanced Multimedia Development (3 credits)

Refines multimedia skills, focusing on project development using digital media; video clips, still images, and audio (sounds, music, and narration). Prerequisite: ITE 170. Lecture 3 hours per week.

Information Technology Networking

ITN 106 Microcomputer Operating Systems (3-4 credits)

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. Lecture 3-4 hours per week.

ITN 107 Personal Computer Hardware and Troubleshooting (3-4 credits)

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. Lecture 3-4 hours per week.

ITN 113 Active Directory (Windows Server 2008) (3-4 credits)

Emphasizes instruction in installation, configuration, and administration, monitoring, and troubleshooting of Active Directory (Specify Version) components, DNS, Group Policy objects, RIS, and security. Lecture 3-4 hours per week.

ITN 154 Network Fundamentals, Router Basics, and Configuration (ICND1) - CISCO I (3-4 credits)

Provides instruction in the fundamentals of networking environments, the basics of router operations, and basic router configuration. Lecture 2-3 hours. Laboratory 2 hours. Total 4-5 hours per week.

ITN 155 Switching, Wireless, and WAN Technologies (ICND2) - CISCO II (3-4 credits)

Prerequisite: ITN 154

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. Lecture 2-3 hours. Laboratory 2 hours. Total 4-5 hours per week.

ITN 156 Basic Switching and Routing - CISCO III (3-4 credits)**Prerequisite:** ITN 155

Centers instruction in LAN segmentation using bridges, routers, and switches. Includes fast Ethernet, access lists, routing protocols, spanning tree protocol, virtual LANS and network management. Lecture 3-4 hours per week.

ITN 157 WAN Technologies - CISCO IV (3-4 credits)**Prerequisite:** ITN 156

Concentrates on an introduction to Wide Area Networking (WANs). Includes WAN design, LAMP, Frame Relay, ISDN, HDLC, and PPP. Lecture 3-4 hours per week. 3-4 credits

ITN 197 Cooperative Education in Networking (1-5 credits)

Supervises in on-the-job training for pay in approved business, industrial and service firms, coordinated by the college's cooperative education office. Is 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. 1-5 credits.

ITN 260 - Network Security Basics (3-4 credits)

Provides instruction in the basics of network security in depth. Includes security objectives, security architecture, security models and security layers; risk management, network security policy, and security training. Includes the five security keys, confidentiality integrity, availability, accountability and auditability. Lecture 3-4 hours per week.

ITN 261 - Network Attacks, Computer Crime and Hacking (3-4 credits)

Encompasses in-depth exploration of various methods for attacking and defending a network. Explores network security concepts from the viewpoint hackers and their attack methodologies. Includes topics about hackers, attacks, Intrusion Detection Systems (IDS) malicious code, computer crime and industrial espionage. Lecture 3-4 hours per week.

ITN 262 - Network Communication, Security and Authentication (3-4 credits)

Covers an in-depth exploration of various communication protocols with a concentration on TCP/IP. Explores communication protocols from the point of view of the hacker in order to highlight protocol weaknesses. Includes Internet architecture, routing, addressing, topology, fragmentation and protocol analysis, and the use of various utilities to explore TCP/IP. Lecture 3-4 hours per week.

ITN 266 - Network Security Layers (3-4 credits)

Provides an in-depth exploration of various security layers needed to protect the network. Explores Network Security from the viewpoint of the environment in which the network operates and the necessity to secure that environment to lower the security risk to the network. Includes physical security, personnel security, operating system security, software security and database security. Lecture 3-4 hours per week.

ITN 297 Cooperative Education in Networking (1-5 credits)**Requires curriculum advisor and co-op advisor approvals.**

Supervises in on-the-job training for pay in approved business, industrial and service firms, coordinated by the college's cooperative education office. Is 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. 1-5 credits.

Information Technology Programming

ITP 100 Software Design (3-4 credits)**Corequisite:** ITE 115, or 119 and MTH 132 or division approval

Introduces principles and practices of software development. Includes instruction in critical thinking, problem solving skills, and essential programming logic in structured and object-oriented design using contemporary tools. Lecture 3-4 hours per week.

ITP 120 Java Programming I (3-4 credits)**Prerequisite:** ITP 100 or division approval

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. Lecture 3-4 hours per week.

ITP 140 Client Side Scripting (3-4 credits)

Provides instruction in fundamentals of Internet application design, development, and deployment using client side scripting language(s). Lecture 3-4 hours per week.

ITP 197 Cooperative Education in Programming (1-5 credits)**Requires curriculum advisor and co-op advisor approvals.**

Supervises in on-the-job training for pay in approved business, industrial and service firms, coordinated by the college's cooperative education office. Is 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.

ITP 240 Server Side Programming (3-4 credits)

Centers around instruction in fundamentals of Internet application design, development, and deployment. Includes implementation of server component models, security, and database connectivity using server-side programming. Lecture 3-4 hours per week.

ITP 251 Systems Analysis and Design (3-4 credits)

Focuses on application of information technologies (IT) to system life cycle methodology, systems analysis, systems design, and system implementation practices. Covers methodologies related to identification of information requirements, feasibility in the areas of economic, technical and social requirements, and related issues are included in course content. Software applications may be used to enhance student skills. Lecture 3-4 hours per week.

ITP 258 Systems Development Project (3-4 credits)

Provides instruction in application of life cycle system development methodologies using a case study which incorporates feasibility study system analysis, system design, program specification, and implementation planning. Course project assignment(s) will have students perform as members of system development teams. Lecture 3-4 hours per week.

ITP 297 Cooperative Education in Programming (1-5 credits)**Requires curriculum advisor and co-op advisor approvals.**

Supervises in on-the-job training for pay in approved business, industrial and service firms, coordinated by the college's cooperative education office. Is 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.

Interpreter Education

INT 130 Interpreting: An Introduction to the Profession (3 credits)

Introduces basic principles and practices of interpreting, focusing on the history of the profession, logistics of interpreting situations, regulatory and legislative issues, resources, and the Code of Ethics. Describes the state quality assurance screening and national certification exam systems, including test procedures. Lecture 3 hours per week.

Instrumentation

INS 110 - Principles of Instrumentation (3 credits)

Introduces various types of instruments and gauges used in the manufacturing processes. Examines basic principles of pneumatic, hydraulic, electronic and mechanically operated devices. Requires a report as an out-of-class activity. Lecture 2 hours. Laboratory 2 hours.

INS 232 - System Troubleshooting (2-3 credits)

Presents system troubleshooting theory and real troubleshooting applications. Uses a hands-on approach to provide troubleshooting experience in multiple areas such as programmable logic controllers (PLC), control automation systems and process control systems. Lecture 2-3 hours. Laboratory 3 hours.

Legal Administration

LGL 110 Introduction to Law and the Legal Assistant (3 credits)

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. Lecture 3 hours per week.

LGL 127 Legal Research and Writing (3 credits)

Prerequisite: ENG 111 or division approval

Provides a basic understanding of legal research and the proper preparation of legal documents, including brief writing. Lecture 3 hours per week.

LGL 215 Torts (3 credits)

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.

Machine Technology

MAC 111 Machine Trade Theory and Computation I (3 credits)

Covers shop theory and mathematics dealing with fractional and precision measuring tools. Includes layout, bandsaws, drill presses, the twist drill, thread cutting, taper turning, vertical and horizontal milling machines, lathe tool bit geometry, and engine lathe operations. Lecture 3 hours per week.

MAC 116 Machinist Handbook (2 credits)

Uses the machinist handbook as a ready reference book of tabular data, formulas, designs and processes relating to machine technology. Lecture 2 hours per week.

MAC 121 - 122 Numerical Control I - II (2-3 credits/2-3 credits)

Focuses on numerical control techniques in metal forming and machine processes. Includes theory and practice in lathe and milling machine computer numerical control program writing, setup and operation. Lecture 1-2 hours, Laboratory 2-3 hours, Total 3-5 hours per week.

MAC 123 Numerical Control III (2-3 credits)

Prerequisite: MAC 121, 122

Focuses on numerical control techniques in metal forming and machine processes. Includes theory and practice in lathe and milling machine computer numerical control program writing, setup and operation. Lecture 1-2 hours, Laboratory 2-3 hours, Total 3-5 hours per week.

MAC 127 Advanced CNC Programming (3 credits)

Prerequisite: MAC 123

Provides in-depth study of programming computerized numerical control machines. Lecture 3 hours per week.

MAC 131 - 132 Machine Lab I - II (2 credits/2 credits)

Teaches fundamental machine shop operations, bench work, layout, measuring tools, and safety. Lecture 1 hour, Laboratory 3 hours, Total 4 hours per week.

MAC 146 Metals/Heat Treatment (2 credits)

Provides approach to metals and their structure. Gives working knowledge of methods of treating ferrous and non-ferrous metals. Lecture 1 hour, Laboratory 3 hours, Total 4 hours per week.

MAC 150 Introduction to Computer Aided Manufacturing (3 credits)

Introduces computer aided manufacturing (CAM) with emphasis on programming of numerical control machinery. Teaches Program writing procedures using proper language and logic and a CAM programming system to produce numerical control code for machines. Teaches basic computer usage and code-to-machine transfer. Lecture 2 hours per week. Laboratory 2 hours per week. Total 4 hours per week.

MAC 151 Machine Tool Maintenance (2 credits)

Introduces tool design from a maintenance and repair standpoint. Emphasizes proper care, repair, and preventative maintenance of machine tools. Lecture 1 hour. Laboratory 3 hours. Total 4 hours per week.

MAC 161 Machine Shop Practices I (3 credits)

Introduces safety procedures, bench work, hand tools, precision measuring instruments, drill presses, cut-off saws, engine lathes, manual surface grinders, and milling machines. Part I of II. Lecture 2 hours. Laboratory 2-3 hours. Total 4-5 hours per week.

MAC 162 - Machine Shop Practices II (3 credits)

Introduces safety procedures, bench work, hand tools, precision measuring instruments, drill presses, cut-off saws, engine lathes, manual surface grinders, and milling machines. Part II of II. Lecture 2 hours. Laboratory 2-3 hours. Total 4-5 hours per week.

MAC 163 Machine Shop Practices III (3 credits)

Offers practice in the operation of the drill press, engine lathe, vertical milling machine, horizontal milling machine, and the surface grinder. Introduces practical heat treatment of directly hardenable steels commonly used in machine shops. Part I of II. Lecture 2 hours. Laboratory 3 hours. Total 5 hours per week.

MAC 164 - Machine Shop Practices IV (3 credits)

Offers practice in the operation of the drill press, engine lathe, vertical milling machine, horizontal milling machine, and the surface grinder. Introduces practical heat treatment of directly hardenable steels commonly used in machine shops. Part II of II. Lecture 2 hours. Laboratory 3 hours. Total 5 hours per week.

MAC 206 Production Machining Techniques (6 credits)

Offers practice in advanced machine shop. Emphasizes mass production techniques and interchangeable parts manufacture. Covers setup and operation of tooling and fixtures to manufacture workpieces to specified tolerances. Lecture 4 hours. Laboratory 6 hours. Total 10 hours per week.

MAC 209 Standards, Measurements and Calculations (2-3 credits)

Presents typical mathematical and mechanical problems requiring the use of reference standards such as the Machinery's Handbook for solution. Presents use of the Coordinate Measuring Machine for solution. Lecture 2-3 hours per week.

MAC 241 - 242 Advanced Machinery Procedures I - II (3 credits)

Prerequisite: MAC 106, 107

Focuses on machining principles and calculations necessary for the precision required by the machinist. Emphasizes advanced lathe and mill work with concentration on fits, finishes, inspections and quality control. CNC Programming and operation, included conversational programming, may be emphasized. Teaches design and construction of specific projects to determine the student's operational knowledge of all equipment. Lecture 2 hours, Laboratory 3 hours, Total 5 hours per week.

MAC 250 Advanced Computer Aided Manufacturing (2-3 credits)

Prerequisite: MAC 121, 122, 150

Focuses on advanced computer aided manufacturing with emphasis on CAD-CAM interfacing, advanced 3-D, and advanced turning. Introduces quality control inspection using coordinate measuring systems, statistical process controls and digitizers. Teaches basic and advanced fabrication programming and flexible manufacturing systems.

MAC 295 Supervised Study (Computer Numerical Control Machining) (4 credits)

Introduction to the programming, set-up, and operation of various computer numerical control machines.

MAC 297 Co-op (2-5 credits)

Requires curriculum advisor and co-op advisor approvals.

Cooperative education as a machinist. Designed to provide practical work experience for the machinist student. Minimum on-the-job training is 10 hours per week.

MAC 299 Supervised Study (Advanced Computer Numerical Control Machining) (4 credits)

Prerequisite: MAC 127

Advanced course in programming, setup, and operation of various computer numerical control machines.

Marketing

MKT 100 Principles of Marketing (3 credits)

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.

MKT 216 - Retail Organization and Management (3 credits)

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.

Mathematics (Developmental)

MTT 1 Developmental Mathematics (Technology-Based) I (1 credit)

Prerequisite: Placement scores requiring the student to complete one developmental math unit.

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.

MTT 2 Developmental Mathematics (Technology-Based) II (2 credits)

Prerequisite: Placement scores requiring the student to complete two developmental math units.

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 any combination of two developmental math units prescribed by the student's placement test results. Credits not applicable toward graduation.

MTT 3 Developmental Mathematics (Technology-Based) III (3 credits)

Prerequisite: Placement scores requiring the student to complete three developmental math units.

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 any combination of three developmental math units prescribed by the student's placement test results. Credits not applicable toward graduation.

MTT 4 Developmental Mathematics (Technology-Based) IV (4 credits)

Prerequisite: Placement scores requiring the student to complete three developmental math units.

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 any combination of three developmental math units prescribed by the student's placement test results. Credits not applicable toward graduation.

Math Essentials

MTE 1 Operations with Positive Fractions (1 credit)

Prerequisite: Qualifying placement score

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.

MTE 2 Operations with Positive Decimals and Percents (1 credit)

Prerequisite: MTE 1 or qualifying placement score

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 credit)

Prerequisite: MTE 2 or qualifying placement score

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.

MTE 4 First Degree Equations and Inequalities in One Variable (1 credit)

Prerequisite(s): MTE 3 or qualifying placement score.

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.

MTE 5 Linear Equations, Inequalities and Systems of Linear Equations in Two Variables (1 credit)

Prerequisite(s): MTE 4 or qualifying placement score.

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 hour per week.

MTE 6 Exponents, Factoring and Polynomial Equations (1 credit)

Prerequisite(s): MTE 5 or qualifying placement score.

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.

MTE 7 Rational Expressions and Equations (1 credit)

Prerequisite(s): MTE 6 or qualifying placement score.

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.

MTE 8 Rational Exponents and Radicals (1 credit)

Prerequisite(s): MTE 7 or qualifying placement score.

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.

MTE 9 Functions, Quadratic Equations and Parabolas (1 credit)

Prerequisite(s): MTE 8 or qualifying placement score.

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.

Mathematics

MTH 95 Topics In (1-5 credits)

Provides an opportunity to explore topical areas of interest to or needed by students. May be repeated for credit. Variable hours.

MTH 111 - Basic Technical Mathematics (3 credits)

Prerequisites: MTE 1-3 OR **Corequisite:** MCR 1.

Provides a foundation in mathematics with emphasis in arithmetic, unit conversion, basic algebra, geometry and trigonometry. This course is intended for CTE programs.

Lecture 3 hours. Total 3 hours per week.

MTH 132 - Business Mathematics (3 credits)

Prerequisite(s): Competency in MTE 1-3 or as demonstrated through placement or unit completion or equivalent OR **Corequisite:** MCR 8

Provides instruction, review, and drill in percentage, cash and trade discounts, mark-up, payroll, sales, property and other taxes, simple and compound interest, bank discounts, loans, investments, and annuities.

This course is intended for occupational/technical programs.

Lecture 3 hours. Total 3 hours per week.

MTH 154 - Quantitative Reasoning (3 credits)

Prerequisite(s): Competency in MTE 1-5 as demonstrated through placement or unit completion or equivalent OR **Corequisite:** MCR 4

Presents topics in proportional reasoning, modeling, financial literacy and validity studies (logic and set theory). Focuses on the process of taking a real-world situation, identifying the mathematical foundation needed to address the problem, solving the problem and applying what is learned to the original situation. Lecture 3 hours. Total 3 hours per week.

MTH 155 - Statistical Reasoning (3 credits)

Prerequisite: Competency in MTE 1-5 as demonstrated through placement or unit completion or equivalent OR **Co-requisite:** MCR 5

Presents elementary statistical methods and concepts including visual data presentation, descriptive statistics, probability, estimation, hypothesis testing, correlation and linear regression. Emphasis is placed on the development of statistical thinking, simulation, and the use of statistical software. Lecture 3 hours, Total 3 hours per week.

MTH 161 - PreCalculus I (3 credits)

Prerequisite(s): Competency in MTE 1-9 as demonstrated through placement or unit completion or equivalent OR **Corequisite:** MCR 6

Presents topics in power, polynomial, rational, exponential, and logarithmic functions, and systems of equations and inequalities. Credit will not be awarded for both MTH 161: Precalculus I and MTH 167:

Precalculus with Trigonometry or equivalent. Lecture 3 hours. Total 3 hours per week.

MTH 162 - PreCalculus II (3 credits)

Prerequisite(s): Placement or completion of MTH 161: Precalculus I or equivalent with a grade of C or better

Presents trigonometry, trigonometric applications including Law of Sines and Cosines and an introduction to conics. Credit will not be awarded for both MTH 162: Precalculus II and MTH 167: Precalculus with

Trigonometry or equivalent. Lecture 3 hours. Total 3 hours per week.

MTH 245 - Statistics I (3 credits)

Prerequisite: Completion of MTH 154 or MTH 161 or equivalent with a grade of C or better.

Presents an overview of statistics, including descriptive statistics, elementary probability, probability distributions, estimation, hypothesis testing, correlation, and linear regression. Credit will not be awarded for both MTH 155: Statistical Reasoning and MTH 245: Statistics I or equivalent. Lecture 3 hours. Total 3 hours per week.

MTH 246 - Statistics II

Prerequisite: Completion of MTH 245: Statistics I or equivalent with a grade of C or better.

Lecture 3 hours. Total 3 hours per week.

MTH 263 - Calculus I (4 credits)

Prerequisite: Completion of MTH 167 or MTH 161/162 or equivalent with a grade of C or better.

Presents concepts of limits, derivatives, differentiation of various types of functions and use of differentiation rules, application of differentiation, antiderivatives, integrals and applications of integration. Lecture 4 hours. Total 4 hours per week.

MTH 264 - Calculus II (4 credits)

Prerequisite: Completion of MTH 263 or equivalent with a grade of C or better.

Continues the study of 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. Features instruction for mathematical, physical and engineering science programs. Lecture 4 hours. Total 4 hours per week.

MTH 265 - Calculus III (4 credits)

Prerequisite: Completion of MTH 264: Calculus II or equivalent with a grade of C or better.

Focuses on extending the concepts of function, limit, continuity, derivative, integral and vector from the plane to the three dimensional space. Covers topics including vector functions, multivariate functions, partial derivatives, multiple integrals and an introduction to vector calculus. Features instruction for mathematical, physical and engineering science programs. Lecture 4 hours. Total 4 hours per week.

MTH 266 - Linear Algebra (3 credits)

Prerequisite: Completion of MTH 263 or equivalent with a grade of B or better or MTH 264 or equivalent with a grade of C or better.

Covers matrices, vector spaces, determinants, solutions of systems of linear equations, basis and dimension, eigenvalues, and eigenvectors. Features instruction for mathematical, physical and engineering science programs. Lecture 3 hours. Total 3 hours per week.

MTH 261 - Applied Calculus I (3 credits)

Prerequisite: Completion of MTH 161 or equivalent with a grade of C or better.

Introduces limits, continuity, differentiation and integration of algebraic, exponential and logarithmic functions, and techniques of integration with an emphasis on applications in business, social sciences and life sciences. Lecture 3 hours. Total 3 hours per week.

MTH 262 - Applied Calculus II (3 credits)

Prerequisite: Completion of MTH 261 or equivalent with a grade of C or better.

Covers techniques of integration, an introduction to differential equations and multivariable calculus, with an emphasis throughout on applications in business, social sciences and life sciences. Lecture 3 hours. Total 3 hours per week.

MTH 267 - Differential Equations (3 credits)

Prerequisite: Completion of MTH 264 or equivalent with a grade of C or better.

Introduces ordinary differential equations. Includes first order differential equations, second and higher order ordinary differential equations with applications and numerical methods. Lecture 3 hours. Total 3 hours per week.

Mathematics Co-Requisite

MCR 1 - Learning Support for Basic Technical Mathematics (1-2 Credits)

Prerequisites: Completion of any one of the MTE units 1-3.
Corequisite: MTH 111.

Provides mathematical instruction for students who require minimum preparation for college-level but still need further preparation to succeed. Students in this course will be co-enrolled in college-level Basic Technical Mathematics. Credits not applicable toward graduation and do not replace MTE courses waived. Successful completion of Basic Technical Mathematics results in the prerequisite MTE modules being satisfied. Lecture 1-2 hours. Total 1-2 hours per week.

MCR 4 - Learning Support for Quantitative Reasoning (1-2 credits)

Prerequisite(s): Completion of any three of the MTE modules 1-5 and **Corequisite:** MTH 154: Quantitative Reasoning.

Provides instruction for students who require minimum preparation for college-level Quantitative Reasoning. Students in this course will be co-enrolled in MTH 154. Credits are not applicable toward graduation and do not replace MTE courses waived. Successful completion of Quantitative Reasoning results in the prerequisite MTE modules being satisfied. Lecture 1-2 hours. Total 1-2 hours per week.

MCR 5 - Learning Support for Statistical Reasoning (1-2 credits)

Prerequisites: Completion of any three of the MTE modules 1-5 and **Corequisite:** MTH 155: Statistical Reasoning.

Provides instruction for students who require minimum preparation for college-level Statistical Reasoning. Students in this course will be co-enrolled in MTH 155. Credits not applicable toward graduation and do not replace MTE courses waived. Successful completion of Statistical Reasoning results in the prerequisite MTE modules being satisfied. Lecture 1-2 hours. Total 1-2 hours per week.

MCR 6 - Learning Support for PreCalculus I (1-2 credits)

Prerequisite(s): Completion of any seven of the MTE modules 1-9 and **Corequisite:** MTH 161: Precalculus I.

Provides instruction for students who require minimum preparation for college-level Precalculus. Students in this course will be co-enrolled in MTH 161. Credits not applicable toward graduation and do not replace MTE courses waived. Successful completion of Precalculus I results in the prerequisite MTE modules being satisfied. Lecture 1-2 hours. Total 1-2 hours per week.

MCR 8 - Learning Support for Business Mathematics (1-2 credits)

Prerequisites: Completion of any one of the MTE units 1-3.
Corequisite: MTH 132.

Provides mathematical instruction for students who require minimum preparation for college-level but still need further preparation to succeed. Students in this course will be co-enrolled in college-level Business Mathematics. Credits not applicable toward graduation and do not replace MTE courses waived. Successful completion of Business Mathematics results in the prerequisite MTE modules being satisfied. Lecture 1-2 hours. Total 1-2 hours per week.

Mechanical Engineering Technology

MEC 101 - 102 Introduction to Engineering Technology I - II (2 credits)

Introduces engineering technology. Provides historical background. Covers such topics as professional ethics; problem solving techniques involving forces, structures, materials, fluids, energy, and electricity and U.S. customary and S.I. units, and unit conversions. Lecture 2 hours per week.

MEC 112 Processes of Industry (3 credits)

Analyzes the processes of manufacturing products from materials for industry/engineering. Includes machining, casting, forming, molding, hot/cold working, chipless machining, and welding. Addresses quality assurance and inspection procedures. Lecture 3 hours per week.

MEC 126 Computer Programming for Technologist (2-3 credits)

Introduces computer software programming. Covers programming for the microcomputer using high level languages such as BASIC, FORTRAN, C, PASCAL. Teaches computer solutions of mathematical problems in applications such as circuit analysis and static equilibrium. Lecture 1-2 hours, Laboratory 0-2 hours, Total 2-4 hours per week.

MEC 140 Introduction to Mechatronics (3 credits)

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.

MEC 161 Basic Fluid Mechanics-Hydraulics/Pneumatics (3-4 credits)

Introduces theory, operation and maintenance of hydraulic/pneumatics devices and systems. Emphasizes the properties of fluids, fluid flow, fluid statics, and the application of Bernoulli's equation. Lecture 2-3 hours, Laboratory 2-3 hours, Total 4-6 hours per week.

MEC 205 Piping and Auxiliary Systems (3 credits)

Studies threaded pipe, welded pipe, isometric pipe sketching and layout, gaskets, packing, industrial hoses and tubing, basic steam system operations, automatic and manual valves, and positive displacement pumps. Lecture 2 hours. Laboratory 2 hours. Total 4 hours per week.

Medical Assisting

MDA 100 Introduction to Medical Assisting (1-2 credits)

Introduces the student to the medical practice environment. Stresses the responsibilities of the humanistic approach in the rendering of health care. Lecture 1-2 hours per week.

MDA 101 Medical Assistant Science I (4-5 credits)

Provides an in-depth study of medical terminology, anatomy and physiology, and pathology for the medical assistant. Focuses on clinical application and decision-making in the health environment. Lecture 4-5 hours. Laboratory 2 hours. Total 6-7 hours per week.

MDA 102 Medical Assistant Science II (2 credits)

Prepares students to perform patient care procedures including but not limited to respiratory care procedures, basic nursing arts, equipment maintenance, and patient teaching. Lecture 1 hours. Laboratory 3 hours. Total 4 hours per week.

MDA 104 Medical Assistant Science IV (3 credits)

Prepares students to perform diagnostic tests and assist with physical examinations including ECG administration, basic pulmonary function, testing, catheterization and assisting with minor surgery including sterilization. Lecture 2 hours. Laboratory 3 hours. Total 5 hours per week.

MDA 107 Pharmacology for Medical Assistants (2 credits)

Focuses on the administration of medications by the Medical Assistant. Introduces general principles of drug action, pharmacology of the major drug classifications, and drug effects. Lecture 2 hours per week.

MDA 196 On-Site Training (1-5 credits)

Specializes in career orientation and training program without pay in selected businesses and industry, supervised and coordinated by the college. Credit/work ratio not to exceed 1:5 hours. May be repeated for credit. Variable hours.

MDA 203 Medical Office Procedures (3 credits)

Instructs the student in the practice of the management of medical offices in areas such as receptionist duties, telephone techniques, appointment scheduling, verbal and written communications, medical and non-medical record management. Explains library and editorial duties, inventory, care of equipment and supplies, security, office maintenance, management responsibilities, placement, and professional ethics and professionalism. Lecture 2 hours. Laboratory 3 hours. Total 5 hours per week.

MDA 209 Medical Office Insurance (2 credits)

Focuses on various medical insurance policies with in-depth study of health insurance and managed care including capitation versus fee for service in the HMO area. Discusses managed care companies in this area and their requirements. Lecture 1 hour. Laboratory 3 hours. Total 4 hours per week.

Music

MUS 121 Music Appreciation I (3 credits)

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.

MUS 122 Music Appreciation II (3 credits)

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 II of II. Lecture 3 hours per week.

MUS 131 Class Voice I (2 credits)

Introduces the many aspects of singing from the physical act through the aesthetic experience. The course is designed for the beginning singer who desires vocal improvement, and for the voice major as an addition to and extension of skills and knowledge necessary for artistic development. Introduces appropriate repertoire. Part I of II. Lecture 1 hour. Laboratory 2 hours. Total 3 hours per week.

MUS 132 Class Voice II (2 credits)

Introduces the many aspects of singing from the physical act through the aesthetic experience. The course is designed for the beginning singer who desires vocal improvement, and for the voice major as an addition to and extension of skills and knowledge necessary for artistic development. Introduces appropriate repertoire. Part II of II. Lecture 1 hour. Laboratory 2 hours. Total 3 hours per week.

MUS 141 Class Piano I (2 credits)

Offers the beginning piano student activities in learning musical notation, in accomplishing sight reading skills, and in mastering techniques of keyboard playing. Presents appropriate literature. Open to all students and may be used to fulfill applied minor instrument requirement for music major. Part I of II. Lecture 1 hour, laboratory 2 hours, total 3 hours per week.

MUS 150 Old Time String Band (3 credits)

Introduces the student to the history and performance of traditional old time string band music of the central Appalachian region with topics on musicians, instrumentation, regional influences, and tunes. Lecture 2 hours, Laboratory 2 hours per week.

MUS 163 Guitar Theory and Practice I (3 credits)

Studies the fundamentals of sound production, music theory, and harmony as they apply to guitar. Builds proficiency in both the techniques of playing the guitar and in the application of music fundamentals to these techniques. Presents different types of guitars and related instruments. Emphasizes music as entertainment and as a communication skill. Part I of II. Lecture 2 hours. Laboratory 3 hours. Total 5 hours per week.

MUS 164 Guitar Theory and Practice II (3 credits)

Studies the fundamentals of sound production, music theory, and harmony as they apply to guitar. Builds proficiency in both the techniques of playing the guitar and in the application of music fundamentals to these techniques. Presents different types of guitars and related instruments. Emphasizes music as entertainment and as a communication skill. Part II of II. Lecture 2 hours. Laboratory 3 hours. Total 5 hours per week.

MUS 231 Advanced Class Voice I (2 credits)

Continues MUS 131-132. Continues the expansion of appropriate vocal repertoire. Part I of II. Lecture 1 hour. Laboratory 2 hours. Total 3 hours per week.

MUS 232 Advanced Class Voice II (2 credits)

Continues MUS 131-132. Continues the expansion of appropriate vocal repertoire. Part II of II. Lecture 1 hour. Laboratory 2 hours. Total 3 hours per week.

MUS 295 Topics In (1-5 credits)

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. 1-5 credits.

Natural Science

NAS 131 Astronomy I (4 credits)

Studies the major and minor bodies of the solar system, stars and nebulae of the milky way, and extragalactic objects. Examines life and death of stars, origin of the universe, history of astronomy, and instruments and techniques of observation. Part I of II. Lecture 3 hours per week. Recitation and laboratory 3 hours per week. Total 6 hours per week.

NAS 132 Astronomy II (4 credits)

Studies the major and minor bodies of the solar system, stars and nebulae of the milky way, and extragalactic objects. Examines life and death of stars, origin of the universe, history of astronomy, and instruments and techniques of observation. Part II of II. Lecture 3 hours per week. Recitation and laboratory 3 hours per week. Total 6 hours per week.

Nursing

NSG 100 Introduction to Nursing Concepts (4 credits)

Prerequisites: *Acceptance to the Nursing Program, BIO 141, ENG 111, ITE 119, PSY 230, SDV 101*

Introduces concepts of nursing practice and conceptual learning. Focuses on basic nursing concepts with an emphasis on safe nursing practice and the development of the nursing process. Provides supervised learning experiences in college nursing laboratories, clinical/community settings, and/or simulated environments. Lecture 3 hours. Laboratory 3 hours. Total 6 hours per week.

NSG 106 Competencies for Nursing Practice (2 credits)

Prerequisites: *Acceptance to the Nursing Program, BIO 141, ENG 111, ITE 119, MTE 1 -5, PSY 230, SDV 101*

Focuses on the application of concepts through clinical skill development. Emphasizes the use of clinical judgment in skill acquisition. Includes principles of safety, evidence-based practice, informatics and math computational skills. Prepares students to demonstrate competency in specific skills and drug dosage calculation including the integration of skills in the care of clients in simulated settings. Provides supervised learning experiences in college nursing laboratories, clinical/community settings, and/or simulated environments. Lecture 0-1 hour. Laboratory 3-6 hours. Total 4-6 hours per week.

NSG 115 Healthcare Concepts for Transition (4-5 credits)

Prerequisite(s): *BIO 141, BIO 142, ENG 111, PSY 230, SDV 101, Acceptance to the Transition Program; Co-requisites: NSG 200, BIO 150*

Focuses on role transition from Licensed Practical Nurse to Registered professional nurse. Incorporates concepts of nursing practice and conceptual learning to promote health and wellness across the lifespan. Uses the nursing process to explore care delivery for selected diverse populations with common and predictable illness. Emphasizes the use of clinical judgement in skill acquisition. Lecture 3 hours. Laboratory 3-6 hours. Total 6-9 hours per week.

NSG 130 - Professional Nursing Concepts (1 credit)

Prerequisite(s): *Acceptance to the Nursing Program, BIO 141, ENG 111, ITE 119, PSY 230, SDV 101*

Introduces the role of the professional nurse and fundamental concepts in professional development. Focuses on professional identity, legal/ethical issues and contemporary trends in professional nursing. Lecture 1 hour. Total 1 hour per week.

NSG 152 Health Care Participant (3 credits)

Prerequisite(s): *BIO 142, NSG 100, NSG 106, NSG 130, NSG 200, Corequisite(s): BIO 150 or BIO 205*

Focuses on the health and wellness of diverse individuals, families, and the community throughout the lifespan. Covers concepts that focus on client attributes and preferences regarding healthcare. Emphasizes population-focused care. Provides supervised learning experiences in college nursing laboratories, clinical/community settings, and/or cooperating agencies, and/or simulated environments. Lecture 2 hours. Laboratory 3 hours. Total 5 hours per week.

NSG 170 - Health/Illness Concepts (6 credits)

Prerequisite(s): *BIO 142, NSG 100, NSG 106, NSG 130, NSG 200, Corequisite(s): BIO 150 or BIO 205*

Focuses on the nursing care of individuals and/or families throughout the lifespan with an emphasis on health and illness concepts. Includes concepts of nursing care for the antepartum client and clients with common and predictable illnesses. Provides supervised learning experiences in college nursing laboratories, clinical/community settings, and/or simulated environments. Lecture 4 hours, Laboratory 6 hours. Total 10 hours per week.

NSG 200 - Health Promotion and Assessment (3 credits)

Prerequisite(s): *Acceptance to Nursing Program, BIO 141, ENG 111, ITE 119, PSY 230, SDV 101*

Introduces assessment and health promotion for the individual and family. Includes assessment of infants, children, adults, geriatric clients and pregnant females. Emphasizes health history and the acquisition of physical assessment skills with underlying concepts of development, communication, and health promotion. Prepares students to demonstrate competency in the assessment of clients across the lifespan. Provides supervised learning experiences in college nursing laboratories, clinical/community settings, and/or simulated environments. Lecture 2 hours. Laboratory 3 hours. Total 5 hours per week.

NSG 210 - Health Care Concepts I (5 credits)

Prerequisite(s): *BIO 150, NSG 152, NSG 170*

Focuses on care of clients across the lifespan in multiple settings including concepts related to physiological health alterations and reproduction. Emphasizes the nursing process in the development of clinical judgment for clients with multiple needs. Provides supervised learning experiences in college nursing laboratories, clinical/community settings, and/or simulated environments. Part I of II. Lecture 3 hours, Laboratory 6 hours. Total 9 hours per week.

NSG 211 - Health Care Concepts II (5 credits)

Prerequisite(s): *BIO 150, NSG 152, NSG 170*

Focuses on care of clients across the lifespan in multiple settings including concepts related to psychological and physiological health alterations. Emphasizes the nursing process in the development of clinical judgment for clients with multiple needs. Provides supervised learning experiences in college nursing laboratories, clinical/community settings, and/or simulated environments. Part II of II. Lecture 3 hours. Laboratory 6 hours. Total 9 hours per week.

NSG 230 - Advanced Professional Nursing Concepts (2 credits)

Prerequisite(s): *NSG 210, NSG 211*

Develops the role of the professional nurse in the healthcare environment in preparation for practice as a registered nurse. Introduces leadership and management concepts and focuses on the integration of professional behaviors in a variety of healthcare settings. Lecture 2 hours. Total 2 hours per week.

NSG 252 - Complex Health Care Concepts (4 credits)

Prerequisite(s): *NSG 210, NSG 211*

Focuses on nursing care of diverse individuals and families integrating complex health concepts. Emphasizes clinical judgment, patient-centered care and collaboration. Lecture 4 hours. Total 4 hours per week.

NSG 270 - Nursing Capstone (4 credits)

Prerequisite(s): *NSG 210, NSG 211*

Provides students with the opportunity to comprehensively apply and integrate learned concepts from previous nursing courses into a capstone experience. Emphasizes the mastery of patient-centered care, safety, nursing judgment, professional behaviors, informatics, quality improvement, and collaboration in the achievement of optimal outcomes of care. Provides supervised learning experiences in faculty and/or preceptor-guided college nursing laboratories, clinical/community settings, and/or simulated environments. Laboratory 12 hours. Total 12 hours per week.

NUR 109 Nursing Principles and Concepts II (5-6 credits)

Prerequisite(s): *NUR 105, NUR 108, BIO 141*

Focuses on nursing care of individuals and/or families experiencing alterations in health. Includes math computational skills, basic computer instruction related to the delivery of nursing care; immunological, gastrointestinal, musculoskeletal, oncological and diabetic disorders and pre/post-operative care in adult and pediatric clients. Provides supervised learning experiences in college nursing laboratories and/or cooperating agencies. Lecture 1-5 hours. Laboratory 2-15 hours. Total 7-16 hours per week.

NUR 114 Geriatric Nursing (3-4 credits)

Prerequisite(s): *Acceptance to the Nursing Program, MTH 126, ITE 115 or ITE 119, ENG 111, SDV*

Presents theoretical and clinical nursing aspects of the aging population. Includes the aging process, psychological aspects, common age-related disorders, pharmacologic aspects, care facilities, and relationships between elders and caregivers. Lecture 1-4 hours. Laboratory 1-9 hours. Total 3-13 hours per week.

NUR 115 LPN Transition (2-7 credits)

Prerequisite(s): *Acceptance to the LPN to RN program, BIO 141, BIO 142, MTH 126, ITE 115 or ITE 119, ENG 111, SDV*

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.

NUR 136 Principles of Pharmacology I (1-2 credits)

Prerequisites: acceptance to the Nursing Program, MTH 126, ITE 115 or ITE 119, ENG 111, SDV

Focuses on principles of medication administration which include dosage calculations, major drug classifications, drug legislation, legal aspects of medication administration, drug action on specific body systems, and basic computer applications. Lecture 1-2 hours per week.

NUR 137 Principles of Pharmacology II (1-2 credits)

Prerequisites: Acceptance to the Nursing Program, MTH 126, ITE 119 or ITE 115, ENG 111, SDV

Continues discussion on principles of medication administration which include dosage calculations, major drug classifications, drug legislation, legal aspects of medication administration, drug action on specific body systems, and basic computer applications. Lecture 1-2 hours per week.

NUR 199 - Supervised Study (1-5 credits)

Assigns problems for independent study incorporating previous instruction and supervised by the instructor. May be repeated for credit. Variable hours.

NUR 201 Psychiatric Nursing (3-4 credits)

Prerequisites: NUR 109, or NUR 115, NUR 136, NUR 137, NUR 226, BIO 142, PSY 231

Focuses on the care of individuals/families requiring clinical treatment. Uses all components of the nursing process with increasing degrees of skill. Includes math computational skills and basic computer instruction related to the delivery of nursing care, alterations in behavior, eating disorders, mood disorders, anxiety, chemical dependency and dementias. Provides supervised learning experiences in college nursing laboratories and/or cooperating agencies. Lecture 1-3 hours. Laboratory 2-9 hours. Total 5-10 hours per week.

NUR 205 Introduction to Second Level Nursing (5-6 credits)

Prerequisites: NUR 109 or NUR 115, NUR 136, NUR 137, NUR 226; BIO 142

Focuses on principles and concepts of nursing care for individuals, families, and/or groups in the community and hospital setting. Focuses on health team membership and various nursing care delivery systems. Includes math computational skills, basic computer instruction related to the delivery of nursing care; endocrine, renal, cardiovascular and immunological disorders in school and home health settings. Provides supervised learning experiences in cooperating agencies. Lecture 1-5 hours. Laboratory 2-15 hours. Total 7-16 hours per week.

NUR 208 Acute Medical-Surgical Nursing (5-6 credits)

Prerequisites: NUR 205, PSY 231

Focuses on the use of nursing process to provide care to individuals/families with acute medical or surgical problems or to prevent such problems. Includes math computational skills and basic computer instruction related to the delivery of nursing care. Provides supervised learning experiences in cooperating agencies. Lecture 1-5 hours. Laboratory 2-15 hours. Total 7-16 hours per week.

NUR 226 Health Assessment (2-3 credits)

Prerequisites: Acceptance to the Nursing Program, MTH 126, ITE 119 or ITE 115, ENG 111, SDV

Introduces the systematic approach to obtaining a health history and performing a physical assessment. Lecture 0-2 hours. Laboratory 2-9 hours. Total 3-9 hours per week.

NUR 236 Principles of Pharmacology III-IV (1-2 credits)

Prerequisites: NUR 109, NUR 136, NUR 137, NUR 226

Teaches principles of medication and administration which include dosage calculations, major drug classifications, drug legislation, legal aspects of medication administration, and drug action on specific body systems. Part I of II. Lecture 1-2 hours per week.

NUR 237 Principles of Pharmacology III-IV (1-2 credits)

Prerequisites: NUR 136, NUR 137, NUR 201, NUR 205

Teaches principles of medication and administration which include dosage calculations, major drug classifications, drug legislation, legal aspects of medication administration, and drug action on specific body systems. Part II of II. Lecture 1-2 hours per week.

NUR 245 Maternal/Newborn Nursing (3-4 credits)

Prerequisites: NUR 205, PSY 232

Develops nursing skills in caring for families in the antepartum, intrapartum, and post-partum periods. Lecture 1-3 hours. Laboratory 0-9 hours. Total 3-9 hours per week.

NUR 254 Dimensions of Professional Nursing (1-2 credits)

Prerequisites: NUR 201, NUR 205, PSY 232

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 hours per week.

Philosophy

PHI 100 Introduction to Philosophy (3 credits)

Presents an introduction to philosophical problems and perspectives with emphasis on the systematic questioning of basic assumptions about meaning, knowledge, reality, and values. Lecture 3 hours per week.

PHI 260 Studies in Eastern Thinking (3 credits)

Introduces an in-depth study of the East through a variety of approaches which include music, literature, drama and cinema. Places special emphasis on Chinese and Japanese philosophy and religion, especially Buddhism. Lecture 3 hours per week.

Physical Education and Recreation

PED 109 Yoga (1-2 credits)

Focuses on the forms of yoga training emphasizing flexibility. Lecture 0-1 hours. Laboratory 2-4 hours. Total 2-4 hours per week.

PED 117 Fitness Walking (1 credit)

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 129 Self-Defense (1-2 credits)

Examines history, techniques, and movements associated with self-defense. Introduces the skills and methods of self-defense emphasizing mental and physical discipline. Lecture 1-2 hours, Laboratory 0-2 hours, Total 1-3 hours per week.

PED 130 Motorcycle Rider Safety - Beginner (2 credits)

Studies principles and basic skills of motorcycle riding with an emphasis on safety. Includes street strategies, protective gear, selection and care/maintenance of motorcycles, and supervised classroom and riding practice. Motorcycles provided. Lecture 1 hour, Laboratory 2 hours.

PED 135 136 Bowling I - II (1-2 credits)

Teaches basic bowling skills and techniques, scoring, rules, etiquette, and terminology. Variable hours per week.

PED 137-138 Martial Arts (1-2 credits)

Emphasizes forms, styles, and techniques of body control, physical and mental disciplines, and physical fitness. Presents a brief history of development of martial arts theory and practice. Lecture 1-2 hours, Laboratory 1-2 hours, Total 1-3 hours per week.

PED 147 Hiking (1-2 credits)

Introduces physical and mental benefits of walking or hiking as a form of physical exercise. Skills developed include how to plan for a hike, what to take, and how to select a trail relative to individual abilities. Provides hiking opportunities to explore local regions. Develops awareness of safety, weather, and ecological considerations. Laboratory 2-4 hours per week.

PED 170 Tai Chi I (1-2 Credits)

Develops an understanding of the Theories and practices of Tai Chi. Explores the energy of exercise that will tone muscles, improve circulation and increase flexibility and balance. Discusses history and philosophy of exercise and relaxation techniques for stress reduction. Lecture 0-1 hours. Laboratory 2-4 hours. Total 2-4 hours per week. 1-2 credits

Physics

PHY 201-202 General College Physics I – II (4 credits/4 credits)

Prerequisite: MTH 163 or division approval.

Teaches fundamental principles of physics. Covers mechanics, thermodynamics, wave phenomena, electricity and magnetism, and selected topics in modern physics. Lecture 3 hours. Laboratory 3 hours. Total 6 hours per week.

PHY 231-232 General University Physics I - II (5 credits/5 credits)

Prerequisite for PHY 231: MTH 263 or division approval

Prerequisite for PHY 232: PHY 231, MTH 174 or MTH 264 or division approval

Teaches principles of classical and modern physics. Includes mechanics, wave phenomena, heat, electricity, magnetism, relativity, solid state, quantum physics, and nuclear physics. Includes extended coverage of selected topics. Lecture 4 hours, Laboratory 2 hours, Total 6 hours per week.

PHY 241-242 University Physics I - II (4 credits/4 credits)

Prerequisite for PHY 241: MTH 263 or division approval.

Prerequisite for PHY 242: PHY 241, MTH 264 or division approval

Teaches principles of classical and modern physics. Includes mechanics, wave phenomena, heat, electricity, magnetism, relativity, and nuclear physics. Lecture 3 hours, Laboratory 3 hours, Total 6 hours per week.

Political Science

PLS 135 American National Politics (3 credits)

Teaches political institutions and processes of the national government of the United States, focuses on the Congress, presidency, and the courts, and on their interrelationships. Gives attention to public opinion, suffrage, elections, political parties, interest groups, civil rights, domestic policy, and foreign relations. Lecture 3 hours per week.

PLS 211 U.S. Government I (3 credits)

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.

PLS 212 U.S. Government II (3 credits)

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.

Psychology

PSY 120 Human Relations (3 credits)

Introduces the theory and practice of effective human relations. Increases understanding of self and others and interpersonal skills needed to be competent and cooperative communicator. Lecture 3 hours per week.

PSY 200 Principles of Psychology (3 credits)

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.

PSY 215 Abnormal Psychology (3 credits)

Prerequisites: PSY 200

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.

PSY 230 - Developmental Psychology (3 credits)

Studies the development of the individual from conception to death. Follows a life-span perspective on the development of the person's physical, cognitive, and psychosocial growth. Lecture 3 hours per week.

PSY 235 Child Psychology (3 credits)

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.

PSY 236 Adolescent Psychology (3 credits)

Studies development of the adolescent. Investigates physical, intellectual, social, and emotional factors of the individual from late childhood to early adulthood. Lecture 3 hours per week.

PSY 237 Adult Psychology (3 credits)

Studies development of the adult personality. Investigates physical, intellectual, social, and emotional aspects of aging from early adulthood to death. Lecture 3 hours per week.

Public Service

PBS 265 Interviewing (3 credits)

Analyzes the principles and techniques of interviewing in various organizational settings. Examines reliability and validity of information gained through survey interviewing, employment and selection interviewing, performance appraisal and disciplinary interviewing as well as counseling interviewing. Lecture 3 hours per week.

PBS 266 Group Leadership (3 credits)

Focuses on the dynamics of individual behavior and group processes. Examines the role of group members' decision making, use of power, creativity and controversy, problem solving, and group public discussion. Lecture 3 hours per week.

Radiography

RAD 105 Introduction to Radiology, Protection and Patient Care (2-3 credits)

Prerequisite: Acceptance into the Radiography Program.

Presents brief history of radiologic profession, code of ethics, conduct for radiologic students, and basic fundamentals of radiation protection. Teaches the care and handling of the sick and injured patient in the radiology department. Introduces the use of contrast media necessary in the investigation of the internal organs. Lecture 2-3 hours per week.

RAD 110 Imaging Equipment and Protections (3 credits)

Prerequisite: RAD 105 and RAD 245

Discusses the basic components of a radiographic unit, principles of x-ray production, principles of image receptors, automatic processing, film evaluation and concepts in radiation protection and radiobiology. Lecture 3 hours per week.

RAD 111 - 112 Radiologic Science I - II (4 credits/4 credits)

Prerequisites: RAD 105 and RAD 245

Teaches concepts of radiation, radiography physics, fundamentals of electromagnetic radiation, electricity and magnetism, and application of these principles to radiography. Focus on x-ray production, emission, and x-ray interaction with matter. Lecture 3 hours, Laboratory 3 hour, Total 6 hours per week.

RAD 115 - Principles of Magnetic Resonance Imaging (2-3 credits)

Presents concepts of Magnetic Resonance Imaging and Physics. Teaches fundamentals of Magnetic Resonance and application of principles. Prerequisite: ARRT or eligible. Lecture 2-3 hours per week.

RAD 121 Radiographic Procedures I (4 credits)

Prerequisites: RAD 105 and RAD 245

Introduces procedures for positioning the patient's anatomical structures relative to x-ray beam and image receptor. Emphasizes procedures for routine examination of the chest, abdomen, extremities, and axial skeleton. Lecture 3 hours, Laboratory 3 hours, Total 6 hours per week.

RAD 136 - Clinical Procedures in Magnetic Resonance Imaging (2-3 credits)

Develops technical skills in Magnetic Resonance procedures. Focuses on manipulation of equipment, patient care, and procedures. Clinical 10-15 hours per week.

RAD 190 - Coordinated Internship (1-5 credits)

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.

RAD 195 Topics in Pharmacology for Technologist (1-5 credits)

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.

RAD 196 On-Site Training Clinical Internship in Computed Tomography (1-5 credits)

Specializes in career orientation and training program without pay in selected businesses and industry, supervised and coordinated by the college. Credit/work ratio not to exceed 1:5 hours. May be repeated for credit. Variable hours.

RAD 205 Radiation Protection and Radiobiology (3 credits)

Prerequisites: RAD 110, RAD 112 and RAD 121-221

Studies methods and devices used for protection from ionizing radiation. Teaches theories of biological effects, cell and organism sensitivity, and the somatic and genetic effects of ionizing radiation. Presents current radiation protection philosophy for protecting the patient and technologist. Lecture 3 hours per week.

RAD 215 Correlated Radiographic Theory (2 credits)

Prerequisites: RAD 110, RAD 112 and RAD 121-221

Presents intensive correlation of all major radiologic technology subject areas. Studies interrelationships of biology, physics, principles of exposure, radiologic procedures, patient care, and radiation protection. Lecture 2 hours per week.

RAD 221 Radiographic Procedures II (4 credits)

Prerequisites: RAD 110 and RAD 121

Continues procedures for positioning the patient's anatomical structures relative to x-ray beam and image receptor. Emphasizes procedures for routine examination of the skull, contrast studies of internal organs, and special procedures employed in the more complicated investigation of the human body. Lecture 3 hours, Laboratory 3 hours, Total 6 hours per week.

RAD 225 Specialized Patient Care Procedure (2 credits)

Prerequisites: RAD 110, RAD 112 and RAD 121-221

Focuses on specific nursing procedures associated with routine and emergency conditions encountered in the performance of radiographic examinations. Teaches medication preparation and administration principles. Lecture 2 hours per week.

RAD 240 Radiographic Pathology (3 credits)

Prerequisite: BIO 141-142 and RAD 121-221

Presents a survey of common medical and surgical disorders that affect radiographic image. Discusses conditions related to different systems of the human body. Studies the correlation of these conditions with radiographs. Lecture 3 hours per week.

RAD 242 Computed Tomography Procedures and Instrumentation (2 credits)

Prerequisite: AART or eligible

Focuses on the patient care, imaging procedure and physics and instrumentation related to computed tomography imaging. Lecture 2 hours per week.

RAD 245 Radiologic Specialties (1-2 credits)

Prerequisite: Acceptance into the Radiography Program

Introduces the study of treatment of disease as it relates to various imaging modalities, computerized tomography, and magnetic resonance imaging. Introduces computers and other innovations in radiology. Emphasizes theory, principle of operation, and clinical application of these topics. Lecture 1-2 hours per week.

RAD 246 Special Procedures (1-2 credits)

Prerequisites: BIO 141-142 and RAD 121-221

Studies special radiographic and surgical procedures and equipment employed in the more complicated investigation of internal conditions of the human body. Lecture 1-2 hours per week.

RAD 247 Cross-Sectional Anatomy (3 credits)

Prerequisites: ARRT or eligible, BIO 141-142 and RAD 121-221

Presents a specialized study of cross-sectional anatomy relevant to sectional imaging modalities such as computed tomography and magnetic resonance imaging. Lecture 3 hours per week.

RAD 255 Radiographic Equipment (3 credits)

Prerequisites: ARRT or eligible, BIO 141-142 and RAD 121-221

Studies principles and operation of general and specialized X-ray equipment. Lecture 3 hours per week.

RAD 256 Radiographic Film Evaluation (3 credits)

Prerequisites: BIO 141, 142, RAD 111, 112, 121, 221.

Presents a concentrated study and practical evaluation of radiographic quality and disease affects on radiographs. Focuses on technical factors, procedural factors, equipment malfunctions, and other difficulties associated with radiographs. Lecture 3 hours per week.

RAD 290 Coordinated Internship (1-5 credits)

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.

RAD 295 Topics in CT Registry Preparation (1-5 credits)

Provides an opportunity to explore topical areas of interest to or needed by students. May be used for special honors courses. May be repeated for credit. Variable hours.

RAD 298 Seminar and Project (1-5 credits)

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.

Real Estate

REA 100 Principles of Real Estate (4 credits)

Examines practical applications of real estate principles. Includes a study of Titles, estates, land descriptions, contracts, legal instruments, financing and management of real estate. Lecture 4 hours per week.

REA 216 Real Estate Appraisal (3 credits)

Explores fundamentals of real estate evaluation: methods used in determining value; application of the valuation process and the principal techniques by simulations, working problems and reviewing actual appraisals. Includes the opportunities available in the appraisal field. Lecture 3 hours per week.

Religion

REL 200 Survey of the Old Testament (3 credits)

Surveys books of the Old Testament with emphasis on prophetic historical books. Examines the historical and geographical setting and place of the Israelites in the ancient Middle East as background to the writings. Lecture 3 hours per week.

REL 210 Survey of the New Testament (3 credits)

Surveys books of the New Testament with special attention upon placing the writings within their historical and geographical setting. Lecture 3 hours per week.

REL 230 Religions of the World (3 credits)

Introduces the religions of the world with attention to origin, history, and doctrine. Lecture 3 hours per week.

Safety

SAF 127 Industrial Safety (2 credits)

Provides basic understandings 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. Lecture 2 hours per week.

SAF 130 Industrial Safety - OSHA 10 (1 credit)

Presents an introduction to occupational health and safety and its application in the workplace. Emphasizes safety standards and the Occupational Safety and Health Act (OSHA), its rules and regulations (OSHA 10). Lecture 1 hour per week.

Sociology

SOC 200 - Principles of Sociology (3 credits)

Introduces fundamentals of social life. Presents significant research and theory in areas such as culture, social structure, socialization, deviance, social stratification, and social institutions. Lecture 3 hours per week.

SOC 215 Sociology of the Family (3 credits)

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. Lecture 3 hours per week.

SOC 235 Juvenile Delinquency (3 credits)

Studies demographic trends, casual theories and control of juvenile delinquency. Presents juveniles' interaction with family, school, police, courts, treatment programs, and facilities. Also approved for ADJ juvenile curriculum. Lecture 3 hours per week.

SOC 236 Criminology (3 credits)

Studies research and casual theories of criminal behavior. Examines crime statistics, crime victims, and types of criminal offenses. Introduces role of police, judicial and correctional systems in treatment and punishment of offenders. Is also approved for ADJ criminology. Lecture 3 hours per week.

SOC 266 - Race and Ethnicity (3 credits)

Prerequisite: Ability to read in English at the college level.

Considers race and ethnicity as social constructs that deeply affect our personal experience and our social institutions. Examines the relationships of racial and ethnic groups with each other and with the larger society, and the ways in which these relationships are constantly changing. Explores the experience of different groups and examines ideas of racial justice and equality. Introduces significant theoretical approaches to the study of race and ethnicity. Lecture 3 hours, Total 3 hours per week.

SOC 268 Social Problems (3 credits)

Applies sociological concepts and methods to analysis of current social problems. Includes delinquency and crime, mental illness, drug addiction, alcoholism, sexual behavior, population crisis, race relations, family and community disorganization, poverty, automation, wars, and disarmament. Lecture 3 hours per week.

Spanish

SPA 101 - Beginning Spanish I (4-5 credits)

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. Part I of II. Lecture 4-5 hours per week. May include one additional hour of oral practice per week.

SPA 102 - Beginning Spanish II (4-5 credits)

Prerequisite: SPA 101 or division approval

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. Part II of II. Lecture 4-5 hours per week. May include one additional hour of oral practice per week.

SPA 201 Intermediate Spanish I (3-4 credits)

Prerequisite: SPA 102 or division approval

Continues to develop understanding, speaking, reading, and writing skills. 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 II (3-4 credits)

Prerequisite: SPA 201 or division approval

Continues to develop understanding, speaking, reading, and writing skills. 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

All students enrolled in an associate degree, diploma or certificate program must complete an orientation (SDV) course during their first semester in college.

SDV 100 College Success Skills (1-3 credits)

Assists students in transition to colleges. Provides overviews of college policies, procedures, 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. May include English and Math placement testing. Strongly recommended for beginning students. Required for graduation. Lecture 1-3 hours per week.

SDV 101 Orientation to College Success (1 credit)

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 offered 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 hours per week.

SDV 106 - Preparation for Employment (1-2 credits)

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 108 College Survival Skills (1- 3 credits)

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. Recommended for students enrolled in developmental courses. Lecture 1-3 hours per week.

Unmanned Aerial Systems (UAS)

UMS 107 - Small Unmanned Aircraft Systems (sUAS) Remote Pilot Ground School (2-3 credits)

Presents the aeronautical knowledge required for FAA approved commercial operations as a Remote Pilot with small Unmanned Aircraft Systems (sUAS) rating. Covers the regulations applicable to small UAS operations, loading and performance, emergency procedures, crew resource management, determining the performance of the small unmanned aircraft, and maintenance/inspection procedures. Prepares students for the FAA written examination required to obtain the Remote Pilot certificate. Lecture 2-3 hours. Total 2-3 hours per week.

UMS 111 - Small Unmanned Aircraft Systems (sUAS) I (3 credits)

Introduces students to the history of small Unmanned Aerial Systems (sUAS), surveys current platforms, applications, components, and sensors. Covers the theory of flight, operations, manual flight, maintenance, and required record keeping. Introduces mission planning, crew management, and autonomous control. Emphasizes the ethical, legal, and safe use of sUAS. Lecture 3 hours. Total 3 hours per week.

UMS 177 - Small Unmanned Aircraft Systems (sUAS) Components and Maintenance (3 credits)

Provides an introduction to the basic equipment and techniques used in maintaining, repairing, and upgrading sUAS to assure airworthiness and proper operation of the other components. Emphasizes safe practices in repair and handling of components and develops fundamental skills in troubleshooting/repair of the circuits, subsystems and components typically found in the complete sUAS. Covers payload sensor mounting, power management and security threat management. Lecture 2 hours. Laboratory 2-3 hours. Total hours per week 4-5.

Welding

WEL 110 Welding Processes (3 credits)

Introduces types of welding, their advantages and disadvantages. Points out effects of welds on metals to be machined. Provides practice and demonstration in welding. Lecture 2 hours, Laboratory 3 hours, Total 5 hours per week.

WEL 117 Oxyfuel Welding and Cutting (3-4 credits)

Introduces history of oxyacetylene welding, principles of welding and cutting, nomenclature of the equipment, development of the puddle, running flat beads, and butt welding in different positions. Explains silver brazing, silver and soft soldering, and 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 credits)

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 credits)

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 130 Inert Gas Welding (3-4 credits)

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 136 Welding III (Inert Gas) (2 credits)

Studies Tungsten and metallic inert gas procedures and practices including principles of operation, shielding gasses, filler rods, process variations and applications, manual and automatic welding, equipment and safety. Lecture 1 hour. Laboratory 3 hours. Total 4 hours per week.

WEL 150 Welding Drawing and Interpretation (3 credits)

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 160 Gas Metal Arc Welding (3-4 credits)

Introduces semi-automatic welding processes with emphasis on practical application. Includes the study of filler wires, fluxes, and gases. Lecture 2 hours. Laboratory 3-6 hours. Total 5-8 hours per week.

Administration, Faculty, Instructional & Support Staff

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Director of Upward Bound
B.S., University of Tennessee, 1998
M.S., Virginia Tech, 2001

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Assistant Professor of Nursing

B.S.N., East Tennessee State University, 1994
M.S.N., East Tennessee State University, 2012

Mr. Keith Harless

Instructor of Diesel Mechanics

Certificate, Washington County Adult Skills Center

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Associate Professor of Administrative Support Technology

B.S., Milligan College, 1973
M.S., Virginia Polytechnic Institute & State University, 1994

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Assistant Professor of Nursing

A.A.S., Southwest Virginia Community College, 1997
B.S.N., King University, 2012
M.S.N., Liberty University, 2013

Mr. Johnnie Keene, Jr.

Assistant Professor of Machine Technology

Certificate, Virginia Highlands Community College, 2009
A.A.S., Virginia Highlands Community College, 2010

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Excel Transfer Counselor

B.S., Radford University, 1986
M.S., Radford University, 1999

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Associate Professor of Air Conditioning, Refrigeration and Heating

Certificate, VHCC, 1975
Diploma, VHCC, 1976
A.A.S., NVCC, 1998

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Assistant Professor of Information Systems Technology

B.A., Radford University, 2001
M.S., Old Dominion University, 2004

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Radiography Program Director

A.A.S., Southwest Virginia Community College, 1997
A.S., Southwest Virginia Community College, 1997
B.S., Mars Hill University, 1998
M.S.A.H., East Tennessee State University, 2015

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B.A., Virginia Intermont College, 1982
M. Ed., Virginia Polytechnic Institute & State University, 1997

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M.A., East Tennessee State University, 2004

Ms. Julie S. Little

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B.S., Virginia Polytechnic Institute & State University, 1995
M.S., University of Georgia, 1999

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Academic Counselor

B.S., University of Virginia's College at Wise, 2007
M.S., Radford University, 2009

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Instructor of Electromechanical Technology

Diploma, Virginia Highlands Community College, 2013
A.A.S., Virginia Highlands Community College, 2013

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B.S., East Tennessee State University, 1982
M.A., East Tennessee State University, 1984
M.Ed., Arizona State University, 1997

Ms. Patricia Mullins

Professor of Dental Assisting

B.S., Texas Woman's University, 1984
M.S., Texas Woman's University, 1993

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B.A., Emory & Henry College, 1985
M.M., James Madison University, 2007

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A.A.S., Mountain Empire Community College, 2008
B.S.N., King University, 2009
M.S.N., Aspen University, 2015

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A.A.S., Virginia Highlands Community College, 1997
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M.S.N., King University, 2008

Ms. Amanda Robbins

Instructor of Nursing

A.A.S., Mountain Empire Community College, 2007
B.S.N., King University, 2011
M.S.N., Aspen University, 2015

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B.A., Virginia Polytechnic Institute & State University, 1983
M.A., Virginia Polytechnic Institute & State University, 1985
M.S., University of North Carolina, 1989

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B.S.N., King College, 2013
M.S.N., King University, 2015

Mr. David A. Smith

Associate Professor of Mathematics and Physics

B.S., Case Institute of Technology, 1970
M.S., Case Western Reserve University, 1972

Ms. Kimberly K. Smith

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A.A.S., Southwest Virginia Community College, 1984
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M.S.N., East Tennessee State University, 1997

Ms. Katherine Stephens

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A.A.S., Virginia Highlands Community College, 1991
B.S.N., Virginia Commonwealth University, 2007
M.S.N., King University, 2009

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B.S., University of Alabama, 1974
M.S., Auburn University, 1993

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B.A., Louisiana State University in Shreveport, 1998
M.A., Louisiana State University in Shreveport, 2000

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Professor of Mathematics

B.A., Berea College, 1972
M.A., Eastern Kentucky University, 1975
Ph.D., Indiana University, 1980

Ms. Robin Widener

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B.S., Mars Hill College, 1993
M.S., Radford University, 2003

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B.A., University of Virginia, 1987
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B.S.N., University of Virginia at Wise, 1997

Ms. Elizabeth B. Wright

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B.S.N., East Tennessee State University, 1982
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Professor Emeriti

Mr. Gary Aday

Professor Emeritus (Retired 6/1/2013)

Associate Professor of Communications, Speech, and Theatre

Ms. Virginia A. Alvis

Professor Emeritus (Retired 6/1/00)

Professor of Information Systems Technology

Ms. Lois S. Caldwell

Professor Emeritus (Retired 6/30/05)

Director of Virginia Appalachian Tricollege Nursing Program

Dr. Deborah C. Clear

Professor Emeritus (Retired 8/1/2012)

Vice President of Instruction and Student Services

Mr. Edward A. Colley

Professor Emeritus (Retired 6/30/97)

Director of Admissions, Records & Financial Aid

Mr. Clark Fleming

Professor Emeritus (Retired 1/1/07)

Dean of Science & Engineering Technologies

Dr. Susan C. Fleming
Professor Emeritus (Retired 7/1/2015)
Interim Dean of Business, Humanities & Sciences

Ms. Marthallynn M. Greer
Professor Emeritus (Retired 8/1/88)
Professor of Accounting and Business

Dr. Edwin T. Hardison
Professor Emeritus (Retired 1/1/04)
Vice President of Instruction and Student Services

Dr. Patricia A. Hunter
Professor Emeritus (1/1/06)
Director of Library and Instruction Services

Mr. Jim Johnson
Professor Emeritus (Retired 8/1/2012)
Coordinator of Evening Services and Dual Enrollment

Mr. Joseph L. Kennedy
Professor Emeritus (Retired (6/1/05)
Associate Professor of Accounting & Business

Mr. C. William Locke
Professor Emeritus (Retired 1/1/04)
Associate Professor of History & Economics

Dr. Charles H. Owens
Professor Emeritus (Retired 6/1/97)
Associate Professor of Biology

Mr. John B. Roberts
Professor Emeritus (Retired 10/1/91)
Counselor, Division of Science & Engineering Technologies

Ms. Mary W. Roten
Professor Emeritus (Retired 6/15/86)
Associate Professor of English

Dr. G. Michael Rush
Professor Emeritus (Resigned 8/6/93)
Coordinator of Student Development & Assessment

Dr. F. David Wilkin
Professor Emeritus (Retired 7/1/2010)
President

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*Testing Center Assistant**

Mr. R. Blake Andis
Campus Police Chief

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*Tutor Coordinator**

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Mr. Tim Carter
*Housekeeping Worker**

Mr. Andrew Collins
Buildings & Grounds Technician

Ms. Hillary Collins
Student Support Specialist

Ms. Meghan Copenhaver
College Success Coach

Ms. Diana Corns
*Library Specialist/Cataloger**

Mr. Adam Debusk
*Police Officer**

Ms. Stacey Dorton
College Success Coach

Ms. Anne Dunham
Public Relations & Marketing Coordinator

Ms. Betty Duty
*Housekeeping Worker**

Ms. Pat Farmer
*Dual Enrollment Specialist**

Mr. R. B. Farris
*Police Officer**

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Housekeeping Worker

Ms. Chelsea Goulding
*Horticulture Assistant**

Mr. Joshua Greenwell
Financial Aid Technician

Ms. Nikelle Hagy
Webmaster & Media Specialist

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Buildings & Grounds Technician

Ms. Elizabeth Hill
College Success Coach

Ms. Lindsey Holman
Financial Aid Assistant

Ms. Nancy Hope
Financial Aid Coordinator

Ms. Joyce Horn
Housekeeping Worker

Ms. Courtney Hubbard
*Special Events/Donor Relations**

Ms. Leigh Anne Hutton
Information Security Officer

Mr. Glen Johnson
Information Technology Coordinator

Ms. Julie Johnson
*Financial Aid Assistant**

Ms. Becky Kell
*Receptionist**

Ms. Holly Kennedy
*Operations Assistant, Workforce Development & Continuing Education**

Mr. Ben King
Great Expectations & Student Activities Coach

Ms. Rachel Law
Administrative Assistant, Nursing & Allied Health

Ms. Laura McClellan
Human Resource Manager

Ms. Tammy McCracken
Database Administrator

Ms. Traci Mitchell
Adult Career Coach

D'Lisa Mullins
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Ms. Kathleen Nash
Housekeeping Worker

Mr. David Necessary
*Police Officer**

Mr. Ernest Nunley
Superintendent, Buildings & Grounds

Ms. Jessica O'Quinn
Administrative Assistant, Vice President of Finance and Administration

Mr. James Owens
*Police Officer**

Mr. Harold Powers
*Housekeeping Worker**

Mr. Tyrone Preston
*Housekeeping Worker**

Ms. Ella Ratcliffe
Office Manager, Upward Bound/EXCEL

Ms. Donna Ratliffe
*Veterans Coordinator**

Mr. Emery Reid
Academic Coordinator, Upward Bound

Mr. Adam Rhea
Computer Technology Specialist

Ms. Sharon Rowe
Admissions & Records Specialist

Mr. Jeffery Russell
Research & Assessment Specialist

Ms. Reva Russell
Testing Center Specialist

Ms. Olivia Denton Smith
Executive Assistant to the President

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Finance Manager

Ms. Kayla Spenser
*Office Manager, Buildings and Grounds**

Ms. Gleneda Sproles
Payroll Technician

Ms. Jan Stout
SNAP Grant Counselor

Ms. Hannah Surber
Student Support Specialist

Ms. Vota Thomas
Office Manager, Workforce Development & Continuing Education

Ms. Kristy Trent
Accountant

Mr. Clayton Trout
*Library Assistant**

Ms. Drema Waters
*Administrative Assistant, Vice President of Instruction and Student Services**

Ms. Sarah Beth White
*Reference Librarian**

Ms. Karin Widener
Office Manager, Arts & Sciences Division

Mr. Mark Wildman
*Career & Transfer Center Advisor**

Mr. John Williams
Buildings & Grounds Technician

Ms. Mitzi Williams
Fast Forward Career Coach

Mr. Alex Wilson
*Evening IT Technician/Library Circulation Assistant**

Mr. Larry Wise
*Grounds Worker**

Mr. Ivan Yarber
*Landscaping**

Ms. Cathy Zeigler
*Office Manager, Professional & Technical Studies Division**

**Part-time Staff*

Classified Staff Emeriti

Ms. Dorothy C. Adams
*Purchasing Officer
(Retired 5/1/97)*

Ms. Peggy H. Bailey
*Secretary, Vice President of Administration
(Retired 12/31/05)*

Ms. Linda M. Carty
*Administrative Assistant to the President
(Retired 9/1/07)*

Ms. Joyce Crusenberry
*Library Reference Assistant
(Retired 6/1/2013)*

Ms. Patricia R. Fullen
*Financial Aid Officer
(Retired 3/1/2010)*

Ms. Deborah Hale
*Human Resource Manager
(Retired 10/1/2011)*

Ms. Judy S. Plummer
*Secretary, Center for Business and Industry
(Retired 5/1/01)*

Ms. Judy B. Sullins
*Receptionist/Switchboard Operator
(Retired 10/1/08)*



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