

2020-21

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Database Security & Design (CSC)	
* Dental Assisting (CSC)	
Diesel Mechanic (CSC)	
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Emergency Medical Technician (CSC)	
Emergency Medical Technician – Plus (CSC)	
Fire Science Technology (CSC)	
Foundations of Criminal Justice (CSC)	
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Nurse Aide	
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 $^{* \,} Dental \, Assisting \, Program \, Date \, of \, discontinuance \, May \, 31,2020$



COLLEGE CALENDAR

Holidays, 2020-2021

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 25, 2020 Memorial Day

Friday, July 3, 2020 Independence Day (observed)

Monday, September 7, 2020 Labor Day

Thur. – Fri., November 26 – 27, 2020 Thanksgiving Break
Thur. – Thur., December 24 – 31, 2020 Christmas Break
Friday, January 1, 2021 New Year's Day

Monday, January 18, 2021 Martin L. King, Jr. Day

2020-2021 Academic Calendar

Summer Semester 2020

Memorial Day – College Closed Monday, May 25, 2020

Full Term

First Day of Classes

Monday, June 1, 2020

Last day to pay tuition

Monday, June 1, 2020

Last day to add a class

Friday, June 5, 2020

Last day to drop a class and receive a refund

Thursday, June 11, 2020

Independence Day (observed) – College Closed

Last day to withdraw from class without academic penalty

Last Day of Classes

Monday, June 1, 2020

Friday, June 5, 2020

Friday, July 3, 2020

Friday, July 10, 2020

Thursday, August 6, 2020

First Five Weeks Term

First Day of Classes

Last day to pay tuition

Last day to add a class

Wednesday, June 1, 2020

Wednesday, June 3, 2020

Last day to drop a class and receive a refund

Last day to withdraw from class without academic penalty

Last Day of Classes

Monday, June 1, 2020

Wednesday, June 3, 2020

Friday, June 5, 2020

Thursday, June 19, 2020

Thursday, July 2, 2020

Second Five Weeks Term

First Day of Classes

Monday, July 6, 2020

Last day to pay tuition

Monday, July 6, 2020

Last day to add a class

Wednesday, July 8, 2020

Last day to drop a class and receive a refund

Friday, July 10, 2020

Last day to withdraw from class without academic penalty

Last Day of Classes

Monday, July 6, 2020

Friday, July 10, 2020

Thursday, August 6, 2020



Fall Semester 2020

Last day to pay tuition for early enrollment

In-Service and Enrollment Days

Enrollment, Advising, & Class Preparation

Monday, August 10, 2020

Mon. - Fri., August 17 - 21, 2020

Mon. - Fri., August 24 - 28, 2020

Full Term

First Day of Classes Last day to pay tuition

Last day to add a class

Labor Day - College Closed

Last day to drop a class and receive a refund

Faculty In-Service - No Classes

Last day to withdraw from class without academic penalty

Advising and open enrollment for spring semester begins

Faculty Research Day - No Classes

Thanksgiving Holiday - College Closed

Thanksgiving Holiday - College Closed

Last Day of Classes - Full Term

Final Exams

Monday, August 31, 2020 Monday, August 31, 2020 Friday, September 4, 2020 Monday, September 7, 2020 Wednesday, September 16, 2020 Tuesday, October 13, 2020

Wednesday, November 4, 2020

Monday, November 2, 2020

Wednesday, November 25, 2020

Thursday, November 26, 2020

Friday, November 27, 2020

Friday, December 11, 2020

Mon. - Fri., December 14 - 18, 2020

SDV Term

First Day of Classes

Last day to pay tuition

Last day to add a class

Last day to drop a class and receive a refund

Labor Day - College Closed

Last day to withdraw from class without academic penalty

Last Day of Classes

Monday, August 31, 2020 Monday, August 31, 2020

Wednesday, September 2, 2020

Friday, September 4, 2020

Monday, September 7, 2020

Monday, September 21, 2020

Monday, October 5, 2020

First Seven Weeks Term

First Day of Classes

Last day to pay tuition

Last day to add a class

Last day to drop a class and receive a refund

Last day to withdraw from class without academic penalty

Faculty In-Service - No Classes

Last Day of Classes

Monday, August 31, 2020

Friday, September 4, 2020

Wednesday, September 30, 2020

Tuesday, October 13, 2020

Second Seven Weeks Term

Last day to pay tuition

Last day to add a class

Last day to drop a class and receive a refund

Advising and open enrollment for spring semester begins

Last day to withdraw from class without academic penalty

Faculty Research Day - No Classes

Thanksgiving Holiday - College Closed

Thanksgiving Holiday - College Closed

Last Day of Classes - Second Seven Weeks Term

Monday, August 31, 2020

Tuesday, September 8, 2020

Tuesday, October 20, 2020

First Day of Classes Wednesday, October 21, 2020

Wednesday, October 21, 2020 Monday, October 26, 2020

Thursday, October 29, 2020

Monday, November 2, 2020

Friday, November 20, 2020 Wednesday, November 25, 2020

Thursday, November 26, 2020

Friday, November 27, 2020 Friday, December 11, 2020



Faculty Workday
Faculty Research Days

Christmas Eve – College Closed Christmas Day – College Closed

College Closed

Monday, December 21, 2020

Tue. – Wed., December 22 – 23, 2020 Thursday, December 24, 2020 Friday, December 25, 2020

Mon. - Thur., December 28 - 31, 2020

Spring Semester 2021

New Year's Day – College Closed In-Service and Enrollment Days

Enrollment, Advising, & Class Preparation Martin Luther King, Jr. Day – College Closed Friday, January 1, 2021 Mon. – Fri., January 4 – 8, 2021 Mon. – Fri., January 11 – 15, 2021 Monday, January 18, 2021

Full Term

First Day of Classes Last day to pay tuition Last day to add a class

Last day to drop a class and receive a refund

Faculty In-Service – No Classes Faculty In-Service – No Classes Spring Break – No Classes

Advising and open enrollment for summer semester and fall semester begins

Faculty Research Day – No Classes Faculty Research Day – No Classes

Last day to withdraw from class without academic penalty

Last Day of Classes Final Exams Tuesday, January 19, 2021 Monday, January 25, 2021 Friday, February 5, 2021 Tuesday, February 23, 2021 Wednesday, February 24, 2021 Mon. – Fri., March 15 – 19, 2021 Monday, March 22, 2021 Thursday, April 1, 2021 Friday, April 2, 2021 Monday, April 5, 2021 Friday, May 7, 2021

Tuesday, January 19, 2021

Mon. - Fri., May 10 - 14, 2021

SDV Term

First Day of Classes
Last day to pay tuition
Last day to add a class
Last day to drop a class and receive a refund
Last day to withdraw from class without academic penalty
Last Day of Classes

Tuesday, January 19, 2021 Tuesday, January 19, 2021 Thursday, January 21, 2021 Monday, January 25, 2021 Monday, February 8, 2021 Monday, February 22, 2021

First Seven Weeks Term

First Day of Classes
Last day to pay tuition
Last day to add a class
Last day to withdraw from class without academic penalty
Faculty In-Service – No Classes
Faculty In-Service – No Classes

Last day to drop a class and receive a refund

Last Day of Classes

Tuesday, January 19, 2021 Tuesday, January 19, 2021 Friday, January 22, 2021 Thursday, February 18, 2021 Tuesday, February 23, 2021 Wednesday, February 24, 2021 Tuesday, January 26, 2021 Wednesday, March 10, 2021



Second Seven Weeks Term

First Day of Classes Last day to pay tuition Spring Break - No Classes Last day to add a class

Last day to drop a class and receive a refund

Advising and open enrollment for all summer sessions and fall semester begins

Faculty Research Day - No Classes Faculty Research Day - No Classes

Last day to withdraw from class without academic penalty

Last Day of Classes

Graduation

Thursday, March 11, 2021 Thursday, March 11, 2021

Mon. - Fri., March 15 - 19, 2021

Monday, March 22, 2021 Tuesday, March 23, 2021 Monday, March 22, 2021 Thursday, April 1, 2021 Friday, April 2, 2021 Monday, April 22, 2021

Friday, May 7, 2021



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 52 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 3,000 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, and the service learning initiative is teaching VHCC students the value of volunteerism.

State-of the-art technology has made it possible to take online learning courses and has provided the entire College community with modern, up-to-date computer facilities. Through the 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 Associate degree nursing program at Virginia Highland Community College located in Abingdon, Virginia Nursing Program is is approved by the Virginia Board of Nursing and is accredited by the Accreditation Commission for Education in Nursing (ACEN) 3390 Peachtree Road NE, Suite 1400 Atlanta, GA 30326 (404) 975-5000, www.acenursing.org/. The most recent ACEN accreditation decision made by the ACEN Board of Commissioners for the Virginia Highlands Community College Associate degree nursing program is continuing accreditation 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.ircert.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.

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 are 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

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 an Online learning course.

For all <u>curricular students</u>, 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) calendars 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 Student Services and Enrollment Management 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 Student Services and Enrollment Management 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 Admissions and Records 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 Admissions and Records.

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, Chemistry, or Psychology 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 readiness to enroll in ENG 111, and completion of MTE 3 or placement into MTE 4 or above.
- 3. Enrollment in Biology 141 requires readiness to enroll in ENG 111.
- 4. Enrollment in Chemistry 05 requires completion of MTE 1 MTE 3 or placement in MTE 4 or above.
- 5. Enrollment in Chemistry 111 requires completion of MTE 1 MTE 9, or placement in MTH 161 or above.
- 6. Enrollment in Psychology 200 requires readiness to enroll in ENG 111.
- 7. All students must meet VHCC placement criteria in math before entry into any math course.
- 8. Mathematics Scores based upon the placement criteria are required for enrollment in any chemistry course.
- 9. 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.



10. 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 age 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 to withdraw from a class without penalty.



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 online 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 and Records Specialist. 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 and Records Specialist 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: the Admissions and Records Specialist, Virginia Highlands Community College, P.O. Box 828 Abingdon, VA 24212 or by phone at 276-739- 2508. 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 Admissions and Records 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 \$350 (USD). This may be paid online at the <u>SEVIS Fee Payment information page</u>.
- 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* *Algebra Intensive Courses above Algebra II: Trigonometry, Math Analysis, Pre-Calculus, Calculus, Algebra III.	3.0 or higher	MTE 1-9 Satisfied
	2.7-2.9	MTE 1-9 Co-
		Requisite Eligible
	3.0 or higher	MTE 1-5 Satisfied
HSGPA and Algebra II	2.7-2.9	MTE 1-5 Co-
		Requisite Eligible
	3.0 or higher	MTE 1-3 Satisfied
HSGPA and Algebra I	2.7-2.9	MTE 1-3 Co-
		Requisite Eligible
CATE Mode	530 or above	MTE 1-9 Satisfied
T – Math	510-520 range	MTE 1-5 Satisfied
	22 or above	MTE 1-9 Satisfied
CT – Subject Area Test Math	19-21 range	MTE 1-5 Satisfied
	165 or above	MTE 1-5 Satisfied
ED – Math	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.org.

1. Purpose of Placement Test

The purpose of these tests is to assure that students are academically prepared for college level work,.

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

- 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.
- 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.

- 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 Student Services and Enrollment Management 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 Student Services and Enrollment Management. 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 meet with an academic counselor periodically throughout 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 meet with an academic counselor periodically throughout the first semester after readmission.



Adding a Course

Students may enroll in classes during the first full week of class through on-line enrollment procedures. After the first week students are not allowed to add a class unless it is in a subsequent term. Courses which do not follow regular term dates are considered dynamically dated classes and will have different add and drop dates.

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, major field of study, dates of attendance, number of credit hours enrolled, degrees, honors, and awards received, photos, and participation in officially recognized clubs and organizations, activities and sports. 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 ex-amination period, equals one collegiate semester-hour credit.
- c. Online Learning In the case of online 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:

- A procedural or substantive error occurred that significantly impacted the academic grade (e.g. substantiated bias, material deviation from established procedures); or
- 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.

- 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
В	Good	3
С	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.

Grades for Courses with Academic Credit/No Grade Point Credit

$\mathbf{R} = \mathbf{Re} \cdot \mathbf{Enroll} - \mathbf{No}$ 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 nondegree occupational program that is two years in length.

The Certificate is awarded to students who complete a nondegree 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;



- Have been certified for graduation by the appropriate college official;
- 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 Academic Counselor 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 Admissions and Records for evaluation. Upon the Coordinators 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 on each	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	8
Government and Politics: United States	3, 4 or 5	PLS 211 and 212 or PLS 135	6
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 Academic Counselor.

- 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 Admissions and Records for evaluation. Upon the Coordinators 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 90minute, 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 visit Collegeboard CLEP Exams.

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:

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

Subject	Type and Title of CLEP <u>Exams</u>	VHCC <u>Courses</u>	Equated VHCC Credits
Economics	Subject (Prin. of Macro-economics) (Prin. of Micro-economics)	ECO 201 ECO 202	3 3
English	General (English Composition) with essay	ENG 111	3
	Subject	ENG 241	3
	(American Literature)	ENG 242	3
	Subject	ENG 243	3
	(English Literature)	ENG 244	3
	Culainat	PLS 135	3
Government	Subject (Amer. Government)	PLS 211	3
	(runer, dovernment)	PLS 212	3
***	Subject	HIS 101	3
History	(Western Civilization)	HIS 102	3
	Subject	MTH 161	3
Mathematics	(Pre-Calculus I & II)	MTH 162	3
	(Calculus w/Elementary	MTH 263	3
	Functions)	MTH 264	3
A	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 Admissions and Records for evaluation. Upon the Coordinator'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 DANTES examination determined by the American Council on Education based on the national 50th percentile. CLEP and DANTES 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 Admissions and Records for evaluation. Upon the Coordinator'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. 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:
 - For documented learning which ties the prior experience to the theories and data of the relevant academic field,
 - 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 Navigate 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/alumni.

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 151, 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, <u>file a Safety or Hazard Report</u> 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 <u>Campus Police</u> <u>website</u>.

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 of 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

- 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.
- 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.
- 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.
- 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 Career Services Resource Center (ISC 101) is dedicated to helping students pursue their passion by equipping students with tools, strategies, and knowledge to develop life-long career planning and job search skills. The Career Services Resource Center provides information, resources, contacts, and services that will help students decide on a major or career path and obtain employment. Students will be empowered to choose and attain personally rewarding careers.

Through the Career Services Resource Center's STEP Program, students can:

Discover – Career advising and assessments will help students link their interests, skills, and unique personalities to college majors and growing career fields.

Explore – Students will learn strategies to make stronger career choices and will gain access to reliable career information such as salaries, high-demand career fields, required education levels, and more.

Experience – Students will have the opportunity to clarify career goals and gain exposure to the world of work through job shadowing, industry tours, or internships.

Engage – By learning the latest job search techniques, creating a dynamic resume, and perfecting the job interview, students will be fully prepared to market their skills at the annual career fair in the spring!

The Career Services Resource Center provides a listing of full- and part-time employment opportunities from a variety of employers and industries. Job opportunities are posted on VHCC Career Explorer (www.vhcc.edu/careerexplorer), VHCC Career Connection Facebook page, and the job board located outside of the Career Services Resource Center Office. Students who seek part-time work are encouraged to apply for openings that fit within 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 fulltime students as well as alumni. The office is located in ISC 101.

Like us on Facebook @VHCCCareerServices!

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/Advising

Counseling/Advising 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 Campus Connection Center is located in ISC 133, (276) 739-2438. Counselors and Advisors 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.

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

- 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.
- 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

- 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.
- 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;
 - 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.

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.

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



E. Spontaneous Expressive Activity

- 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

- 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.
- 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 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) Polices and Procedures can be found in the <u>Faculty & Staff Manual - 4.7.0</u>.

Library

The Virginia Highlands Community College Library provides reference services and an organized, accessible, comprehensive collection of material, resources, and programming that supports and enriches the curricula of the College.

Services

The Library readily offers library instruction and research assistance to students, and users can receive support in a variety of ways, including in-person, e-mail, telephone, and a 24-hour staffed chat service. VHCC identification cards are made at the Library's circulation desk and may be renewed at the end of each academic year. Additionally, an interlibrary loan service is offered to patrons as a way 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 card may be obtained by registering at the Library's circulation desk.

Print Resources

The Library houses over 22,000 volumes available for circulation. The collection also includes almost 700 DVDs, including a copy of each film offered as part of the Arts Array series. The Library subscribes to 50 print periodicals, including both titles that support College programs and curricula and popular publications. Additionally, the Library maintains subscriptions to regional and local newspapers.

Electronic Resources

Electronic access to research materials for students and faculty is available through VHCC Library databases, the Virginia Community College System, and the Virtual Library of Virginia (VIVA). These are accessible through the VHCC Library's homepage and the MyVHCC portal. Through VIVA, VHCC students, faculty, and staff have access to over 150 scholarly databases, over 30,000 electronic journals and magazines, and over 2,000,000 additional full-text sources. These resources cover a wide variety of topics, including those relating specifically to VHCC programs and courses.

Additionally, over 150,000 e-books and audiobooks are available for VHCC Library patrons, and access is provided to thousands of streaming videos as well. All VHCC Library electronic resources can be easily accessed off-campus by anyone with a VHCC login and password.

Facilities

In addition to resources and services, the Library furnishes facilities and equipment for students, faculty, staff, and the public. Computers, networked printers, a photocopier with fax capability, and other technologies are provided. The Library has study and work spaces for both groups and individuals. Library furniture is adaptable to accommodate large groups in the Library's primary open space, while two quiet areas with study carrels and partitions are available for individual study. Two reading nooks provide comfortable lounge-type seating.

Hours

The Library is open day and evening hours throughout the week to provide services to all patrons. When classes are in session, the Library is generally open 8am-9pm Monday-Thursday; 8am-5pm Friday; and 11am-3pm Saturday. When classes are not in session, hours of operation are typically 8am-5pm Monday-Friday. Specific schedules are posted on the Library's webpage and on the sign at the Library's entrance, and patrons are encouraged to call the Library if they have questions about the hours of operation.

Lending Guidelines

The VHCC Library generally allows a two week loan period for print material and a one week loan period for audio-visual items. The Library does not charge fines for overdue items. Library patrons will receive two notices of overdue items via email before a lost item bill is generated. The lost item bill includes the replacement cost of the overdue item(s), and this amount is also billed to the student's account. Access to official College records and transcripts is blocked until the items are returned to the Library 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.

The Moose Academic Resource Center

The Moose Academic Resource Center (MARC) is made up of the learning lab, the Helpdesk, and academic mentoring. The purpose of the MARC is to provide a computer equipped study center, a college-wide helpdesk and an academic mentoring center to help meet the educational needs of faculty and students, and to benefit the community at large.

The MARC 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 MARC. Other services are addressed on an individual basis.

The MARC offers academic mentoring for most core and developmental courses and high-need subjects in both open group sessions and appointment formats throughout the semester. Other subjects are offered based on student requests and academic mentor availability. Mentoring is available free of charge for VHCC students.

The MARC is located in the Library in LRC 233.

Information on using the MARC can be obtained from MARC personnel and at www.vhcc.edu/mentoring. The operating hours for academic mentoring in the MARC are as follows:

Monday: 8:00am - 5:00pm Tuesday: 8:00am - 5:00pm Wednesday: 8:00am - 5:00pm Thursday: 8:00am - 5:00pm Friday 9:30am - 5:00pm

Saturday, evening, and online academic mentoring hours are by appointment only. Please see the MARC Coordinator to schedule appointments.

VHCC students can access mentoring by:

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

The Learning Center follow the same schedule as the VHCC Library.

Online Learning & Instructional Technology

Online learning describes a formal instructional setting, where the student and instructor are not in the same place. In an online learning course, the majority of instruction, student to instructor and student to student interaction is achieved through electronic communication. Today, most online 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 online 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 instructional technologies to deliver online learning offerings to our students and community. When students desire maximum scheduling flexibility, VHCC offers anywhere, anytime courses online using the VCCS provided Canvas® 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 online learning students get all the assistance that they may require.

The Online Learning & Instructional Technology staff provides instructional design services, online learning related technology training, online course quality assurance monitoring and support for faculty. The Online Learning & Instructional Technology staff also provides online learning related technical support and training for students. The staff administers VHCC's implementation of the Canvas ® learning management system along with several other instructional technology related applications.

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

For more information concerning online learning or instructional technology, visit our website at www.vhcc.edu/vhcconline or contact Ken Fairbanks at 276-739-2462.

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:

- Crisis Center, Inc. Bristol, VA 24/7 Hotline: 276-466-2312. Website- www.crisiscenterinc.org (Serves City of Bristol, VA and Washington Co., VA)
- 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-<u>www.frcinc.org</u> (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 and 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				
<u></u>					
Frid	lay				
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
WXB0 (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.
- A full-time faculty or staff sponsor is designated for each student organization.
- 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.
- 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 Student Services and Enrollment Management 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.
 - 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.
- Violating any College policy, including, but not limited to the <u>Violence Prevention Policy</u> and the <u>Weapons Regulation</u>.
- 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 Student Services and Enrollment Management or designee for formal resolution. The Dean of Student Services and Enrollment Management 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 Student Services and Enrollment Management or designee shall drop the charges.

If the investigation indicates sufficient information of a policy violation, the Dean of Student Services and Enrollment Management 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 Student Services and Enrollment Management 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 Student Services and Enrollment Management 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 Student Services and Enrollment Management 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 Student Services and Enrollment Management 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.

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 online learning courses and programs. It is intended to make it easier for students to take online 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 online 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 Stated 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:

- 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.
- 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; weight and height of members of athletic teams; degrees, honors, and awards received; major field of study; dates of attendance; grade level; the most recent educational agency or institution attended; and number of credit hours enrolled, photos. 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.

Exce

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 lowincome 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

Virginia Highlands Community College has collaborated with Parchment to manage the ordering, processing, and secure delivery of official student transcripts in an electronic or paper format. All requests for official transcripts are required to come through Parchment. You should check to make sure your grades are posted and/or graduation credentials have posted, if applicable, before ordering your transcript. Any holds or financial obligation to the College must be cleared before transcript requests are processed.

Official transcripts of coursework completed at VHCC may be requested online: www.vhcc.edu/transcripts

Parchment charges a fee of \$3.00 for each digital transcript and \$5.50 for each paper transcript.

Unofficial transcript of coursework completed at VHCC may be obtained through accessing MyVHCC. If assistance is needed contact the VHCC Helpdesk at helpdesk@vhcc.edu or 276-739-2500. Students who have outstanding financial obligations with the VHCC Business Office, Bookstore or Library are not permitted to register for classes or obtain official transcripts until their accounts have been paid in full.

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.yhcc.edu/yeterans.

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.

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.

Veteran's Institutional Grievance Procedure

The Virginia State Approving Agency (SAA), is the approving authority of education and training programs for Virginia. This office investigates complaints of GI Bill beneficiaries. While most complaints should initially follow the school grievance policy, if the situation cannot be resolved at the school, the beneficiary should contact their office via email, saa@dvs.virginia.gov.

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 journeyperson 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:

- Be a U.S. citizen or an eligible noncitizen; Have financial need;
- Be admitted to, and pursuing, an eligible degree or certificate program;
- Have a high school diploma or a General Education Development (GED) certificate;
- 4. Have a valid Social Security number;
- 5. Meet satisfactory academic progress;
- 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;
- 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 preapproved 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

<u>Cumulative GPA Requirements (GPA Rule)</u>: 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 preapproved 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) must be returned. The determination is based on calendar days.

Withdrawal Date for a Student Receiving Title IV AidTo 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;
- 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 computerassisted 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 2020-2021 award year will be \$6195 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 \$600 to 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 \sim see funding guidelines below) Renewal students must maintain a 2.75 and continuous full-time enrollment of at least 12 credits. The Scholarship will only pay up to 12 hours of tuition each semester.

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 The criteria for the Tobacco Grant has changed. Please see the requirements by visiting the Virginia Tobacco Commission Program website.

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.

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

Parking Fee: A Parking fee (\$1 per credit hour) is required of all students registered for credit classes. The fee is used to make needed repairs to parking lots and parking lot lighting.

General:

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 are expected to pay fines for lost library items, 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:

- 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;
- 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

- 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.
 - 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 <u>Code of Virginia</u>, 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 <u>Code of Virginia</u>, 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)

 General. The 2019-20 tuition rate listed below is effective Fall 2019. Current tuition rates will be published on the VHCC website at www.vhcc.edu/tuition. Subject to change by the State Board for Community Colleges.

Tuition Rate Per Credit Hour

Virginia Resident	\$157.00
Out-of-State Resident	\$357.10
30-Mile Radius	\$157.00

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.

 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.
 - 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 2019-20

In-State students

Total	\$13.530
Tuition and Fees	\$ 3,930
Transportation	\$ 3,400
Room and Board	\$3,200
Personal/Miscellaneous	\$ 1,800
Books and Supplies	\$ 1,200

Out of State students

Total	\$19 735
Tuition and Fees	\$10,155
Transportation	\$3,380
Room and Board	\$3,200
Personal/Miscellaneous	\$1,800
Books and Supplies	\$1,200

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-Glbill1) 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.
- 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.



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.

Chapter 31/Chapter 33 Fee Deferment Policy

If a student wishes to use Chapter 31 or Chapter 33 the University will defer students' semester charges. These semester charges will be deferred a minimum of 90 days from the tuition deadline. Charges not covered by the VA must be paid by the tuition deadline to prevent penalty fees. Penalties will not be imposed on charges covered by the VA, but may be imposed on charges that are past due and not covered by the VA.

Fall deferment ends November 21 Spring deferment ends April 11

Summer deferment ends October 5

Veterans Access, Choice, and Accountability Act of 2014 (As Amended by Public Law 114-315) and Title 38, U.S.C Section 3679(c)

The following individuals shall be charged the in-state rate, or otherwise considered a resident, for tuition purposes:

• A Veteran using educational assistance under either chapter 30 (Montgomery G.I. Bill – Active Duty Program) or chapter 33 (Post9/11 G.I. Bill), of title 38, United States Code, who lives in the Commonwealth of Virginia while attending a school located in the Commonwealth of Virginia (regardless of his/her formal State of residence) and enrolls in the school within three years of discharge from a period of active duty service of 90 days or more.

- Anyone using transferred Post-9/11 GI Bill benefits (38 U.S.C. § 3319) who lives in the Commonwealth of Virginia while attending a school located in the Commonwealth of Virginia (regardless of his/her formal State of residence) and enrolls in the school within three years of discharge from a period of active duty service of 90 days or more.
- Anyone using transferred Post-9/11 GI Bill benefits (38 U.S.C. § 3319) who lives in the Commonwealth of Virginia while attending a school located in the Commonwealth of Virginia (regardless of his/her formal State of residence) and the transferor is a member of the uniformed service who is serving on active duty.
- A spouse or child using benefits under the Marine Gunnery Sergeant John David Fry Scholarship (38 U.S.C. § 3311(b)(9)) who lives in the Commonwealth of Virginia while attending a school located in the Commonwealth of Virginia (regardless of his/her formal State of residence).
- An individual using educational assistance under chapter 31, Vocational Rehabilitation and Employment (VR&E) who lives in the Commonwealth of Virginia while attending a school located in the Commonwealth of Virginia (regardless of his/her formal State of residence) effective for courses, semesters, or terms beginning after March 1, 2019.
- Anyone described above while he or she remains continuously enrolled (other than during regularly scheduled breaks between courses, semesters, or terms) at the same institution. The person so described must have enrolled in the institution prior to the expiration of the three-year period following discharge or release as described above and must be using educational benefits under either chapter 30, chapter

EXPLANATION OF DEGREES/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 www.vccs.edu/students/transfers 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 Natural Resources

Certificate (C)

General Education

Career Studies Certificate (CSC)

Applied Music

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

The State Council of Higher Education for Virginia (SCHEV) has updated its general education requirements. The current outcomes are currently in development by Virginia Highlands Community College. The outcomes will be included in a catalog addendum once they are approved by SCHEV.

VHCC degree graduates will demonstrate competency in the following general education areas:

1. Civic Engagement

Civic Engagement is the ability to contribute to the civic life and well-being of local, national, and global communities as both as social responsibility and a life-long learning process. Degree graduates will demonstrate the knowledge and civic values necessary to become informed and contributing participants in a democratic society.

2. Critical Thinking

Critical Thinking is the ability to use information, ideas and arguments from relevant perspectives to make sense of complex issues and solve problems. Degree graduates will locate, evaluate, interpret, and combine information to reach well-reasoned conclusions or solutions.

3. Professional Readiness

Professional Readiness is the ability to work well with others and display situationally and culturally appropriate demeanor and behavior. Degree graduates will demonstrate skills important for successful transition into the workplace and pursuit of further education.

4. Quantitative Literacy

Quantitative Literacy is the ability to perform accurate calculations, interpret quantitative information, apply and analyze relevant numerical data, and use results to support conclusions. Degree graduates will calculate, interpret, and use numerical and quantitative information in a variety of settings.

5. Scientific Literacy

Scientific Literacy is the ability to apply the scientific method and related concepts and principles to make informed decisions and engage with issues related to the natural, physical, and social world. Degree graduates will recognize and know how to us the scientific method, and to evaluate empirical information.

6. Written Communication

Written Communication is the ability to develop, convey, and exchange ideas in writing, as appropriate to a given context and audience. Degree graduates will express themselves effectively in a variety of written forms.



<u>Table 5-1</u> <u>Minimum Requirements for</u> <u>Associate Degrees in the VCCS</u>

			nimum lester H		edits	
General Education:	(1) <u>AA</u>	(2) <u>AS</u>	(3) <u>AA&S</u>	(4) <u>AFA</u>	(5) <u>AAA</u> <u>AAS</u>	<u>′</u>
Communication	6	6	6	6	3-6 3-6	
Humanities / Fine Arts Foreign Language	6	6		3-9 ^(b)	-	
(Intermediate Level)	6	0	0	0	0	
Social / Behavioral Sciences	9	9(a)	9	0 ,	3-6	
Natural Sciences /	7-8	7-8	7-8	4	0	
Mathematics	3-6	3-6	3-6	3	0	} 3-6
Total for General Education = As specified above, degree programs must contain a minimum of 15 semester hours of general education as defined by SACSCOC. Other Requirements for Associate Degrees:	37-41	31-35	31-35	19-28	15	
Student Development	1-2	1-2	1-2	1-2	1-2	
Major field courses and electives (columns 1-4) Career/technical courses (column 5)	14-22	20-28	20-28	34-43	43-53	}
Total for Degree =	60-63	 60-63	60-63	60-63	60-69)

Notes:

^(a) Only 6 semester hours of social/behavioral sciences are required for engineering majors who plan to transfer to a baccalaureate degree engineering program that requires 6 or fewer hours in this category, provided that the college/university publishes such requirements in its transfer guide.

^(b) One course in humanities/fine arts for the Fine Arts major must be a literature course.

General Education Courses

General Education Courses for Associate of Applied Science Degrees, 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 221-222 Music History 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

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

 $\ensuremath{\mathsf{BIO}}$ 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

CST 100 Principles of Public Speaking

ITE 115 Introduction to Computer Applications and Concepts

ITE 119 Information Literacy

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 221-222 Music History 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

Mathematics

MTH 154 Quantitative Reasoning

MTH 155 Statistical Reasoning

MTH 161-162 PrecalculusI-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

MTH 288 Discrete Mathematics

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.

^{**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.

^{**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.

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

HLT 228 Principles of Public Health

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

CSC 200 Introduction to Computer Science

CSC 201 Computer Science I

CSC 202 Computer Science II

CST 100 Principles of Public Speaking

ENG 211 Creative Writing

ITE 115 Introduction to Computer Applications and Concepts

ITE 119 Information Literacy

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. Additionally by the nature of the course description and by the nature of the General Studies degree, performance-based courses will not be substituted for general education electives in the General Studies degree. Performance-based courses include the following courses: ART 121, ART 125, ART 131, ART 134, CST 131, CST 136, CST 145, CST 132, MUS 131, MUS 132, MUS 141, MUS 147, MUS 150, MUS 163, and MUS 249.



Approved TransferVA Passport Course Roster (October, 2019)

Select one course from each Block of courses.

Block I

• ENG 111 - College Composition I

Block II

- ART 101 History and Appreciation of Art I
- ART 102 History and Appreciation of Art II
- ART 201 History of Art I
- ART 202 History of Art II
- HIS 111 History of World Civilization I
- HIS 112 History of World Civilization II
- HIS 121 United States History I
- HIS 122 United States History II

Block III

- ECO 201 Principles of Macroeconomics
- PLS 135 American National Politics
- PLS 211 U.S. Government I
- PSY 200 Principles of Psychology
- SOC 211 Principles of Anthropology I

Block IV

- BIO 101 General Biology I
- CHM 101 Introductory Chemistry I
- CHM 111 General Chemistry I

Block V

- A. Quantitative/Statistics Pathway
 - MTH 154 Quantitative Reasoning
 - MTH 155 Statistical Reasoning
 - MTH 245 Statistics I
- B. Calculus Pathway
 - MTH 161/162 Precalculus I/ Precalculus II
 - MTH 167 Precalculus with Trigonometry
 - MTH 245 Statistics I
 - MTH 261 Applied Calculus I
 - MTH 263/264 Calculus I/Calculus II

* MTH 161/162 and 167 should only be taken by students preparing for calculus or for four-year degree programs that require study in College Algebra/Precalculus. Precalculus may not satisfy general education and may not receive transfer credit.

James Madison University does not accept ENG 111 toward satisfaction of general education requirements.

Christopher Newport University does not accept MTH 154 toward satisfaction of general education requirements.

The College of William & Mary does not have a college-wide general education composition requirement. ENG 111 will not count toward satisfaction of general education requirements but students will receive generalized credit for the course.

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 **one-year certificate programs and one-year or less career studies 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. Some 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

Career Studies Certificate (CSC)

Agricultural Management Horticulture Production

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

Management

Certificate (C)

Accounting and Information Systems Technology

Clerical Studies

Health Information Management

Supervision and Management

Career Studies Certificate (CSC)

Culinary Arts

Industrial Supervision

Medical Coding Specialist

Retail Management

Small Business Management

Teleservices

HEALTH TECHNOLOGY

Associate of Applied Science (AAS)

Emergency Medical Services Technology*

Nursing

Nursing - LPN to RN Transition Program

Radiography*

*In cooperation with Southwest Virginia Community College

Certificate (C)

Health Sciences

Practical Nursing

Career Studies Certificate (CSC)

Advanced Emergency Medical Technician

Computerized Tomography

Dental Assisting

Emergency Medical Technician

Emergency Medical Technician - Plus

Intermediate to Paramedic Bridge

Medical Assisting

Nurse Aide

Other Programs

Mammography Advanced Studies

Pharmacy Technician

INDUSTRIAL TECHNOLOGY

Associate of Applied Science (AAS)

Air Conditioning, Refrigeration, and Heating

Computer Numerical Control Machine Operations

Electrical Technology

Electrical Technology – Specialization in Mechatronics

Electrical Technology - Specialization in Energy Technology

Technical Studies

Certificate (C)

Computer Numerical Control Machine Operations

Electricity

Solar Energy Technology

Career Studies Certificate (CSC)

Advanced Mechatronics

Advanced Practical Electrical Technician

Advanced Precision Machining

Advanced Welding

Applied Mechatronics

Automotive Technology (WCCTEC)

Commercial Refrigeration

Diesel Mechanic

Industrial Electricity

Practical Electrical Technician

Precision Machining

Refrigeration

Welding

INFORMATION TECHNOLOGY

Associate of Applied Science (AAS)

Information Systems Technology

Information Systems Technology - Specialization in Networking

Certificate (C)

Networking A+

Web Programming and Design

Career Studies Certificate (CSC)

CISCO Networking and A+

Computer Programming

Cyber Security

Database Security and Design

Networking Fundamentals I

Networking Fundamentals II

Software Applications Specialist

Small Unmanned Aerial Systems (sUAS)

User Support Specialist

Web Design and Development

PUBLIC SERVICE TECHNOLOGY

Associate of Applied Science (AAS)

Administration of Justice

Human Services

Certificate (C)

Human Services Advocate

Career Studies Certificate (CSC)

Advanced Early Childhood Education

American Sign Language

Child Development

Corrections

Early Childhood Education

Fire Science Technology

Foundations of Criminal Justice

Law Enforcement

Substance Abuse Counselor-Assistant

WORKFORCE DEVELOPMENT & CONTINUING EDUCATION

Non-Credit Programs

Certified Billing & Coding Specialist

Certified Production Technician

Commercial Driver's License Program

Nurse Aide

Phlebotomy Technician Program

Photovoltaic - Entry Level

Remote Airman Training

Six Sigma Green Belt

Six Sigma Yellow Belt

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.



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 Seme	First Semester (Fall)							
ENG 111	College Composition I	3	0	3				
MTH	MTH 161 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 Ser	mester (Spring)							
ENG 112	College Composition II	3	0	3				
MTH	MTH 162, 245, 261, 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 Sem	ester (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 Ser	mester (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 Mini	mum Credits for AA&S Degree			61

Students are urged to follow the <u>recommended pathway</u> 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 Semest	er (Fall)			
ENG 111	College Composition I	3	0	3
MTH	MTH 161 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 Sem	ester (Spring)			
ENG 112	College Composition II	3	0	3
MTH	MTH 162, 245, 261, or 264	3	0	3
ACC 212	Principles of Accounting II	4	0	4
ITP 100	Software Design	3	0	3
	Total	13	0	13

Course Number	Course Title	Lecture Hours	Lab Hours	Credits
Third Seme	hird Semester (Fall) IS History 101, 111 or 121 3 0 3 CO 201 Principles of Economics I 3 0 3 NG Literature 241, 243, or Humanities Elective IN Natural Science (BIO, CHM, GOL, or PHY) 3 3 4 P 120 Java Programming I 4 0 4 Total 16 3 17 Purth Semester (Spring) IS History 102, 112 or 122 3 0 3 CO 202 Principles of Economics II 3 0 3 NG Literature 242, 244, or Humanities Elective Solution Seminor II 3 0 3 CO 202 Principles of Economics II 3 0 3 CO 203 Elective			
HIS	History 101, 111 or 121	3	0	3
ECO 201	Principles of Economics I	3	0	3
ENG		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 Sem	ester (Spring)			
HIS	History 102, 112 or 122	3	0	3
ECO 202	Principles of Economics II	3	0	3
ENG		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 Minim	num Credits for AA&S Degree			61

Students are urged to follow the <u>recommended pathway</u> 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: Will Galliher • LRC 216 • 276-739-2416 **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 preprofessional 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 Semeste	er (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 Seme	ester (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 Semes	ter (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	Intro. to Computer Applications &	3	0	3
119	Concepts or Information Literacy			
	Total	15	3	16
Fourth Seme	ster (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 Minim	um Credits for AA&S Degree			60

Students are urged to follow the <u>recommended pathway</u> 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.



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 preprofessional 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	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 Semeste	er (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 Semes	ter (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 Seme	ester (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 Minim	um Credits for AA&S Degree			61

Students are urged to follow the <u>recommended pathway</u> 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.



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: Mary Munsey • MEC 114 • 276-739-2454 **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 preprofessional degrees.

Course Number	Course Title	Lecture Hours	Lab Hours	Credits
First Semeste	r (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 Semest	ter (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 Semeste	r (Fall)			
CST 100	Principles of Public Speaking	3	0	3
HIS	History of Western Civilization 101 or 102	3	0	3
EEE	Elective	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 Semest	er (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
EDU 200	Introduction to the Teaching Profession	3	0	3
ENG	Literature 241, 242, 243 or 244	3	0	3
	Total	15	3	16
Total Minimun	n Credits for AA&S Degree			61

Students are urged to follow the <u>recommended pathway</u> 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.



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 preprofessional 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 Semes	ter (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 Sem	nester (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 Sen	nester (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 Se	mester (Spring)			
EEE	Humanities Elective	3	0	3
SCI	Natural Science (BIO, CHM, GOL, or PHY)	3	3	4
CST 147	Costume Construction (Taught in even years)	2	2	3
CST 136	Theatre Workshop	0	3	1
EEE	Social Science Elective	3	0	3
	Total	11	8	14
Total Min	imum Credits for AA&S Degree			60

Students are urged to follow the <u>recommended pathway</u> 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.



General Studies

Associate of Arts and Sciences Degree

Program Coordinator: Judy Miller • LRC 220 • 276-739-2551 **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 vear 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 Semeste	r (Fall)			
ENG 111	College Composition I	3	0	3
HIS	History 101, 111 or 121	3	0	3
MTH	Mathematics	3	0	3
SCI	Natural Science (BIO, CHM, GOL, PHY)	3	3	4
SDV 101	Orientation to College Success	1	0	1
EEE	Transfer Elective	3	0	3
	Total	16	3	17
Second Semes	ster (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, CHM, GOL, PHY)	3	3	4
EEE	Transfer Elective	3	0	3
	Total	15	3	16

Course Number	Course Title	Lecture Hours	Lab Hours	Credits
Third Semest	er (Fall)			
HUM/FA	Humanities Elective	3	0	3
EEE	Transfer Elective	3	0	3
SSE	Social Sciences Elective	3	0	3
EEE	Transfer Elective	3	0	3
EEE	Transfer Elective	3	0	3
	Total	15	0	15
Fourth Semes	ster (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 Minimu	ım Credits for 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, or Sociology/Psychology 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: Julie Little • OTC 104 • 276-739-2516 **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 Semeste	r (Fall)			
ENG 111	College Composition I	3	0	3
HIS	History 101, 111 or 121	3	0	3
MTH	MTH 161 or 263	3-4	0	3-4
SCI	Natural Science (BIO, CHM, GOL, PHY)	3	3	4
SDV 101	Orientation to College Success	1	0	1
	Total	13-14	3	14-15
Second Semes	ster (Spring)			
ENG 112	College Composition II	3	0	3
HIS	History 102, 112 or 122	3	0	3
MTH	MTH 162, 261, 245, or 264	3-4	0	3-4
SCI	Natural Science (BIO, CHM, GOL, PHY)	3	3	4
	Total	12-13	3	13-14

SCI 299*	MTH, PHY) Science Supervised Study Total	1 16	0 3-6	1 17-18
SCI 299*	, ,	1	0	1
	MTH, PHY)			
	Engineering Transfer Elective (BIO, CHM, EGR, GOL,			
SCI	Science, Mathematics, or	3	3	4
EEE	Transfer Elective	3	0	3
ITE or ITP	Information Technology Course	3	0-3	3-4
EEE	Transfer Elective	3	0	3
ENG	Literature or Humanities Elective	3	0	3
Fourth Seme	ster (Spring)			
	Total	15	3	16
CST 100	Elective (BIO, CHM, EGR, GOL, MTH, PHY) Principles of Public Speaking	3	0	3
SCI	Natural Science, Mathematics, or Engineering Transfer	3	3	4
MTH	Mathematics	3	0	3
EEE	Social Science Elective	3	0	3
ENG	Literature or Humanities Elective	3	0	3
Third Semes	ter (Fall)			
Course Number	Course Title	Lecture Hours	Lab Hours	Credits

^{*} Science Supervised Study is the LearningPLUS+ degree capstone course. Students in the science degree will work with their faculty advisor to select from AGR BIO, CHM, EGR, GOL, HRT, MTH, and PHY for their supervised study experience.

Students are urged to follow the <u>recommended pathway</u> 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: Brian Hale • LRC 217• 276-739-2456

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.

Course Number	Course Title	Lecture Hours	Lab Hours	Credits
First Semest	er (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
EGR 121	Fundamentals of Engineering	2	0	2
CHM 111	College Chemistry I	3	3	4
SDV 101	Orientation to College Success	1	0	1
	Total	16	3	17
Second Sem	ester (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
HUM EEE	Humanities Elective	3	0	3
EGR 122	Engineering Design	2	2	3
	Total	15	2	16
Third Semes	ster (Fall)			
MTH 266	Linear Algebra	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 140	Engineering Mechanics – Statics	3	0	3
	Total	17	3	18
Fourth Seme	ester (Spring)			
ENG	Literature or Humanities Elective	3	0	3
EGR 245	Engineering Mechanics - Dynamics	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 299	Supervised Study	1	0	1
	Total	16	3	17
Total Minimum Credits for the AA&S Degree				68

Students are urged to follow the <u>recommended pathway</u> 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.



Science – Specialization in Natural Resources

Associate of Arts and Sciences Degree

Program Coordinator: Ben Casteel • OTC 214 • 276-739-2441

Length: Four semesters (two years)

Course Number	Course Title	Lecture Hours	Lab Hours	Credits
First Seme	ester (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/Agriculture Elective	2	2	3
SDV 101	Orientation to College Success	1	0	1
	Total	15	5	17
Second Sen	nester (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/Agriculture Elective	2	2	3
	Total	11	5	13
Third Seme	ester (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/Agriculture Elective	2	2	3
ITE 115 or 119	Intro. to Computer Applications & Concepts or Information Literacy	3	0	3
	Total	14	5	16
Fourth Sem	nester (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/Agriculture Elective	2	2	3
LIDT 200	Supervised Study	1	0	1
HRT 299				
HK1 299	Total	12	5	14

* Science Supervised Study is the LearningPLUS+ degree capstone course. Students in the science degree will work with their faculty advisor to select from AGR, BIO, and HRT, for their supervised study experience.

Studens are urged to follow the <u>recommended pathway</u> for this degree when making elective selections.

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

Student 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: Judy Miller • LRC 220• 276-739-2551

Length: Two Semesters (1 year)

Course Number	Course Title	Lecture Hours	Lab Hours	Credits
First Semest	er (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 Semes		16	3	17
Second Semes		16	0	17 3
	ster (Spring) Communications (ENG 112 or CST			
EEE	ster (Spring) Communications (ENG 112 or CST 100)	3	0	3
eee eee	Ster (Spring) Communications (ENG 112 or CST 100) Social Science Elective	3	0	3
EEE EEE EEE	Ster (Spring) Communications (ENG 112 or CST 100) Social Science Elective Social Science Elective	3 3 3	0 0 0	3 3 3
EEE EEE EEE	Ster (Spring) Communications (ENG 112 or CST 100) Social Science Elective Social Science Elective Humanities Elective	3 3 3 3	0 0 0 0 0	3 3 3 3

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.

Applied Music

Career Studies Certificate

Program Coordinator: Mary Munsey • MEC 114 • 276-739-2454

Length: Two Semesters (1 year)

Course Number	Course Title	Lecture Hours	Lab Hours	Credits
First Semeste	er (Fall)			
MUS 221	Music History I	3	0	3
MUS 131	Class Voice I	1	2	2
MUS 163	Guitar Theory & Practice I	2	3	3
MUS 249	Band Ensemble	0	6	2
	Total	6	11	10
Second Semes	ter (Spring)			
MUS 222	Music History II	3	0	3
MUS 132	Class Voice II	1	2	2
MUS 147	Applied Music Composition	0	3	1
MUS 141	Class Piano I	1	2	2
MUS 150	Old Time String Band	2	2	3
	Total	7	9	11
Total Credits f	for Career Studies Certificate			21

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 214 • 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	r (Fall)			
HRT 100	Intro. to Horticulture	2	2	3
HRT 205	Soils	2	2	3
HRT 246 or BIO 215	Herbaceous Plants or Plant Life of Virginia	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	0	1
	Total	12	8	16
Second Semest	er (Spring)			
HRT 245	Woody Plants	2	2	3
HRT 134	Four Seasons Food Production	2	2	3
HRT 275	Landscape Construction and Maintenance*	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	3	3
PED	Physical Education	0	2	1
	Total	0	5	4

Course Number	Course Title	Lecture Hours	Lab Hours	Credits		
Third Semest	er (Fall)					
HRT 259	Arboriculture*	2	2	3		
EEE	Social Science Elective	3	0	3		
HRT 295	Topics in	2	2	3		
BIO 101	General Biology I	3	3	4		
MTH 111	Basic Technical Mathematics	3	0	3		
	Total	13	7	16		
Fourth Semes	Fourth Semester (Spring)					
CST 100	Public Speaking	3	0	3		
HRT 115	Plant Propagation	2	2	3		
HRT 227	Professional Landscape Management	2	2	3		
EEE	Social Science Elective	3	0	3		
HRT 226	Greenhouse Management	2	2	3		
	Total	12	6	15		
Total Minimu	m 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 214 • 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 foursemester 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 Semeste	r (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	0	1
	Total	14	4	16
Second Semes	ter (Spring)			
HRT 225	Nursery and Garden Center Management	2	2	3
BUS EEE	Business/Entrepreneurship Elective	3	0	3
HRT 275	Landscape Construction and Maintenance*	2	2	3
HRT 231	Planting Design I*	2	2	3
EEE	Social Science Elective	3	0	3
	Total	12	6	15
Summer Seme	ester			
HRT 197 or 29	7 Cooperative Education	0	3	3
PED	Physical Education	0	2	1
	Total	0	5	4

Course Number	Course Title	Lecture Hours	Lab Hours	Credits
Third Semeste	er (Fall)			
CST 100	Principles of Public Speaking	3	0	3
MTH 111	Basic Technical Mathematics	3	0	3
HRT 246 or BI 215	O Herbaceous Plants or Plant Life of VA	2	2-3	3
BIO 101	General Biology	3	3	4
HRT 259	Arboriculture	2	2	3
	Total	13	7-8	16
Fourth Semes	ter (Spring)			
MKT 100	Principles of Marketing	3	0	3
HRT 245	Woody Plants	2	2	3
HRT 226	Greenhouse Management	2	2	3
EEE	Humanities Elective	3	0	3
HRT 227	Professional Landscape Management	2	2	3
	Total	12	6	15
Total Minimu	m Credits for AAS Degree			66

^{*}Denotes a course with an industry-recognized credential.

Students are urged to follow the <u>recommended pathway</u> for this degree when choosing electives.

Agriculture Management

Career Studies Certificate

Program Coordinator: Ben Casteel • OTC 214 • 276-739-2441

Length: Two semesters (one year)

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	c Course Title	Lecture Hours	Lab Hours	Credits
AGR 141 (Fall)	Introduction to Animal Science and Technology	3	2	4
AGR 142 (Fall)	Introduction to Plant Science and Technology	2	2	3
AGR 143 (Spring)	Introduction to Agribusiness and Financial Management	2	2	3
AGR 144 (Spring)	Agriculture Human Resource Management	3	0	3
HRT 205 (Fall)	Soils	2	2	3
HRT 207 (Fall)	Plant Pest Management*	2	2	3
Total Credits for Career Studies Certificate 14 10 19				

Horticulture Production

Career Studies Certificate

Program Coordinator: Ben Casteel • OTC 214 • 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
HRT 207	Plant Pest Management*	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 Credits fo	r Career Studies Certificate	12	13	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
First Semest	er (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

Course Number	Course Title	Lecture Hours	Lab Hours	Credits
Second Seme	ester (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 Semes	ter (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
ACC 261	Principles of Federal Taxation I	3	0	3
	Total	16	0	16
Fourth Seme	ster (Spring)			
ACC 222	Intermediate Accounting II	4	0	4
PSY 200	Principles of Psychology	3	0	3
FIN 215	Financial Management	3	0	3
BUS 225	¹ 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 Minim	um Credits for AAS Degree			67

Footnote:

¹Prerequisite: Math 132.

Students are urged to follow the <u>recommended pathway</u> for this degree when choosing electives.



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
First Semest	er (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 Seme	ester (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

Course Number	Course Title	Lecture Hours	Lab Hours	Credits
Third Semes	ster (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 Seme	ester (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 290	Coordinated Internship	3	0	3
	Total	16	0	16
Total Minim	um Credits for AAS Degree			67

Footnote:

¹Prerequisite: MTH 132.

Students are urged to follow the <u>recommended pathway</u> for this degree when choosing electives.



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 Semest	ter (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 Sem	ester (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 for Certificate				34

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 Semes	ter (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 Sem	nester (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 Minin	num Credits for Certificate			35

Footnotes:

¹Prerequisite: MTH 132.

²Psychology 200 may substitute for PSY 120.



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 Credits	for Career Studies Certificate	11	3	12

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 Credits	for Career Studies Certificate	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 Credits for	Career Studies Certificate	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.

		e v	s	S
Course Number	Course Title	Lecture Hours	Lab Hours	Credits
First Semes	ster			
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 Sen	nester			
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 Credi	ts for Career Studies Certificate			24



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 Semeste	er (Fall)			
ENG 111	College Composition I	3	0	3
SDV 101	Orientation to College Success	1	0	1
AST 101	Keyboarding I ¹	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 Semes	ster (Spring)				
AST 102	Keyboarding II ²	4	0	4	
AST 171	Intro. To Call Center Services	3	0	3	
AST 141	Word Processing I ²	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 Semest	er (Fall)				
AST 136	Office Record Keeping	3	0	3	
AST 205	Business Communications	3	0	3	
AST 238	Word Processing Advanced Operations ³	3	0	3	
AST 232	Microcomputer Office Applications ²	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 Semes	ster (Spring)				
BUS 241	Business Law I	3	0	3	
AST 236	Specialized Software Applications ⁴	3	0	3	
AST 243	Office Administration I ⁵	3	0	3	
AST 206	Professional Development	3	0	3	
EEE	Humanities Elective	3	0	3	
	Total	15	0	15	
Total Minimu	Total Minimum Credits for AAS Degree				

Footnotes:

¹Students 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 <u>recommended pathway</u> for this degree when choosing electives.

²Prerequisite- AST 101.

³Prerequisite- AST 141.

⁴Prerequisite- AST 141. Additional recommended prerequisite- AST 238.*

 $^{^5.}$ Prerequisite- AST 141. Additional recommended prerequisites- AST 137, AST 238, and AST 232. *

^{*}Exceptions can be granted with faculty or division approval.



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
First Semeste	er (Fall)			
ENG 111	College Composition I	3	0	3
SDV 101	Orientation to College Success	1	0	1
AST 101	Keyboarding I ¹	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

Course Number	Course Title	Lecture Hours	Lab Hours	Credits
Second Seme	ster (Spring)			
AST 102	Keyboarding II ²	4	0	4
AST 137	Records Management	3	0	3
LGL EEE	LGL Elective	3	0	3
AST 141	Word Processing I ²	3	0	3
EEE	Social Science Elective	3	0	3
	Total	16	0	16
Third Semest	er (Fall)			
AST 154	Voice Recognition Applications	2	0	2
AST 232	Microcomputer Office Applications ²	3	0	3
AST 230	Intro. To Office Technology	3	0	3
AST 136	Office Record Keeping ³	3	0	3
AST 205	Business Communications	3	0	3
AST 238	Word Processing Advanced Operations ⁴	3	0	3
	Total	17	0	17
Fourth Semes	ster (Spring)			
AST 236	Specialized Software Applications ⁵	3	0	3
EEE	Social Science Elective	3	0	3
AST 243	Office Administration ⁶	3	0	3
AST 206	Professional Development	3	0	3
EEE	Humanities Elective	3	0	3
LGL EEE	LGL Elective	3	0	3
	Total	18	0	18
Total Minimu	m Credits for AAS Degree			68

Footnotes

¹Students who pass the Keyboarding Exemption Test will be granted credit for this course. Testing date is published in the <u>class schedule</u>.

³ACC 211 should be taken in place of AST 136 if you intend to transfer.

 $^5\mathrm{Prerequisite}\textsc{-}$ AST 141. Additional recommended prerequisite- AST 238.*

 $^6\mathrm{Prerequisite}\textsc{-}$ AST 141. Additional recommended prerequisites- AST 137, AST 238, and AST 232. *

Students are urged to follow the <u>recommended pathway</u> for this degree when choosing electives.

²Prerequisite- AST 101.

⁴Prerequisite- AST 141.

^{*}Exceptions can be granted with faculty or division approval.



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 Semest	er (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 Sem	ester (Spring)			
AST 102	Keyboarding II ²	4	0	4
AST 137	Records Management	3	0	3
MTH 132	Business Mathematics	3	0	3
AST 141	Word Processing I ²	3	0	3
AST 176	Medical Office/Unit Management	3	0	3
	Total	16	0	16
Third Seme:	ster (Fall)			
AST 232	Microcomputer Office Applications ²	3	0	3
AST 154	Voice Recognition Applications	2	0	2
AST 230	Intro. To Office Technology	3	0	3
AST 136	Office Record Keeping Business	3	0	3
AST 205	Communications	3	0	3
AST 238	Word Processing Advanced	3	0	3
	Operations ³			
	Total	17	0	17
Fourth Sem	ester (Spring)			
EEE	Social Science Elective	3	0	3
AST 236	Specialized Software Applications ⁴	3	0	3
EEE	Social Science Elective	3	0	3
AST 243	Office Administration I ⁵	3	0	3
AST 206	Professional Development	3	0	3
AST 271	Medical Office Procedures I	3	0	3
	Total	18	0	18
Total Minim	um Credits for AAS Degree			68

Footnotes:

¹Students who pass the Keyboarding Exemption Test will be granted credit for this course. Testing date is published in the <u>class schedule</u>.

Students are urged to follow the <u>recommended pathway</u> for this degree when choosing electives

²Prerequisite: AST 101.

³Prerequisite: AST 141.

⁴Prerequisite: AST 141. Additional recommended prerequisite: AST 238.*

 $^{^5\}mbox{Prerequisite}$ AST 141. Additional recommended prerequisites: AST 137, AST 238, and AST 232. *

^{*}Exceptions can be granted with faculty or division approval.



Medical Coding Specialist

Career Studies Certificate

Program Coordinator: Nan Jones • LRC 212 • 276-739-2465 **Length:** Two Semesters

Purpose: There is an increased need for qualified personnel in medical offices due to the requirements of insurance and medical agencies. 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 Office Clerk, Medical Records Worker, Medical Coder

Admissions Requirements:

- Completion of the VHCC Application
- Graduation from high school or satisfactory completion of the GED with all transcripts on file with Student Services

Program Requirements: The two-semester curriculum provides training in medical terminology, health records management, coding for health records, and health record applications.

Course Number	Course Title	Lecture Hours	Lab	Credits
First Semest	er (Fall)			
AST 101	Keyboarding I	4	0	4
AST 107	Editing & Proofreading Skills	3	0	3
HIM 113	Med. Terminology and Disease Processes I	3	0	3
HIM 253	Health Records Coding	4	0	4
	Total	14	0	14
Second Sem	ester (Spring)			
AST 271	Medical Office Procedures I	3	0	3
HIM 254	Advanced Coding and Reimbursement	4	0	4
AST 137	Records Management	3	0	3
HIM 163	Anatomy and Physiology for Administrative Health Prof.	3	0	3
	Total	13	0	13
Total Credit	s for Career Studies Certificate			27

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 Semest	er (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 Semo	ester (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 Semes	ster (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	Seminar and Project	1	0	1
MTH 132	Business Mathematics	3	0	3
	Total	14	0	14
Total Minimum Credits for Certificate 30				



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 Semest	ter (Fall)			
ENG 111	College Composition I	3	0	3
SDV 101	Orientation to College Success	1	0	1
AST 101	Keyboarding I ¹	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 Sem	ester (Spring)			
AST 102	Keyboarding II ²	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 ²	3	0	3
AST 136	Office Record Keeping	3	0	3
	Total	16	0	16
Total Minim	um Credits for Certificate			32

Footnotes:

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

²Prerequisite: AST 101.

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	Keyboarding for Information Processing ¹	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 ²	3	0	3
MKT 100	Principles of Marketing	3	0	3
AST 137	Records Management	3	0	3
Total for Ca	reer Studies Certificate	17	0	17

Footnotes:

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

²Prerequisite: AST 101 or equivalent.



Curriculum & Program Requirements

Health Technology



Emergency Medical Services Technology

Associate of Applied Science Degree

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 Paramedics who can provide the highest level of out-of-hospital care. Upon completion of the program, students will be eligible for National Registry testing and certification. This credential leads to Paramedic licensure or certification in Virginia and most other states. Employment opportunities for Paramedics are available with ambulance; fire and rescue services; hospitals; local, state and federal government agencies.

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.

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 that time the first round of students will be selected. Selection will be based on previous college coursework, entrance exam, skill assessment, 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 sore 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. 17-25.

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.

Course Number	Course Title	Lecture Hours	Lab Hours	Credits				
First Semester (Summer)								
EMS 100	¹ CPR for Healthcare Providers	1	0	1				
EMS 111	Emergency Medical Technician	5	4	7				
EMS 120	EMT - Basic Clinical	0	2	1				
BIO 145	² Human Anatomy & Physiology for Health Sciences	3	3	4				
	Total	9	9	13				
Second Sen	nester (Fall)							
SDV 101	³ College Success Skills	1	0	1				
EMS 121	Preparatory Foundations	2	0	2				
EMS 123	EMS Clinical Preparation	0	2	1				
EMS 125	Basic Pharmacology	1	0	1				
EMS 126	Basic Pharmacology Lab	0	2	1				
EMS 127	Airway, Shock and Resuscitation	1	0	1				
EMS 128	Airway, Shock and Resusc. Lab	0	2	1				
EMS 135	Emergency Medical Care	2	0	2				
EMS 136	Emergency Medical Care Lab	0	2	1				
EMS 137	Trauma Care	1	0	1				
EMS 138	Trauma Care Lab	0	2	1				
	Total	8	10	13				
	ester (Spring)							
EMS 139	Special Populations	1	0	1				
EMS 140	Special Populations Lab	0	2	1				
EMS 141	Cardiovascular Care	1	0	2				
EMS 142	Cardiovascular Care Lab	0	2	1				
EMS 175	Paramedic Clinical Experience I	0	6	2				
ENG 111	College Composition I	3	0	3				
PSY 230	⁴ Developmental Psychology	3	0	3				
	Total	8	10	13				



Course Number	Course Title	Lecture Hours	Lab Hours	Credits
Fourth Sem	ester (Fall)			
EMS 202	Paramedic Pharmacology	2	0	2
EMS 203	Advanced Patient Care	2		2
EMS 204	Advanced Patient Care Lab	0	2	2
EMS 206	Pathophysiology for Health Professions	3	0	3
EMS 247	Paramedic Clinical Experience II	0	3	1
EMS 248	Paramedic Comprehensive Field Experience	0	6	2
	Total	7	11	12
Fifth Semes	ter (Spring)			
EMS 210	EMS Operations	0	2	1
EMS 212	Leadership and Professional Development	1	0	1
EMS 165	Advanced Cardiac Life Support	1	0	1
EMS 163	Prehospital Trauma Life Support	1	0	1
EMS 167	Emergency Pediatric Care	1	0	1
EMS 164	Advanced Medical Life Support	1	0	1
EMS 216	Paramedic Review	0	2	1
EMS 249	Paramedic Capstone Internship	0	6	2
HUM	⁵ Humanities Elective	3	0	3
EEE	⁶ General Education Elective	3	0	3
	Total	11	10	15
Total Minin	num Credits for AAS Degree			66

Footnotes:

¹HLT 105 is an approved substitute.

 2 Taking both BIO 141 and BIO 142 are an approved substitute to BIO 145. Please note that students who complete BIO 141 and BIO 142 are exempt from completing the General Education Elective (3 credits) in the 5th semester (see footnote 6 below).

 $^3\mbox{SDV}$ 101 is an approved substitute.

⁴PSY 200, SOC 247, and SOC 268 are approved substitutes for PSY 230.

 $^5\mbox{Approved Humanities}$ Electives: ART 101, ENG 241, 243, 251, MUS 221, REL 230.

⁶The general education elective must be a course in one of the general education categories – communication, humanities/fine arts, social/behavioral sciences, or natural sciences/mathematics. Students who complete BIO 141 and BIO 142 in lieu of BIO 145 are exempt from the general education elective.

Please refer to Course Listings in back of catalog for all prerequisites and corequisites.



Emergency Medical Technician

Career Studies Certificate

Program Coordinator: Bill Akers, Jr., MS, NRP, Program Director

276-964-7729 • <u>bill.akers@sw.edu</u>

Length: One Semester

Offered in cooperation with Southwest Virginia Community College. Career Studies Certitificate awarded by Virginia Highlands

Community College.

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	5	4	7
EMS 120	EMT-Basic Clinical	0	2	1
HLT 105	Cardiopulmonary Resuscitation	1	0	1
	Total	6	6	9
Total Credits	for Career Studies Certificate			9



Emergency Medical Technician - Plus

Career Studies Certificate

PROGRAM CONTACT: Bill Akers, Jr., MS, NRP, Program Director

276-964-7729 • <u>bill.akers@sw.edu</u>

Length: One Semester

Offered in cooperation with Southwest Virginia Community College. Career Studies Certificate awarded by Virginia Highlands Community College.

Purpose: This Career Studies Certificate leads to entry-level employment opportunities in the field of Emergency Medical Services. This curriculum prepares students to assess and care for patients at the basic life support (BLS) level. Successful completion of required courses allows students to sit for the National Registry of EMTs Emergency Medical Technician certification exam.

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 – www.vdh.virginia.gov/oems/training.

Academic Requirements: Any student receiving a grade of less than "C" in any of the EMS 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 100	CPR for Healthcare Providers ¹	1	0	1
EMS 111	Emergency Medical Technician ²	5	4	7
EMS 120	EMT-Basic Clinical	0	2	1
ENG 111	College Composition I	3	0	3
SDV 100	College Success Skills	1	0	1
EEE	Program Elective ³	3	0	3
	Total	13	6	16
Total Credits	for Career Studies Certificate			16

Footnotes:

¹HLT 105 is an approved substitute.

 $^{^2{\}rm The}$ combination of EMS 112 and 113 (Seven credits total) may be substituted for EMS 111.

³Select from ENG 112, PSY 200 or PSY 230



Advanced Emergency Medical Technician

Career Studies Certificate

Program Coordinator: Bill Akers, Jr., MS, NRP, Program Director

276-964-7729 • bill.akers@sw.edu

Length: Two semesters

Offered in cooperation with Southwest Virginia Community College. Career Studies Certificate awarded by Virginia Highlands Community College.

Purpose: This Career Studies Certificate leads to intermediate level employment opportunities in the field of Emergency Medical Services. This curriculum prepares students to provide entry-level advanced life support (ALS) measures. Successful completion of required courses allows students to sit for the National Registry of EMTs Advanced Emergency Medical Technician certification exam.

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 Advanced EMT;
- Technical proficiency in all skills necessary to fulfill the role of an entry-level Advanced EMT; and
- Personal behaviors consistent with professional and employer expectations for the entry-level Advanced EMT.

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:

- 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:

- Submit a college admission application.
- 2. Submit an application to the program (separate document) with required attachments.
- 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 that time the first round of students will be selected. Selection will be based on previous college coursework, entrance exam, skill assessment, 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 sore 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. 17-25.

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.

Course Number	Course Title	Lecture Hours	Lab Hours	Credits
First Semester				
EMS 121	Preparatory Foundations	2	0	2
EMS 123	EMS Clinical Preparation	0	2	1
EMS 125	Basic Pharmacology	1	0	1
EMS 126	Basic Pharmacology Lab	0	2	1
EMS 127	Airway, Shock and Resuscitation	1	0	1
EMS 128	Airway, Shock and Resusc. Lab	0	2	1
EMS 135	Emergency Medical Care	2	0	2
EMS 136	Emergency Medical Care Lab	0	2	1
BIO 145	Basic Human Anatomy & Physiology 1	3	3	4
	Total	9	11	14
Second Semest	er			
EMS 137	Trauma Care	1	0	1
EMS 138	Trauma Care Lab	0	2	1
EMS 175	Paramedic Clinical Experience I	0	6	2
	Total	1	8	4
Total Credits fo	r Career Studies Certificate			18

Footnote:

 $^1\mathrm{It}$ is recommended that students who are planning to transfer to another medically related program complete BIO 121-142 in lieu of BIO 145.

Please refer to Course Listings in back of catalog for all prerequisites and corequisites.



Nursing

Length:

Associate of Applied Science Degree

Program Coordinator: Beth Wright, DNP, MSN, RN Deborah Clarkston,

R.N., MSN

NEB 144 • 276-739- 2439 Five semesters (2 years)

About the Program: The Virginia Highlands Community College Nursing Program was part of the Virginia Appalachian Tricollege Nursing Program for nearly 50 years. While new as a stand-alone program the history and reputation of nursing at VHCC remains. The program follows the Virginia Community College System (VCCS) common curriculum as mandated for all VCCS nursing programs.

State Approval and Accreditation Status: The Associate degree nursing program at Virginia Highland Community College located in Abingdon, Virginia is approved by the Virginia Board of Nursing and is accredited by the Accreditation Commission for Education in Nursing (ACEN) 3390 Peachtree Road NE, Suite 1400 Atlanta, GA 30326 (404) 975-5000, www.acenursing.org/. The most recent ACEN accreditation decision made by the ACEN Board of Commissioners for the Virginia Highlands Community College Associate degree nursing program is continuing accreditation. 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, and 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 nursing program at VHCC 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 $21^{\rm st}$ century healthcare environments. Students are prepared to meet the ever-increasing complexity of the healthcare needs of the citizens of Virginia.

Student Learning Outcomes:

Client Centered Care -Provide client-centered care promoting therapeutic relationships, caring behaviors, and self-determination across the lifespan for diverse populations.

Safety-Practice safe nursing care that minimizes risk of harm across systems and client populations.

Clinical Judgement-Demonstrate nursing judgment through the use of clinical reasoning, the nursing process, and evidence-based practice in the provision of safe, quality care.

Professional Behaviors-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. **Quality Improvement-**Manage client care through quality improvement processes, information technology, and fiscal responsibility to **meet** client needs and support organizational outcomes.

Collaboration- 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 Registered Nurse (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 VHCC 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.
- 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** 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.

f. ATI TEAS math score of 45th percentile or Math score of 65%

- 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, or TEAS) with a National Percentile Rank of 45 or above prior to application. Nursing preadmission results will be accepted if completed within 5 years of applying to the nursing program.
- A 2.5 cumulative grade point average (GPA) for ENG 111, BIO 141, PSY 230, ITE 119 or ITE 115, and SDV 101. These courses must be completed prior to enrollment in nursing (NSG) classes.
- Completion of Nursing Application for each academic year interested in being considered for the Nursing Program.

Nursing program application packets will be accepted in the Admissions Office between September 1 and February 15. Students are encouraged to submit their application when they have completed the prerequisite criteria of demonstrating proficiency in Math/English/ Science and a TEAS score of 45th or higher percentile rank. At this time students, will be accepted on a contingency basis until they have completed the following courses with at least a 2.5 GPA: SDV-101, ENG 111, PSY 230, BIO 141 and ITE 115 or 119. Approved contingencies are listed with each Track below. Once this criteria has been met an official acceptance letter will be sent to the applicant. VHCC will accept students on a rolling admissions basis by evaluating completed applications and accepting students into the upcoming class as applications become complete. The priority deadline for applications is March 15. Applications will continue to be accepted after the priority deadline only if seats are available. 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, 2017 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. 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



Nursing

Associate of Applied Science Degree

Program Coordinator: Beth Wright, DNP, MSN, RN

Deborah Clarkston, R.N., MSN NEB 144 • 276-739- 2439

Length: Five semesters (2 years)

About the Program: The Virginia Highlands Community College Nursing Program was part of the Virginia Appalachian Tricollege Nursing Program for nearly 50 years. While new as a stand-alone program the history and reputation of nursing at VHCC remains. The program follows the Virginia Community College System (VCCS) common curriculum as mandated 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, and 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 nursing program at VHCC 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:

Client Centered Care -Provide client-centered care promoting therapeutic relationships, caring behaviors, and self-determination across the lifespan for diverse populations.

Safety-Practice safe nursing care that minimizes risk of harm across systems and client populations.

Clinical Judgement-Demonstrate nursing judgment through the use of clinical reasoning, the nursing process, and evidence-based practice in the provision of safe, quality care.

Professional Behaviors-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. **Quality Improvement-**Manage client care through quality improvement processes, information technology, and fiscal responsibility to **meet** client needs and support organizational outcomes.

Collaboration- 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 Registered Nurse (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 VHCC 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.
- 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 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, or TEAS) with a **National Percentile Rank** of 45 or above prior to application. Nursing preadmission results will be accepted if completed within 5 years of applying to the nursing program.
- 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.
- Completion of Nursing Application for each academic year interested in being considered for the Nursing Program.

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, 2017 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. 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 > Applications & Forms > Medical Program Applications).

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, 2017 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 VHCC Nursing Program. 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 continue in the regular sequence of course work without repeating a course in 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 VHCC Nursing Program 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 VHCC Nursing Program 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. Forms required by clinical agency
- 2. Annual Student Statement of Health Form.
- Student Information; Physical, and Immunization Forms. The physical examination form must be completed by a medical practitioner, MD, PA, or CNP.
 - a. Immunizations include tetanus, Mumps-Measles-Rubella (MMR), Varicella, and Hepatitis B.
 - b. Must be tuberculosis free proven by testing method approved by clinical agencies or chest x-ray if appropriate
 - Documentation of ability to perform physical demands required in direct patient care activities.
- Purchase a background check, drug screen, and medical document package.
- 5. Clearance of criminal background check and drug testing.
- Copy of course completion card for Cardiopulmonary Resuscitation (CPR)- 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.
- Additional annual immunization requirements: Flu immunizations are required by most healthcare agencies and are usually available in fall semester.
- 8. Proof of health insurance.

Prior to enrollment in any NSG course, the student must provide the required clinical documentation. For more information, see the VHCC nursing website at www.vhcc.edu/nursing. 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 Contact the Coordinator of the Nursing Program for clarification of specific issues.

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.
- Interpersonal abilities: Interpersonal abilities sufficient to interact with clients, families and groups from a variety of social, emotional, cultural, and intellectual backgrounds.
- Communication: Communication abilities sufficient for interaction with others in verbal and written form.
- Mobility: Physical abilities sufficient to move from room to room and maneuver in small spaces.
- 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.
- Hearing: Auditory ability sufficient to monitor and assess health needs.
- 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 VHCC Nursing Program

Student Accommodations Statement: Students admitted to the VHCC Nursing Program 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 coordinator. 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 supervise 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 (grades below C) 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. Reenrollment 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 coordinator 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 coordinator and the vice president of instruction and student services.

A student must obtain permission from the program coordinator of the VHCC Nursing Program to continue in the 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.

8 (\$70.00
Skills or TEAS)	
Uniforms/Shoes/Watch/Stethoscope	\$300.00
Standardized Progressive Testing Program	\$785.00
Textbooks/Electronic Resources	\$1600.00
CastleBranch© Criminal Background Check, Drug	\$133.00
Screen, Document Manager	

Physical Exam, Immunizations, TB test	\$250.00
CPR Certification	\$160.00
Estimated In-state Tuition 67 credit hours @ \$157.00	\$10, 519.00
per credit hour	
NCLEX-RN Application Fees	\$425.00
VHCC Nursing Program Pin (optional)	\$50.00
Transportation (to and from college and clinical	Variable
agencies)	
Health Care Insurance	Variable

These costs are estimates and are subject to change without notification to faculty or students.

Clinical Contracts: The VHCC Nursing Program 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:

- 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.
- 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.
- 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.
- 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 completion 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 VHCC Nursing Program 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 Se	ession- Year 1			
BIO 141	Human Anatomy and Physiology I	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	13	3	14
Fall Semes	ter- 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 Nursing Concepts	1	0	1
NSG 200	Health Promotion & Assessment	2	3	3
	TOTAL	9	15	14
Spring Sem	ester- Year 1			
BIO 150	Introductory 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 Semes	ter- Year 2			
ENG 112	College Composition II	3	0	3
NSG 210	Health Care Concepts I	3	6	5
NUR 211	Health Care 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	See list of approved electives. ¹	3	0	3	
	TOTAL	9	12	13	
Total Minii	mum Credits for AAS Degree			67	

Footnote:

 $^1\mathrm{Humanities}$ electives include: ART 101, ENG 241, 243, 251, MUS 121, 221, 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 VHCC Nursing Program's advance placement or "Transition Program," is designed to grant advanced placement to LPNs who have been admitted to the VHCC Nursing Program Associate Degree program and meet pre-requisite requirements.

If there is sufficient enrollment in Nursing Track 2, 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.

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.
- Applicants must have graduated from an LPN program after May 15, 2017 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 from employer at the time of application.
- 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			
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 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 Se	Summer Session - Year 1						
NSG 1151	Health Care Concepts for Transition	3	6	5			
NSG 200	Health Promotion and Assessment	2	3	3			
	Total	5	9	8			

Course Number	Course Title	Lecture Hours	Lab Hours	Credits
Fall Semes	ter - 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 Sen	nester - 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	See list of approved electives. ²	3	0	3
	Total	9	12	13
Total Mini	mum Credits for AAS Degree			56

Footnotes:

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.

 $^2\mbox{Approved Humanities Electives: ART 101, ENG 241, 243, 251 MUS 121, 221, REL 230$



Nursing Track 3: Part-time Evening/Weekend Curriculum

The VHCC Nursing Program Part-Time Evening/Weekend Track is specifically designed for working adults or other adults who are interested in becoming a RN 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 online learning. Some specialty clinical activities can only be scheduled through the week. Every effort is made to limit the frequency of this occurring. 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 Track 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-Nursin	g 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
ITE 119	Information Literacy	3	0	3
SDV 101	Orientation to College Success	1	0	1
	TOTAL	13	6	15
Summer S	emester - Year 2			
NSG 200	Health Promotion & Assessment	2	3	3
BIO 150	Introductory Microbiology	3	3	4
PSY 230	Developmental Psychology	3	0	3
	TOTAL	8	6	10
Fall Semes	ster - Year 2			
NSG 100	Introduction to Nursing Concepts	3	3	4
NSG 106	Competencies for Nursing Practice	0	6	2
NSG 130	Professional Nursing Concepts	1	0	1
	TOTAL	4	9	7
Spring Sem	ester - Year 2			
NSG 170	Health/Illness Concepts	4	6	6
NSG 152	Health Care Participant	2	3	3
	TOTAL	6	9	9
Summer Se	ession – No Scheduled Classes			
Fall Semes	ter - Year 3			
NSG 210	Health Care Concepts I	3	6	5
	TOTAL	3	6	5
Spring Sem	ester - Year 3			
NSG 211	Health Care Concepts II	3	6	5
	TOTAL	3	6	5
Summer Se	emester - Year 3			

Course Number	Course Title	Lecture Hours	Lab Hours	Credits
HUM	See list of approved electives.1	3	0	3
ENG 112	College Composition II	3	0	3
	TOTAL	6	0	6
Fall Seme	ster - Year 4			
NSG 252	Complex Health Care Concepts	4	0	4
	TOTAL	4	0	4
Spring Se	mester - Year 4			
NSG 230	Advanced Professional Nursing Concepts	2	0	2
NSG 270	Nursing Capstone	0	12	4
	TOTAL	2	12	6
Total Mini	mum Credits for AAS Degree			67

Footnote:

 $^{^1\!}Approved$ Humanities Electives: ART 101, ENG 241, 243, 251, MUS 121, 221, 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 online learning options such as web based learning. Nursing classes and clinical are taught on evenings and weekends on an extended plan. Some specialty clinical activities can only be scheduled through the week. Every effort is made to limit the frequency of this occurring. General education courses listed in Year 1 must be completed before the student will be able to begin Year 2.

Special Note: Students entering the program beginning in summer 2020 will follow the 2019-2020 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.
- Applicants must have graduated from an LPN program after May 15, 2017 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 from employer at the time of application.
- 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.

Course Number	Course Title	Lecture Hours	Lab Hours	Credits		
Summer Se	ession - Year 1					
BIO 150	Introductory Microbiology	3	3	4		
ENG 111	College Composition I	3	0	3		
ITE 119	Information Literacy	3	0	3		
SDV 101	Orientation to College Success	1	0	1		
	TOTAL	10	3	11		
Fall Semes	ter - Year 1					
BIO 141	Human Anatomy and Physiology I	3	3	4		
PSY 230	Developmental Psychology	3	0	3		
	TOTAL	6	3	7		
Spring Sen	nester - Year 1					
BIO 142	Human Anatomy and Physiology II	3	3	4		
	TOTAL	3	3	4		
Summer Se	ession - Year 2					
NSG 115	Health Care Concepts for Transition ¹	3	6	5		
	TOTAL	3	6	5		
Fall Semes	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 Sen	nester - 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 Semes	ster - 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 Sen	nester - Year 3				
NSG 252	Complex Health Care Concepts	4	0	4	
NSG 270	Nursing Capstone	0	12	4	
	TOTAL	4	12	8	
Total Mini	mum Credits for AAS Degree			56	

Footnotes:

 $^1\text{Upon}$ 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.

 $^2\mbox{Approved Humanities}$ Electives: ART 101; ENG 241, 243, 251; MUS 121, 221; REL 230



Practical Nursing

Certificate

Program Coordinator: Brigitte Casteel, RN, MSN

276-739-2482 • bcasteel@vhcc.edu

Length: Three semesters

Purpose: The 12 month certificate curriculum in practical nursing is designed to prepare selected students to qualify as contributing members of the health team providing safe and competent nursing care under the direction of registered nurses and doctors. Upon successful completion of the curriculum, students will be eligible to take the National Council Licensure Examination PN leading to licensure as a Licensed Practical Nurse (LPN).

Occupational Objective: Employment opportunities for the LPN include, but are not limited to, staff positions in hospitals, long-term care facilities, physician's offices, clinics, home health agencies, public schools, day care centers, and other health related agencies under the direction of registered nurses and doctors.

Admission Requirements: Admission to the VHCC Practical 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 healthcare team. In addition to the requirements for admission to the college, the applicant must meet the following requirements by the application deadline:

- Graduation from high school or satisfactory completion of the GED.
- Good standing with the most recently attended institution with a minimum GPA of 2.0.
- 3. Demonstrated competency in mathematics as evidenced by:

Proficiency in MTE 1-4 demonstrated by Virginia Placement Test (within the last 5 years),

 $\underline{\textit{OR}}_{\text{c}}$ completion of a college level math course (MTH 146 or higher) with grade of C or better,

OR SAT Score of 510-520/ACT Score 19-21 (within the last 5 years),

OR GED- Math score of 165 or above (within the last 5 years),

 $\underline{\textit{OR}}$ has successfully completed developmental courses (within the last 5 years),

 $\underline{\textit{OR}}$ High School GPA (HSGPA) & Algebra II, 3.0 or higher (within the last 5 years).

 Demonstrated competency in English as evidenced by: Virginia Placement Test with placement in ENG 111 (within the last 5 years),

OR Informed Self-Placement,

OR completion of an associate degree or higher,

OR completion of a college level English course with grade of C or better,

 ${\it QR}$ ACT Reading and Writing Score 18 or above (ENG 111), 15-17 (ENF 3/ENG 111), (within the last 5 years),

 ${\it QR}$ SAT Reading/Writing 480 or above (ENG 111), 460-470 (ENF3/ENG 111), (within the last 5 years),

OR GED- English score of 165 or above (within the last 5 years),

QR has successfully completed developmental courses (within the last 5 years)

OR High School GPA (HSGPA) 3.0 or higher (ENG 111), HSGPA 2.7-2.9 (ENF3/ENG 111), (within the last 5 years)

 Demonstrated competency in Biology as evidenced by completion of one unit of High School Biology or the college equivalent with a grade of "C" or better,

OR completion of BIO 145 with a grade of "C" or better,

OR completion of BIO 141 and BIO 142 with no grade below a "C".

- 6. Completion of the Test of Essential Academic Skills (TEAS) with a National Percentile Rank score of 40 or above.
- 7. A 2.0 grade point average (GPA) for high school courses** or a 2.0 curricular GPA for college coursework.

- 8. College students must be in good standing with the most recently attended institution with a minimum GPA of 2.0.
- 9. Completion of Practical Nursing Application for each academic year interested in being considered.

Application: Practical nursing program application packets will be accepted in the Admissions Office through the posted deadline each year. Packets must include official high school transcripts, all college transcripts; GED test scores (if applicable), and TEAS test results.

Once a packet is submitted, additional documentation will not be accepted. If not all transcripts are included, the Admissions Office will suspend processing an application.

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 Practical Nursing Application.

All prerequisites (general biology, English and math proficiency) must be met and all documents submitted by the application deadline.

Further details of the application process can be found at www.vhcc.edu/medapp (click Future Students > Admissions > Applications & Forms > Medical Program Applications).

Out-of-region applicants will only be considered for openings in the practical nursing program after all qualified in-region applicants are considered (see VHCC Student Handbook, 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.

Program Requirements: Prior to enrollment in any PNE course, the student must provide the following documentation:

- 1. Required Student Forms.
- 2. Annual Student Statement of Health Form
- 3. Student Information, Physical, Immunization Forms.
- a. A 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.
- 4. Purchase a background check, drug screen, and medical document package.
- 5. Clearance of criminal background check and drug testing.
- 6. 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 PNE courses and maintained throughout the program.
- 7. Additional annual immunization requirements: Flu immunizations are required by most healthcare agencies and are usually available in fall semester.

The cost of these requirements is the responsibility of the student.

Special Note: 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.

Physical Demands: Program activities 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. Duties also



require constant use of acute sense of sight, hearing, touch, and speech. Environmental conditions include procedures that involve handling blood and body fluids using universal precautions.

Course Requirements: The student is required to complete a sequence of courses and learning experiences provided at the college and selected community agencies such as hospitals, long-term care facilities, clinics, physicians' offices and comparable facilities. The practical nursing faculty will observe and evaluate the student's suitability for nursing and direct patient care.

Students must complete all courses sequentially as listed in the curriculum. 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 requirements is a prerequisite for continuing in the nursing program.

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: Students must earn a minimum grade of "C" in all required courses and maintain a minimum cumulative GPA of 2.0 to remain eligible for continued enrollment in the nursing program. 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.

A student must obtain permission from the Dean of Nursing and Allied Health to continue in the Practical Nursing Program under the following conditions:

- 1. Repeating a course with a grade below "C"
- 2. Withdrawal from a nursing course
- 3. Cumulative GPA below 2.0.

Reapplication/Readmission Requirements: Students who are not successful in the first practical nursing course, PNE 161, must reapply to the program. A new practical nursing program application packet must be submitted by the application deadline.

A student who wishes to reenter the practical nursing curriculum at any other level must write a letter to the program coordinator and the dean of nursing and allied health requesting readmission in the semester prior to the semester of enrollment. Re-enrollment must occur no later than three years from successful completion of PNE 161 or the student will have to repeat all practical nursing courses.

The student may be required to enroll in and satisfactorily complete specific courses before readmission. Additional data may be required including a new criminal background check and medical records.

The decision to readmit will be based on additional data, prior performance in the practical 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.

A student who has two academic failures or withdrawals in separate semesters will be ineligible for reenrollment in the program. Such a student may not be readmitted if the cumulative grade point average is less than 2.0, including all courses attempted other than practical nursing courses.

According to the VCCS Policy 5.6.3 and VHCC 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.

Financial Requirements: In addition to the usual college tuition and fees, the practical nursing program requires uniforms with accessories, textbooks, progressive testing and remediation program, physical exam, immunizations, Mantoux Tuberculin Skin Test or chest x-ray, a background check, drug screen, and medical document package, CPR Certification, and HIPAA Certification.

Students are also responsible for transportation to and from the College and health agencies used for clinical experiences.

Clinical Contracts: Virginia Highlands Community College 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.

Curriculum: The practical nursing certificate program offers an opportunity for recent high school graduates and other eligible adults to complete the program requirements after 12 months of full time attendance (1 summer session and 2 semesters).

Students have the option to complete all general education courses required by the practical nursing certificate curriculum before beginning nursing classes.

Course Number	Course Title	Lecture Hours	Lab Hours	Credits
First Semest	ter (Summer)			
BIO 145	¹ Human Anatomy & Physiology for Health Sciences	3	3	4
PSY 230	Developmental Psychology	3	0	3
ITE 119	Information Literacy	3	0	3
ENG 111	College Composition I	3	0	3
SDV 101	Orientation to College Success	1	0	1
	Total	13	3	14
Second Sen	nester (Fall)			
PNE 161	Nursing in Health Changes I	4	6	6
PNE 162	Nursing in Health Changes II	6	12	10
	Total	10	18	16
Third Semo	ester (Spring)			
PNE 163	Nursing in Health Changes III	4	15	9
PNE 145	Trends in Practical Nursing	1	0	1
PNE 173	Pharmacology for Practical Nurses	2	0	2
	Total	7	15	12
Total Mini	num Credits for Certificate			42

Footnote:

 $^1BIO\ 141$ and 142 are acceptable substitutes recommended for progression to the LPN to RN Program



Health Sciences

Certificate

Program Coordinator: Dr. Doug Carmichael, Professor of Biology

OTC 204 • 276-739-2435

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 multiskilled 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.

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Course Number	Course Title	Lecture Hours	Lab Hours	Credits
First Semest	er (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 221, 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 or Medical Terminology	3	0	3
	Total	16	3	17
Second Semo	ester (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
MDL 105	Phlebotomy	2	6	4
	Total	14	12	18
Total Minimum Credits for Certificate				

Nurse Aide

Career Studies Certificate

Program Coordinator: Beth Page • LRC 221 • 276-739-2401

Dean of Professional & Technical Studies

Length: Two semesters

Course Number	Course Title	Lecture Hours	Lab Hours	Credits
First Semest	ter (Fall)			
HLT 105	CPR	1	0	1
HCT 101	Health Care Tech I ^{1,2}	3	0	3
HCT 102	Health Care Tech II ^{1,2}	1	6	3
PSY 230	Developmental Psychology	3	0	3
	Total	8	6	10
Second Sem	ester (Spring)			
HLT 261	Basic Pharmacy I ³	3	0	3
ITE 115 or 119	Intro. to Computer Applications Information Literacy	3	0	3
HUM	Recommendations: REL 230, MUS 221, or ART 201	3	0	3
	Total	9	0	9
Total Credits	s for Career Studies Certificate			19

Footnotes:

 $^1\!Approved$ by the Virginia Board of Nursing and prepares you to take the Nurse Aid licensure exam.

²Criminal background may prevent you from participating in required clinical work. Students may be required to complete a background check at their own expense.

³Approved 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.

Pharmacy Technician

Program Coordinator: Beth Page • LRC 221 • 276-739-2401 Dean of Professional & Technical Studies

Length: One Course

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 upon completion of the course.

Course Number	Course Title	Lecture Hours	Lab Hours	Credits
HLT 261	Basic Pharmacy I ¹	3	0	3
	Total	3	0	3

Footnote:

¹Approved 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.



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.
- Each year, Medical Assisting Program application packets, including transcripts, will be accepted in the Admissions Office until the established deadline.
- 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 selfdisclose 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 readmission 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
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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 Virginia Highlands 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.

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@ircert.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. Students must be eligible for ENG 111 and MTH 154.
 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 by the established deadline.

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:

A. Duties frequently require squatting, bending, kneeling, reaching, and stair climbing. Also includes occasional crawling and climbing.

B. 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

C. 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: <u>clee@vhcc.edu</u>, 276-739-2488 or SWCC: christy.lee@sw.edu, 276-964-7341

Course Number	Course Title	Lecture Hours	Lab Hours	Credits
Summer Se	ssion			
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 Semes	ster (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 Sen	nester (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 Se	ssion			
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 Seme	ester (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
PSY 230	Developmental Psychology	3	0	3
	Total	6	33	13
Fourth Sem	ester (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 Minin	num Credits for the AAS Degree			72

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 Shadow/Observation Form [pdf]





Computerized Tomography

Career Studies Certificate

Program Coordinator: Christy Lee • NEB 132 • 276-739-2488

SVCC • 276-964-7341

Length: Two Semesters

Program offered in cooperation with Southwest Virginia Community College. Career Studies Certificate awarded by Virginia Highlands Community College.

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 VHCC
- 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 Seme	ster			
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 Se	mester			
RAD 295	Topics in CT Registry Preparation	3	0	3
RAD 196	$^1\mathrm{On}$ 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 Cre	dits for Career Studies Certificate			17

Footnote:

¹Students 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.





Mammography Advanced Studies

Advanced Studies Curriculum

Curriculum Coordinator: Christy Lee • NEB 132 • 276-739-2488

SWCC • 276-964-7341

Length: One semester

Program offered in cooperation with Southwest Virginia Community College. Credits awarded by Virginia Highlands Community College.

Purpose: The Mammography Advanced Studies curriculum is designed to prepare selected students to qualify as contributing members of the allied health interdisciplinary team. Upon completion of these advanced studies (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 Mammographer by the ARRT.

Advanced Study Admission Requirements: The student in Mammography Advanced Studies must have completed an approved program in radiography. The student must be registered (or registry eligible) by the appropriate certification agency (ARRT). (Students applying for Advanced Studies in Mammography who are not ARRT registered or registry eligible must be in their last year of studies in an accredited Radiography program, and complete that radiography program before entering the RAD 196 clinical component of the advanced studies.) 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 to be considered for admission.

- · Application to VHCC
- Official transcripts of all other colleges attended submitted to the appropriate admissions office at VHCC
- Completed Mammography program application
- Copy of current ARRT certification card, or current unofficial Radiography Program transcript
- If you require the RAD 196 clinical education (75 total clinical hours):
 - Copy of current CPR certification by the American Heart Association
 - Current PPD
 - o Immunication records (Varicella, MMR, Hepatitis B, Flu)
 - *HIPAA training, criminal backround check, and drug screen will be required at the student's cost (approximately \$95).
 Hospital facility orientation will be required. These must be complete before the student can begin clinical education. The faculty will provide instructions to students who are accepted into the Mammography Advanced Studies track.

The student in Mammography must abide by all community college policies as well as hospital policies while enrolled in the program.

Advanced Study 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 advanced study.

Students will not be eligible to receive the certificate until a grade of "C" or better is obtained in each of the required courses. Before entering the clinical areas, the student must receive complete clinical clearance. Please see Ms. Lee or Ms. Horn for details.

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 advanced study. 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

advanced study. Cost for criminal background checks and drug testing will be the responsibility of the student.

This advanced study curriculum is typically offered in a 10-week summer semester.

For further information contact: Christy Lee at Christy.lee@sw.edu or Wendy Horn Wendy.horn@sw.edu

Course Number	Course Title	Lecture Hours	Lab Hours	Credits
Summer S	ession			
RAD 233	Anatomy and Positioning of the Breast	1	0	1
RAD 234	Breast Imaging/Instrumentation	1	0	1
RAD 235	Quality Assurance in Mammography	1	0	1
RAD 196	On-Site Training Clinical Internship in Mammography	0	5	1
	Total	3	5	4
Total Cred	lits			4

Students have the option of NOT completing the RAD 196 clinical class requirements; however, without clinical competencies, the student is ineligible to apply to sit for ARRT Registry examination, nor does the student complete MQSA requirements. Students can complete those competencies through employment, if their employer provides those cross training opportunities.





Dental Assisting Date of discontinuance May 31, 2020

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
- 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.
- Each year, Dental Assisting program application packets, including transcripts, will be accepted in the Admissions Office until the established deadline.
- 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 noncompulsory 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 readmission 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	L			
DNA 100	Intro. to Oral Health Professions	1	0	1
DNA 108	Dental Science	2	3	3
DNA 109	Practical Infection Control	1	2	2
DNA 110	Dental Materials	2	3	3
DNA 113	Chairside Assisting I	2	3	3
	Total	8	11	12
Semester 2	1			
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
DNA 196	DNA On-Site Training	0	4	1
HLT 105`	Cardiopulmonary Resuscitation	1	0	1
	Total	7	16	12
Total Minimum Credits for Career Studies Certificate				24

Dental Assisting Program Date of Discontinuance May 31, 2020



Curriculum & Program Requirements

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.

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 programs. 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 any 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 annoyal.

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. 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.

Course Number	Course Title	Lecture Hours	Lab Hours	Credits
First Semeste	er (Fall)			
SDV 101	Orientation to College Success	1	0	1
MTH 111	Basic Technical Mathematics	3	0	3
AIR 111	Air Cond. & Ref. Controls I	2	2	3
AIR 171	Refrigeration I	4	6	6
AIR 121	Air Conditioning and Refrigeration I	2	2	3
AIR 159	Heating and Cooling Safety	1	0	1
	Total	13	10	17

Course Number	Course Title	Lecture Hours	Lab Hours	Credits
Second Semes	ter (Spring)			
AIR 112	Air Cond. & Ref. Controls II	2	2	3
AIR 276	Refrigerant Usage EPA Certification	1	0	1
AIR 172	Refrigeration II	4	6	6
AIR 122	Air Conditioning and Refrigeration II	2	2	3
ENG 115	Technical Writing	3	0	3
	Total	12	10	16
Third Semeste	er (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 Semes	ter (Spring)			
EEE	Social Science Elective	3	0	3
SAF 130	Industrial Safety – OSHA 10	1	0	1
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	13	10	17
Total Minimum Credits for AAS Degree				

Students are urged to follow the <u>recommended pathway</u> for this degree when choosing electives.



Refrigeration

Career Studies Certificate

Program Coordinator: Jim Kroll • OTC 201 • 276-739-2560

Length: One Semester

Purpose: Provide foundation training in Basic Refrigeration, including basic refrigeration system installation, components, leak testing, evacuation, operation, brazing, refrigerant recovery, refrigerant charging, and safety. Provide basic electrical training in Ohm's Law, series circuits, parallel circuits, and multi-meter use. This entry-level training is 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.

Admission Requirements: A student eligible for admission to the College can normally be considered for admission to the Basic Refrigeration Career Studies Certificate Level I. Proficiency in high school mathematics is required. Students who are not proficient in mathematics will be required to correct their deficiencies in developmental courses. Due to HVACR industry changes related to EPA regulations involving refrigerants, DOE efficiency requirements for equipment, and equipment manufacturer requirements for updated training, students requesting advanced placement credit for any AIR classes more 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 Basic Refrigeration. The program will consist of both theoretical concepts and practical applications needed for success in this skilled field. Training will include both classroom and hands-on with live equipment. Each student is advised to consult with his/her advisor and counselor for program planning. Upon successful completion, the student will be awarded a Career Studies Certificate Level I.

**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.

Course Number	Course Title	Lecture	Lab Hours	Credits
First Semeste	er (Fall)			
SDV 101	Orientation to college Success	1	0	1
AIR 111	Air Conditioning and Refrigeration Controls I	2	2	3
AIR 121	Air Conditioning and Refrigeration I	2	2	3
AIR 159	Heating and Cooling Safety	1	0	1
AIR 171	Refrigeration I	4	6	6
MTH 111	Basic Technical Mathematics	3	0	3
Total Credits	for Career Studies Certificate	13	10	17

Commercial Refrigeration

Career Studies Certificate Program Coordinator: Jim Kroll • OTC 201 • 276-739-2560
Length: One Semester

Purpose: Provide training in Commercial Refrigeration, including the medium and low temperature refrigeration cycle, system installation, components, leak testing, evacuation, operation, refrigerant recovery, refrigerant charging, and safety. Provide basic electrical training in commercial refrigeration controls, including pressure, time, and temperature operated controls, defrost circuits, multi-meter use, and EPA regulations. This entry-level training is 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.

Admission Requirements: A student eligible for admission to the College can normally be considered for admission to the Commercial Refrigeration Career Studies Certificate Level II. Proficiency in high school English is required. Students who are not proficient in English will be required to correct their deficiencies in developmental courses. Due to HVACR industry changes related to EPA regulations involving refrigerants, DOE efficiency requirements for equipment, and equipment manufacturer requirements for updated training, students requesting advanced placement credit for any AIR classes more 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 Commercial Refrigeration. The program will consist of both theoretical concepts and practical applications needed for success in this skilled field. Training will include both classroom and hands-on with live equipment. Each student is advised to consult with his/her advisor and counselor for program planning. Upon successful completion, the student will be awarded a Career Studies Certificate in Commercial Refrigeration.

^{**}Program can be completed in day or evening classes.

Course Number	Course Title	Lecture Hours	Lab Hours	Credits
Second Seme	ster (Spring)			
AIR 112	Air Conditioning and Refrigeration Controls II	2	2	3
AIR 122	Air Conditioning and Refrigeration II	2	2	3
AIR 172	Refrigeration II	4	6	6
AIR 276	Refrigerant Usage EPA Certification ¹	1	0	1
ENG 115	Technical Writing	3	0	3
Total Credits	for Career Studies Certificate	12	10	16

Footnote

¹Students should have previous training and/or working knowledge of vapor-compression, common service equipment and procedures in HVAC/R.



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 Semeste	er (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	College Composition I or	3	0	3		
ENG 115	Technical Writing					
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	13	7	16		
Second Seme	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 Semes	ter (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	Lab Hours	Credits
Fourth Seme	ester (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 Minim	um Credits for AAS Degree			67

Footnote:

¹ITE 115 or ITE 119 are acceptable substitutes

Students are urged to follow the <u>recommended pathway</u> for this degree when choosing electives.



Practical Electrical Technician

Career Studies Certificate

Program Coordinator: Donnie Melvin • ISC 142A • 276-739-2453

Length: Two Semesters

Purpose: This program is designed to prepare the student for full-time employment as an electrician's helper, 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.

Course Number	Course Title	ecture	Lab	Credits
First Semesto	er (Fall)			
ELE 111	Home Electric Power I	2	3	3
ELE 157	Electricity Fundamentals	3	6	6
SAF 130	Industrial Safety	1	0	1
	Total	6	9	10
Second Seme	ester (Spring)			
ELE 112	Home Electric Power II	2	3	3
ELE 131	National Electric Code I	3	0	3
ELE 141	DC and AC machines	3	3	4
	Total	8	6	10
Total Credits	for Career Studies Certificate			20

Advanced Practical Electrical Technician

Career Studies Certificate

Program Coordinator: Donnie Melvin • ISC 142A • 276-739-2453

Length: Three Semesters

Purpose: This program 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. Graduates are qualified for positions such as; Basic Electrician, Electrical/ Electronic Technician, Industrial Maintenance Technician, Industrial Technical:

Course Number	Course Title	ecture Hours	Lab Hours	Credits
First Seme	ster (Fall)	_		
ELE 233	Programmable Logic Controller Systems I	2	3	3
MEC 161	Basic Fluid Mechanics- Hydraulics/Pneumatics	2	3	3
ELE 245	Industrial Wiring	2	2	3
-	Total	6	8	9
Second Ser	nester (Spring)			
ITE 100	Intro. Information Systems or Fundamentals of Computer Technology	3	0	3
ELE 175	Industrial Solid State Devices and Circuits	2	3	3
ELE 234	Programmable Logic Controller Systems II	2	3	3
ELE 225	Electrical Control Systems	3	3	4
	Total	10	9	13
Third Sem	ester (Summer)			
ELE 132	National Electrical Code II	3	0	3
WEL 110	Welding Processes	2	3	3
	Total	5	3	6
Fotal Credits for Career Studies Certificate				28



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 Semest	er (Fall)			
DRF 161	Blueprint Reading	1	2	2
ELE 157	Electricity Fundamentals	3	6	6
MEC 140	Introduction to Mechatronics	2	2	3
SDV 101	Orientation to College Success	1	0	1
SAF 130	Industrial Safety - OSHA 10	1	0	1
	Total	8	10	13
Second Semester (Spring)				
MTH 111	Basic Technical Mathematics	3	0	3
ENG 111 or ENG 115	College Composition I or Technical Writing	3	0	3
ITE 100		3	0	3
ELE 141	DC & AC Machines	3	3	4
IND 243	Principles and Apps. of Mechatronics	2	2	3
	Total	14	5	16
Third Semes	ter (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
	Total	12	7	15

Course Number	Course Title	Lecture Hours	Lab Hours	Credits
Fourth Seme	ester (Spring)			
ELE 234	Programmable Logic Controllers II	2	3	3
ELE 225	Electrical Control Systems	3	3	4
PED	Physical Education	0	2	1
INS 232	Systems Troubleshooting	2	3	3
ELE 175	Ind. Solid State Devices & Circuits	2	3	3
EEE	Humanities Elective	3	0	3
	Total	12	14	17
Fifth Semes	ter (Sumer)			
WEl 110	Welding Processes	2	3	3
ELE 132	National Electrical Code II	3	0	3
	Total	5	3	6
Total Minim	um Credits for AAS Degree			67

Footnote:

¹ITE 115 or ITE 119 are acceptable substitutes

Students are urged to follow the <u>recommended pathway</u> for this degree when choosing electives.



Applied Mechatronics

Career Studies Certificate

Program Coordinator: Donnie Melvin • ISC 142A • 276-739-2453

Length: Two Semesters

Purpose: This program is intended for students with an electrical background. Those who complete the program have the skills to work as a Mechatronics Entry Level Maintenance Technician's Helper or Industrial Machine Operator.

Course Numbe	er Course Title	Lecture Hours	Lab	Credits
First Semester	· (Fall)			
ELE 157	Electricity Fundamentals	3	6	6
MEC 140	Introduction to Mechatronics	2	2	3
SAF 130	Industrial Safety – OSHA 10	1	0	1
	Total	6	8	10
Second Semes	ter (Spring)			
IND 243	Principles and Applications of Mechatronics	2	2	3
ITE 100/ETR 166	Introduction to Information Systems	3	0	3
ELE 141	DC and AC Machines	3	3	4
	Total	8	5	10
Total Credits f	or Career Studies Certificate	-		20

Advanced Mechatronics

Career Studies Certificate

Program Coordinator: Donnie Melvin • ISC 142A • 276-739-2453

Length: Three Semesters

Purpose: This program is intended for students with electrical and/or automation background. Those who complete the program have the skills to work as a Mechatronics Entry Level Maintenance Technician or Senior Level Industrial Machine Operator.

Course Number	Course Title	Lecture Hours	Lab Hours	Credits
First Semest	ter (Fall)			
MEC 161	Hydraulics and Pneumatics	2	2	3
ELE 233	Programmable Logic Controllers 1	2	2	3
ELE 245	Industrial Wiring	2	2	3
	Total	6	6	9
Second Sem	ester (Spring)			
INS 232	Systems Troubleshooting	2	3	3
ELE 175	Industrial Solid State Devices and Circuits	2	2	3
ELE 234	Programmable Logic Controllers 2	2	2	3
ELE 225	Electrical Control Systems	3	3	4
	Total	9	10	13
Third Semes	ster (Summer)			
ELE 132	National Electric Code 2	2	2	3
WEL 110	Welding Processes	2	3	3
	Total	4	5	6
Total Credits for Career Studies Certificate				



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 Semes	ter (Fall)			
ELE 133	Practical Electricity I	2	2	3
ELE 111	Home Electric Power I	2	3	3
ENG 111 or	College Composition I or	3	0	3
115	Technical Writing			
SDV 101	Orientation to College Success	1	0	1
EEE	¹ General Education Elective or	3	0	3
	Co-op Education			
SAF 130	Industrial Safety – OSHA 10	1	0	1
	Total	12	5	14
Second Sem	ester (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 Minim	um Credits for Certificate			30

Approved general education electives are listed at http://www.vhcc.edu/GenEdCore.

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	Lab Hours	Credits
First Semes	ter (Fall)			
ELE 133	Practical Electricity I	2	2	3
ELE 245	Industrial Wiring	2	3	3
ELE 175	Industrial Solid State Devices	2	3	3
MEC 161	Hydraulics and Pneumatics	2	2	3
	Total	8	10	12
Second Sem	ester (Spring)			
ELE 134	Practical Electricity II	2	2	3
ELE 132	National Electric Code 2	3	0	3
ELE 141	DC & AC Machines	3	3	4
ELE 233	Programmable Logic Controllers I	2	3	3
	Total	10	8	13
Total Credit	s for Career Studies 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.



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 Semest	er (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	College Composition I or	3	0	3
ENG 115	Technical Writing			
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	13	7	16
Second Sem	ester (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 Semes	ster (Fall)			
ENE 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

	Total	15	8-9	18
EEE	Social Science Elective	3	0	3
PED	Physical Education	0	2-3	1
EEE	General Education Elective	3	0	3
ELE 132	National Electrical Code II	3	0	3
ENE 200	Power Monitoring	3	3	4
ELE 177	Photovoltaic Energy Systems	3	3	4
Fourth Sen	nester (Spring)			
Course Number	. Course Title	Lecture Hours	Lab Hours	Credits

Footnote:

¹ITE 115 or ITE 119 are acceptable substitutes

Students are urged to follow the <u>recommended pathway</u> for this degree when choosing electives.



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	Hours	Credits
First Semes	ter (Fall)			
ELE 133	Practical Electricity I	2	2	3
ELE 176	Introduction to Alternative Energy Including Hybrid Systems	2	3	3
SAF 130	Industrial Safety – 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 Sem	ester (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 Credits for Career Studies Certificate				34



Computer Numerical Control Machine Operations

Associate of Applied Science Degree

Program Coordinator: Johnnie Keene• MEC 104 • 276-739-2455 **Length:** Four semesters (two years)

Purpose: In addition to satisfying the needs of those students who enroll for the four-semester program three other groups are served: First, those who have completed the one-semester Precision Machining career studies certificate and the one-semester Advanced Precision Machining career studies certificate programs presently being offered; second, graduates of other schools who have completed a comparable one-year program; third, machine tool operators in industry who want to upgrade their skills. The program is designed to provide both theory and shop experiences of an advanced nature in the machining field.

Occupational Objectives:

Machinist

Tool and Die Maker

Machine Shop Supervisor

Inspector

Computer Numerical Control Operator and Programmer

Admission Requirements: Students are required to meet the general requirements of the college as contained in this catalog. Students from other schools or colleges or with appropriate industrial experience should submit transcripts or other documentation for evaluation and advanced placement.

Program Requirements: The Computer Numerical Control Machine Operations Curriculum consists of courses in both the machining and general education areas. Instruction will include both concepts of machining and practical applications on machine tools. Each student should consult with his/her counselor and faculty advisor in planning a program and selecting his/her electives. Upon completion of the four-semester program listed on this page, the graduate will be awarded an Associate of Applied Science Degree.

Track 1: (Day)

Course Number	Course Title	Lecture Hours	Lab Hours	Credits
First Semest	er (Fall)			
DRF 161	Blueprint Reading I	1	3	2
SAF 130	Industrial Safety – OSHA 10			
MAC 161	Machine Shop Practices I	2	3	3
MAC 162	Machine Shop Practices II	2	3	3
MAC 116	Machinist's Handbook	2	0	2
SDV 101	Orientation to College Success	1	0	1
MAC 121	Numerical Control I	1	2	2
MAC 122	Numerical Control II	1	2	2
	Total	11	13	16
Second Semo	ester (Spring)			
MAC 111	Machine Trade Theory and Computation I	3	0	3
MAC 150	Introduction to Computer Aided Drafting	2	4	3
MAC 163	Machine Shop Practices I	2	3	3
MAC 164	Machine Shop Practices II	2	3	3
MAC 123	Numerical Control III	2	3	3
MAC 126	Introduction to CNC Programming	2	3	3
	Total	13	16	18

Course Number	Course Title	Lecture Hours	Lab Hours	Credits
Third Semes	ster (Fall)			
MAC 127	Advanced CNC Programming	3	0	3
MAC 209	Standards, Measurements and Calculations	3	0	3
ENG 115	Technical Writing	3	0	3
EEE	Social Science Elective ¹	3	0	3
MTH 111	Basic Technical Mathematics	3	0	3
	Total	15	0	15
Fourth Seme	ester (Spring)			
MAC 206	Production Machining Techniques	4	6	6
MAC 290	Coordinated Internship or Technical Elective ²	0-3	0-15	3
EEE	Humanities Elective ³	3	0	3
PED	Physical Education ⁴	0	3	1
EEE	Social Science Elective ¹	3	0	3
	Total	10-13	9-24	16
Total Minim	um Credits for AAS Degree			65

Footnotes:

¹Students must take 6 credits of social science. Recommended social science courses include ECO 201-202; GEO 210; HIS 101-102; HIS 121-122; PLS 135; PLS 211-212; PSY 200; SOC 200.

²Coordinated Internship: Students are encouraged to take MAC 290 after satisfactory completion of the third semester with approval of Faculty, or a student may take as a technical elective any 3 credit course with course prefix DRF, MAC, MEC, SAF, or WEL.

³Students must take 3 credits of humanities. Recommended humanities courses include ART 201, 202; MUS 121, 122; REL 200, 210, 230; CST 130, 151, 152; PHI 101; foreign language or literature.

⁴Students may substitute any HLT course for physical education requirements.



Computer Numerical Control Machine Operations

Associate of Applied Science Degree

Track 2: (Evening)

EEE Humanities Elective ³ 3 0 EEE Social Science Elective ¹ 3 0	Lecture Hours Lab Hours	Course Title	Course Number
MAC 121 Numerical Control 1 2 SAF 130 Industrial Safety 1 0 SDV 101 Orientation to College Success 1 0 Total 5 5 Second Semester (Spring) DRF 161 Blueprint Reading I 1 3 MAC 162 Machine Shop Practices II 2 3 MAC 116 Machinist Handbook 2 0 MAC 122 Numerical Control III 1 2 Total 6 8 Third Semester (Fall) MAC 163 Machine Shop Practices III 2 3 MAC 163 Machine Shop Practices III 2 3 Total 6 10 Fourth Semester (Spring) MAC 123 Numerical Control III 2 3 Total 7 6 Fourth Semester (Spring) MAC 126 Machine Shop Practices IV 2 3 <		er (Fall)	First Semest
SAF 130	2 3	Machine Shop Practices I	MAC 161
SDV 101	1 2	Numerical Control	MAC 121
Total 5 5 5	1 0	Industrial Safety	SAF 130
Second Semester (Spring) DRF 161	1 0	Orientation to College Success	SDV 101
DRF 161 Blueprint Reading I 1 3 MAC 162 Machine Shop Practices II 2 3 MAC 116 Machinist Handbook 2 0 MAC 122 Numerical Control II 1 2 Total 6 8 Third Semester (Fall) MAC 163 Machine Shop Practices III 2 3 MAC 150 Manufacturing 2 4 Manufacturing 3 1 2 4 MAC 150 Manufacturing 4 6 10 MAC 123 Numerical Control III 2 3 Total 6 10 Fourth Semester (Spring) MAC 164 Machine Shop Practices IV 2 3 MAC 165 Machine Shop Practices IV 2 3 MAC 166 Machine Shop Practices IV 2 3 MAC 167 Machine Shop Practices IV 2 3 MAC 168 Machine Shop Practices IV 2 3 MAC 169 Machine Trade Theory & Computation I 3 0 Total 7 6 Fifth Semester (Summer) ENG 115 Technical Writing 3 0 MTH 111 Basic Technical Mathematics 3 0 EEE Social Science Elective 1 3 0 MAC 209 Standards, Measurements, and Calculations 3 0 Total 12 0 Sixth Semester (Fall) MAC 206 Production Machining Techniques 4 6 MAC 127 Advanced CNC Programming 3 0 PED Physical Education 4 0 3 Total 7 9 Seventh Semester (Spring) MAC 290 Coordinated Internship or Technical Elective 2 EEE Humanities Elective 3 3 0 EEE Social Science Elective 3 3 0	5 5	Total	
MAC 162 Machine Shop Practices II 2 3 MAC 116 Machinist Handbook 2 0 MAC 122 Numerical Control II 1 2 Total 6 8 Third Semester (Fall) MAC 163 Machine Shop Practices III 2 3 MAC 150 Introduction to Computer Aided Manufacturing 2 4 MAC 123 Numerical Control III 2 3 Total 6 10 Fourth Semester (Spring) MAC 164 Machine Shop Practices IV 2 3 MAC 126 Intro to Computer Numerical Control Programming 2 3 MAC 111 Machine Trade Theory & Computation I 3 0 Total 7 6 Fifth Semester (Summer) EEG Social Science Elective¹ 3 0 MTH 111 Basic Technical Mathematics 3 0 EEE Social Science Elective¹ 3 0 MAC 209 Standards, Measurements, and Calculations 3 0		ster (Spring)	Second Semo
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Fourth Semester (Spring) MAC 164 Machine Shop Practices IV 2 3 Intro to Computer Numerical Control Programming 3 0 Total 7 6 Fifth Semester (Summer) ENG 115 Technical Writing 3 0 MAC 209 Standards, Measurements, and Calculations 3 0 Total 12 0 Sixth Semester (Fall) MAC 206 Production Machining Techniques 4 6 MAC 127 Advanced CNC Programming 3 0 PED Physical Education 4 0 3 Total 7 9 Seventh Semester (Spring) MAC 290 Coordinated Internship or Technical Elective ² 0-3 0-15 EEE Humanities Elective ¹ 3 0-15 EEE Social Science Elective ¹ 3 0 Total 7 9	2 3	Numerical Control III	MAC 123
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$\begin{array}{c} \text{MAC 290} & \begin{array}{c} \text{Coordinated Internship or Technical} \\ \text{Elective}^2 \end{array} & \begin{array}{c} 03 & 015 \\ \text{EEE} \end{array} & \begin{array}{c} \text{Humanities Elective}^3 \end{array} & \begin{array}{c} 3 & 0 \\ 3 & 0 \end{array} \end{array}$		ester (Spring)	Seventh Sem
EEEHumanities Elective 3 30EEESocial Science Elective 1 30	0-3 0-15	Coordinated Internship or Technical	
EEE Social Science Elective ¹ 3 0	3 0		EEE
10131	6-9 0-15	Total	

Footnotes:

 1 Students must take 6 credits of social science. Recommended social science courses include ECO 201-202; GEO 210; HIS 101-102; HIS 121-122; PLS 135; PLS 211-212; PSY 200; SOC 200.

²Coordinated Internship: Students are encouraged to take MAC 290 after satisfactory completion of the third semester with approval of Faculty, or

a student may take as a technical elective any 3 credit course with course prefix DRF, MAC, MEC, SAF, or WEL.

³Students must take 3 credits of humanities. Recommended humanities courses include ART 201, 202; MUS 121, 122; REL 200, 210, 230; CST 130, 151, 152; PHI 101; foreign language or literature.

 $^4\mbox{Students}$ may substitute any HLT course for physical education requirements.



Computer Numerical Control Machine Operations

Certificate

Program Coordinator: Johnnie Keene • MEC 104 • 276-739-2455

Length: Three semesters (one and one-half year)

Purpose: A machinist uses manual and automated machine tools to make or modify parts by using machine tools to cut away excess material. In addition to metal, the parts may be made of many other kinds of materials, such as plastic or wood products. To be able to machine very complex parts using lathes, milling machines, and grinders requires a great deal of skill. The goal of these cutting operations is to produce a part that conforms to a set of specifications, or tolerances, usually in the form of engineering drawings commonly known as blueprints.

Occupational Objectives: Machine Tool Operator and CNC Programmer or Operator

Admissions Requirements: A student eligible for admission to the College can normally be considered for admission to the Computer Numerical Control Machining curriculum.

Program Requirements: The Computer Numerical Control Machining Program is designed to prepare students to work as machine tool operators and CNC programmers or operators. The student will be given training in the operation of metal lathes, milling machines, various types of grinders, drilling machine and measuring instruments. Also the student will develop skills in blueprint reading, industrial safety, and drafting.

Students successfully completing the three-semester sequence in this program receive a certificate in computer Numerical Control Machining.

Course Number	Course Title	Lecture Hours	Lab Hours	Credits
First Semest	er (Fall)			
DRF 161	Blueprint Reading I	1	3	2
SDV 101	Orientation to College Success	1	0	1
MAC 151	Machine Tool Maintenance	1	3	2
MAC 161	Machine Shop Practices I	2	3	3
MAC 162	Machine Shop Practices II	2	3	3
MAC 116	Machinist Handbook	2	0	2
MAC 121	Numerical Control I	1	2	2
	Total	10	14	15
Second Sem	ester (Fall)			
ENG 111 or	College Composition I or	3	0	3
ENG 115	Technical Writing			
MAC 146	Metals/Heat Treatment	1	3	2
MAC 163	Machine Shop Practices III	2	3	3
MAC 164	Machine Shop Practices IV	2	3	3
MAC 122	Numerical Control II	2	3	3
	Total	10	12	14
Third Semes	ster (Spring)			
MAC 111	Machine Trade Theory and Computation I	3	0	3
MAC 123	Numerical Control III	2	3	3
MAC 126	Introductory CNC Programming	2	3	3
MAC 127	Advanced CNC Programming	3	0	3
EEE	General Education Elective	3	0	3
	Total	13	6	15
Total Minim	um Credits for Certificate			44

Students are urged to follow the <u>recommended pathway</u> for this diploma when choosing electives.



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 manual machining concepts, blueprint reading and inspection procedures. Upon completion of this program, graduates will be prepared for employment as a manual lathe or mill operator.

Occupational Objectives: The Precision Machining Career Studies Certificate provides the basic skills necessary to secure an entry level job as a manual 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 coordinator 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 to two semesters and will prepare graduates for entry-level positions. Graduates will also obtain the OSHA-10 hour General Industry safety certification.

Track 1: (Day)

Course Number	Course Title	Lecture	Lab	Credits
First Semeste	er (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 130	Industrial Safety - OSHA 10	1	0	1
MAC 116	Machinist Handbook	2	0	2
MAC 122	Numerical Control II ¹	1	2	2
MAC 162	Machine Shop Practices II ²	2	3	3
SDV 101	Orientation to College Success	1	0	1
Total Credits	for Career Studies Certificate	11	13	16

Footnotes:

¹Prerequisite: MAC 121

²Prerequisite or Corequisite: MAC 161

Track 2: (Evening)

Course Number	Course Title	Lecture	Lab Hours	Credits
First Semeste	r (Fall)			
MAC 161	Machine Shop Practices I	2	3	3
MAC 121	Numerical Control	1	2	2
SAF 130	Industrial Safety	1	0	1
SDV 101	Orientation to College Success	1	0	1
	Total	5	5	7
Second Semes	ster (Spring)			
DRF 161	Blueprint Reading I	1	3	2
MAC 162	Machine Shop Practices II	2	3	3
MAC 116	Machinist Handbook	2	0	2
MAC 122	Numerical Control II	1	2	2
	Total	6	8	9
Total Credits for Career Studies Certificate			13	16

Advanced Precision Machining

Career Studies Certificate

Program Coordinator: Johnnie Keene• MEC 104 • 276-739-2455

Length: One Semester

Purpose: This Career Studies Certificate is designed to provide individuals with advanced machining concepts on lathes and machining centers. Students will learn conventional and conversational programming on each machine. Upon completion of this program, graduates will be prepared for employment as CNC lathe or mill operator.

Occupational Objectives: The Advanced Precision Machining Career Studies Certificate provides the basic skills necessary to secure an entry level job as a CNC machinist. Students develop the basic skills necessary to Set-up, program and operate CNC lathes and machining centers.

Track 1: (Day)

Course Number	Course Title	Lecture Hours	Lab	Credits
First Semesto	er (Fall)			
MAC 150	Introduction to Computer Aided Manufacturing	2	4	3
MAC 163	Machine Shop Practices III	2	3	3
MAC 164	Machine Shop Practices IV	2	3	3
MAC 123	Numerical Control III	2	3	3
MAC 126	Introductory CNC Programming	2	3	3
MAC 111	Machine Trade Theory and Computation I	3	0	3
Total		13	16	18

Track 2: (Evening)

Course Number	Course Title	Lecture	Hours Hours	Credits
First Semeste	er (Fall)			
MAC 163	Machine Shop Practices III	2	3	3
MAC 150	Introduction to Computer Aided Manufacturing	2	4	3
MAC 123	Numerical Control III	2	3	3
	Total	6	10	9
Second Seme	ester (Spring)			
MAC 164	Machine Shop Practices IV	2	3	3
MAC 126	Intro to Computer Numerical Control Programming	2	3	3
MAC 111	Machine Trade Theory & Computation I	3	0	3
	Total	7	6	9
Total Credits	for Career Studies Certificate			18



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	Lab Hours	Credits
First Semest	er (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 Seme	ester (Spring)			
DSL 121	Diesel Engines I	3	6	6
DSL 122	Diesel Engines II	3	6	6
	Total	6	12	12
Total Credits	s for Career Studies Certificate			27

Track 2: (Evening)

Course Number	Course Title	Lecture Hours	Lab Hours	Credits
First Semest	er (Fall)			
DSL 121	Diesel Engines	3	6	6
DSL 122	Diesel Engines II	3	6	6
	Total	6	12	12
Second Seme	ester (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 Credits	s for Career Studies Certificate			27

Dual Enrollment with Washington County Career & Technical Education Center Only

Cooperative Career Studies Certificate

Students must meet enrollment and eligibility requirements for the Washington County Career & Technical Education Center. Contact the Center to enroll, https://wcctec.wcs.k12.va.us/ or 276-739-3100.

Automotive Technology **Career Studies Certificate**

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



Welding

Career Studies Certificate

(Pending Approval by SACSCOC)

Program Coordinator: Eddie Fultz • SBI 162 • 276-492-2065

Length: One-Two Semesters

Purpose: This program is designed to provide students training in blueprint/symbols reading, SMAW, FCAW, GMAW, and GTAW. Upon completion of Welding Career Studies Certificate, graduates will be prepared for employment as a basic welder.

Occupational Objectives: The Welding Career Studies Certificate provides the basic skills necessary to secure an entry level job as a manual or semiautomatic welder. Students will develop the basic skills necessary to read blueprints, and perform steel welds in 1F, 2F, 3F, 1G, 2G, and 3G positions. These will be accomplished in three different weld processes.

Program Notes: Along with the Career Studies Certificate in Welding, graduates will also obtain the OSHA-10 hour General Industry certification.

Track 1: (Day)

Course Number	Course Title	Lecture Hours	Lab Hours	Credits
First Semester ((Fall)			
WEL 120	Introduction to Welding	1	2	2
WEL 123	Shielded Metal Arc Welding (SMAW)	2	3	3
SAF 130	Industrial Safety – OSHA 10	1	0	1
WEL 150	Welding Drawing & Interpretation	3	0	3
WEL 160	Gas Metal Arc Welding (GMAW)	2	3	3
WEL 161	Fluxed Cored Arc Welding (FCAW)	2	3	3
WEL 164	Gas Tungsten Arc Welding (GTAW)	2	3	3
Total Credits fo	r Career Studies Certificate	13	14	18

Track 2: (Evening)

Course Number	Course Title	Lecture Hours	Lab Hours	Credits
First Semester	(Fall)			
WEL 120	Introduction to Welding	1	2	2
WEL 123	Shielded Metal Arc Welding (SMAW)	2	3	3
SAF 130	Industrial Safety – OSHA 10	1	0	1
WEL 150	Welding Drawing & Interpretation	3	0	3
WEL 160	Gas Metal Arc Welding (GMAW)	2	3	3
	Total	9	8	12

Course Number		Lecture Hours	Lab Hours	Credits
Second Semest WEL 161	er (Spring) Fluxed Cored Arc Welding (FCAW)	2	3	3
WEL 164	Gas Tungsten Arc Welding (GTAW)		3	3
	Total	4	6	6
Total Credits fo	or Career Studies Certificate			18



Advanced Welding

Career Studies Certificate

(Pending Approval by SACSCOC)

Program Coordinator: Eddie Fultz • SBI 162 • 276-492-2065

Length: One Semester

Purpose: This will be a continuation of educational training in SMAW, GMAW, and GTAW. Students will receive training in advanced levels of welding in these processes. Oxy-fuel and plasma arc cutting will also be an added part of the advanced training.

Occupational Objectives: The Advanced Welding Career Studies Certificate provides the advanced skills necessary to secure a welder job position as an advanced trained manual or semiautomatic welder. These welds will be accomplished in three different weld processes and multiple positions. Blueprint reading and weld symbols will be utilized throughout these classes.

Track 1: (Day)

Course Number	· Course Title	Lecture Hours	Lab Hours	Credits
First Semester	(Spring)			
SDV 100	College Success Skills	1	0	1
HLT 106	First Aid and Safety	2	0	2
WEL 117	Oxyfuel Welding and Cutting	2	6	4
WEL 124	Shielded Metal Arc Welding (SMAW II)	2	3	3
WEL 130	Inert Gas Welding	2	6	4
WEL 136	Welding III (Inert Gas)	1	3	2
Total Credits fo	r Career Studies Certificate	10	18	16

Track 2: (Evening)

Course Number	r Course Title	Lecture	Lab	nours Credits
First Semester	(Spring)			
SDV 100	College Success Skills	1	0	1
HLT 106	First Aid and Safety	2	0	2
WEL 124	Shielded Metal Arc Welding (SMAW II)	2	3	3
WEL 136	Welding III (Inert Gas)	1	3	2
	Total	6	6	8

Course Number	Course Title	Lecture Hours	Lab Hours	Credits
Second Semester ((Summer)			
WEL 130	Inert Gas Welding	2	6	4
WEL 117	Oxyfuel Welding and Cutting	2	6	4
	Total	4	12	8
Total Credits for C	areer Studies Certificate			16



Technical Studies

Associate of Applied Science Degree

Program Coordinator: Dean of Professional & Technical Studies

LRC 221• 276-739-2401

Major: As needed (short start-up time)

Length: 65-69 credit hours

Purpose: The Associate of Applied Science Degree is designed to provide a broad foundation of general education and technological knowledge, along with a concentration in a technical field as identified by local industry needs that will prepare the graduate to enter or advance in technical fields upon graduation.

Occupation Objective: Numerous recent studies point to an emerging need for workforce education and training programs and opportunities in several evolving fields. Chief among these are information technologies and high-performance manufacturing. A Technical Studies degree will permit VHCC to respond rapidly to the demand for workers trained in emerging career areas.

Admission Requirements: A student eligible for admission to the College can normally be considered for admission to the Technical Studies 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.

Program Requirements: The curriculum for the Technical Studies Degree combines general academic instruction in the humanities, social sciences, mathematics, science, and communication with a technical core of courses geared toward gaining competence for positions within business, industry, or government, and work-based learning requirement.

		Credits	
General Educ	cation Required Core	18	
	English Composition	3	
	Humanities	3	
	Social/Behavioral Sciences	6	
	Mathematics/Natural Science	3	
	Wellness	2	
	Student Development	1	
Technical Fo	undations	18-24	
	Principles of Technology	3	
	Microcomputers/Programming/Software	6-9	
	Technical Writing	3	
	Quality Control	3	
	Team Concepts/Problem Solving	3-6	
Content Skill	s & Knowledge ²	15-27	
Option 1:	Courses selected from a single existing certificate	e or	
Option 1.	diploma + electives to define content area ¹		
	OR		
Option 2:	Two or more content areas 3 of 6-12 credits each selected to meet student	(course	
goals and employer needs) plus related courses and electives			
Work-Based	Learning	6-15	
	Total Minimum Credits for AAS Degree	65-69	

Footnotes:

 $^1\mathrm{Curricular}$ exhibits are provided for informational purposes only. See the Counselor for details on majors and their content.

²The course content is developed between the employer(s), college and students to meet the needs of the employer(s). A minimum of fifteen (15) students must agree to enroll in any given major.

³A minimum of six (6) credits per each content area.



Curriculum & Program Requirements

Information Technology



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 ¹	3	0	3
SDV 101	Orientation to College Success	1	0	1
	Total	16	0	16
Second Semes	ter (Spring)			
ENG 112 or CST 100	College Composition II or Principles of Public Speaking	3	0	3
BUS 225	Applied Business Statistics ¹	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 Semes	ter (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 Seme	ster (Spring)			
ITD 132	Structured Query Language ²	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 Minimi	um Credits for AAS Degree			66

Footnotes:

¹Prerequisite: MTH 132.

²Prerequisite: ITE 115 or ITE 119 & ITE 150 or Division Approval.

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 <u>recommended pathway</u> for this degree when choosing electives.



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
First Semes	ter (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 Sem	ester (Spring)			
EEE	Social Science Elective	3	0	3
ITP 100 or CSC 200	Software Design or Introduction to Computer Science	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) ¹	3	2	4
	Total	15	2	16

Course Number	Course Title	Lecture Hours	Lab Hours	Credits
Third Seme	ster (Fall)			
ITN 260	Network Security Basics ²	3	0	3
ITP 120 or CSC 201	Java Programming I or Computer Science ${\sf I}^3$	4	0	4
ITN 156	Basic Switching & Routing (CISCO III) ⁴	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 Sem	ester (Spring)			
ITD 132	Structured Query Language ⁵	4	0	4
ITN 113	Active Directory (Windows Server 2008)	3	0	3
EEE	Humanities Elective	3	0	3
BUS 225	Applied Business Statistics ⁶	3	0	3
EEE	Approved IT Elective or Coordinated Internship	3	0	3
SDV 106	Preparation for Employment	1	0	1
	Total	17	0	17
Total Minin	num Credits for AAS Degree			67

Footnotes:

¹Prerequisite: ITN 154

²Prerequisite or corequisite: ITN 154 ³Prerequisite: CSC 200 or division approval

⁴Prerequisite: ITN 155

⁵Prerequisite: ITE 115 or ITE 119, & ITE 150 or Division Approval.

⁶Prerequisite: 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 <u>recommended pathway</u> for this degree when choosing electives.



Networking Fundamentals I

Career Studies Certificate

Program Coordinator: Tamara Lasley • LRC 215 • 276-739-2503

Length: Two Semesters

Purpose

This certificate prepares students with introductory IT knowledge and skills to recognize, prevent and defend against threats to information and information systems. In order for students to be prepared in key areas of Cybersecurity and Network Administration, students need to be introduced to the basic topics of operating systems, computer hardware, networking concepts, programming and cybersecurity topics.

Occupational Objective

To create entry level employment opportunities in the network administration field.

Course Number	Course Title	Lecture Hours	Lab	Credits
First Semes	ter (Fall)			
SDV 101	Orientation	1	0	1
ITN 106	Microcomputer Operating Systems ¹	3	0	3
ITN 154	Network Fundamentals, Router Basics, and Configuration (CISCO I)	3	3	4
ITN 260	Network Security Basics ²	3	0	3
	Total	10	3	11
Second Sen	nester (Spring)			
ITN 107	Personal Computer Hardware and Troubleshooting ³	3	0	3
ITN 155	Switching, Wireless and WAN Technologies (CISCO II)	3	2	4
ITP 100	Software Design	3	0	3
	Total	9	0	10
	ts for Career Studies Certificate	21		

Footnotes:

¹Upon completion of ITN 106 student may take CompTIA A+ Core 2 exam ²Prerequisite or corequisite: ITN 154. Counts as IT Elective toward AAS Degree

³Upon completion of ITN 107 student may take CompTIA A+ Core 1 exam

Both Core 1 AND Core 2 exams must be passed in order to receive A+certification through CompTIA.

Upon successful completion of A+ certification, testing fees may be reimbursed by the College

Student may take Cisco Certified Network Associate (CCNA) certification after completion of ITN 155

https://www.cisco.com/c/en/us/training-events/training-certifications/certifications/associate/ccna.html

Upon successful completion of certification, testing fees may be reimbursed by the College.

Networking Fundamentals II

Career Studies Certificate

Program Coordinator: Tamara Lasley • LRC 215 • 276-739-2503

Length: Two Semesters

Purpose: This certificate prepares students with introductory IT knowledge and skills to recognize, prevent and defend against threats to information and information systems. In order for students to be prepared in key areas of Cybersecurity and Network Administration, students need to be introduced to the basic topics of operating systems, computer hardware, networking concepts, programming and cybersecurity topics.

Occupational Objective

To create entry level employment opportunities in the network administration field.

Course Number	Course Title	Lecture Hours	Lab Hours	Credits
First Semeste	er (Fall)			
ITN 1561	Basic Switching and Routing- CISCO	4	0	4
ITP 120	Java Programming I	4	0	4
ITE 182	User Support/Helpdesk Principles	3	0	3
	Total	11	0	11
Second Seme	ester (Spring)			
ITE 115 or ITE 119	Introduction to Computer Applications and Concepts or Information Literacy	3	0	3
ITN 113	Active Directory	3	0	3
ITE 140	Spreadsheet Software	3	0	3
	Total	9	0	9
Total Credits	for Career Studies Certificate			20

Footnote:

¹Prerequisite: ITN 155

Student may take Microsoft Office Specialist certification in Word and PowerPoint during ITE 115

https://www.microsoft.com/en-us/learning/certification-overview-mos.aspx

Testing vouchers provided during course



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 Se	ssion			
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 Semes	ter (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	13	2	14
Second Sem	ester (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 for Certificate				

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 <u>recommended pathway</u> for this certificate when choosing electives.

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

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 ¹	4	0	4
ITN 156	Basic Switching and Routing ²	4	0	4
ITN 157	WAN Technologies ³	4	0	4
Total Cred	lits for Career Studies Certificate	22	0	22

Footnotes:

¹Prerequisite: ITN 154 ²Prerequisite: ITN 155 ³Prerequisite: ITN 156

ITN 106 and ITN 107 prepares student for the A+ certification. ITN 154, ITN 155, ITN 156, and ITN 157 prepares student for CCNA $\,$

(CISCO Certified Network Associate).



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 Ses	sion			
ENG 111	College Composition I	3	0	3
ITE 115 or	Intro. to Computer Applications &	3	0	3
119	Concepts or Information Literacy			
	Total	6	0	6
First Semest	ter (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 Sem	ester (Spring)			
ENG 112 or	College Composition II or	3	0	3
CST 100	Principles of Public Speaking			
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 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 <u>recommended pathway</u> for this certificate when choosing electives.

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

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	Approved IT Elective ¹	3	0	3
Total Credits	for Career Studies Certificate	15	0	15

Footnote:

¹Recommended IT Elective is ITP 100. 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.

 ${\it Criminal background may prevent you from obtaining employment in this field.}$

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 Semest	er (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 Semo	ester (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 Credits for Career Studies Certificate				

Footnotes:

¹ITN 101 will substitute

²Prerequisite: ITP 100 or Division approval

 3 Prerequisite or Corequisite of ITN 154 or ITN 101

⁴ITN 111 or ITN 171 will substitute

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 ¹	4	0	4
ITN 113	Active Directory (Windows Server 2008)	3	0	3
ITP 240	Server Side Scripting or Recommended IT Elective ²	3	0	3
Total Credits	for Career Studies Certificate	17	0	17

Footnotes:

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 Credits for Career Studies Certificate			0	13

Footnotes:

¹.Prerequisite: ITE 115 or ITE 119, & ITE 150 or Division Approval.

².Recommended IT Elective is ITD 110. Contact an IST Advisor for more information about additional approved IT Electives.

¹Prerequisite for Java Programming I.

 $^{^2\}mbox{Other}$ object-oriented or event-driven programming language may be substituted with faculty or division approval.

³Recommended 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 ¹	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 for Care	er Studies Certificate	16	0	16

Footnote:

¹Prerequisite- AST 101. Exceptions can be granted with faculty or division approval.

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	Approved IT Elective ¹	3	0	3
Total Credits	for Career Studies Certificate	15	0	15

Footnote:

 $^1\mathrm{Recommended}$ 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.

Small Unmanned Aerial Systems (sUAS)

Career Studies Certificate

Program Coordinator: Tamara Lasley, • LRC 215 • 276-739-2503

Program Description: This career studies certificate is designed to prepare participants to skillfully fly and maintain a sUAS and to earn the FAA part 107 certificate. If you want to commercially fly a drone legally, you must earn your FAA Part 107 remote pilot Certification. Knowledge of the safe and legal operation of an unmanned aircraft (drone) and the collection of imagery for customers is on the forefront of employer demand for many new and emerging fields. This program develops these competencies and allows participants to succeed in this challenging and demanding field. The novice pilot will learn manual flight skills and how to legally fly in a commercial operation. This curriculum uses program related electives from fields such as IT, Science, Agriculture, Horticulture, Electricity, and Administration of Justice, allowing students to graduate with both an AAS degree and this Career Studies Certificate.

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	
EEE	Program Related Elective ²	3	0	3	
EEE	Program Related Elective ²	3	0	3	
EEE	Program Related Elective ²	3	0	3	
Total Credits for Career Studies Certificate 17 2 18					

Footnotes:

¹Students must be 16 years of age to sit for FAA Part 107 remote Pilot Certification.

²Program related electives include any 100/200 level course from fields of study such as Science (BIO, CHM, GOL, PHY, EGR). Agriculture (AGR, HRT), Information Systems Technology (ITE, ITN, ITP, ITD), Electricity (ELE) or Administration of Justice (ADJ). Other electives may be approved by division dean.



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 Semes	ter (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 Sem	ester (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 Seme	ster (Fall)			
ADJ 133	Ethics and the Criminal Justice Professional	3	0	3
ADJ 171	Forensic Science I	3	3	4
ADJ 237	² Advanced Criminal Investigation	3	0	3
SOC 235	Juvenile Delinquency	3	0	3
EEE	Related Elective	3	0	3
	Total	15	3	16
Fourth Sem	ester (Spring)			
ADJ 111	Law Enforcement Organization & Administration I	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	³ 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.

²Prerequisite: ADJ 236 or division approval

Students are urged to follow the <u>recommended pathway</u> for this degree when choosing electives.

³Includes CPR/First Aid Certification



Foundations of Criminal Justice

Career Studies Certificate

Program Coordinator: Robin Widener • OTC 110 • 276-739-2408 **Length:** One to Two Semesters

Purpose: The curriculum in the Foundations of Criminal Justice Career Studies Certificate is designed to improve the knowledge and skills of the practitioner in the foundations of criminal justice, focusing on general knowledge and communication skills. This level is to prepare individuals for career service or advancement in the field.

Occupational Objectives: The curriculum will provide skills for the advancement and/or employment in the following occupations: law enforcement officer, investigator, probation and parole officer, security officer, juvenile services worker, corrections officer, local, state, and federal enforcement officers.

Program notes: In addition to meeting the admission requirements established for the college, students in the Administration of Justice Program will need to meet the specialized requirements for the criminal justice agency with which he or she plans to seek employment. This includes the absence of any felony convictions or misdemeanor convictions involving moral turpitude or violence. ADJ students are required to earn a "C" or higher grade in the ADJ classes and in SOC 235 and SOC 236. If a student earns below a "C" in those classes, he or she must repeat the course and earn a final grade of "C" or better.

Course Number	Course Title	Lecture Hours	Lab Hours	Credits
ENG 111	English Composition I	3	0	3
SDV 101	Orientation to College Success	1	0	1
ITE 115 or ITE 119	Intro. To Computer Applications Concepts or Information Literacy	3	0	3
ADJ 100	Survey of Criminal Justice	3	0	3
ADJ 130	Criminal Law	3	0	3
ADJ 133	Ethics & the Criminal justice	3	0	3
	Professional			
SOC 236	Criminology	3	0	3
	Total	19	0	19
Total Credits	for Career Studies Certificate			19

Law Enforcement

Career Studies Certificate

Program Coordinator: Robin Widener • OTC 110 • 276-739-2408 **Length:** Two Semesters

Purpose: The curriculum in the Administration of Justice Career Studies Certificate is designed to improve the knowledge and skills of the practitioner in either the field of corrections or law enforcement. This program focuses more intensely on the aspect of each field and allows the student to obtain certifications in CPR and Mental Health First Aid. This Career Studies Certificate is designed to prepare individuals for career service or advancement in the either the field of corrections or law enforcement.

Occupational Objectives: The curriculum will provide skills for the advancement and/or employment in the following occupations: law enforcement officer, investigator, probation and parole officer, security officer, juvenile services worker, corrections officer, local, state, and federal enforcement officers.

Program notes: In addition to meeting the admission requirements established for the college, students in the Administration of Justice Program will need to meet the specialized requirements for the criminal justice agency with which he or she plans to seek employment. This includes the absence of any felony convictions or misdemeanor convictions involving moral turpitude or violence. ADJ students are required to earn a "C" or higher grade in the ADJ classes and in SOC 235 and SOC 236. If a student earns below a "C" in those classes, he or she must repeat the course and earn a final grade of "C" or better.

Course Number	Course Title	Lecture Hours	Lab Hours	Credits
First Semest	er (Fall)			
ADJ 118	Crisis Intervention	3	0	3
ADJ 171	Forensic Science I	3	3	4
ADJ 236	Principles of Investigation	3	0	3
	Total	9	3	10
Second Semo	ester (Spring)			
ADJ 237	Advanced Criminal Investigation ¹	3	0	3
ADJ 138	Defensive Tactics ²	2	0	2
HLT 121	Introduction to Drug Use and Abuse	3	0	3
	Total	8	0	8
Total Credits	for Career Studies Certificate		·	18

Footnotes:

¹Prerequisite: ADJ 236 or division approval ²Includes CPR/First Aid Certification



Corrections

Career Studies Certificate

Program Coordinator: Robin Widener • OTC 110 • 276-739-2408 **Length:** Two Semesters

Purpose: The curriculum in the Corrections Career Studies Certificate is designed to improve the knowledge and skills of the practitioner in either the field of corrections or law enforcement. This program focuses more intensely on the aspect of each field and allows the student to obtain certifications in CPR and Mental Health First Aid. This Career Studies Certificate is designed to prepare individuals for career service or advancement in the either the field of corrections or law enforcement.

Occupational Objectives: The curriculum will provide skills for the advancement and/or employment in the following occupations: law enforcement officer, investigator, probation and parole officer, security officer, juvenile services worker, corrections officer, local, state, and federal enforcement officers.

Program notes: In addition to meeting the admission requirements established for the college, students in the Administration of Justice Program will need to meet the specialized requirements for the criminal justice agency with which he or she plans to seek employment. This includes the absence of any felony convictions or misdemeanor convictions involving moral turpitude or violence. ADJ students are required to earn a "C" or higher grade in the ADJ classes and in SOC 235 and SOC 236. If a student earns below a "C" in those classes, he or she must repeat the course and earn a final grade of "C" or better.

Course Number	Course Title	Lecture Hours	Lab Hours	Credits
First Semest	er (Fall)			
ADJ 118	Crisis Intervention	3	0	3
SOC 235	Juvenile Delinquency	3	0	3
ADJ 140	Introduction to Corrections	3	0	3
	Total	9	0	9
Second Seme	ester (Spring)			
ADJ 246 or AD 248	OJ Corrections Counseling or Probation, Parole & Treatment	3	0	3
ADJ 138	Defensive Tactics ¹	2	0	2
HLT 121	Introduction to Drug Use and Abuse	3	0	3
	Total	8	0	8
Total Credits	for Career Studies Certificate			17

Footnote:

¹Includes CPR/First Aid Certification

Fire Science Technology

Career Studies Certificate

Program Coordinator: Beth Page • LRC 221• 276-739-2401 Dean, Professional & Technical Studies

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



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.

Criminal background or DSS record check may prevent you from participating in a Coordinated Internship, Experiential Learning project, or from obtaining employment in this field.

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 Numbe	r 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 Semest	er (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

Course Number	Course Title	Lecture Hours	Lab Hours	Credits
Third Semester	(Fall)			
PSY 236	Adolescent Psychology	3	0	3
SOC 215 or HMS 230	Sociology of the Family or Ethics in Human Services 1	3	0	3
ECO 201 or 202	Principles of Economics I or II	3	0	3
EEE	Degree Related Elective ²	3	0	3
PBS 266	Group Leadership	3	0	3
	Total	15	0	15
Fourth Semeste	er (Spring)			
PSY 237	Adult Psychology	3	0	3
HMS 227	Change Agent	3	0	3
SOC 268 or HMS 250	Social Problems or Principles of Case Management ¹	3	0	3
EEE	Humanities Elective	3	0	3
CST 100	Principles of Public Speaking	3	0	3
	Total	15	0	15

¹HMS option recommended for students seeking employment in Human Services or transfer in Social work

 $^2\text{Recommended}$ degree related elective is HMS 290. Other options include HMS 122, 145, 251, 252, 258, 270, 230, 260 or PSY 215. Other options include HIS 121, HIS 122.

Students are urged to follow the <u>recommended pathway</u> for this degree when choosing electives.



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.

Criminal background or DSS record check may prevent you from participating in a Coordinated Internship, Experiential Learning project, or from obtaining employment in this field.

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 Semes	ter (Fall)			
ENG 111	College Composition I	3	0	3
SDV 101	Orientation to College Success	1	0	1
SOC 200	Principles of Sociology ¹	3	0	3
ITE 115 or ITE 119	Introduction to Computer Applications or Information Literacy	3	0	3
HMS 100	Intro. to Human Services	3	0	3
PSY 120	Human Relations	3	0	3
	Total	16	0	16
Second Sem	ester (Spring)			
ENG 112	College Composition II	3	0	3
MTH 155	Statistical Reasoning	3	0	3
PBS 265	Interviewing ²	3	0	3
HLT 110	Concepts of Personal and Community Health	3	0	3
EEE or HMS 290	Degree Related Elective or Coordinated Internship ³	3	0	3
	Total	15	0	15
Total Minim	um Credits for Certificate			31

Footnotes:

¹Students may substitute PSY 200.

²Students may substitute PBS 266 Group Leadership for this course.

³Students may take any HMS course to meet this requirement or participate in a Coordinated Internship. HMS 290 may be taken after satisfactory completion of the first semester with Faculty Curriculum Advisor approval.

American Sign Language

Career Studies Certificate

Program Coordinator: Barbara Manuel • OTC 108 • 276-739-2432 **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.

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

This program introduces American Sign Language (ASL) and provides basic skills for working with the Deaf or Hard-of Hearing.



Early Childhood Education

Career Studies Certificate

(Pending Approval by SACSCOC)

Program Coordinator: Winona Fleenor • LRC 208 • 276-739-2493

Length: Two semesters (one year)

Purpose: This curriculum is an introduction to the field, designed to provide entry-level competencies documented by Virginia's Competencies for Early Childhood Professionals. These competencies include health, safety and nutrition, understanding child growth and development, appropriate child observation and assessment, partnering with families and community, learning environment, effective interactions, program management, teacher qualifications and professional development curriculum.

Program Objectives: Employment opportunities include positions in childcare centers, Head Start and Early Head Start classrooms, family day care homes, preschool programs, centers for children with special needs, residential childcare facilities and industry associated centers.

Admission Requirements: Applicants must meet the requirements for admission to credit-level coursework established by the college.

The following is required in order to be eligible for placement in CHD 165:

- Submission to and no findings for The State of Virginia Criminal History & Sex Offenders Records Check (SP-167) and the Virginia Child Abuse and Neglect Central Registry.
- Students must also sign and complete the Sworn Statement or Affirmation for Child Day Programs.
- Documentation of a negative TB screening.

Each student is responsible for any fees or costs associated with background checks. Students are responsible for transportation to and from field sites used for laboratory experiences. Inability to complete the above or contrary results will disqualify the student from completing the course and the program.

Course Number	Course Title	Lecture Hours	Lab Hours	Credits
First Semest	er (Fall)			
CHD 120	Introduction to Early Childhood Education	3	0	3
CHD 145	Creative Activities for Children	3	0	3
CHD 205	Guiding the Behavior of Children	3	0	3
EDU 235	Health Safety and Nutritional Education	3	0	3
SDV 101	Orientation to College Success	1	0	1
CHD 165	Observation and Participation in Early Childhood Setting	2	2	3
Total Credits	for Career Studies Certificate	15	2	16

Advanced Early Childhood Education

Career Studies Certificate

(Pending Approval by SACSCOC)

Program Coordinator: Winona Fleenor • LRC 208 • 276-739-2493

Length: Two semesters (one year)

Purpose: This curriculum is designed to build on entry-level skills as demonstrated in the Early Childhood Career Studies Certificate and as documented by the Virginia's for Early Childhood Professionals. These competencies include child health, safety and nutrition, understanding child growth and development, appropriate child observation and assessment, partnering with families and community, learning environment, effective interactions, program management, teacher qualifications and professional development curriculum.

Program Objectives: Employment opportunities include positions in childcare centers, Head Start and Early Head Start classrooms, family day care homes, preschool programs, centers for children with special needs, residential childcare facilities and industry associated centers.

Admission Requirements: Applicants must meet the requirements for admission to credit-level coursework established by the college.

Course Number	Course Title	Lecture Hours	Lab Hours	Credits
First Semeste	er (Fall)			
CHD 210	Introduction to Exceptional Children	3	0	3
CHD 216	Early Childhood Programs, School, and Social Change	3	0	3
EDU 200	Introduction to teaching as a Profession	3	0	3
CHD 166	Infants and Toddlers Programs	3	0	3
CHD 118	Language Arts for Children	3	0	3
CHD 146	Math, Science and Social Studies for Children	2	2	3
Total Credits for Career Studies Certificate		17	2	18

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 Credits	for Career Studies Certificate	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.



Substance Abuse Counselor- Assistant

Career Studies Certificate

Program Coordinator: Winona Fleenor • LRC 208 • 276-739-2493

Length: Two semesters (one year)

Purpose: This career studies certificate program in Substance Abuse Counselor-Assistant is designed to meet the educational requirements needed to secure the Virginia Certified Substance Abuse Counselor Assistant (CSAC-A) credential. In order to complete the credential, students must complete specific didactic training, supervised experiential training, and must also take and pass the Virginia State Constructed CSAC-A exam. This certificate program meets the didactic training requirements.

Occupational Objectives: Students who complete the program may enter the labor market in jobs which lead to a variety of positions, such as:

Substance Abuse Counselor- Assistant Social Services Liaison Case Management Aide Client Advocate Social Services Para-professional

Admission Requirements: A student eligible for admission to the college can normally be considered for admission to the Substance Abuse Counselor-Assistant 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.

Criminal background or DSS record check may prevent you from participating in a Coordinated Internship, Experiential Learning project, or from obtaining employment in this field.

Additional information for those who wish to apply for the Certified Substance Abuse Counselor-Assistant: According to the Virginia Board of Counseling Handbook for CSAC-A applicants, if you have a criminal conviction, The Board requires that you submit a certified copy of all conviction orders (obtained from the courthouse of record); evidence that all court ordered requirements were met (i.e., letter from the probation officer if on supervised probation, paid fines and restitution, etc.); a letter from the applicant explaining the factual circumstances leading to the criminal offense(s); and letters from employers concerning work performance (specifically from Counseling-related employers, if possible).

Program Requirements: All of the courses are designed to provide training in this specialized field of human services in such areas as: substance abuse counseling, safety and ethics, human behavior, crisis intervention and professionalism. Upon completion of the two-semester program, the student will be awarded a Career Studies Certificate in Substance Abuse Counseling Assistant.

Course Number	Course Title	Lecture Hours	Lab Hours	Credits
First Seme	ster (Fall)			
HMS 141	Group Dynamics I	3	0	3
HMS 258	Case Management and Substance Abuse	3	0	3
HMS 251	Substance Abuse I	3	0	3
HMS 145	Effects of Psychoactive Drugs	3	0	3
	Total	12	0	12
Second Ser	Second Semester (Spring)			
HMS 270	Treatment Systems	3	0	3
HMS 252	Substance Abuse II ¹	2	0	2
111413 232	Substance Abuse II ²	3	0	3
HMS 260	Substance Abuse Counseling	3	0	3
		-	Ü	-
HMS 260	Substance Abuse Counseling	3	0	3
HMS 260 HMS 198	Substance Abuse Counseling Seminar and Project	3 1	0	3

Footnote:

¹Prerequisite: HMS 251



Curriculum & Program Requirements

Workforce Development & Continuing Education



FastForward is a high-demand program helping Virginians get the jobs they want and the salaries they need. FastForward programs are short-term training courses offered through Virginia's Community Colleges to help you fast-track your career.

Change your future in weeks. Not years.

Phlebotomy Technician Program (NHA)

Phlebotomy Technicians are critical team members at hospitals, diagnostic laboratories and blood donor centers. As advancements in medical technology rise, it's an especially exciting time to begin a career in this thriving field. Earning your Phlebotomy Technician Certification (CPT) from NHA can give employers confidence in your skills and abilities. Set yourself up for success and reach your career goals in the rewarding healthcare industry. The phlebotomy training program is broken into two segments: 60 hours of classroom and 40 hours of externship (must have 40 successful, unaided blood collections including venipunctures and skin punctures). Students will be trained to collect, transport, handle, and process blood and other specimens for laboratory analysis using venipuncture and microcollection techniques.

VA residents (FastForward*): \$733 | Regular Cost: \$2,199 *Additional financial assistance available for those who qualify.

Six Sigma Green Belt

The course presents the Lean Six Sigma Green Belt body of knowledge in a simulation workshop, application oriented manner. Lean Six Sigma Green Belt tools will be demonstrated using a project simulation that takes the participants through the D-M-A-I-C process improvement methodology. The course format is developed around a Train-and-Do approach. Classroom activities will include a combination of lecture and simulation exercises.

VA residents (FastForward*): \$800 | Regular Cost: \$2,400 Additional financial assistance available for those who qualify.

Six Sigma Yellow Belt

Six Sigma Yellow Belt training provides insight to the techniques of Six Sigma, its metrics, and basic improvement methodologies. A yellow belt certifies knowledge of how to integrate Six Sigma methodologies for the improvement of production and transactional systems to better meet customer expectations and bottom-line objectives of their organization.

VA residents (FastForward*): \$400 | Regular Cost: \$1,200 *Additional financial assistance available for those who qualify.

Certified Billing & Coding Specialist

This course is designed for healthcare and billing professionals, people interested in the business aspect of healthcare, and office managers. This class prepares students for entry-level medical office positions. Student will learn to collect, analyze, and manage the information that steers the healthcare industry. Training will be provided in insurance and medical claims processing in accordance with professional, legal, and insurance industry standards. Students will become trained as an invaluable part of the healthcare system. This program and curriculum is written around the test blueprints. This course and the CBCS Exam is the theory and concept behind medical billing and coding. It is your first step in advancing your

VA residents (FastForward*): \$875 | Regular Cost: \$2,625 Additional financial assistance available for those who qualify.

Certified Production Technician

The purpose of the Certified Production Technician (CPT) program is to recognize through certification, individuals who demonstrate mastery of the core competencies of manufacturing production at the front-line (entry-level through front-line supervisor) through successful completion of the certification assessments. The goal of the CPT certification program is to raise the level of performance of production workers both to assist the individuals in finding higher-wage jobs and to help employers ensure their workforce increases the company's productivity and competitiveness.

The CPT program consists of four individual certificate modules: Safety; Quality Practices & Measurement; Manufacturing Processes & Production; and Maintenance Awareness. Candidates must earn the four certificates to receive the full CPT certification.

VA residents (FastForward*): \$630 | Regular Cost: \$1,890 *Additional financial assistance available for those who qualify.

Commercial Driver's License Program

VHCC is partnering with a local company to provide this critical training for those aspiring to be a professional truck driver holding a CDL-A endorsement. More than 35,000 jobs are currently available nationwide and local, regional and over-the-road trucking companies are looking for qualified drivers. Local, regional and Over-the-Road companies are looking for qualified drivers. Students often hear from trucking company recruiters while attending training and could have job offers before they graduate.

VA residents (FastForward*) \$1,333.33 | Regular Cost: \$4,000 Additional financial assistance available for those who qualify.

Photovoltaic - Entry Level

The NABCEP PV Associate Program is designed for those individuals wanting to get into the solar field; achievement of the NABCEP PV Associate Certification is a way for candidates to demonstrate that they have achieved a basic knowledge of the fundamental principles of the application, design, installation, and operation of grid-tied and stand-alone PV Systems. As the market grows for PV, Solar Heating and Small Wind technologies, individuals with an industry-validated NABCEP Associate Exam credential may find that their employment opportunities are enhanced and their resumes distinguished. Employers can have confidence that they are hiring or promoting someone who is committed to learning and professionalism, and who has demonstrated a strong understanding of the basic terms and operational aspects of a PV system.

VA residents (FastForward*): \$475 | Regular Cost: \$1,425 Additional financial assistance available for those who qualify.

Remote Airman Training

Have you heard the Federal Aviation Authority's Part 107 UAS (Unmanned Aerial Systems) certification test is not easy? It is true! It requires in-depth knowledge of many FAA regulations in regards to not only commercial UAS operations but general aviation knowledge. Reading and understanding TAC or sectional chart can take time to master. However, these charts are critical to determine the classification of airspace that you will be operating. In training, we will review the five main testing areas (Regulations, National Airspace System, Weather, Loading/Performance, and Operations) as well as other information that pertains to commercial operations of UAS under FAA Part 107. You will have the opportunity to take practice tests as well as participate in planning a UAS mission. By the end of the training, you will be prepared for the FAA Part 107 UAS (Unmanned Aerial Systems) certification test.

Tuition: VA residents (FastForward*) \$122 | Regular cost: \$366

*Additional financial assistance available for those who qualify. Tuition includes the FAA Part 107 UAS certification test. Individuals must be 16 years of age or older to sit for the FAA exam.

Nurse Aide

This course teaches basic care skills with emphasis on physical, social, emotional, and spiritual needs of patients. This course covers procedures in personal care communication skills and interpersonal relations, 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. Applies theory through hands on experience in a licensed facility. This course meets the requirements established by the Virginia Board of Nursing.

Tuition: VA residents (FastForward*) \$400 | Regular Cost: \$1,200. *Additional financial assistance available for those who qualify.

For more information call (276) 739-2430 or email workforce@vhcc.edu www.vhcc.edu/workforce



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:

- 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.
- 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.
- 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 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 290 Coordinated Internship (3 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. 1-5 credits

ACC 297 Co-op (2-5 credits)

Requires curriculum 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 118 - Crisis Intervention and Critical Issues

Addresses basic problems involved in crisis intervention and current critical issues in law enforcement and the administration of justice; emphasizes practical approaches to discover and implement solutions. Lecture 3 hours per week. 3 credits

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 133 - Ethics and the Criminal Justice Professional

Examines ethical dilemmas pertaining to the criminal justice system, including those in policing, courts and corrections. Focuses on some of the specific ethical choices that must be made by the criminal justice professional. Lecture 3 hours per week. 3 credits

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, personnel and functioning of traditional and innovative probation and parole programs; considers major treatment models for clients. Lecture 3 hours per week.

ADJ 290 Coordinated Internship (3 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. 1-5 credits

ADJ 297 Co-op (2-5 credits)

Requires curriculum advisor approval.

Cooperative education in police science. Designed to provide practical work experience for the police science student. Minimum on-the-job training is $10\ \text{hours}$ 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 corequisite (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 corequisite (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 corequisite (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 corequisite (AST 144) may be required

Teaches creating and editing documents, including line and page layouts, columns, fonts, search/replace, cut/paste, spell/thesaurus, and advanced editing and formatting features of word processing software. 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 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.



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 corequisite (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 & AST 141. Additional recommended prerequisite- AST 238.*

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 corequisite (AST 237) may be required. Lecture 2-4 hours per week.

AST 238 - Word Processing Advanced Operations (2-4 credits) Prerequisite- AST 141.

A laboratory corequisite (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 corequisite (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 corequisite (AST 241) may be required. Lecture 2-4 hours per week.

AST 243 Office Administration I (3 credits)

Prerequisite: AST 101 (or equivalent) & AST 141. Additional recommended prerequisites- AST 147, AST 238, and AST 232.

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 corequisite (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 corequisite (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 290 Coordinated Internship (3 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. 1-5 credits

AST 297 Co-op (1-5 credits)

Requires curriculum 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.

Agriculture

AGR 141 Introduction to Animal Science and Technology(4 credits)

Introduces the science and technology involved in sustainable animal production and management practices. Includes beef, sheep, horses, dairy, swine, goats, and poultry, with emphasis on practical experiences in laboratory and farm settings.

Lecture 3 hours. Laboratory 2-3 hours. Total 5-6 hours per week.

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 144 Agriculture Human Resource Management (3 credits)

Covers principles and management practices utilized to attract, retain and motivate agricultural employees. Emphasizes interviewing techniques, employer/employee relationships, motivation theory, legal issues, safety, and environmental concerns. Includes development of team building and interpersonal skills through activities and cases. Explores diversity and cultural differences at they apply to human resource compliance and performance issues. 3 Lecture, 0 Lab, 3 Credits

AGR 299 Supervised Study (1 credit)

Assigns problems for independent study incorporating previous instruction and supervised by the instructor.

May be repeated for credit. Variable hours.

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 121 - Air Conditioning and Refrigeration I

Studies refrigeration theory, characteristics of refrigerants, temperature, and pressure, tools and equipment, soldering, brazing, refrigeration systems, system components, compressors, evaporators, metering devices. Presents charging and evaluation of systems and leak detection. Explores servicing the basic system. Explains use and care of oils and additives and troubleshooting of small commercial systems. Part I of II. Lecture 2-3 hours. Laboratory 2-3 hours. 3-4 credits



AIR 122 - Air Conditioning and Refrigeration II

Studies refrigeration theory, characteristics of refrigerants, temperature, and pressure, tools and equipment, soldering, brazing, refrigeration systems, system components, compressors, evaporators, metering devices. Presents charging and evaluation of systems and leak detection. Explores servicing the basic system. Explains use and care of oils and additives and troubleshooting of small commercial systems. Part II of II. Lecture 2-3 hours. Laboratory 2-3 hours. 3-4 credits

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 190 Coordinated Internship (3 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. 1-5 credits

AIR 197 Co-op (2-5 credits)

Requires curriculum advisor approval.

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 276 - Refrigerant Usage EPA Certification

Prepares HVAC technicians for a refrigerant certification test mandated by the Environmental Protection Agency (EPA). Reviews refrigerant recovery, recycle, and reclamation procedures for service work associated with air conditioning and refrigeration. Examines environmental impact including ozone depletion resulting from refrigeration utilization.

Lecture 1-2 hours. 1-2 credits.

Students should have previous training and/or working knowledge of vapor-compression, common service equipment and procedures in HVAC/R.

AIR 290 Coordinated Internship (3 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. 1-5 credits

AIR 297 Co-op (2-5 credits)

Requires curriculum advisor approval.

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.



ASL 201 American Sign Language III (3-4 credits).

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. Encourages contact with the Deaf Community to enhance linguistic and cultural knowledge. Part I of II. Lecture 3-4 hours. Total 3-4 hours per week.

ASL 202 American Sign Language IV (3-4 credits).

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. Encourages contact with the Deaf Community to enhance linguistic and cultural knowledge. Part II of II. Lecture 3-4 hours. Total 3-4 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. * **This is a Passport Transfer course.** 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. *This is a Passport Transfer course. 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 - General Biology I (4 credits)

Prerequisite: Readiness to enroll in ENG 111 plus completion of developmental math unit 3 required or placement in unit 4 or above.

Focuses on foundations in cellular structure, metabolism, and genetics in an evolutionary context. Explores the core concepts of evolution; structure and function; information flow, storage and exchange; pathways and transformations of energy and matter; and systems biology. Emphasizes process of science, interdisciplinary approach, and relevance of biology to society. Part I of a two-course sequence. *This is a Passport Transfer course. Lecture 3 hours. Recitation and laboratory 3 hours. Total 6 hours per week.

BIO 102 - General Biology II (4 credits)

Focuses on diversity of life, anatomy and physiology of organisms, and ecosystem organization and processes in an evolutionary context. Explores the core concepts of evolution; structure and function; information flow, storage and exchange; pathways and transformations of energy and matter; and systems biology. Emphasizes process of science, interdisciplinary approach, and relevance of biology to society. Part II of a two-course sequence.

Lecture 3 hours. Recitation and laboratory 3 hours. Total 6 hours per week. 4 credits Prerequisite is BIO 101

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 (4 credits)

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.

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.

BIO 299 Supervised Study (1 credit).

Assigns problems for independent study incorporating previous instruction and supervised by the instructor.

May be repeated for credit. Variable hours.

Building

BLD 140 Principles of Plumbing Trade I (3 credits)

Studies the plumbing trade, the structure of the plumbing trade, apprenticeship standards, job safety, tools of the trade, the approved installation of plumbing materials, types of sanitary drainage pipe and piping layout of sanitary piping. Lecture 3 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 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.

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 290 Coordinated Internship (3 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. 1-5 credits

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 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.

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 - General Chemistry I (4 credits)

Prerequisite: Completion of developmental mathematics or placement into MTH 161.

Explores the fundamental laws, theories, and mathematical concepts of chemistry. Designed primarily for science and engineering majors. Requires a strong background in mathematics. Part I of II. **This is a Passport Transfer course.** Lecture 3 hours. Laboratory 3 hours. Total 6 hours per week.

CHM 112 - General Chemistry II (4 credits)

Explores the fundamental laws, theories, and mathematical concepts of chemistry. Designed primarily for science and engineering majors. Requires a strong background in mathematics. Part II of II. Lecture 3 hours. Laboratory 3 hours. Total 6 hours per week. Prerequisite CHM 111

CHM 241 - 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.

CHM 299 Supervised Study (1 credit).

Assigns problems for independent study incorporating previous instruction and supervised by the instructor.

May be repeated for credit. Variable hours.

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 146 - Math, Science, and Social Studies for Children

Provides experiences in content, methods, and materials for the development of math, science, and social studies skills in children. Emphasis will be on developing strategies for using various resources to facilitate children's construction of knowledge. Addresses strategies for intervention and support for children with special needs and English Language Learners. Lecture 2 hours. Laboratory 2 hours. Total 4 hours per week. 3 credits

CHD 165 - Observation and Participation in Early Childhood/Primary Settings

Focuses on observation as the primary method for gathering information about children in early childhood settings. Emphasizes development of skills in the implementation of a range of observation techniques. Includes 40 hours of field placement in early learning setting. Seminar 2 hours. Field placement 2 hours. 3 credits

CHD 166 - Infant and Toddler Programs

Examines child growth and development from birth to 36 months. Focuses on development in the physical, cognitive, social, emotional, and language domains. Emphasizes the importance of the environment and relationships for healthy brain development during the child's first three years of life. Investigates regulatory standards for infant/toddler care giving. Lecture 3 hours per week. 3 credits

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.

CHD 210 - Introduction to Exceptional Children

Reviews the history of and legal requirements for providing intervention and educational services for young children with special needs. Studies the characteristics of children with a diverse array of needs and developmental abilities. Explores concepts of early intervention, inclusion, guiding behavior and adapting environments to meet children's needs. Lecture 3 hours per week. 3 credits

CHD 216 - Early Childhood Programs, School, and Social Change

Explores methods of developing positive, effective relations with families to enhance their developmental goals for children. Considers culture and other diverse needs, perspectives, and abilities of families and educators. Emphasizes advocacy and public policy awareness as an important role of early childhood educators. Describes risk factors and identifies community resources. Lecture 3 hours per week. 3 credits



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 147 - Costume Construction

Introduces students to the basic techniques, materials and methods of theatrical costume construction. Covers hand sewing, machine sewing, familiarity with different types of materials and their uses, the use of patterns, shop safety, distressing techniques and wardrobe duties. Lecture 2 hours. Laboratory 2 hours. Total 4 hours per week. 3 credits

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 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.

CST 297 Cooperative Education (1-5 credits) Requires curriculum 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.

Computer Science

CSC 200 - Introduction to Computer Science

Provides broad introduction to computer science. Discusses architecture and function of computer hardware, including networks and operating systems, data and instruction representation and data organization. Covers software, algorithms, programming languages and software engineering. Discusses artificial intelligence and theory of computation. Includes a hand-on component. Lecture 3-4 hours per week. 3-4 credits

CSC 201 - Computer Science I

Introduces algorithm and problem solving methods. Emphasizes structured programming concepts, elementary data structures and the study and use of a high level programming language. Lecture 4 hours per week. 4 credits

CSC 202 - Computer Science II

Examines data structures and algorithm analysis. Covers data structures (including sets, strings, stacks, queues, arrays, records, files, linked lists, and trees), abstract data types, algorithm analysis (including searching and sorting methods), and file structures. Lecture 4 hours. Total 4 hours per week. Prerequisite: CSC 201. 4 credits

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.

HRI 158 Sanitation and Safety (3 credits)

Covers the moral and legal responsibilities of management to insure a sanitary and safe environment in a food service operation. Emphasizes the causes and prevention of foodborne illnesses in conformity with federal, state and local guidelines. Focuses on OSHA standards in assuring safe working conditions. Lecture 3 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 (2-3 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 1-2 hours. Laboratory 2-3 hours. Total 3-5 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.

DNA 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.

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 government spending and taxation, along with international trade and investments. *This is a Passport Transfer course. 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 (3credits)

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 approval.

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 290 Coordinated Internship (3 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. 1-5 credits

ELE 297 Co-op (2-5 credits)

Requires curriculum 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 Corequisite: 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 corequisite to both EMS 111 and EMS 113. Lab 2 hours; 2 hours per week

EMS 121 Preparatory Foundations (2 credits)

Prerequisite: Current Virginia EMT and CPR certification as approved by the Virginia Office of EMS

Introduces fundamental concepts established by the National Emergency Medical Service Education Standards (NEMSES) for Advanced EMT and Paramedic curricula. Includes EMS systems, introduction to research, workforce safety and wellness, EMS system communications, introduction to public health, legal and ethical issues. Lecture 2 hours. Total 2 hours per week.

EMS 123 EMS Clinical Preparation (1 credit)

Prerequisite: Current Virginia EMT and CPR certification as approved by the Virginia Office of EMS

Introduces the student to local clinical agencies and prepares the student for clinical activities above the level of EMT. Includes prerequisites required by clinical affiliates, therapeutic communication, primary assessment, history taking, secondary assessment, reassessment, monitoring devices and documentation. Laboratory 2 hours. Total 2 hours per week.

EMS 125 Basic Pharmacology (1 credit)

Prerequisite: Current Virginia EMT and CPR certification as approved by the Virginia Office of EMS Corequisite: EMS 126

Prepares students to demonstrate competency concerning basic principles of pharmacology, drug dosage calculations and medication administration. Introduces medications listed in the Advanced EMT (AEMT) scope of practice. Lecture 1 hour. Total 1 hour per week.

EMS 126 Basic Pharmacology Lab (1 credit)

Prerequisite: Current Virginia EMT and CPR certification as approved by the Virginia Office of EMS Corequisite: EMS 125

Focuses on the safe administration of medications in the emergency setting. Includes drug dose calculation and covers multiple routes of administration including oral, intramuscular, subcutaneous, intravenous, and intraosseous and other methods within the scope of practice for the emergency care provider. Laboratory 2 hours. Total 2 hours per week.



EMS 127 Airway, Shock and Resuscitation (1 credit)

Prerequisite: Current Virginia EMT and CPR certification as approved by the Virginia Office of EMS Corequisite: EMS 128

Introduces concepts associated with pre-hospital emergency care of the individual experiencing airway difficulty or in need of resuscitation or shock management. Lecture 1 hour. Total 1 hour per week.

EMS 128 Airway, Shock and Resuscitation Lab (1 credit) Prerequisite: Current Virginia EMT and CPR certification as approved by the Virginia Office of EMS Corequisite: EMS 127

Focuses on specific skills related to airway, resuscitation and shock management. Laboratory 2 hours. Total 2 hours per week.

EMS 135 Emergency Medical Care (2 credits)

Prerequisites: EMS 121, EMS 123, EMS 125, EMS 126, EMS 127, EMS 128 Corequisite: EMS 136

Prepares the student to assess and manage patients with common medical emergencies. Lecture 2 hours. Total 2 hours per week.

EMS 136 Emergency Medical Care Lab (1 credit) Prerequisites: EMS 121, EMS 123, EMS 125, EMS 126, EMS 127, EMS 128 Corequisite: EMS 135

Focuses on specific skills related to the assessment and management of common medical emergencies. Laboratory 2 hours. Total 2 hours per week

EMS 137 Trauma Care (1 credit)

Prerequisites: EMS 121, EMS 123, EMS 125, EMS 126, EMS 127, EMS 128 Corequisite: EMS 138

Prepares the student to assess and manage injured patients, developing his/her problem-solving ability in the treatment of trauma involving various body systems. Lecture 1 hour. Total 1 hour per week.

EMS 138 Trauma Care Lab (1 credit)

Prerequisites: EMS 121, EMS 123, EMS 125, EMS 126, EMS 127, EMS 128 Corequisite: EMS 137

Focuses on the skills required for the assessment and management of patients with traumatic injury. Laboratory 2 hours. Total 2 hours per week.

EMS 139 Special Populations (1 credit)

Prerequisites: EMS 121, EMS 123, EMS 125, EMS 126, EMS 127, EMS 128 Corequisite: EMS 140

Focuses on the pre-hospital assessment and management of patients in a specific population including pediatrics, geriatrics, obstetrics/gynecology (OB/GYN), bariatric, abuse, sexual assault and special needs. Lecture 1 hour. Total 1 hour per week.

EMS 140 Special Populations Lab (1 credit)

Prerequisites: EMS 121, EMS 123, EMS 125, EMS 126, EMS 127, EMS 128 Corequisite: EMS 139

Develops skills related to the assessment and management of patients in a specific population including pediatrics, geriatrics, obstetrics/gynecology (OB/GYN), bariatric, abuse, sexual assault and

EMS 141 Cardiovascular Care (2 credits)

Prerequisites: EMS 121, EMS 123, EMS 125, EMS 126, EMS 127, EMS 128 Corequisite: EMS 142

Focuses on assessment and management of cardiac-related emergencies. Covers basic dysrhythmia recognition and relates it to overall cardiac patient care. Lecture 2 hours. Total 2 hours per week.

EMS 142 Cardiovascular Care Lab (1 credit)

special needs. Laboratory 2 hour. Total 2 hours per week.

Prerequisites: EMS 121, EMS 123, EMS 125, EMS 126, EMS 127, EMS 128 Coreauisite EMS 141

Focuses on skills involved in the assessment and management of cardiac-related Laboratory 2 hours. Total 2 hour 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. Corequisite: 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/Corequisite: 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 Corequisites: EMS 155 Continue the Virginia office of Emergency Medical Sorvices Intermedia

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 164 Advanced Medical Life Support (AMLS) (1 credit)

Covers current topics of care for adult patients suffering extensive medical conditions and emergencies, and offers certification as an Advanced Medical Life Support (AMLS) as defined by the National Association of Emergency Medical Technicians (NAEMT). Lecture 1 hour. Total 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) Corequisite: 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) *Corequisite: 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 175 Paramedic Clinical Experience I (2 credits) Prerequisites: EMS 121, EMS 123, EMS 125, EMS 126, EMS 127, EMS 128

Introduces students to live patient assessment and management in the clinical setting. Begins a continuum of learning involving live patients that leads to entry-level competence at the paramedic level. Laboratory 6 hours. Total 6 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 202 Paramedic Pharmacology (2 credits) Prerequisites: EMS 125, EMS 126, EMS 135, EMS 136, EMS 137, EMS 138, EMS 139, EMS 140, EMS 141, EMS 142

Focuses on advanced pharmacological interventions, medications and their effects. Lecture 2 hours. Total 2 hours per week.

EMS 203 Advanced Patient Care (2 credits) Prerequisites: EMS 135, EMS 136, EMS 137, EMS 138, EMS 139, EMS 140, EMS 141, EMS 142 Corequisite: EMS 204

Focuses on the comprehensive assessment and management of patients in out-of-hospital and inter-facility scenarios. Content is centered on problem-solving through integration of didactic, psychomotor and affective curricula. Lecture 2 hours. Total 2 hours per week.

EMS 204 Advanced Patient Care Lab (2 credits) Prerequisites: EMS 135, EMS 136, EMS 137, EMS 138, EMS 139, EMS 140, EMS 141, EMS 142 Corequisite: EMS 203

Focuses on the comprehensive assessment and management of out-of-hospital and inter-facility patients using scenario-based learning. Laboratory 4 hours. Total 4 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 206 Pathophysiology for the Health Professions (3 credits) Prerequisites: BIO 145 or BIO 141-142 combination

Focuses on the pathological processes of disease with emphasis on the anatomical and physiological alterations of the human body systems. Includes diagnosis and management appropriate to the advanced health care provider in and out of the hospital environment. Lecture 3 hours. Total 3 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 210 EMS Operations (1 credit)

Prerequisites: EMS 135, EMS 136, EMS 137, EMS 138, EMS 139, EMS 140, EMS 141, EMS 142

Focuses on matters related to Emergency Medical Services (EMS) operations, incident and scene safety and awareness, triage, multiple and mass casualty incident operations and medical incident management (command and control of EMS incidents). Laboratory 2 hours. Total 2 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 212 Leadership and Professional Development (1 credit) Prerequisites: EMS 135, EMS 136, EMS 137, EMS 138, EMS 139, EMS 140, EMS 141, EMS 142

Focuses on the development of leadership within the field of Emergency Medical Services (EMS), topics include civic engagement, personal wellness, resource management, ethical considerations in leadership and research. Lecture 1 hour. Total 1 hour 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 216 Paramedic Review (1 credit)

Provides the student with intensive review for the practical and written portions of the National Registry Paramedic exam. May be repeated once, for credit. Laboratory 2 hours. Total 2 hours 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 247 Paramedic Clinical Experience II (1 credit) Prerequisites: EMS 135, EMS 136, EMS 137, EMS 138, EMS 139, EMS 140, EMS 141, EMS 142, EMS 175

Continues the student experience with live patient assessment and management in the clinical setting. It is the second step in a continuum of learning involving live patients that leads to entry-level competence at the paramedic level. Laboratory 3 hours. Total 3 hours per week.

EMS 248 Paramedic Comprehensive Field Experience (2 credits) Prerequisites: EMS 135, EMS 136, EMS 137, EMS 138, EMS 139, EMS 140, EMS 141, EMS 142, EMS 175

Expands the student experience with live patient assessment and management into the field setting. It is the third step in a continuum of learning involving live patients that leads to entry-level competence at the paramedic level.

Laboratory 6 hours. Total 6 hours per week.

EMS 249 Paramedic Capstone Internship (2 credits) Prerequisites: EMS 202, EMS 203, EMS 204, EMS 206, EMS 247, EMS 248

Provides summative evaluation of the Paramedic student in the cognitive, psychomotor, and affective domains. Laboratory 6 hours. Total 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 support 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 ours. 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 290 Coordinated Internship (3 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. 1-5 credits

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 121 - Foundations of Engineering (2 credits)

Discusses the engineering profession, including engineering ethics and responsibilities, communications and career paths and different engineering disciplines. Covers mathematics and science fundamentals used in engineering. Describes computational engineering tools and covers the computer programming used in solving engineering problems. Lecture 2 hours. Total 2 hour per week.

EGR 125 Introduction to Engineering Methods (3 credits).

Applies problem-solving techniques to engineering problems utilizing computer programming and algorithms in a higher level computer language such as FORTRAN, PASCAL, or C++.

Lecture 3 hours. Laboratory 0-2 hours. Total 3-5 hours per week.

EGR 127 Introduction to Computer Programming (3 credits).

Introduces programming in a higher level language such as FORTRAN, BASIC or PASCAL, or C++ on the microcomputer. Uses the operating system, packaged software and peripheral devices. Emphasizes engineering program problem solving.

Lecture 1-2 hours. Laboratory 1-2 hours. Total 2-4 hours per week.

EGR 140 Engineering Mechanics—Statics (3 credits) Prerequisites: MTH 263, Corequisites: MTH 264

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 206 Engineering Economics (2-3 credits).

Presents economic analysis of engineering alternatives. Studies economic and cost concepts, calculation of economic equivalence, comparison of alternatives, replacement economy, economic optimization in design and operation, depreciation, and after tax analysis.

Lecture 2-3 hours per week.

EGR 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 299 Supervised Study (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)

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. *This is a Passport Transfer course. 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.

Environmental Sciences

ENV 100 Basic Environmental Science (3 credits).

Presents and discusses basic scientific, health-related, ethical, economic, social and political aspects of environmental activities, policies/decisions. Emphasizes the multidisciplinary nature of environmental problems and their potential solutions. Lecture 3 hours per week.

ENV 220 Environmental Problems (3 credits).

Studies the relationship of man to his environment; ecological principles, population dynamics, topics of current importance including air, water, and noise pollution; poisoning and toxicity, radiation, conservation and management of natural resources. Lecture 3 hours per week.

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.

GOL 299 Supervised Study (1 credit).

Assigns problems for independent study incorporating previous instruction and supervised by the instructor.

May be repeated for credit. Variable hours.

Health

HLT 100 First Aid and Cardiopulmonary Resuscitation (2-3 credits)

Focuses on the principles and techniques of safety, first aid, and cardiopulmonary resuscitation. Lecture 2-3 hours per week.

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 Health (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.

HLT 262 Basic Pharmacy II (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. Part II of II. 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 word 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 113.

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 outpatient/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. *This is a Passport Transfer course. 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. *This is a Passport Transfer course. 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. *This is a Passport Transfer course. 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. *This is a Passport Transfer course. Lecture 3 hours per week.

HIS 269 Civil War and Reconstruction (3 credits).

Studies factors that led to the division between the States. Examines the war, the home fronts, and the era of Reconstruction. Lecture 3 hours per week.

HIS 270 America in the Gilded Age (3 credits).

Studies in detail American history during the years from 1870-1900 - The Gilded Age, emphasizing the relationships between various aspects of American life and identifying themes that helped define the era. Lecture 3 hours per week. 3 credits



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 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 126 Home Landscaping (3 credits).

Studies current approaches to improving home landscapes. Emphasizes planning, proper implementation, and landscape maintenance. Lecture 3 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 approval.

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 126 Home Landscaping (3 credits)

Studies current approaches to improving home landscapes. Emphasizes planning, proper implementation, and landscape maintenance. Lecture 3 hours per week.

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 intensely 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 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 295 - Topics In Forest Farming (3 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

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.

HRT 299 Supervised Study (1 credit)

Assigns problems for independent study incorporating previous instruction and supervised by the instructor.

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 141 Group Dynamics I (3 credits)

Examines the stages of group development, group dynamics, the role of the leader in a group, and recognition of the various types of group processes. Discusses models of group dynamics that occur as a result of group membership dynamics. Lecture 3 hours per week.

HMS 145 Effects of Psychoactive Drugs (3 credits)

Provides information on the biochemical, physiological, and behavioral aspects of substance addiction and will review the symptoms of addiction. Emphasizes areas of chemical dependency, medical epidemiology, physiological threats of addiction, and methods of identifying multiple drug abusers. Lecture 3 hours per week.

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 230 Ethics in Human Services (3 credits)

Examines ethical concepts specific to human services organizations and careers. Considers self-determination, informed consent, confidentiality, boundaries, conflict of interest, dual relationships, as well as value clarification and the impact of culture. Lecture 3 hours. Total 3 hours per week.

HMS 250 - Principles of Case Management

Provides an overview of current case management theory and practice in the field of mental health. Lecture 3 hours per week. 3 credits

HMS 251 Substance Abuse I (3 credits)

Provides knowledge, skills, and insight for working in drug and alcohol abuse programs. Emphasizes personal growth and client growth measures in helping relationships. Stresses various methods of individual and group techniques for helping the substance abuser. Lecture 3 hours per week.

HMS 252 Substance Abuse II (3 credits) Prerequisite HMS 251

Expands knowledge and skill in working with the substance abuser. Focuses on assisting substance abusers in individual and group settings and explores client treatment modalities. May provide opportunities for field experience in treatment centers. Lecture 3 hours per week.

HMS 260 Substance Abuse Counseling (3 credits)

Provides an understanding of the skills of guidance of clients and those associated with being an advocate. Examines the dynamics of the client/counselor relationship in developing treatment plans and empowerment skills. Lecture 3 hours per week.

HMS 270 Treatment Systems (3 credits)

Examines the services and facilities established for the purpose of treating addictions. Focuses on treatment therapy models and ethical standards related to addiction-disease theory. Lecture 3 hours per week.

HMS 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.

HMS 297 Cooperative Education (1-6 credits)

Supervises on-the-job training <u>for pay</u> 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, ITE 150 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 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.

ITD 290 Coordinated Internship (3 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. 1-5 credits



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, LAPB, 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)

Prerequisite or corequisite: ITN 154Provides 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 290 Coordinated Internship (3 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. 1-5 credits

ITN 297 Cooperative Education in Networking (1-5 credits) Requires curriculum 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.

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 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.

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 290 Coordinated Internship (3 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. 1-5 credits

ITP 297 Cooperative Education in Programming (1-5 credits) Requires curriculum 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.

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.

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.

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 126 Introductory CNC Programming (3 credits)

Introduces programming of computerized numerical control machines with hands-on programming and operation of CNC machines. Lecture 2 hours. Laboratory 3 hours. Total 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 128 -CNC Programming (2 Credits)

Teaches programming of computerized numerical control machines. Focuses on CNC machining processes. Lecture 2 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 134 CMM Operation and Programming (2 credits)

Focuses on inspection using a Coordinate Measuring Machine. Includes hands-on demonstration of CMM setup, initialization and operation. Covers the essential aspects of the software and CMM operation, using a sample part for hands-on practice. Lecture 1 hour. Lab 2 hours. Total 3 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 290 Coordinated Internship (3 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. 1-5 credits



MAC 297 Co-op (2-5 credits)

Requires curriculum advisor approval.

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)

Prerequisites: 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)

Prerequisites: Competency in MTE 1-5 as demonstrated through placement or unit completion or equivalent or Corequisite: MCR 4: Learning Support for Quantitative Reasoning

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. *This is a Passport Transfer course.

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 Learning Support for Statistical Reasoning.

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. *This is a Passport Transfer course.

Lecture 3 hours, Total 3 hours per week.

MTH 161 - PreCalculus I (3 credits)

Prerequisites: Competency in MTE 1-9 as demonstrated through placement or unit completion or equivalent or Corequisite: MCR 6: Learning Support for Precalculus I

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. *This is a Passport Transfer course. Lecture 3 hours. Total 3 hours per week.

MTH 162 - PreCalculus II (3 credits)

Prerequisites: 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. *This is a Passport Transfer course. 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. **This is a Passport Transfer course.** 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 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. *This is a Passport Transfer course. 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 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. *This is a Passport Transfer course. 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 ${\it C}$ 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. **This is a Passport Transfer course**. 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 267 Differential Equations (3 credits)

Prerequisite: Completion of MTH 264 or equivalent with a grade of ${\it C}$ 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.

MTH 288 - Discrete Mathematics (3 credits)

Prerequisites: Completion of MTH 263, Calculus I with a grade of C or better or equivalent.

Presents topics in sets, counting, graphs, logic, proofs, functions, relations, mathematical induction, Boolean Algebra, and recurrence relations. Lecture 3 credits. Total 3 credits per week.



MTH 299 Supervised Study (1 credit) Assigns problems for independent study incorporating previous instruction and supervised by the instructor. May be repeated for credit. Variable hours.

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 coenrolled 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 coenrolled 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

$\mbox{MEC } 101$ - 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 Bernouli'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 few 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.

Medical Laboratory

MDL 105 - Phlebotomy (3-4 credits)

Introduces basic medical terminology, anatomy, physiology, components of health care delivery and clinical laboratory structure. Teaches techniques of specimen collection, specimen handling, and patient interactions. Lecture 2 hours. Laboratory 3-6 hours. Total 5-8 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 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 221 - History of Music I

Presents the chronology of musical styles from antiquity to the present time. Relates the historical development of music to parallel movements in art, drama, and literature. Develops techniques for listening analytically and critically to music. Part I of II. Lecture 3 hours per week. 3 credits

MUS 222 - History of Music II

Presents the chronology of musical styles from antiquity to the present time. Relates the historical development of music to parallel movements in art, drama, and literature. Develops techniques for listening analytically and critically to music. Part II of II. Lecture 3 hours per week. 3 credits

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 MUS131-132.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) Prerequisites: BIO 141, BIO 142, ENG 111, PSY 230, SDV 101, Acceptance to the Transition Program; Co-requisite: NSG 200

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) Prerequisites: 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

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

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.

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 trial 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 121 Principles of Physics I (4 credits).

Covers fundamental principles of physics. Includes mechanics, thermodynamics, wave phenomena, electricity and magnetism, and selected topics from modern physics. Prerequisites 2 units of high school algebra and one unit of high school geometry or equivalent. Part I of II. Lecture 3 hours. Laboratory 3 hours. Total 6 hours per week.

PHY 122 Principles of Physics II (4 credits).

Covers fundamental principles of physics. Includes mechanics, thermodynamics, wave phenomena, electricity and magnetism, and selected topics from modern physics. Prerequisites 2 units of high school algebra and one unit of high school geometry or equivalent. Part II of II. Lecture 3 hours. Laboratory 3 hours. Total 6 hours per week.

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.

PHY 299 Supervised Study (1 credit)

Assigns problems for independent study incorporating previous instruction and supervised by the instructor.

May be repeated for credit. Variable hours.

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 inter-relationships. Gives attention to public opinion, suffrage, elections, political parties, interest groups, civil rights, domestic policy, and foreign relations. *This is a Passport Transfer course. Lecture 3 hours per week.

PLS 136 - State and Local Politics

Teaches structure, powers and functions of state and local government in the United States. Lecture 3 hours per week. 3 credits

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. *This is a Passport Transfer course. 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.

PLS 241 - International Relations I (3 credits).

Teaches geographic, demographic, economic, ideological, and other factors conditioning the policies of countries and discusses conflicts and their adjustment. Lecture 3 hours per week.

PLS 250 - Introduction to Conflict Resolution (3 credits).

Teaches basic concepts and methods of conflict resolution, which includes the factors that lead to conflict, and how conflicts can be prevented or brought to an end through peaceful means. Focuses on national and international conflict resolution. Lecture 3 hours per week.

Practical Nursing

PNE 145 Trends in Practical Nursing (1 credit)

Studies the role of the Licensed Practical Nurse. Covers legal aspects, organizations, and opportunities in practical nursing. Assists students in preparation for employment. Lecture 1 hour per week.

PNE 155 Body Structure and Function (3-4 credits)

Studies the structure and function of the body. Lecture 3-4 hours per week.



PNE 161 Nursing in Health Changes I (6-7 credits)

Focuses on nursing situations and procedures necessary to assist individuals in meeting special needs related to human functions. Lecture 2-4 hours. Laboratory 6-15 hours. Total 10-17 hours per week.

PNE 162 Nursing in Health Changes II (10-11 credits)

Continues the focus on nursing situations and procedures necessary to assist individuals in meeting special needs related to human functions. Lecture 4-6 hours. Laboratory 12-21 hours. Total 18-25 hours per week.

PNE 163 Nursing in Health Changes III (8-9 credits)

Continues the focus on nursing situations and procedures necessary to assist individuals in meeting special needs related to human functions. Lecture 4-5 hours. Laboratory 9-15 hours. Total 14-19 hours per week.

PNE 173 Pharmacology for Practical Nurses (1-2 credits)

Studies history, classification, sources, effects, uses and legalities of drugs. Teaches problem solving skills used in medication administrations. Emphasizes major drug classes and specific agents within each class. Lecture 1-2 hours per week.

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) Prerequisites: Readiness to enroll in English 111 required.

Surveys the basic concepts of psychology. Covers the scientific study of behavior and mental processes, research methods and measurement, theoretical perspectives, and application. Includes biological bases of behavior, learning, social interactions, memory, and personality; and other topics such as sensation, perception, consciousness, thinking, intelligence, language, motivation, emotion, health, development, psychological disorders, and therapy. *This is a Passport Transfer course. Lecture 3 hours. Total 3 hours per week.

PSY 215 Abnormal Psychology (3 credits) Prerequisite: 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 contract 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 233 Anatomy and Positioning of the Breast (1 credits) Prerequisite: ARRT or eligible

Presents the risk factors for breast disease, anatomy and physiology of the breast and discusses the various pathologies identified through mammography. Includes routine and special projections of the breast. Lecture 1 hour per week.

RAD 234 Breast Imaging/Instrumentation (1 credits) Prerequisite: ARRT or eligible

Discusses the dedicated radiography equipment necessary for breast imaging. Includes proper technical factors, radiation protection techniques, and proper accessory equipment. Lecture 1 hour per week.

RAD 235 Quality Assurance in Mammography (1 credits) Prerequisite: ARRT or eligible

Discusses the components of quality assu rance in mammography and the accreditation programs developed to ensure quality in breast imaging facilities. Lecture 1 hour 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.

Small Unmanned Aerial Systems (sUAS)

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.

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 211 - Principles of Anthropology I

Inquiries into the origins, development, and diversification of human biology and human cultures. Includes fossil records, physical origins of human development, human population genetics, linguistics, cultures' origins and variation, and historical and contemporary analysis of human societies. Part I of II. *This is a Passport Transfer course. Lecture 3 hours per week. 3 credits

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.

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 120 - Introduction to Welding

Introduces history of welding processes. Covers types of equipment, and assembly of units. Stresses welding procedures such as fusion, nonfusion, and cutting oxyacetylene. Introduces arc welding and plasma arc cutting. Emphasizes procedures in the use of tools and equipment. Lecture 1-2 hours. Laboratory 2-3 hours. 2-3 credits

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

WEL 161 - Flux Cored Arc Welding (FCAW)

Introduces flux cored semi-automatic welding processes with emphasis on practical application. Includes the study of filler wires, fluxes, and gases. Lecture 2 hours. Laboratory 3 hours. 3 credits

WEL 164 - Gas Tungsten Arc Welding (GTAW), Tungsten Inert Gas (TIG)

Introduces practical operations in the use of tungsten arc welding and equipment. Studies equipment operation setup, safety, and practice of Gas Tungsten Arc Welding (GTAW), Tungsten Inert Gas (TIG). Lecture 2 hours. Laboratory 3 hours. 3 credits

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Mr. Danny Thomas

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Ms. Karin Widener

Office Manager, Arts & Sciences

Mr. Kevin Widener

Police Chief

Mr. Alex Wilson

Evening IT Technician/Library Circulation Assistant*

Ms. Pennie Wilson

Financial Aid Assistant*

Mr. Larry Wise Grounds Worker*

Ms. Cathy Zeigler

Administrative Assistant, Learning Resources 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)

(Rearea 0/1/2013)

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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