
LFCC Catalog and Student Handbook



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Lord Fairfax Community College is accredited by the Southern Association of Colleges and Schools Commission on Colleges (SACSCOC) to award associate degrees. Contact SACSCOC at 1866 Southern Lane, Decatur, Georgia 30003-4097 or call 404-679-4500 for questions about the accreditation of Lord Fairfax Community College.

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LFCC also prohibits sexual misconduct including sexual violence or harassment.*



Letter from the President

Welcome to Lord Fairfax Community College (LFCC)! Whether your goal is to transfer to a four-year college or university, pursue education to begin or advance your career, or simply take courses for self-enrichment, we are here to help. Throughout your college experience, you will encounter dedicated faculty and an entire community ready to help you meet your goals.

Students find our courses to be exciting and engaging, and I am confident that you will too. Our commitment to your success begins with top-notch faculty who are experts in their fields and dedicated to teaching. LFCC courses will help you develop critical thinking and problem-solving skills to prepare for the future. Ninety-eight percent of our students are highly satisfied with their experience at LFCC. In addition, LFCC has been designated a “Great College to Work For” by *The Chronicle of Higher Education* for six years running. Both student and employee satisfaction contribute to perspective students ability to succeed.

With over seventy academic programs to select from, you have a wide range of options – some that you may never have considered. Transfer articulation agreements are available for a smooth transition to many four-year colleges and universities. In addition, professional development and short-term training courses taught by industry professionals can help you improve your skills to advance in the workplace.

Courses are available in traditional and summer semesters during the day as well as convenient evening, weekend, and shortened sessions including eight-week, ten-week, and twelve-week formats. Many courses, even full degree programs, are available online or in a hybrid format. Online courses allow students to attend a course anytime and from any place where they have Internet access. Both online and hybrid classes help you develop technological skills that will be critical to your success in the 21st century global business community.

Regardless of which courses you take, and when, you will have excellent student support services, including financial aid and scholarship assistance, academic advising, career planning, online registration/payment, and tutoring services. Through peer learning and student activities, you will have an opportunity to enrich your personal development beyond the classroom.

I was the first in my family to attend college, and community college was where I found my focus. At the community college, faculty were dedicated to helping students succeed and staff were welcoming and supportive. I have seen first-hand the impact community colleges make in students’ lives, within families, and within our communities.

Congratulations on choosing LFCC, where it is our mission to provide a positive, caring and dynamic learning environment that inspires student success, values diversity and promotes community vitality. You are now surrounded by a supportive community who care about your education, who share your aspirations and who claim your dreams as their own. We look forward to helping you reach your goals every step of the way!

A handwritten signature in black ink that reads "Kimberly P. Blosser". The script is fluid and cursive, with a large initial 'K'.

Dr. Kimberly P. Blosser
President

LORD FAIRFAX COMMUNITY COLLEGE

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Kimberly P. Blosser

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SUMMER SEMESTER 2019

Important Dates	Class Sessions				
	10 wk	1 st 5 wk	1 st 8 wk	2 nd 5 wk	2 nd 8 wk
Classes Begin	May 20	May 20	May 20	Jun 25	Jun 4
Last Date to Register Late or Add	May 22	May 21	May 21	Jun 26	Jun 5
Last Date to Qualify for a Refund or Change from Audit to Credit or Credit to Audit	May 30	May 24	May 28	Jun 29	Jun 11
Last Date to Withdraw Without Grade Penalty	Jun 30	Jun 9	Jun 22	Jul 15	Jul 6
<i>College Closed</i>	May 27/Jul 4	May 27	May 27/Jul 4	Jul 4	Jul 4
Classes End	Jul 29	Jun 24	Jul 15	Jul 29	Jul 29
Final Examinations	During Last Scheduled Meeting				
Grades Due	Jul 31 (noon)				

FALL SEMESTER 2019

Important Dates	Class Sessions				5-week sessions (for MTE classes)		
	15 wk	12 wk	1 st 8 wk	2 nd 8 wk	1 st 5 wk	2 nd 5 wk	3 rd 5 wk
Faculty Report	Aug 16						
Classes Begin	Aug 21	Sep 11	Aug 21	Oct 16	Aug 21	Sep 25	Oct 30
Last Date to Register Late or Add	Aug 23	Sep 13	Aug 23	Oct 18	Aug 23	Sep 27	Nov 1
Last Date to Qualify for a Refund or Change from Audit to Credit, or Credit to Audit	Sep 9	Sep 25	Aug 28	Oct 24	Aug 26	Sep 30	Nov 4
Last Date to Withdraw Without Grade Penalty	Oct 26	Nov 3	Sep 22	Nov 18	Sep 10	Oct 15	Nov 19
No Classes Scheduled	Sept 1 Nov 26-27	Nov 26-27		Nov 26-27			Nov 26-27
<i>College Closed</i>	Sept 2 Nov 29-30	Nov 29-30		Nov 29-30			Nov 29-30
Classes End	Dec 10	Dec 10	Oct 15	Dec 17	Sep 24	Oct 29	Dec 10
Final Examinations	Dec 11-17	Dec 11-17	During Last Class Mtg	During Last Class Mtg	Upon Completion of all Required Course Assignments		
Grades Due	Dec 18 (4 pm)	Dec 18 (4 pm)	Oct 21 (4 pm)	Dec 18 (4 pm)			

SPRING SEMESTER 2020

Important Dates	Class Sessions					5-week sessions (for MTE classes)		
	15 wk	14 wk	12 wk	1 st 8 wk	2 nd 8 wk	1 st 5 wk	2 nd 5 wk	3 rd 5 wk
Faculty Report	Jan 3	Jan 3						
Classes Begin	Jan 13	Jan 13	Feb 3	Jan 13	Mar 16	Jan 13	Feb 17	Mar 30
Last Date to Register Late or Add	Jan 15	Jan 15	Feb 5	Jan 14	Mar 17	Jan 13	Feb 17	Mar 30
Last Date to Qualify for a Refund or Change from Audit to Credit, or Credit to Audit	Jan 30	Jan 29	Feb 17	Jan 20	Mar 23	Jan 17	Feb 21	Apr 3
Last Date to Withdraw Without Grade Penalty	Mar 26	Mar 22	Apr 4	Feb 14	Apr 14	Feb 2	Mar 8	Apr 19
<i>College Closed</i>	Jan 20	Jan 20				Jan 20		
Spring Break	Mar 9-15	Mar 9-15	Mar 9-15				Mar 9-15	
Classes End	May 4	Apr 27	May 4	Mar 8	May 4	Feb 16	Mar 29	May 3
Final Examinations	May 5-11	During Last Class Mtg				Upon completion of all required course assignments		
Grades Due	May 12 (4 pm)	May 5 (4 pm)	May 12 (4 pm)	Mar 9 (4 pm)	May 12 (4 pm)	At end of each session		

SUMMER SEMESTER 2020

Important Dates	Class Sessions				
	10 wk	1 st 5 wk	1 st 8 wk	2 nd 5 wk	2 nd 8 wk
Classes Begin	May 26	May 26	May 26	Jun 30	Jun 9
Last Date to Register Late or Add	May 29	May 27	May 29	Jul 1	Jun 12
Last Date to Qualify for a Refund or Change from Audit to Credit, or Credit to Audit	Jun 5	Jun 1	Jun 2	Jul 6	Jun 16
Last Date to Withdraw Without Grade Penalty	Jul 6	Jun 15	Jun 27	Jul 20	Jul 11
No classes scheduled					
<i>College Closed</i>	Jul 6		Jul 6	Jul 6	Jul 6
Classes End	Aug 3	Jun 29	Jul 20	Aug 3	Aug 3
Final Examinations	During Last Scheduled Class Meeting				
Grades Due	Aug 5 (noon)	Jul 3 (noon)	Jul 30 (noon)	Aug 5 (noon)	Aug 5 (noon)

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History

LFCC is located in an historic, cultural area of Virginia. The College was named for Thomas Fairfax, 6th Lord Fairfax of Cameron who, in 1747, established his residence, Greenway Court, at nearby White Post. For 34 years, Lord Fairfax managed his vast property of more than five million acres that extended from Virginia's Northern Neck to Fort Duquesne, now Pittsburgh. Born at Leeds Castle in 1693, Lord Fairfax graduated from Oxford College and first came to America in 1735 to inspect his inheritance from his grandfather, Lord Culpeper. The Fairfax landholdings included thousands of acres in the Shenandoah Valley encompassing the present counties of Clarke, Frederick, Page, Shenandoah and Warren, as well as a substantial portion of West Virginia.

Lord Fairfax was a respected force in the formation of the new America. He befriended many, including George Washington, his surveyor. He supported General Braddock and was known and respected by "King" Carter, William Byrd and Governors Gooch, Dinwiddie and Dunmore. Lord Fairfax died at age 88 in 1781 at Greenway Court and was buried at Christ Church in Winchester. Lord Fairfax Community College (LFCC) pays homage to his respected name and legacy.

LFCC opened its doors in September 1970 to 577 students. Two years later in June 1972, the College held its first Commencement ceremony at which 92 students received degrees. The College received accreditation from the Southern Association of Community and Junior Colleges on Dec. 18, 1972. The first College president, William H. McCoy, facilitated the opening of the College and remained in this position until 1987. Marilyn C. Beck became the second president of LFCC in 1988 and served until 2003. John J. "Ski" Sygielski became the College's third president in August 2003 and served until June 2008. Cheryl Thompson-Stacy became the College's fourth president in January 2009 and served until January 2018. Kimberly Blosser became the College's fifth president in February 2018. She oversees the administration of the educational needs of more than 9,500 unduplicated credit students and more than 12,150 individuals in professional development and business and industry courses annually.

The College

Founded in 1970, LFCC is a comprehensive, multi-campus public institution of higher education. Through its four locations — the Fauquier and Middletown Campuses and the Luray-Page County and Vint Hill Centers — the College serves eight localities in the Shenandoah Valley and Piedmont regions. The localities are the counties of Clarke, Fauquier, Frederick, Page, Rappahannock, Shenandoah and Warren and the City of Winchester.

LFCC offers more than 65 associate degree and certificate programs in a wide variety of disciplines, in addition to providing access to bachelor's, master's and doctoral degree programs offered on site and online by a four-year institution. LFCC also serves the business community by offering workforce preparation programs for employees and employers. LFCC serves more than 9,500 unduplicated credit students and more than 12,150 individuals in professional development and business and industry courses annually.

LFCC promotes equal opportunity in educational programs and activities, admission and employment without regard to race, color, sex or age (except where sex or age is a bona fide occupational qualification), national origin, religion, sexual orientation, gender identity, political affiliation, veteran status, qualified persons with disabilities or other non-merit factors.

The College is governed by policies set by the State Board for Community Colleges with support and guidance from the LFCC Board. Financed primarily with state funds, the College supplements funding with contributions from the participating localities and tuition fees. As the vision statement, mission and goals reflect, LFCC is committed to excellence in all its programs and services while maintaining flexibility, accessibility and responsiveness. Helping each student achieve his or her future goals is the focus of the College.

Mission of Lord Fairfax Community College

LFCC provides a positive, caring and dynamic learning environment that inspires student success, values diversity and promotes community vitality.

Vision:

LFCC enriches communities as we provide exemplary educational opportunities based on our core values.

Values:

LFCC embraces the following core values:

Learning:

We foster an environment that ignites and sustains a passion for lifelong learning.

High Performance:

We are focused, responsive, collaborative and accountable.

Integrity:

We exemplify honesty, character and respect for our communities.

Positive Spirit:

We value creativity, enthusiasm and a “can-do” attitude.

Diversity:

We honor the uniqueness of individuals and communities.

Goals: The College’s strategic plan may be found under the planning heading on the planning and institutional effectiveness Web site: <https://www.lfcc.edu/wp-content/uploads/2016/03/15-LFCC-054-2015-2021-Strategic-Plan-11x17.pdf>.

Accreditation

LFCC operates as part of the Virginia Community College System (VCCS) and is governed by the State Board for Community Colleges. The State Council of Higher Education for Virginia (SCHEV) approves the associate degree curricula of the College for Virginia. Lord Fairfax Community College is accredited by the Southern Association of Colleges and Schools Commission on Colleges (SACSCOC) to award associate degrees. Contact SACSCOC at 1866 Southern Lane, Decatur, Georgia 30033-4097 or call (404) 679-4500 for questions about the accreditation of Lord Fairfax Community College. LFCC is approved by the U.S. Department of Education for various federal funding programs. Nursing programs are approved by the Virginia Board of Nursing.

Locations and Facilities

LFCC’s four locations—the Fauquier and Middletown Campuses and the Luray-Page County Center and the Vint Hill Site—offer a full range of associate degree and certificate programs, as well as continuing education, workforce training, dual enrollment and community services. The College is committed to serving the lifelong learning needs of the community through both credit and noncredit educational opportunities.

Fauquier Campus

In December 1988, Fauquier County Executive Bob G. Sowder donated 2.5 acres of property to establish a community college campus. The renovated barn on this property became the Fauquier Campus of LFCC, which was later expanded when the General Assembly appropriated \$7.2 million in 1996 to construct the current 60,000 square foot classroom and administrative building.

On Oct. 22, 1999, the College community celebrated the dedication of the new campus building, located on U.S. Route 29, just south of Warrenton. The Wolk Hall classroom and administrative building is named for Paul and Sheila Wolk, whose generosity to LFCC has made quality educational opportunities available to many students on both campuses.

In addition to the classroom and laboratory spaces on the Fauquier Campus, the Loeb Center is a dramatic space where students share activities, meals and study time. Students also utilize the resources available in the Bob G. Sowder Library and through the Student Services Office, where they can receive academic and career counseling, financial aid assistance and other services to assist them in achieving their educational goals.

Middletown Campus

LFCC's Middletown Campus is on a 120-acre tract in the northern Shenandoah Valley approximately 10 miles south of Winchester, Va. Nestled among the Blue Ridge, Massanutten and Allegheny Mountains, with Interstate highways 66 and 81 and U.S. Route 11 adjacent, the campus is easily accessible. The recently renovated original College building includes classrooms, computer laboratories, administrative and faculty offices, a business office, and the Fredy and Klara Kumuli Lounge.

In 1985, LFCC built a technology center on the Middletown Campus, adding a Special Events Center, computer labs, classrooms and faculty offices. During the 1993 Commencement ceremony, the building was officially named the Alson H. Smith Jr. Technology Center. In 1994, the Learning Resources Center construction was completed and the facility was dedicated in April 1995 in honor of benefactor Paul Wolk of Fauquier County. Outside facilities include a regulation 400-meter Olympic-size track, fitness trail and soccer field.

In 2005, groundbreaking commenced on the Science and Health Professions Building. The 46,870 gross-square-foot, two-story building provides additional classroom space for the science and health professions courses offered at the College, providing state-of-the-art laboratories for scientific and health study.

In July 2010, the Corron Community Development Center opened. The 30,000 gross-square-foot building is a multi-purpose facility that supports workforce solutions, continuing education, small business development, College advancement and community events. This building also houses the Old Dominion Teletechnet program's distance learning opportunities. The two-story facility includes classrooms, office space and a 500-seat multi-purpose room.

In January 2014, the beautiful Student Union opened. The 32,000 square-foot building provides new amenities for students. The Student Union provides a larger bookstore; fitness center; two exercise studios; food service and café; recreational lounge; two classrooms; a quiet study room; and offices for physical education faculty and Student Life and Engagement staff.

Luray-Page County Center

The Luray-Page County Center opened on Jan. 9, 2006. This space has two lecture classrooms, a distance learning classroom, a computer lab and administrative offices. The building supplies and labor necessary for the construction of the Luray-Page County Center, along with the Center's first year operation expenses, were generously provided by Page County and the Town of Luray, making this truly a facility built by the community. The Center's excellent core faculty group teaches a variety of both day and evening credit classes needed for both associate degree and certificate programs, while state-of-the-art equipment allows students to take advantage of resources available at all LFCC locations. The College provides noncredit training opportunities to enhance job skills and works with local businesses, placing student interns as part of the Scholars at Work Program. LFCC provides courses and programs at the Center to bring together quality career opportunities to its students and graduates.

Located in Luray just minutes from U.S. Route 340, U.S. Route 211 and the Hawksbill Greenway, the Luray-Page County Center serves Page County, eastern Rappahannock County, southern Shenandoah County and southern Warren County.

Vint Hill Site

The most recent LFCC location, Vint Hill, opened February 2015 in eastern Fauquier County. This space offers three lecture classrooms and two computer labs. Vint Hill's class schedule is specifically geared towards those students in need of a more flexible learning environment. Classes are offered in the afternoon and evening hours and classes can be both standard lecture, with a faculty member onsite, or distanced to our other locations. The building is located on property that was previously used by both the Army and National Security Agency for training purposes. Vint Hill is conveniently located off of Route 29 and serves the needs of a rapidly growing area.

Programs

LFCC is a comprehensive institution of higher education offering programs of instruction generally extending not more than two years beyond high school level.

Student Services

The College is committed to enhancing the educational experience of each student through a variety of services and activities. Student Services facilitates personal growth and development and educational success through services such as:

- Academic advising
- Career services
- Disability services
- Financial aid (federal and state)
- Scholarships
- Student activities /clubs sports
- Student Learning Services
- Student organizations
- Student Support Services
- Tutoring
- Transfer planning
- Veterans' educational benefits

Occupational-Technical Education

LFCC offers multiple degrees and certificates in a variety of subject areas that prepare students to meet the increasing demand for technicians, semi-professional workers, skilled craftsmen and artisans, supervisors and managers for employment in business, industry and government. Students who complete one of the programs are prepared to enter the workplace or pursue additional education. The subject areas for the programs include:

- Administration of Justice
- Business
- Cybersecurity
- Early Childhood Development
- Engineering, Construction and Industry
- Health Information Management
- Health Professions
- Information Systems Technology
- Paralegal

College Transfer-University Parallel Education

The college transfer-university parallel program focuses on college freshmen and sophomore courses in arts and sciences and pre-professional programs.

After completing the first two years at LFCC, students are able to transfer to a four-year college or university and enter a bachelor's degree program. To ease the transfer process, students are urged to work with an LFCC advisor and maintain contact with four-year college representatives before selecting courses. Admission and graduation requirements vary widely and sometimes change over time. LFCC offers the following four degrees and six specializations that lead to an associate of arts and sciences degree and one degree and four specializations that lead to an associate of science degree:

- Business Administration
- Education
- General Studies
 - Administrative Justice Specialization
 - Human Services
 - Recreation and Outdoor Leadership

- Liberal Arts
 - Communication Specialization
 - Fine Arts Specialization
- Science
 - Agriculture Specialization
 - Computer Science Specialization
 - Engineering Specialization
 - Forensic Science Specialization
 - Health Professions Specialization

Workforce Solutions and Continuing Education

Workforce Solutions and Continuing Education at Lord Fairfax Community College (Workforce Solutions) serves the individuals and businesses throughout the community with high quality, relevant course offerings.

Workforce Solutions offers high-quality instruction and hands-on skills that transfer directly into the workplace. This unit offers instructional year-round programs convenient for individuals or employers at multiple locations, or even on-site for an organization.

Workforce Solutions provides open enrollment and online courses to help individuals quickly develop critical, high-demand job skills and earn recognized industry credentials. Over half the programs offered through Workforce Solutions result in certifications and licensure that lead to direct employment. Programs are offered in many categories of training that include Business & Professional Development, Computer & Technology, Healthcare & Wellness, and Industry, Manufacturing & Construction Trades.

Workforce Solutions also offers Contract Training Programs for employers, “fast track” Career Training Boot Camps and Career Changer Programs, Kids College Youth Camps, Online Learning, Personal Enrichment and Career Coaching & Job Placement Services (for eligible candidates). Depending on eligibility requirements met, Workforce Solutions can offer several funding options including Financial Aid towards Workforce Credentials, Grant Funding or Private Funding options. To learn more call 540-868-7021 or visit LFCCWorkforce.com.

LFCC Educational Foundation Inc.

The Lord Fairfax Community College Educational Foundation Inc. is an independent, not-for-profit entity dedicated to assisting the College in meeting its current and future needs. Its purpose is to generate support and resources for the College beyond those provided by the Commonwealth of Virginia.

Incorporated in 1978, the Foundation is committed to raising funds for academic programs, facility upgrades, equipment, student scholarships and professional development for employees. Private contributions ensure that the College is able to keep its promise and pledge of providing increasing academic excellence and expanding business and industry services.

The Foundation is a nonprofit, tax-exempt 501(c) (3) organization. All gifts are tax deductible as allowed by law. For income tax purposes, the federal identification number for the Foundation is 51-0247624. Its fiscal year is January 1 through December 1.

Mission of the Foundation

The mission of the Lord Fairfax Community College Educational Foundation Inc. is to support the College in providing a challenging and enriching learning-centered environment for all students, employees and community members that prepares them to succeed in the 21st century. The Foundation accomplishes its mission by:

- Cultivating dynamic partnerships with individuals, businesses, organizations and communities,
- Securing funds to support the educational opportunities, programs, facilities and services offered by the College,
- Enhancing community awareness of the College and the Foundation, and
- Providing prudent fiscal management of funds and resources contributed to the Foundation.

The Foundation embraces the following core values as it conducts its operations, makes its decisions, and plans for its future:

- The Foundation is student centered. It focuses its efforts on enhancing their LFCC learning experience.
- The Foundation is donor oriented. It recognizes that its donors are vital to the Foundation and to the College. It respects them and it will be loyal to them.
- The Foundation is team driven. It will work together in its Foundation, in its College and in its community. Teamwork works.

Admissions

General Admission to the College

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 in reading, writing and mathematics.

All students must submit a completed application to the Admissions Office using the online application available at <http://apply.vccs.edu>. The applicant's Social Security number is required to receive select services from the College.

The College reserves the right to evaluate and document special cases and to refuse or revoke admission if the College determines that the applicant poses a threat, is a potential danger, is significantly disruptive to the College community or if such refusal or revocation is considered to be in the best interest of the College. The College also reserves the right to refuse admission for applicants that have been expelled or suspended from, or determined to be a threat, potential danger or significantly disruptive, by another college. Students whose admission is revoked after enrollment must be given due process. Procedures for general admissions denials are located at <https://lfcc.edu/current-students/college-policies/>.

Readmission

Students in "good academic standing" who have not been enrolled for a period of three years (nine consecutive terms) seeking readmission must submit a new "Application for Admission" prior to registration.

A student who applies for admission but does not enroll in classes within one year (three consecutive terms) must submit a new "Application for Admission" prior to registration.

Readmission to a Degree or Certificate Program

Students seeking readmission to a restricted program or with specific admission criteria in addition to general admission requirements must consult with the specific program for detailed readmission requirements. Students seeking readmission to non-restricted programs after one year of non-attendance will not need to reapply for admission to the program; however, students should check to see if the program requirements have changed since last attendance.

Residence Requirements

In order to determine in-state or out-of-state tuition rates, the following information must be submitted online with your admissions application or in person in the Admissions and Records Office.

1. A completed Application for In-State Tuition,
2. Part A must be completed and signed by the student.
3. Students under 24 years of age who do not qualify as independent students in Part A of the Application for In-State must have their parent or legal guardian complete Part B of the form.
4. Students under 24 years of age who are no longer a dependent of their parent or legal guardian must provide documentation proving independent domicile. Forms for proving independent domicile are available in the Admissions and Records Office.

Residence or domicile for students who are under the age of 24 is based on their parents' or legal guardians' domicile/residence. A Virginia In-State resident is one who has been domiciled in, and is and has been an actual bona fide legal resident of Virginia for a period of at least one year prior to the term for which enrollment is planned.

Please direct all inquiries concerning admission requirements to:

Admissions and Records Office
Lord Fairfax Community College
173 Skirmisher Lane
Middletown, VA 22645-1745
(540) 868-7105
(800) 906-5322, Ext. 7105 (toll free)
(540) 868-7005 (fax)
Web site address: <http://www.lfcc.edu>

Address Corrections

The student is responsible for maintaining a correct address and telephone number online in their student center or with the Office of Admissions and Records. In all cases requiring student notification, the student will be considered notified if the College uses the most current information found in the Student Information System.

Placement Testing Requirements

Students must demonstrate readiness for college-level English and math courses, via one of the following means and measures:

- 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.
- Any student who has successfully completed developmental courses at a VCCS institution will be exempt from placement testing in those areas.
- Any student who has successfully completed developmental courses at a non-VCCS institution will have their coursework evaluated for placement.
- A student may submit a high school/home school transcript or an approved test score for placement evaluation. Seniors who have not yet graduated may submit a transcript as of the completion of their first semester of their senior year to determine readiness for placement into college-level courses for the purpose of early admission. Transcripts, SAT and ACT scores should be evaluated by an academic advisor or career coach to determine if placement testing will be required.
- Any student who is not placed by the above criteria will take the Virginia Placement Test, or ESL-specific test, as appropriate. Students have the option to take the Virginia Placement Test 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.

For students who are required to take the placement test, results of these tests are used to help students and advisors determine appropriate course selection. Students whose scores indicate specific needs may be required to enroll and successfully complete skills improvement courses prior to college course work. Electronic study materials are available on the testing center website at <http://www.lfcc.edu/testing>. Placement testing at the Middletown and Fauquier Campuses is available on a walk-in basis, no appointment required. Placement testing at the Luray-Page County Center is available by appointment only. There is no placement testing available at Vint Hill. Photo identification is required.

One of the following photo IDs must be provided:

- Valid driver's or learner's license
- Passport or U.S. issued Visa
- Photo ID from D.M.V.
- U.S. military ID
- LFCC ID
- Current high school ID
- Green Card

Students should attend New Student Welcome Day, held before classes begin. This event gives new students the opportunity to become familiar with the College and its resources.

New Student Registration

Those students wishing to pursue degrees/certificates at LFCC are required to complete orientation and complete a new student advising session. The process provides students the opportunity to:

- Determine if placement testing is required,
- learn about College programs, services and resources,
- discuss educational/career interests,
- determine and plan curricular needs, and
- register for classes

Students should attend New Student Welcome Day, held before classes begin. This event gives new students the opportunity to become familiar with the College and its resources.

Admission to a Curriculum

Apart from the general admission requirements for acceptance by the College, some curricula have additional requirements for admission; these are listed under lfcc.edu/pathways. Admission to the college does not guarantee admission to credit programs with restricted enrollments or competitive admissions requirements. Students are advised to consult with their academic advisor to discuss their educational interests and the requirements for admission to specific curricula. Students who do not meet all program admission requirements may be placed in another appropriate curriculum or be considered non-curricular while completing prescribed developmental courses or other course prerequisites.

Admission to Health Professions Programs

Students must apply for admission to health professions programs in addition to applying for admission to the College. Admission requirements and application materials are available through the Health Professions Division. Specific requirements are in this catalog for each program.

Admission Priorities

When enrollments must be limited for any curriculum, priority shall be given to all qualified applicants who are residents of the political subdivisions 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.

Special Admission Enrollment

Dual Enrollment

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

Students interested in dual enrollment should contact their high school counseling office. Please visit LFCC's homepage and click on Future Students for the procedures to enroll. For more information, please contact the Dual Enrollment Office. LFCC works in cooperation with all area public high schools and some private high schools in the region to provide dual enrollment opportunities.

Admissions Requirements for International Students

LFCC is authorized under Federal Law to enroll non-immigrant alien students.

In addition to the general admission requirements of the College, all international applicants must submit documentation of eligibility to the Admissions and Records Office prior to registering for classes. Students in the United States on certain temporary visas may be denied admission or restricted to part-time study that is vocational or recreational, and does not lead to a professional or educational objective.

Non-immigrant students holding or seeking F1 status may obtain the necessary forms and instructions for applying for an I-20 from the Admissions and Records Office or the LFCC Web site. Non-immigrant students with a visa status other than F1 must contact the Admissions and Records Office to determine admission eligibility and/or limitations. An international student holding a F1 visa that has attended another college may be eligible for admission to LFCC as a transfer student. For additional information regarding F1 transfer applications contact the Admissions and Records Office.

For specific information regarding application deadlines and requirements please visit the Admissions and Records Office or the LFCC Web site: <http://www.lfcc.edu/international>.

Senior Citizens Higher Education Program

Eligible Virginia senior citizens (residents 60 years of age or older who have had their legal domicile in Virginia for one year or more) may enroll in courses for academic credit, full or part time, and pay no tuition if their Virginia taxable income for the preceding year did not exceed \$23,850. They may audit credit courses or enroll in noncredit courses regardless of income level. No fees will be charged, except for course materials, such as laboratory fees.

For professional development courses, a percentage of the tuition may be charged.

Senior citizens are required to complete an application for admission. They will be accepted in a course after all full and part-time students who are paying regular tuition fees have been accommodated, on a space-available basis, unless they have completed 75 percent of the requirements necessary for a degree. At such time senior citizens can enroll in courses at the same time as other tuition-paying students. Interested persons should contact the Admissions and Records Office.

Veterans Educational Benefits

Veterans who have served in the military or children, wives or widows of veterans may be eligible for educational assistance through the U.S. Department Veterans' Affairs (VA) or the Virginia Department of Veteran Services (DVS). For information concerning the VA and educational assistance, contact LFCC Veterans Services, <http://www.lfcc.edu/veterans>, <http://www.gibill.va.gov>, or <https://www.dvs.virginia.gov>. The Veteran Services Office at LFCC provides information about VA educational benefits to veterans, service members and eligible dependents. The office also certifies student enrollment with the VA, VANG, VMSDEP and Federal TA.

Pursuant to the veterans Benefits and Transition Act of 2018, section 3679 of title 38, United States Code, eligible students, using Chapter 31 or 33 benefits, will not be denied the right to attend courses, if the student: provides COE (certificate of eligibility) prior to first day of session, submits written request to use such entitlement, or provides additional information as required to submit proper certificate of enrollment, including but not limited to, domiciliary documentation, social security number, etc. Eligible students will not receive penalties, including late fees, denial of access to classes, libraries or school facilities, or be required to borrow additional funds due to his or her financial obligations to LFCC as a result of delayed payments by VA for education assistance under Chapter 31 or 33. This period will begin on the date student provides certificate of eligibility and will end on the earlier of the following dates: the date on which payment from VA is received by LFCC or 90 days after the date LFCC certified tuition and fees. Students who have less than 100% eligibility may be required to pay tuition and fees minus the anticipated VA payment.

Transfer Credit Policy

Transfer of Credit from Other Postsecondary Institutions

Credit may be transferred only from colleges and universities that

- (a) are accredited by the Commission on Colleges of the Southern Association of Colleges and Schools or the Commission on Higher Education of the regional accreditation associations, such as the Commission on Colleges of the Southern Association of Colleges and Schools or
- (b) conform to the requirements published in the *Transfer of Credit Practices of Designated Educational Institutions* by the American Association of Collegiate Registrars and Admissions Officers (AACRAO).

Credits earned at other postsecondary institutions either before or after admission to the College are reviewed and evaluated on a case-by-case basis. Transfer credit must be similar in content, credit, and learning outcomes to the counterpart courses at LFCC. The student must have been in good standing and only courses with a grade of C or better are considered for transfer credit. Transfer credit does not guarantee curricular substitution of specific course requirements. Requests for evaluation of transfer credit must be submitted to the Admissions and Records Office. Students are urged to meet with a counselor or advisor to determine specific course requirements.

Transfer credit may be awarded for coursework completed at international colleges and universities that are accredited or approved by the appropriate Ministry of Education or other governmental agency. Students must have international transcripts translated and evaluated by a professional organization or agency. Fees for the evaluation are the responsibility of the student. Additional information regarding the process is available on the LFCC Web site at: <http://www.lfcc.edu/future-students/future-international-students/international-transcript-evaluation-/index.html>.

Transfer Credit for Military Experience

LFCC awards credit for military experience/schooling. Those interested should contact the Admissions and Records Office.

Transfer Credit for Professional Legal Secretaries

LFCC awards transfer credit to those who have successfully completed the professional legal secretary examination (PLS), upon certification of completion of the exam. Those interested should contact the Admissions and Records Office.

Alternative Forms of Credit

Advanced Placement (AP) and International Baccalaureate (IB) Programs

Advanced Placement (AP) & International Baccalaureate (IB) Programs AP/IB examinations generally follow the successful completion of AP/IB courses in high schools where AP/IB courses are taught. LFCC awards credit for completion of selected AP examinations on which a score of three, four or five is achieved. LFCC accepts scores of 5 or higher for the higher level test for International Baccalaureate (IB) courses. To receive credit, students must be admitted to the College, be admitted to a program, submit a copy of their score report printed from the College Board Web site or sent directly from the College Board, and submit a signed Transcript Evaluation Request Form. Credits awarded by LFCC may or may not be accepted at other institutions. Students are encouraged to contact the college or university to which transfer is anticipated to determine the institution's policy regarding AP/IB course credit. Students eligible for AP/IB credit should contact the Middletown Campus Admissions and Records Office at 540-868-7105, or the Fauquier Campus Admissions and Records Office at (540) 351-1510 for additional assistance.

College Level Examination Program (CLEP)

The College recognizes most CLEP general and subject examinations. College policy is periodically reviewed; therefore, students should request current information from counselors and faculty. Students should also consult colleges and universities where they plan to transfer. Credit may not be accepted at all schools. The College's

testing center is an open CLEP center, providing convenient test administration to students of LFCC and other colleges.

Credit by Examination

The College provides a means to earn credit by examination for some courses. Students whose previous educational studies, training programs or work experience may entitle them to an adjustment in the course requirements for a particular curriculum should contact the course professor to determine whether a course is available for CBE.

Credits earned through the examination method may or may not be transferable to other institutions. Students should determine transferability of credits earned through CBE with the institution to which transfer is planned.

LFCC's Credit for Prior Learning Manual is available online at <https://lfcc.edu/future-students/transfer-in-creditcredentials/>.

Expenses

The VCCS is dedicated to giving individuals an opportunity for the continuing development and extension of skills and knowledge, along with the prospect to increase an awareness of his or her role and responsibility to society.

In an effort not to exclude any Virginia resident from the opportunities offered by LFCC, the State Board for Community Colleges has consistently maintained tuition and fees at the lowest possible level. LFCC realizes that any tuition or fee may represent a barrier to those wishing to pursue further education. The College has funds available to help students needing financial assistance. (See the *Financial Assistance* section.) The College may be able to assist in providing funds for tuition, books and other expenses for students who qualify.

Additional Expenses

Payment of tuition and fees enables students to use the libraries, bookstores, parking lots, student centers and other facilities of the College. Students are required to pay charges for any College property they damage or lose (such as laboratory or shop equipment, supplies, library books and materials).

Eligibility for In-State Tuition

To be eligible for in-state tuition, a student (or in the case of an unemancipated minor or dependent student, the parent or legal guardian) must have been domiciled in the Commonwealth of Virginia for at least one year immediately prior to the commencement of the semester for which in-state tuition is sought. Domicile is a legal concept which means "the present home of an individual where he or she returns from temporary absences and where he or she intends to stay indefinitely." The student must establish eligibility by clear and convincing evidence.

Anyone not eligible through his or her own domicile or that of a parent or legal guardian, or spouse, may be eligible under the military exception, the military spouse or dependent exception, or a special arrangement contract. Those interested should contact the Admissions and Records Office for additional information. Domicile guidelines may be referenced at State Council of Higher Education for Virginia at <http://www.schev.edu/index/tuition-aid/in-state-residency> and at LFCC.edu/militarydomicile.

Domicile Appeal Process

Any applicant denied in-state tuition has the right to appeal according to the following process:

1. A member of the admissions staff will make the initial determination.
2. Upon appeal, an intermediate review will be conducted by the Registrar.
3. Final administrative review will be made by a domicile appeals committee.

Additional information regarding the domicile appeal policy is available in the student handbook and from the Admissions Office.

Tuition and Fees

Tuition and fees are set by the State Board for Community Colleges and are subject to change. Consult the College's Web site for current fee information at <https://lfcc.edu/current-students/tuition-and-payment-information/tuition-rates/>.

Tuition may be paid with cash, personal checks, money orders, MasterCard, American Express, Discover or Visa credit cards or the TMS interest-free payment plan. The preferred method of payment is online using credit cards, e check or savings account. Tuition paid by check or credit card should be for the exact amount. The College is not permitted to cash checks or give change for checks written for an amount greater than that due for tuition and fees. Students enrolling in two or more community colleges simultaneously pay tuition at each college based on their status at either college. Separate payment is required for bookstore purchases; one payment cannot be accepted for both tuition and books.

Accounts

Each student who enrolls at LFCC must meet his or her financial obligations to the College before transcripts, certificates, diplomas or degrees will be issued to the student. A student with delinquent accounts will be withdrawn, refused admittance to classes, precluded from registering for a course(s) or subject to civil court action. Students with special circumstances need to contact the financial aid officer or the budget and financial services officer regarding their situation.

Additional Fees

Specific programs or courses may have additional fees. Students should consult specific program or course documents for details.

Auxiliary Fee

The College charges an auxiliary fee per semester to maintain and repair existing parking facilities and construct new parking facilities. Parking maintenance includes parking lot paving, painting, lighting repairs, security and other associated costs. An auxiliary fee will be charged to all students. The auxiliary fee is subject to change and can be found at <https://lfcc.edu/current-students/tuition-and-payment-information/tuition-rates/>.

Books and Materials

Students are expected to obtain their books, supplies and consumable materials needed for their studies.

Student Activity Fee

A student activity fee supports student events and programs. Funds in this account are spent only for student activities, subject to the review of the College administration. The College Board is responsible for the operation and control of these funds under the specific methods and procedures established by the State Board for Community Colleges and approved by the state auditor.

A student activity fee is charged to all students taking classes. Student activity fees fund various student activities and events throughout the school year. This fee is subject to change and can be found at <https://lfcc.edu/current-students/tuition-and-payment-information/tuition-rates/>.

Administration and Collection Charges

Past due accounts may be charged a one percent per month, 12 percent per year, administrative and collection fee. The College utilizes a collection agency to assist in the collection of past due amounts. Costs of all collection efforts are passed to the debtor. Past due accounts sent to a collection agency are assessed an additional collection charge, usually 25 (20.48) percent. This charge is calculated to provide the normal collection fee to the collection agency and to provide the full amount due the College. LFCC participates in the Set-Off Debt Collection Program. This program permits the College to collect past due amounts from its debtors' by appropriating an individual's Virginia tax refunds and lottery winnings.

Dishonored or Insufficient Funds Checks

A service charge of \$35.00 is assessed for any check dishonored by a student's bank. Student accounts must be cleared immediately in order for the College to continue to provide service.

Refunds

Students shall be eligible for a refund for those 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 LFCC account to drop a course by the refund deadline date. It is the 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, unless due to highly unusual emergency or extenuating circumstance.

Under exceptional circumstances, Lord Fairfax Community College (LFCC) can grant tuition refund/debt removals for students who withdraw after the final drop date. Refund/debt removals are guided by Virginia Community College System (VCCS) Policy 4.3.2.3 Exceptional Cases Caused by VCCS or College.

These have been defined as the following:

- 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 circumstance as determined by the College

A review panel is responsible for determining if a tuition refund/debt removal is justified. Tuition refund requests must be initiated no later than the end of the subsequent academic semester in which the refund request is requested. (Example: A fall refund request must be completed no later than the end of the subsequent spring semester). Requests outside of this deadline will not be accepted.

Determination of Refund

To be eligible for a refund under any of the above circumstances, a student must complete the drop procedure within the student information system. After drop date, a student needs to complete a withdrawal and see an academic advisor to complete the process. Eligibility for a refund is determined by the date the drop transaction is completed. The number of times a course has met is not used in determining eligibility for a refund. Questions regarding refunds should be directed to the Business Office. The College has a military refund policy that complies with state and federal regulations. For more information, please visit <https://lfcc.edu/veterans-services/military-refund-policy/>.

Tuition Refund Exception Policy (Military Students)

It is the policy of LFCC to provide for the tuition relief, refund and reinstatement of students whose active military duty, during a time of national emergency, has required their sudden withdrawal or prolonged absence from their enrollment. For more information, please visit <https://lfcc.edu/veterans-services/military-refund-policy/>.

Attendance

Students are expected to attend all of their regularly scheduled classes. Faculty are responsible for attendance records and all matters related to attendance in his/her classes. Attendance is defined as participating as required by the course syllabus (e.g., participation in a discussion board for an online course, being present at a designated work site for an internship, etc.).

Attendance/Administrative Deletion Policy

The VCCS policy states that in order to receive any letter grade, a student must have attended a minimum of one class meeting or the equivalent in the case of a distance learning course. In a distance learning course, initial student attendance is determined by course participation as measured by accessing and using course materials, completion of a class assignment, participation in a course discussion or other evidence of participation.

It is the policy of LFCC that any student who has enrolled in a course, but does not attend a minimum of one class meeting or the distance learning equivalent, by the last day to drop a class and qualify for a refund for the semester (as published by the Admissions and Records Office in the academic calendar), shall be administratively

deleted from the course. This administrative deletion will not entitle the student to any refund in full or in portion.

The Admissions and Records Office will issue notification letters to all students who are administratively deleted. It will be the student's responsibility to notify the Admissions and Records Office if the deletions were done in error and/or if the student requests reinstatement in the class.

Financial Aid

LFCC is committed to using all available funds to help students gain access to a college education. Financial aid is usually awarded based on financial need, but can be awarded based on merit or a combination of factors. Assistance is available through a variety of federal, state and institutional programs. For a complete list of financial aid available see <http://www.lfcc.edu/finaid>.

How to Apply for Federal & State Financial Aid

Students applying for aid must complete the Free Application for Federal Student Aid (FAFSA). See <http://www.lfcc.edu/finaid> to apply. Applications should be submitted as soon as possible after Oct. 1 of each year. The priority application deadline is June 1. Information concerning financial aid at LFCC is available at the Financial Aid Office or on the College's Web site at <http://www.lfcc.edu/finaid>. Students must have a high school diploma, a GED or have completed a homeschool program in order to be eligible to receive financial aid.

Satisfactory Academic Progress for Financial Aid Recipients

Students are required to maintain **satisfactory academic progress** to receive and continue receiving aid. The U.S. Department of Education has established a series of standards that define all of the satisfactory academic progress (SAP). For full Satisfactory Academic Progress details, see <http://www.lfcc.edu/finaid>.

Financial Aid Repayment

If students drop a class and financial aid has already been disbursed to their account, a debt may be incurred to LFCC if an overpayment occurs for a change in enrollment status. Additionally, student who withdraw, drop out, are dismissed, or take a leave of absences prior to completing 60 percent of a payment period may be required to pay back some or all of the financial aid. These policies are effective only if the student completely terminated enrollment or stops attending all their classes before completing more than 60 percent of the enrollment period. For more information, see Repayment Policy at <http://www.lfcc.edu/finaid>.

Degrees and Certificates

The College offers the following degrees, diplomas or certificates for students who successfully complete approved programs at the College.

- The associate of arts and sciences degree (AA&S) is awarded to students majoring in the liberal arts and specialized curricula such as business administration, pre-teacher education, general studies and other professional programs who plan to transfer to a four-year college or university after completing their LFCC program.
- The associate of applied science degree (AAS) is awarded to students majoring in one of the occupational-technical curricula who plan to seek full-time employment upon graduation from the College.
- The associate of science degree (AS) is awarded to students majoring in science, agriculture, engineering or health science who plan to transfer to a four-year college or university after completing their LFCC program.
- The certificate is awarded to students who complete one of the approved, non-degree curricula usually less than two years in length.

Associate Degree Requirements

To be eligible for graduation with an associate degree from the College, potential graduates should reference the following guidelines:

1. Fulfill all of the course and credit-hour requirements of the curriculum with at least 25 percent of the credits for degrees, diplomas, certificate, or career studies acquired at LFCC;
2. Be certified by an appropriate College official for graduation;
3. Earned a grade point average of at least 2.0 in all studies attempted that are applicable toward graduation in their curriculum;
4. Meet any other competency requirements and complete required exit testing established by the College;
5. The application for graduation is available at www.lfcc.edu by logging into MY LFCC, Student Center, and clicking Apply for Graduation. The name will be printed on the diploma as it appears on the application;
6. Resolve all financial obligations to the College and return all library and College material; and
7. We use auto award in special cases where students have not applied to graduate but have completed requirements. Please contact the Records Office for additional information.

Certificate Requirements

To be eligible for graduation with a certificate from the College, potential graduates should reference the following guidelines:

1. Fulfill all of the course and credit-hour requirements of the curriculum with at least 25 percent of the credits for degrees, diplomas, certificate, or career studies acquired at Lord Fairfax Community College;
2. Be certified by an appropriate College official for graduation;
3. Earned a grade point average of at least 2.0 in all studies attempted that are applicable toward graduation in their curriculum;
4. Meet any other competency requirements established by the College;
5. The application for graduation is available at www.lfcc.edu by logging into MY LFCC, Student Center, and clicking Apply for Graduation. The name will be printed on the diploma as it appears on the application;
6. Resolve all financial obligations to the College and return all library and College materials; and
7. We use auto award in special cases where students have not applied to graduate but have completed requirements. Please contact the Records Office for additional information.

Transfer Guidelines

To help facilitate the transfer process, LFCC has created an online “Transfer Guide” that provides detailed information such as tuition, GPA, application requirements, course equivalents, and other information that may be useful in the transfer process. The Transfer Guide can be found at www.lfcc.edu/transfer. The Virginia Community College System also offers a transfer planning tool on the Virginia Educational Wizard, which can be found at www.vawizard.org.

Students should begin preparing for transfer as early as possible. Steps in this process include: making a career decision, identifying colleges which offer the intended program of study, examining available transfer information and college catalogs, exploring Guaranteed Admissions and Transfer agreements, talking with transfer representatives, identifying program prerequisites, researching the academic competitiveness of the institutions and program under consideration, attending open house events offered by the colleges, and exploring financial aid and housing opportunities.

LFCC offers many services and programs to assist the transfer student. Students are encouraged to seek the assistance of an advisor or counselor to gain additional information to plan a successful transfer experience.

Special Academic Policies

Auditing a Course

Students desiring to attend a course without taking examinations or receiving credit for the course do so by registering to audit that course during the add/drop period. Students pay the regular tuition. Permission of the faculty member and appropriate dean is required to audit a class. Audited classes are not eligible for financial aid.

Student Development

All curricula placed students shall enroll in a College Success Skills class (SDV 100, 101) within the first fifteen (15) credits of their program of study at the College. The course is designed to help students transition to college and introduce them to College resources and services. Effective study skills, career and academic planning and college transfer are among the topics offered to help students succeed in their course work. The requirement may be waived for students who hold an Associate Degree or Bachelor's Degree from a regionally accredited institution. Other requests for a waiver may be considered on a case-by-case basis. Students must still successfully complete the required number of credits for their degree.

Transfer between Curricula

As students proceed in their studies, they may decide to change their program or curriculum. Students are required to make an appointment with their assigned advisor to discuss program changes.

Graduation

The College holds a formal commencement ceremony each May. Students completing graduation requirements in the summer term may receive their diploma in August. Students who graduate at the end of the summer or fall terms are considered graduates of the class the following May. Applications for graduation and additional information are available online in the Student Information System.

Graduation Requirements

The catalog in effect on the date a student is formally admitted to a curriculum/program is used to determine course and credit requirements for graduation. The new catalog for each academic year becomes effective on the first day of the summer semester. The College reserves the right to make changes in the curricular requirements when necessary. Students are encouraged to keep up with changes to their curriculum as listed in new catalogs. In cases where a student discontinues enrollment at the College for two consecutive semesters (excluding summer), graduation requirements are determined by the catalog in effect during the semester a student re-enrolls.

Graduation Honors

A student who has fulfilled the applicable program of study requirements is eligible for graduation honors. Appropriate honors based upon scholastic achievements are recorded on the student's permanent record as follows:

- Cumulative GPA Honor
- 3.2 Cum laude (with honor)
- 3.5 Magna cum laude (with high honor)
- 3.8 Summa cum laude (with highest honor)

Classification of Students

Student classification categories:

- Curricular students: Students who have a high school diploma, GED, or its equivalent, or demonstrate ability to benefit from college as demonstrated on the VPT. Student information system files must contain all of the information required for general admission to the College as curricular students, and students must have formally requested and been admitted to one of the curricula of the College.
- Noncurricular student: A student who has not been formally admitted to one of the curricula of the College.

- Full-time student: A student enrolled for 12 or more credits in a term.
- Part-time student: A student enrolled for fewer than 12 credits in a term.
- Freshman: A student is classified as a freshman until 30 semester credits have been completed.
- Sophomore: A student is considered a sophomore after successfully completing 30 semester credits.

Credits

A credit is equivalent to one collegiate semester hour credit. Each semester hour of credit given for a course is based upon approximately one academic hour (50 minutes) of formalized, structured instructional time weekly for 15 weeks (or equivalent) by each student. Courses with lab component require extra time. In addition to instructional time, a scheduled evaluation or examination period is given for each semester hour of credit. Courses may consist of lectures, out-of-class study, laboratory and shop study or their combinations.

Normal Academic Load

The normal academic load for students is 15–17 credits. The minimum full-time load is 12 credits and the maximum full-time load is 18 credits, excluding College Success Skills (SDV 100). A student wishing to carry an academic load of more than 18 credits must have the signed approval of a counselor or advisor.

Change of Registration (dropping, adding and withdrawing from courses)

Students must follow established add, drop and withdrawal deadlines as published in the Academic Calendar each term when making any change in their class schedule. Failure to do so could place their academic record in jeopardy. To make changes in enrollment (adds or drops) students may use the *Student Information System* accessed by logging into their My LFCC account. For withdrawal, students must complete a withdrawal request form from the Admissions and Records Office. It is the student's responsibility to be aware of all deadline/penalty dates listed in the Academic Calendar.

Adding Courses

Students are allowed to register late or add courses only through the end of the published dates.

Dropping a Course

A student wishing to drop a course must complete the drop electronically through the student information system, MyLFCC, by the published last date to drop and qualify for a refund for the particular course. This transaction removes the student from the class roll and no grade is assigned.

Withdrawal (from a course or the College)

A withdrawal from a course is required after the published last date to drop the course with refund. A withdrawal from course(s) should be completed in MYLFCC by the published last day to withdraw. Prior to withdrawing from a course, it is advisable that the student discuss their withdrawal with the faculty member teaching the course. Some programs (i.e. nursing) require additional paperwork and students should check with the dean of those programs prior to finalizing a withdrawal. It is recommended that financial aid recipients meet with a financial aid officer prior to requesting a withdrawal to determine the impact this may have on future aid eligibility and any current financial aid awarded. As described above, a student may withdraw from a course without academic penalty through the published withdrawal date for the course, a period equivalent to the first 60 percent of a term (session) and receive a grade of W. After that time, the student receives a grade of F.

Withdrawal with Mitigating Circumstances

A withdrawal from a course or courses may be considered after the published deadline date if there are serious mitigating circumstances such as medical emergencies or other extreme conditions (as determined by the College). The mitigating circumstances must be documented by the student and presented to the advisor in student services with the request to withdraw. Requests for mitigating circumstances must be submitted to an advisor prior to the close of business on the last day of classes (excluding exams). If the mitigating circumstances are approved, the student may receive a grade of W. A copy of the documentation will be filed in the Admissions and Records Office and retained according to records retention policy.

Dual enrolled students who encounter mitigating circumstances and need to withdraw should work with the director of guidance at their high school. Signature from the LFCC Dean of High School Outreach is required for approval.

Cancellation of a Course/Section by the College

Classes with low enrollment may be cancelled before the course start date. Students should work with an advisor to identify an open section.

Course Substitutions for Program Requirements

All courses listed for a program are considered required courses. Substitutions for required courses must be approved in writing by an advisor and the appropriate academic dean. Student should work with their academic advisor on course substitution.

Repeating a Course

Any attempted course that is a repeat of a course previously attempted under the semester system is used in the calculation of the cumulative GPA. The previous semester attempts of the repeated course appear on the academic record but are not used in the cumulative GPA calculation or to satisfy graduation requirements. All courses attempted under the quarter system appear on the academic record and are included in the calculation of the GPA. Questions concerning the repeat policy should be directed to the Admissions and Records Office. A student may repeat a course previously taken but should normally be limited to two enrollments of the same course. Requests to enroll in the same course more than twice must be documented and approved by the College's chief academic officer, or designee. This policy does not apply to general usage courses numbered in the 90s, 95s, 96s, 97s, 98s or 99s.

Examinations

All students are expected to take their examination at regularly scheduled times. No exceptions will be made without the permission of the vice president of academic and student affairs or other appropriate academic administrator and the instructor of the course.

Grading System

The grades of A, B, C, D and P are passing grades. Grades of F and U are failing grades. R and I are interim grades. Individual instructors determine criteria for letter grade assignments described in individual course syllabi.

Explanation of Grades

The quality of performance in any academic course is reported by a letter grade, assigned by the instructor. These grades denote the character of study and are assigned quality points as follows:

A	Excellent	4 grade points per credit
B	Good	3 grade points per credit
C	Average	2 grade points per credit
D	Pass	1 grade point per credit
F	Failure	0 grade points per credit

I – Incomplete

No grade point credit. The "I" grade is to be used only for verifiable unavoidable reasons that a student is unable to complete a course within the normal course time. To be eligible to receive an "I" grade, the student must (1) have satisfactorily completed more than 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 its percentage in relation to the total work of the course;
- (3) specifies the date by which the work must be completed; and
- (4) identifies the default (B, C, D, F, P, R, or U) based upon course work already completed.

Completion dates may not be set beyond the 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. Colleges will establish procedures to ensure that all "I" grades that have not been changed by the faculty member through the normal grade change processes are subsequently changed to the default grade assigned by the faculty member. An "I" grade will be changed to a "W" only under documented mitigating circumstances which must be approved by the Chief Academic Officer of the campus.

W – Withdrawal

No credit. A grade of withdrawal indicates an official withdrawal from a course after the last date to be eligible for a refund.

X – Audit

Student 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 a 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". Advanced standing credit should not be awarded for a previously audited course.

Grade Point Average (GPA)

GPA is determined by dividing the total number of grade points earned in courses by the total number of credits attempted. The cumulative GPA includes all courses attempted. When students repeat a course, only the last grade earned is counted in the computation of the cumulative GPA and for satisfying curricular requirements.

Grading—Developmental Studies Courses

A grade of S is assigned for satisfactory completion of developmental studies courses numbered 1–9 and ESL courses. S grades are not included in GPA calculation. Students making satisfactory progress but not completing all of the instructional objectives for a developmental studies course or an ESL course will be graded with an R (re-enroll) and must re-enroll to complete the course objectives. Students not making satisfactory progress in a developmental studies course or an ESL course will be graded U. Students should consult with the instructor to determine the subsequent sequence of courses for students receiving a grade of U.

R – Re-enroll

No grade point credit; the "R" grade may be used as a grade option, in developmental and ESL courses only, to indicate satisfactory progress toward meeting course objectives. In order to complete course objectives, students receiving an "R" grade must re-enroll in the course and pay the specified tuition.

S – Satisfactory

No grade point credit. Indicating satisfactory completion of course objectives, this is used only for developmental studies courses numbered 01–09 and English as Second Language (ESL) courses 11-16.

U – Unsatisfactory

No grade point credit (applies to developmental studies courses numbered 01–09 and ESL courses numbered 11–16).

Grade Reports

Grade reports are available to students by the published date each semester. Students must access the student information system to view their grade report.

Grade Appeal Policy

Evaluation of student performance, reflected in the final course grade, becomes a part of the permanent student record of the College and is recorded on the College transcript for the student. Based upon factors relating to the achievement of course objectives, this grade is assessed by the instructor according to the policies of the College, and is considered final, unless a student files an appropriate appeal in a timely manner.

When a student believes that a final grade has been determined incorrectly, the student must file a written report with the instructor (with a copy to the instructor's dean) identifying specifically the reason(s) for the appeal and including any supporting documentation. This written report (with a copy to the instructor's dean) must be filed with the instructor as soon as possible but no later than 10 business days after the first day of class of the next regular (fall/spring) semester.

Within 10 business days following receipt of the appeal, the instructor will communicate the decision about whether or not to change the grade, and if so, the new grade, to the student in writing with a copy to the dean. If the matter is not mutually resolved within 10 business days after notification of the instructor's decision, the student may appeal to the appropriate dean by submitting a written request for a review of the case at a formal hearing of the student, the instructor and the dean. The dean's response to the appeal will be issued within 10 business days of the formal hearing. The decision of the dean will be considered final and binding.

Academic Renewal

Students who previously earned grades of F or D at LFCC may request academic renewal once they have returned to LFCC after being separated from the College for a period of five or more consecutive years and have a GPA of 2.5 or higher in the first 12 semester hours completed after re-enrollment. Contact the Admissions and

Records Office for more information and the *Academic Renewal Request* form. Grades affected will be reflected as follows:

- (D) Academic Renewal
- (F) Academic Renewal

Student Status

Good Standing

Students are considered to be in good academic standing if they maintain a minimum grade point average (GPA) of 2.0 per semester, are eligible to re-enroll at the College, and are not on academic suspension or dismissal status.

Academic Warning

Students who fail to attain a GPA of 2.0 for any semester shall be placed on academic warning. Students on academic warning are encouraged to consult with an advisor/counselor and take advantage of academic support services provided by the college.

Academic Probation

Students who fail to maintain a cumulative GPA of 1.5 shall be on academic probation until such time as their cumulative average is 1.75 or better. The statement "Academic Probation" shall be placed on their permanent records. Students on probation are ineligible for appointive or elective office in student organizations unless special permission is granted by the vice president or another College administrator. Students may be required to carry less than a normal load the following semester and are required to consult with an advisor/ counselor. Students shall be placed on probation only after they have attempted 12 (twelve) semester credits.

Academic Suspension

Students on academic probation who fail to attain a semester GPA of 1.50 or better shall be placed on suspension only after they have attempted 24 semester credits. Academic suspension shall be for one semester. The statement "Academic Suspension" shall be placed on the students' permanent records. Students who are placed on academic suspension and wish to appeal should submit an appeal in writing to the campus dean or to the Dean of Students for reconsideration. This written request should state what happened to get the student into this situation, what is different now, and what is the student's plan for future success. The student must then meet

with the campus dean or the Dean of Students to discuss their plan for academic success and what are the conditions of reinstatement. Suspended students may be reinstated at the conclusion of the suspension period by following the process established by the college. Students who have been reinstated from academic suspension must achieve a 2.00 GPA for the semester of their reinstatement and must earn at least a 1.75 GPA in each subsequent semester of attendance. The statement "Subject to Dismissal" shall be placed on the students' permanent records.

Students who have been reinstated from academic suspension will remain subject to dismissal until their cumulative GPA is raised to a minimum of 1.75. Reinstated students may be required to carry less than a normal course load the following semester and are required to consult with their advisor/counselor.

Academic Dismissal

Students who do not attain at least a 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 of enrollment. Failure to attain a 1.75 GPA in each subsequent semester until the cumulative GPA reaches 1.75 shall result in academic dismissal.

The statement "Academic Dismissal" shall be placed on the students' permanent records. Academic dismissal is normally permanent. In exceptional circumstances, students may appeal to the campus dean or the Dean of Students to be reinstated. Students who have been reinstated after academic dismissal will remain subject to dismissal until their cumulative GPA is raised to a minimum of 1.75. Reinstated students may be required to carry less than a normal course load the following semester and are required to consult with their advisor/counselor.

Transcript Requests

There is no fee charged for sending transcripts. This policy is subject to change. Students may request transcripts electronically from their MyLFCC student information account. (www.lfcc.edu/current-students/admissions-and-records/transcript-request)

The College does not provide copies of transcripts from other schools. Such copies must be obtained from the originating source. Students must provide written authorization at the time of the transcript request in order for any other person to pick-up a student transcript.

Academic Recognition

President's List

This recognition is given to students who achieve a GPA of 3.8 or above without F or U grades in any academic semester with 12 or more credits completed.

Dean's List

This recognition is given to students who achieve a GPA of 3.2 or above without F or U grades in any academic semester with 12 or more credits completed.

Continuing Education Unit

The Continuing Education Unit (CEU) recognizes an individual's participation in selected professional and personal development activities. One CEU is equivalent to 10 contact hours of participation in a seminar or class that meets specific criteria as set forth by the student's governing professional organization. Satisfactory completion of activities awarding CEUs is based on some predetermined level of attendance or on a combination of attendance and performance. The College maintains a permanent record for each participant who successfully completes a program or activity. CEUs and such academic credit units as semester or quarter hours are separate and distinct units of measure and may not be interchanged.

Other Administrative Information and Policies

Annual Notice: Family Educational Rights and Privacy Act

The Family Educational Rights and Privacy Act (FERPA) affords students certain rights with respect to their education records. These rights include:

1. The right to inspect and review the student's education records within 45 days of the date the College receives a request for access. Students should submit to the admissions and records officer, or other appropriate official, written requests that identify the record(s) they wish to inspect. The College official will make arrangements for access and notify the student of the time and place where the records may be inspected. If the College official to whom the request was submitted does not maintain the records, that official will advise the student of the correct official to whom the request should be addressed.
2. The right to request the amendment of the student's education records that the student believes are inaccurate or misleading. Students may ask the College to amend a record they believe is inaccurate or misleading by writing to the admissions and records officer. Students need to clearly identify the part of the record requested to be changed and specify its inaccuracy or misrepresentation. If the College decides not to amend the record as requested by the student, it will notify the student and advise the student of the right to a hearing regarding the request for amendment. Additional information regarding the hearing procedures will be provided to the student when notified of the right to a hearing.
3. The right to consent to disclosures of personally identifiable information contained in the student's education records, except to the extent that FERPA authorizes disclosure without consent. One exception, which permits disclosure without consent, is disclosure to school officials with legitimate educational interests. A school official has a legitimate educational interest if the official needs to review an education record in order to fulfill his or her professional responsibility. A school official is a person employed by the College in an administrative, supervisory, academic or research or support staff position (including law enforcement unit personnel and health staff); a person or company with whom the College has contracted (such as an attorney, auditor or collection agent); a person serving on the College Board; or a student serving on an official committee such as a disciplinary or grievance committee, or assisting another school official in performing his or her tasks.

The bookstore at LFCC has a legitimate educational interest and thus access to student financial aid records for verification of sufficient funds for the purchasing of books and supplies.

4. The right to file a complaint with the U.S. Department of Education concerning alleged failures by the College to comply with the requirements of FERPA.

Student Directory Information

As provided for by FERPA, the College may disclose "directory information" relating to students as follows:

1. Name
2. Major field of study
3. Dates of attendance
4. Grade level
5. Number of credit hours
6. Degrees, honors and awards received
7. The most recent previous educational agency or institution attended
8. Participation in officially recognized activities and sports
9. Weight and height of members of athletic teams
10. Photos

Any student who objects to having any or all of the directory information disclosed without his/her written consent must notify the Admissions and Records Office in writing each semester by the first day of classes.

Student Education Records

The student's permanent official education record is kept in the Admissions and Records Office. To protect the student's right to confidentiality, the Admissions and Records Office exercises strict control over these records.

The admissions and records office is responsible for education records and requests for information regarding them should be filed with this office.

Student Records Retention Policy

The permanent academic record is the only official document of a student's academic history and the only official document used for record reconciliation. All other student documents are subject to disposal by the College in accordance with VCCS policy.

Impact of Academic Dishonesty on Academic Honors

Students are advised that if they are found guilty of academic dishonesty they will not graduate with any type of academic honors awarded by the College.

General Education Competencies

Competency: Critical Thinking

Definition: 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.

Outcomes:

1. Locate – Analyze and integrate information from separate sources to solve a real-world problem.
2. Evaluate - Evaluate how strongly correlational-type data support a hypothesis.
3. Interpret - Provide alternative explanations for observations and/or for spurious relationships.
4. Combine - Identify suitable solutions for a real-world problem using relevant information.

Competency: Civic Engagement

Definition: Civic Engagement is the ability to contribute to the civic life and well-being of local, national, and global communities as both a social responsibility and a life-long learning process. Civic engagement can take many forms, from individual volunteerism to organizational involvement to electoral participation. For students, this could include community-based learning through service-learning activities, community-based research, or service within the community. Degree graduates will demonstrate the knowledge and civic values necessary to become informed and contributing participants in a democratic society.

Outcomes:

1. Civic Identity: Reflect on personal social/civic identity and how that identity differs from others in their communities.
2. Civic Discourse: Deliberate on issues and problems to advance or achieve a civic aim.
3. Civic Responsibility: Consider and respond to civic, social, environmental, or economic challenges at local, national, or global levels.
4. Multiple Perspectives: Acquire knowledge and apply that knowledge when taking into account multiple viewpoints on a civic issue.

Competency: Quantitative Literacy

Definition: 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.

Outcomes:

1. Use interest and loan formulas to analyze financial issues
2. Use logical and mathematical reasoning within the context of popular culture: political speeches, advertisements, and other attempts to persuade
3. Solve real-life problems requiring conversion of units using dimensional analysis

Competency: Scientific Literacy

Definition: 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 use the scientific method, and to evaluate empirical information.

Outcomes:

1. Critically interpret scientific data in various formats.
2. Apply/Show proficiency in scientific problem-solving skills.
3. Recognize methods of inquiry that lead to scientific knowledge.
4. Understand basic scientific principles

Competency: Written Communication

Definition: 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.

Outcomes:

1. Purpose and Focus: Fulfill the assignment in a fresh and mature manner; reveals a controlling sense of purpose and a strong understanding of purpose.
2. Content: Thoroughly develop ideas.
3. Composition: Achieve a level of prose that is clear, readable, and occasionally memorable.
4. Language: Reveal a command of formal edited English and is mostly free from errors in grammar and mechanics.

Competency: Professional Readiness

Definition: 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.

Outcomes:

1. Oral Communication: Maintain open, effective, and professional communications
2. Ethical Reasoning: Assess ethical issues in a variety of settings using multiple viewpoints to develop and defend one's own moral values
3. Leadership: Discern and describe their personal leadership style, strengths, and limitations
4. Cultural awareness and sensitivity: Recognize their own multiple identities, experiences and biases

The Honors Program

The LFCC Honors Program is designed to challenge and reward students who are intellectually motivated and academically able through opportunities for in-depth study and interaction with like-minded students. A student may obtain honors credit by earning credit in an honors section, by fulfilling the honors component in a regular course as specified by the course professor or by completing a special honors seminar. A grade of A or B is required in a course or seminar in order to earn honors credit. Faculty recommendation or approval is required for enrollment in an honors seminar.

Honors credit is noted on the student's transcript for each course or seminar in which it is earned. Graduating students with a GPA of 3.2 or higher, who have earned honors credit in at least three courses plus one honors seminar (for a total of ten (10) credits) receive the title "Honors Program Scholar" which is designated on their transcript and diploma.

Developmental Studies

English foundations and math essentials courses are offered to meet these needs:

1. prepare individuals for admission to college programs
2. assist students already pursuing coursework who are experiencing difficulties or want to improve their efficiency
3. provide an opportunity for individuals interested in improving their skills in particular areas but are not necessarily enrolled in a program

Students can enroll in courses to meet these three types of needs both during the regular school year and during the summer term.

eLearning

eLearning (which is an abbreviation for electronic learning) is sometimes referred to as *distance learning*. eLearning takes place when an instructor and students are separated by physical distance and various technologies are used to bridge the instructional gap. LFCC offers eLearning in three basic formats: *online*, *hybrid* and *compressed video*.

Online

An online course is a course that uses the Internet exclusively to deliver content and does not have any activities that occur at a single designated time and specified physical location. Online courses are often referred to as Web-based courses. In these courses, 100 percent of the course content is delivered online either through synchronous (real-time) or asynchronous (students and instructor not necessarily online at the same time) communication. These courses allow students the flexibility of completing their coursework using connectivity provided through the Internet. Students enrolled in these courses use an account provided by the VCCS to access the course materials, submit assignments and communicate via email. Some courses may require attendance for on-campus labs or proctored testing. Such requirements are noted in the Class Schedule.

Hybrid Courses

Hybrid courses blend face-to-face instruction with online instruction and activities. In other words, a hybrid course is a course that uses the Internet to deliver a portion of its content in lieu of traditional classroom hours. Internet access is required since much of the course material, activities, and interaction is accomplished through the VCCS course management system.

Compressed Video (Live Interactive Video)

A compressed video course is sometimes referred to as a *live video conference course*. These courses are live, real-time courses that meet on campus in a special distance learning classroom. Since the courses are real-time, the days and times of the courses are fixed. A typical distance learning classroom is equipped with multi-way audio and video technology which includes a large display for student viewing, computer for instruction, document camera, DVD player, and phone/fax for support. Students who participate in a compressed video course may be at a physical location for instruction that is different from where their instructor is facilitating the lesson.

For example, the instructor may meet face-to-face with students at the Middletown Campus connect through video conference to students at the Fauquier Campus and/or the Luray-Page County Center. Synchronous real-time interaction is facilitated through the technology that connects all of the participating sites. In other words, students can hear, see, and speak to the instructor and the instructor, in turn, can interact with the students in the same manner.

Is Online Learning Right for You?

Although there are a number of benefits to online and hybrid learning, the success of students depends highly on good time management, self-discipline and self-motivation. Additionally, online and hybrid learners must have proficiency in computer literacy and competency. In order to help you be a more successful distance learning student, we strongly recommend you examine your learning preferences and technology-related skills before registering for an online or hybrid course.

Old Dominion University – ODU Online

Lord Fairfax Community College serves as a hub for Old Dominion University (ODU) Online. This interactive distance education program enables students to earn undergraduate, graduate, and doctoral degrees from a fully-accredited University without leaving their area of residence. ODU is accredited by the Southern Association of Colleges and Schools Commission on Colleges (SACSCOC).

Students complete the first two years of coursework through the Virginia Community College System, and then complete the remaining required coursework for the undergraduate degree through ODU Online. The Middletown Campus hub location provides proctoring services and a computer lab for printing services on site to students in their service region.

Students interested in ODU admission or course registration should contact the ODU Online Community Engagement Assistant at (540) 869-2948 or by email at afreeze@odu.edu. The office for ODU is located in the Corron Building at Lord Fairfax Community College's Middletown campus (Room 209).

**Minimum Requirements for
Associate Degrees in the VCCS**

General Education	AA	AS	AA&S	AFA	AAA/AAS
Communication	6	6	6	6	3-6
Humanities/Fine Arts	6	6	6	3-9	3-6
Foreign Language (Intermediate Level)	6	0	0	0	0
Social/Behavioral Sciences	9	9	9	3-9	3-6
Natural Sciences	7-8	7-8	7-8	4	} 3-6
Mathematics	3-6	3-6	3-6	3	
*Total for General Education	37-41	31-35	31-35	19-28	15
**Personal Development	1-2	1-2	1-2	1-2	1-2
Major Field Courses & Electives (columns 1-4)	14-22	20-28	20-28	34-43	43-53
Career/Technical Courses (column 5)					
Total for Degree	60-63	60-63	60-63	60-63	60-69

* As specified above, degree programs must contain a minimum of 15 semester hours of general education as defined by SACSCOC.

** Personal development is defined as general education per VCCS policy (5.0.2.2) but cannot be used to meet the general education requirements of SACSCOC in degree programs.

Notes:

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

B – One (1) course in humanities/fine arts for the Fine Arts major must be a literature course.

**General Education Courses Approved to Meet General Education Requirements
All Programs (excluding Liberal Arts)**

Communication Electives:

CST 100, 110, 126

English Electives:

ENG 111, 112

Health/Physical Education Electives:

All HLT and PED courses

RPK 170

History Electives:

HIS 111, 112, 121, 122

Humanities/Fine Arts Electives:

ART 100, 101, 102

ASL 201, 202, 261, 262

CST 130, 141, 151

ENG all 200-level literature courses

Foreign Languages – All 200-level courses

HUM (all except 195, 295)

MUS 121, 122

PHI all remaining courses

REL all remaining courses

Information Literacy Electives:

ITE 115, 119, 120

Literature Electives:

ENG 241, 242, 243, 244, 251, 252

Mathematics Electives:

MTH 154, 155, 161, 162, 245, 261, 262, 263, 264

Science with Laboratory Electives:

BIO 101, 102, 141, 142

CHM 101, 102, 111, 112, 241/245, 242/246

ENV 121, 122

GOL 105, 106, 225

NAS 125

PHY 101, 102, 150, 201, 202, 241, 242

Social/Behavioral Science Electives:

ECO 201, 202

GEO 210, 220

HIS 111, 112, 121, 122, 251, 252, 253, 254, 267, 269, 276

PLS 135, 211, 212, 241, 242

PSY 200, 215, 216, 230, 235, 236, 245, 255, 265, 270

SOC 200, 210, 215, 225, 266, 268

Approved Transfer Electives:

Any of the courses listed on this page (in addition to the ones below) may be used to meet an Approved Transfer Elective requirement.

ACC 211, 212

ADJ 100, 105, 107, 140, 164, 171, 172, 228, 232, 247

ART 100, 121, 122, 131, 132, 153, 154, 241, 242, 243, 244, 283, 284

ASL 101, 102, 115, 125, 201, 202, 261, 262

BIO all remaining courses

BUS 100

CHM all remaining courses

CSC all remaining courses

CST 114, 126, 130, 131, 132, 136, 137, 141, 160, 229

EDU 200, 254, 280

ENG all remaining courses

Foreign Languages all 100-Level Courses

HIM 111, 112

HIS all remaining courses

HLT 160, 206, 230

HMS 100, 121, 141

ITE 115, 119, 120

MTH 167, 265, 266, 267, 288

MUS all remaining courses

NAS 160

PLS all remaining courses

RPK all remaining courses

SOC all remaining courses

The courses listed on this page may be used to meet requirements at LFCC; however, it does not mean it will meet the same requirement at another college/university. It is recommended that you check with your transfer institution prior to selecting courses.

Approved Electives for the Liberal Arts Degree

Communications (9 credits total)

Communication Electives (3 credits):

CST 100, 110, 126

English Electives (6 credits):

ENG 111, 112

Cultural/Social Understanding (30-32 credits total)

Fine Arts Electives (3 Credits):

ART 101, 102, 103, 114, 121, 122, 131, 132, 138, 153, 154, 235, 236, 241, 242, 243, 244, 271, 272

ENG 211, 212, 215, 216, 217, 218, 261, 262

MUS 111, 112, 121, 122, 136, 137, 163, 164, 165, 185

Foreign Language Electives (6-8 credits):

ARA 101, 102, 201, 202

ASL 101, 102, 201, 202, 261, 262

CHI 101, 102, 201, 202

FRE 101, 102, 201, 202

GER 101, 102, 201, 202

JPN 101, 102, 201, 202

RUS 101, 102, 201, 202

SPA 101, 102, 201, 202

Global Studies Electives (3 credits):

ENG 251, 252, 270

GEO 210, 220

HIS 111, 112, 251, 252, 253, 254, 267

HUM 218, 260

PLS 241, 242

REL 100, 230

SOC 211, 212

History Electives (6 credits):

HIS 111, 112, 121, 122

Humanities Electives (6 credits):

ART 100, 101, 102

ASL 201, 202, 261, 262

CST 130, 141, 151

ENG all 200-level literature courses

Foreign Languages- All 200-level courses

HUM all except 195, 295

MUS 121, 122

PHI all except 227

REL all remaining courses

Information Literacy (3 credits total)

ITE 115, 119

Literature Electives (3 credits):

ENG 241, 242, 243, 244, 251, 252

Social Science Electives (3 credits):

ECO 201, 202

GEO 210, 220

HIS 111, 112, 121, 122, 251, 252, 253, 254, 267, 269, 276

PLS 135, 211, 212, 241, 242

PSY 200, 215, 216, 230, 235, 236, 245, 255, 265, 270

SOC 200, 210, 215, 225, 266, 268

Personal Development (2 credits total)

All HLT and PED courses (1 credit)

RPK 170

SDV 100 (1 credit)

Quantitative Reasoning (3 credits total)

Mathematics Electives (3 credits):

MTH 154, 155, 161, 162, 261, 263, 264, 245, 262

Scientific Reasoning (8 credits total)

Science with Laboratory Electives (8 credits):

BIO 101, 102, 141, 142

CHM 101, 102, 111, 112, 241/245, 242/246

GOL 105, 106, 225

NAS 125

PHY 101, 102, 150, 201, 202, 241, 242

Approved Transfer Electives (3 credits)

Any of the courses listed (in addition to the ones below) may be used to meet an Approved Transfer Elective requirement.

ACC 211, 212

ADJ 100, 105, 107, 140, 164, 171, 172, 228, 232, 247, 275

ART 100, 121, 122, 131, 132, 153, 154, 241, 242, 243, 244, 283, 284

ASL 101, 102, 115, 125, 201, 202, 261, 262

BIO all remaining courses

BUS 100

CHM all remaining courses

CSC all remaining courses

CST 114, 126, 130, 131, 132, 136, 137, 141, 160, 229

EDU 200, 254, 280

ENG all remaining courses

Foreign Languages all 100-level courses

HIS all remaining courses

HLT 160, 206, 230

HMS 100, 121, 141

HUM all remaining courses

ITE 115, 119, 120

MTH 167, 265, 266, 267, 288

MUS 111, 112, 136, 137, 163, 164, 165, 185

PLS all remaining courses

REL all remaining courses

SOC all remaining courses

The courses listed on this page may be used to meet requirements at LFCC; however, it does not mean it will meet the same requirement at another college/university. It is recommended that you check with your transfer institution prior to selecting courses.

Approved STEM Electives

STEM Electives:

ADJ: 171, 172, 228, 236, 275, 278

AGR: 141, 142, 143

BIO: 100, 101, 102, 141, 142, 145, 150, 206, 215, 295

CHM: 101, 102, 110, 111, 112, 241/245 (lecture and lab), 242/246 (lecture and lab), 260, 261

CSC: 110, 200, 201, 202, 205, 295, 298

EGR: 126, 140, 206, 245, 246

ENV: 121, 122

GOL: 105, 106, 225

HIM: 110, 111, 112

HLT: 160, 230

ITE: 115, 119, 120

ITP: 120, 220, 270

NAS: 125

PHY: 101, 102, 150, 201, 202, 241, 242, 243

MTH: 161 and higher

Approved General Engineering Electives

Note: Electives listed do not have to be taken in the semester listed but doing so typically keeps a student's program on track. Since some electives are only offered in a specific semester keeping a program on track is important. It is also important to understand that the electives listed are the **only approved electives**. Any other courses to be used as technical electives must be approved by the program coordinator and must have sufficient justification for approval.

Mechanical Engineering Technology:

Second Year, first semester, technical electives: CHM 111, CIV 171, ELE 133, MTH 261, MTH 263

Second Year, second semester, technical electives: CIV 172, ELE 134, MTH 262

Civil Engineering Technology:

Second Year, first semester, technical electives: ARC 222, CHM 111, MTH 261, MTH 263

Second Year, second semester, technical electives: ARC 222, CHM 111, MTH 262

Computer Aided Drafting Engineering Technology:

First Year, second semester, technical electives: IND 165, IND 166, MTH 161

Second Year, first semester, technical electives: ELE 133, MTH 161, MTH 245

Industrial Electricity and Controls Engineering Technology:

Second Year, first semester, technical electives: Any course with the following prefixes AIR, ELE, IND

Second Year, second semester, technical electives: Any course with the following prefixes AIR, ELE, IND

Technical Operations Engineering Technology:

Before selecting their technical electives students should check with their employer, if they have employments related to their program, or they should work with the program coordinator to pick appropriate electives for their targeted type of employment.

Second Year, first semester, technical electives: Any course with the following prefixes ELE, MEC, CAD, ARC, AIR, CHM, PHY, GEO, MTH, BIO, IND

Second Year, second semester, technical electives: Any course with the following prefixes ELE, MEC, CAD, ARC, AIR, CHM, PHY, GEO, MTH, BIO, IND

Core Computer Competency Requirements

Overview

A minimum level of proficiency in the use of computers and various software applications is essential in today's technological world. Therefore, LFCC requires each degree-seeking student to demonstrate proficiency in using a Windows-based operating system, along with components of an integrated productivity software package, including word processing, spreadsheet, database, presentation and/or communication applications.

Requirements:

The majority of the College's associate degrees require that students complete a computer course such as ITE 115 – Intro to Computer Applications and Concepts or equivalent. In lieu of completing a basic computer proficiency course, students may demonstrate proficiency in the core computer competencies. Students who successfully demonstrate proficiency in using a Windows-based operating system along with word processing, spreadsheet, database, presentation, and communications applications may then select an appropriate elective to complete the required credit hours for their degree.

Computer Competency Testing

LFCC requires many degree-seeking students to demonstrate proficiency in computer operations and software applications. Students may take ITE 115 in computer literacy and competency. Students may demonstrate proficiency in core computer competencies by passing each of the three sections of the IC³-Internet and Computing Core Certification (Computer Competency Certification Exam). The three sections cover topics in Computing Fundamentals, Key Applications, and Living Online. Each section requires the purchase of an exam voucher. In the event of a student not passing a section, the student is allowed not more than two retakes with the purchase of additional vouchers. There is a one-day waiting period required for the initial retake and a one-day waiting period for the second retake. Student should allow approximately three hours to complete all three exams.

Individuals seeking IC³ certification are required to take and pass all three IC³ exam sections. Each section must receive a passing score to achieve the LFCC computer literacy requirement. If students don't pass the exam or if they feel that they need to improve their computer skills, they must take a computer course.

However, after passing the IC³ exam, students neither earn college credit for exam certification nor fulfill computer competency requirements at transferring universities or colleges. Students who successfully demonstrate proficiency may then select an appropriate elective to complete the required credit hours for their degree.

Classification of Programs

Programs offered by the College may be classified both by their purpose and by the degree or certificate to which they lead. College-parallel transfer programs lead to an associate of arts and sciences (AA&S) Degree or an associate of science (AS) degree, which are intended to prepare students for transfer to four-year baccalaureate programs.

Occupational-technical programs, intended to prepare students for specific occupations, lead to an associate of applied science (AAS) degree, a certificate (C) or a career studies certificate (CSC). Following completion of these programs, students may choose to enter the workforce or pursue additional education or training options.

The College reserves the right to withdraw program offerings if there is not sufficient demand or for other appropriate reasons.

The programs of study offered at LFCC are as follows:

Career Pathways

Administration of Justice, Forensic Science, & Law

- **Associate of Arts and Sciences Degrees**
 - General Studies: Administration of Justice Specialization (*transfer*)
- **Associate of Science Degree**
 - Forensic Science (*transfer*)
- **Associate of Applied Sciences Degrees**
 - Paralegal Studies
- **Certificates**
 - Administration of Justice
 - Legal Administration

Business and Professional Services

- **Associate of Arts and Sciences Degree**
 - Business Administration (*transfer*)
- **Associate of Applied Science Degrees**
 - Accounting
 - Management
- **Certificates**
 - Office Administrator
- **Career Studies Certificates**
 - Entrepreneurship
 - General Business
 - Small Business Management
 - Supervision

Computer and Information Technology

- **Associate of Science Degree**
 - Computer Science Specialization (*transfer*)
- **Associate of Applied Science Degrees**
 - Cybersecurity
 - Information Systems Technology
- **Career Studies Certificates**
 - Computer Science
 - Cyber Essentials
 - Cybersecurity
 - Database Administration Specialist
 - Information Technology Foundations
 - Networking Specialist
 - Software Development
 - Web Design and Applications Software

Education

- **Associate of Arts and Sciences Degree**
 - Education (*transfer*)
- **Associate of Applied Sciences Degree**
 - Early Childhood Development
- **Career Studies Certificate**
 - Early Childhood Development

Engineering

- **Associate of Science Degree**
 - Engineering Specialization (*transfer*)

- **Associate of Applied Science Degrees**
 - General Engineering Technology/ Mechanical Engineering Technology
 - General Engineering Technology: Civil Engineering Technology Specialization
 - General Engineering Technology: Computer-Aided Drafting Technology
- **Career Studies Certificates**
 - Drafting
 - Industrial Design

Healthcare

- **Associate of Science Degree**
 - Health Professions Specialization (*transfer*)
- **Associate of Applied Science Degrees**
 - Nursing
 - Advanced Placement Option for Licensed Nurses
 - Emergency Medical Services
 - Medical Laboratory Technology
 - Dental Hygiene (Partnership Agreement with VWCC)
 - Health Information Management
- **Certificates**
 - Paramedic
 - Practical Nursing
 - Health Science
 - Health Science: Pre-Funeral Services (Partnership Agreement with JTCC)*
 - Surgical Technology
 - Medical Administrative Assistant / Transcription / Scribe
 - Medical Billing/Coding
- **Career Studies Certificates**
 - Patient Care Technician
 - Advanced Emergency Medical Technician (AEMT)
 - Emergency Medical Services
 - Healthcare Technology Specialist
 - Phlebotomy
 - Pre-Allied Health
 - Personal Training and Group Exercise Leadership
 - Hospital Facility Coding
 - Medical Office Administration

Humanities and Art

- **Associate of Arts and Sciences Degrees**
 - Liberal Arts (*transfer*)
 - Liberal Arts: Fine Arts (*transfer*)
 - Liberal Arts: Communications (*transfer*)
- **Career Studies Certificates**
 - American Sign Language

Recreation and Wellness

- **Associate of Arts and Sciences Degree**
 - General Studies: Recreation and Outdoor Leadership (*transfer*)
- **Career Studies Certificates**
 - Personal Training and Group Exercise Leadership
 - Recreation and Outdoor Leadership
 - Nature and Outdoor Photography

Science and Agriculture

- **Associate of Science Degrees**
 - Science (*transfer*)
 - Agriculture Specialization (*transfer*)

Social Sciences and Human Behavior

- **Associate of Arts and Sciences Degrees**
 - General Studies: Human Services Specialization (*transfer*)

Trades, Advanced Manufacturing, and Industrial Maintenance

- **Associate of Applied Science Degrees**
 - General Engineering Technology: Industrial Electricity and Controls Technology Specialization
 - General Engineering Technology: Technical Operations
- **Career Studies Certificates**
 - Basic Electrical Technician
 - Electrical Control Technician – Intermediate
 - HVAC
 - Industrial Maintenance Technician – Basic

Undecided, Exploratory

- **Associate of Arts and Sciences Degree**
 - General Studies (*transfer*)
- **Certificate**
 - General Education

*Administration of
Justice,
Forensic Science
and Law*

AWARD: ASSOCIATE OF ARTS AND SCIENCES
AREA: GENERAL STUDIES
MAJOR: ADMINISTRATION OF JUSTICE SPECIALIZATION (697-01) – TRANSFER

Allows students the flexibility of moving into transfer programs in criminology, criminal justice, legal studies, sociology and other fields. Some graduates satisfy their goals by completing the two-year general academic studies.

CURRICULUM

Course No.	Title	Credit(s)
First Semester		
SDV 100	College Success Skills	1
ENG 111	College Composition I	3
MTH	Approved Math Elective ¹	3
CST	Approved Communications Elective ¹	3
ITE	Introduction to Computing	3
	Physical Education or Health	1
	Total	14
Second Semester		
ENG 112	College Composition II	3
HIS	History Elective ^{1,4}	3
	Approved Transfer Elective ¹	3
ADJ 107	Survey of Criminology	3
	Social Science Elective ⁵	3
	Total	15
Third Semester		
ENG	Literature Elective ¹	3
	Social Science Elective ¹	3
ADJ 105	The Juvenile Justice System	3
ADJ 100	Survey of Criminal Justice	3
	Science with Laboratory ^{1,3}	4
	Total	16
Fourth Semester		
	Science with Laboratory ^{1,3}	4
	Humanities Elective ¹	3
ADJ 140	Introduction to Corrections	3
	ADJ Elective ²	3
	ADJ Elective ²	3
	Total	16
	PROGRAM TOTAL	61

¹ See list of approved electives in the catalog. Students should check with the institution to which they will be transferring in order to determine the most appropriate transfer courses to take at LFCC.

² Students choose from the following electives: ADJ 164, ADJ 171, ADJ 172, ADJ 228, ADJ 232, SOC 235, PSY 215, PSY 255 or PSY 270.

³ A one-year sequence of biology, chemistry, geology or physics is recommended; however, depending on the requirements of the four-year institutions, two one-semester courses in different sciences may be substituted with advisor approval.

⁴ For students intending to take more than one history course, a sequence beginning by taking HIS 111 or HIS 121 is preferred prior to taking HIS 112 or HIS 122.

AWARD: ASSOCIATE OF SCIENCE DEGREE
MAJOR: FORENSIC SCIENCE (880-05) - TRANSFER

Designed to introduce students to the many disciplines available within the field while providing a basic foundation to pursue specific areas of interest at a four-year college or university. Upon graduation with a forensic science specialization associate degree students can obtain employment as a forensic science technician or a records officer.

CURRICULUM

Course No.	Title	Credit(s)
First Semester		
ENG 111	College Composition I	3
IT/CS	Computer Elective	3
MTH	Mathematics Elective ¹	3
SDV 100/101	College Success Skills	1
ADJ 171	Introduction to Forensic Science I	4
	Total	14
Second Semester		
ENG 112	College Composition II	3
HIS	History Elective ²	3
MTH	Mathematics Elective ¹	3
ADJ 172	Introduction to Forensic Science II	4
	Approved Forensic Elective ³	3-4
	Total	16-17
Third Semester		
ENG	Literature Elective ²	3
	Social Science Elective ⁴	3
PED/HLT	Physical Education or Health	1
	Approved Forensic Elective ³	3-4
	Science with Laboratory ⁵	4
	Total	14-15
Fourth Semester		
CST	Communication Elective ²	3
	Social Science Elective ⁴	3
	Science with Laboratory ⁵	4
	Humanities/Fine Arts Elective ²	3
	Approved STEM Elective ⁶	3-4
	Total	16-17
	PROGRAM TOTAL	60-63

¹ Student should check with the institution to which they will be transferring to determine the most appropriate math courses to take. MTH 245 (Statistics I) should be taken prior to transferring.

² See list of approved electives in the catalog.

³ It is recommended that students choose from the following forensic electives: ADJ 100, ADJ 173, ADJ 228, ADJ 236, ADJ 275, ADJ 278, PHY 201 or PHY 202.

⁴ See list of approved electives in the catalog. It is recommended that students choose from the following: SOC 200, PSY 200, PSY 230, PSY 255 or ADJ 247.

⁵ A full year sequence of BIO, CHM or PHY with lab is required.

⁶ It is recommended that students choose from the following electives: ADJ 228, ADJ 275, BIO, CHM or PHY. Students are advised to meet with an academic or faculty advisor for optimum course selection for desired major and transfer institution.

AWARD: ASSOCIATE OF APPLIED SCIENCE DEGREE
MAJOR: PARALEGAL STUDIES (260)

Designed to provide an individual with a sufficient level of knowledge, understanding and proficiency to perform the tasks in meeting client needs which can be performed by a trained, non-lawyer assistant working under the direction and supervision of a licensed attorney. The occupational objectives include employment in public and private organizations agencies as a legal assistant, paralegal or legal research assistant.

CURRICULUM

Course No.	Title	Credit(s)
First Semester		
ENG 111	College Composition I	3
SDV 100	College Success Skills	1
ITE	Information Literacy Elective	3
LGL 125	Legal Research	3
LGL 110	Introduction to Law and the Paralegal	3
LGL 215	Torts	3
	Total	16
Second Semester		
LGL 130	Law Office Administration and Management	3
LGL 230	Legal Transactions	3
LGL 126	Legal Writing	3
LGL 216	Trial Preparation and Discovery Practice	3
LGL 217	Trial Practice and the Law of Evidence	3
LGL 200	Ethics for the Legal Assistant	1
	Total	16
Third Semester		
LGL 115	Real Estate Law for the Paralegals	3
LGL 117	Family Law	3
LGL 218	Criminal Law	3
LGL 225	Estate Planning and Probate	3
MTH 154	Quantitative Reasoning	3
	Total	15
Fourth Semester		
HIS 121	United States History I	3
LGL 298	Seminar and Project	3
PHI 220	Ethics	3
LGL 235	Legal Aspects of Business Organization	3
LGL 236 or 238	Elder Law or Bankruptcy	3
	Total	15
	PROGRAM TOTAL	62

AWARD: CERTIFICATE
MAJOR: ADMINISTRATION OF JUSTICE (406)

The Administration of Justice certificate program opens multiple career paths in the criminal justice system field. The program also offers further in-service training for sworn officers or others currently working in the criminal justice system who wish to enhance their job performance or seek promotion in their current jobs. Students completing this certificate program will be better prepared to obtain entry-level employment in a variety of criminal justice jobs including policing, security, corrections, prevention and aftercare and courts.

CURRICULUM

Course No.	Title	Credit(s)
First Semester		
SDV 100	College Success Skills	1
ENG 111	College Composition I	3
	Social Science Elective ¹	3
ADJ	ADJ Elective ²	3
ADJ 107	Survey of Criminology	3
ITE	Information Literacy Elective ¹	3
	Total	16
Second Semester		
ADJ 100	Survey of Criminal Justice System	3
ADJ 105	Juvenile Justice System	3
ADJ 140	Introduction to Corrections	3
ADJ	ADJ Elective ²	3
CST 100	Principles of Public Speaking	3
	Total	15
	PROGRAM TOTAL	31

¹ Students should choose SOC 200 or PSY 200.

² Student should choose from the following electives: ADJ 162, ADJ 171, ADJ 172, ADJ 228, ADJ 232, SOC 268, PSY 215, PSY 255 or PSY 270.

AWARD: CERTIFICATE
MAJOR: LEGAL ADMINISTRATION (261)

Designed to provide an individual with a sufficient level of knowledge, understanding and proficiency to perform tasks as an assistant in a legal setting. The occupational objectives include entry-level employment in public and private organizations as a legal administrative assistant or deputy court clerk.

CURRICULUM

Course No.	Title	Credit(s)
First Semester		
ENG 111	College Composition I	3
SDV 100	College Success Skills	1
ITE	Information Literacy Elective ¹	3
LGL 125	Legal Research	3
LGL 110	Introduction to Law and the Paralegal	3
LGL	Elective	3
	Total	16
Second Semester		
LGL 126	Legal Writing	3
LGL 130	Law Office Administration and Management	3
LGL 217	Trial Practice and the Law of Evidence	3
LGL 230	Legal Transactions	3
LGL 200	Ethics for the Legal Assistant	1
LGL	Elective	3
	Total	16
	PROGRAM TOTAL	32

¹ Student may choose ITE 115 or ITE 119.

*Business
and
Professional
Services*

AWARD: ASSOCIATE OF ARTS AND SCIENCES DEGREE
MAJOR: BUSINESS ADMINISTRATION (216) – TRANSFER

Designed for students who plan to transfer to a four-year college or university to complete a baccalaureate degree in accounting, business administration, economics, finance, management or marketing.

CURRICULUM

Course No.	Title	Credit(s)
First Semester		
BUS 100	Introduction to Business	3
ENG 111	College Composition I	3
HIS	History Elective ¹	3
ITE	ITE Elective ²	3
MTH 161	Precalculus I ³ OR MTH 261 or 263	3
SDV 100	College Success Skills	1
	Total	16
Second Semester		
ENG 112	College Composition II	3
MTH 261	Applied Calculus I ³ OR MTH 262 or MTH 264	3
PED/HLT	Physical Education or Health ¹	1
CST	Communications Elective	3
	Approved Humanities Elective ¹	3
	Total	13
Third Semester		
ACC 211	Principles of Accounting I	3
ECO 201	Principles of Macroeconomics	3
BUS	Approved Business Elective ⁵	3
MTH 245	Statistics I	3
	Science with Laboratory ⁴	4
	Total	16
Fourth Semester		
ACC 212	Principles of Accounting II	3
ECO 202	Principles of Microeconomics	3
BUS	Approved Business Elective	3
ENG	Literature Elective ¹	3
	Science with Laboratory ⁴	4
	Total	16
	PROGRAM TOTAL	61

¹ Pre-Major transfer elective. Student should check with transfer institution.

² ITE 115, ITE 119 or ITE 120. Student should check with transfer institution.

³ Approved math sequences are MTH 161-261, MTH 261-262, MTH 263-264.

⁴ A one-year sequence of biology, chemistry, geology or physics is recommended. However, depending upon the requirements of the four-year institution, two one-semester courses in different sciences may be substituted with advisor approval.

⁵ BUS 241 is recommended.

AWARD: ASSOCIATE OF APPLIED SCIENCE DEGREE

MAJOR: ACCOUNTING (203)

Designed for students who seek full-time employment in the accounting field immediately upon completion of the community college curriculum. Upon completion of this certificate program occupational objectives include accounts receivable and accounts payable clerks, bank tellers and managers, industry accountant, retail business accountant, self-employed accounting and tax services or service business accountant.

CURRICULUM

Course No.	Title	Credit(s)
First Semester		
ACC 211	Principles of Accounting I	3
ECO 201	Principles of Macroeconomics	3
ENG 111	College Composition I	3
ITE 115	Introduction to Computer Applications and Concepts	3
MTH 130	Fundamentals of Reasoning	3
SDV 100	College Success Skills	1
	Total	16
Second Semester		
ACC 212	Principles of Accounting II	3
ACC 215	Computerized Accounting	3
ECO 202	Principles of Microeconomics	3
ENG 112	College Composition II	3
BUS 100	Introduction to Business	3
	Total	15
Third Semester		
ACC 221	Intermediate Accounting I	3
ACC 231	Cost Accounting	3
ACC 261	Principles of Federal Taxation I	3
BUS	Business Elective ¹	3
PED/HLT	Physical Education or Health	1
	Humanities Elective ²	3
	Total	16
Fourth Semester		
ACC 222	Intermediate Accounting II	3
ACC 262	Principles of Federal Taxation II	3
ACC 298	Seminar and Project	3
BUS	Business Elective ¹	3
CST 100	Principles of Public Speaking	3
	Total	15
	PROGRAM TOTAL	62

¹ BUS 241 or BUS 242 recommended.

² See list of approved electives in catalog.

AWARD: ASSOCIATE OF APPLIED SCIENCE DEGREE

MAJOR: MANAGEMENT (212)

Designed for students who seek full-time employment in management. Upon completion of this certificate program occupational objectives include branch manager, management trainee, manager of small business, office manager or supervisor.

Recommendation: Students pursuing a two-year degree are encouraged to apply for a relevant Career Studies Certificate. Completion of a certificate may provide opportunities for workplace advancement.

CURRICULUM

Course No.	Title	Credit(s)
First Semester		
BUS 100	Introduction to Business	3
ENG 111	College Composition I	3
ITE 115	Introduction to Computer Applications and Concepts ¹	3
MKT 100	Principles of Marketing	3
MTH 130	Fundamentals of Reasoning	3
SDV 100	College Success Skills	1
	Total	16
Second Semester		
ACC 211	Principles of Accounting I	3
ENG 112	College Composition II	3
	Humanities Elective ²	3
BUS 205	Human Resource Management	3
FIN 107	Personal Finance	3
PED/HLT	Physical Education or Health	1
	Total	16
Third Semester		
ACC 212	Principles of Accounting II	3
BUS 236	Communication in Management	3
BUS 111	Principles of Supervision	3
ECO 201	Principles of Macroeconomics	3
MKT 282	Principles of e-Commerce	3
BUS 241	Business Law I	3
	Total	18
Fourth Semester		
BUS 285	Current Issues in Management	3
BUS 200	Principles of Management	3
FIN 215	Financial Management	3
ECO 202	Principles of Microeconomics	3
BUS 242	Business Law II	3
	Total	15
	PROGRAM TOTAL	65

¹ ITE 119 or ITE 120 are options.

² PHI 220 (Ethics) is recommended.

AWARD: CERTIFICATE
AREA: OFFICE ADMINISTRATOR (TBD)

Designed to prepare graduates for full-time employment in a variety of office positions. Upon completion of this certificate occupational objectives include: front desk coordinator, information processing specialist, office assistant, office support technician, proofreader/editor, receptionist of records clerk.

CURRICULUM

Course No.	Title	Credit(s)
First Semester		
ACC 211	Principles of Accounting I	3
AST 102	Keyboarding II	3
BUS 111	Principles of Supervision	3
BUS 236	Communication in Management	3
ENG 111	College Composition I	3
SDV 100	College Success Skills	1
	Total	16
Second Semester		
ACC 215	Computerized Accounting	3
AST 142	Word Processing II	3
BUS 226	Computer Business Applications	3
BUS 205	Human Resources Management	3
BUS 215	Purchasing and Materials Management	3
MTH 154	Quantitative Reasoning	3
	Total	18
	PROGRAM TOTAL	34

AWARD: CAREER STUDIES CERTIFICATE
AREA: ENTREPRENEURSHIP (221-212-10)

The purpose of this career studies certificate is to provide students with foundation skills in finance, accounting, marketing, business law and human resources required to develop and open a business.

ENTREPRENEURSHIP

Course No.	Title	Credit(s)
First Semester		
BUS 116	Entrepreneurship	3
BUS 241	Business Law	3
MKT 100	Principles of Marketing	3
ITE 115	Introduction to Computer Applications and Concepts	3
	Total	12
Second Semester		
ACC 262	Federal Taxation II	3
BUS 205	Human Resources	3
FIN 215	Financial Management	3
	Total	9
	PROGRAM TOTAL	21

Students who register for the Entrepreneurship Career Studies Certificate are also encouraged to take ACC 211 in addition to ACC 262, although it is not a requirement.

AWARD: CAREER STUDIES CERTIFICATE
AREA: GENERAL BUSINESS (221-208-14)

The purpose of this career studies certificate is to introduce students to the essential dimensions of business operations and related concepts.

GENERAL BUSINESS

Course No.	Title	Credit(s)
First Semester		
BUS 100	Introduction to Business	3
BUS 241	Business Law I	3
MTH 130	Fundamentals of Reasoning	3
Second Semester		
ACC 211	Principles of Accounting I	3
BUS 205	Human Resource Management	3
ITE 115	Introduction to Computer Applications and Concepts	3
	PROGRAM TOTAL	18

Students who register for the General Business Career Studies Certificate are encouraged to explore continued educational pathways into a two-year degree program. Completion of a degree may provide opportunities for workplace advancement.

AWARD: CAREER STUDIES CERTIFICATE
AREA: SMALL BUSINESS MANAGEMENT (221-212-24)

The purpose of this career studies certificate is to introduce students to small business management principles and techniques.

SMALL BUSINESS MANAGEMENT

Course No.	Title	Credit(s)
First Semester		
ACC 211	Principles of Accounting I	3
ITE 115	Introduction to Computer Applications and Concepts	3
BUS 236	Communications in Management	3
BUS 241	Business Law I	3
Second Semester		
ACC 262	Principles of Federal Taxation II	3
BUS 165	Small Business Management	3
MKT 100	Principles of Marketing	3
PROGRAM TOTAL		21

Students who register for the Small Business Management Career Studies Certificate are encouraged to explore continued educational pathways into a two-year degree program. Completion of a degree may provide opportunities for workplace advancement.

AWARD: CAREER STUDIES CERTIFICATE
AREA: SUPERVISION (221-212-25)

The purpose of this career studies certificate is to introduce students to small business management principles and techniques.

SUPERVISION

Course No.	Title	Credit(s)
First Semester		
BUS 111	Principles of Supervision I	3
BUS 236	Communication in Management	3
BUS 241	Business Law I	3
Second Semester		
BUS 100	Introduction to Business	3
BUS 200	Principles of Management	3
BUS 205	Human Resource Management	3
PROGRAM TOTAL		18

Students who register for the Supervision Career Studies Certificate are encouraged to explore continued educational pathways into a two-year degree program. Completion of a degree may provide opportunities for workplace advancement.

Computer and Information Technology

AWARD: ASSOCIATE OF SCIENCE DEGREE
MAJOR: SCIENCE
SPECIALIZATION: COMPUTER SCIENCE (880-04) – TRANSFER

Possible occupations for graduates include software development, network analysis, software security, and database design.

The associate of science degree program with a major in Science and a Computer Science specialization is designed for students who wish to pursue a four-year degree in Computer Science and a career in a field such as one of those listed above. The curriculum is mapped to Association for Computing Machinery (ACM), CSTransfer curriculum, which has Cybersecurity infusion.

The specialization in Computer Science prepares students with core knowledge and skills needed for entry into baccalaureate schools of education programs in computer science. Students should be knowledgeable about the specific requirements of the four-year school to which they wish to transfer so that they make appropriate course choices.

CURRICULUM

Course No.	Title	Credit(s)
First Semester		
ENG 111	College Composition I	3
MTH 263	Calculus I	4
CSC 200	Introduction to Computer Science	3
SDV 100	College Success Skills ¹	1
	Science with Laboratory Elective ²	4
	Total	15
Second Semester		
ENG 112	College Composition II	3
MTH 264	Calculus II	4
CSC 205	Computer Organization	3
	Science with Laboratory Elective ²	4
PED/HLT	Physical Education <u>OR</u> Health ²	1
	Total	15
Third Semester		
HIS	History Elective ²	3
	Social Science Elective ²	3
CSC 201	Computer Science I	4
CST	Communication Elective ²	3
ENG	Literature Elective ²	3
	Total	16
Fourth Semester		
CSC 202	Computer Science II	4
	Humanities/Fine Arts Elective ²	3
	Social Science Elective ³	3
	Approved Elective ³	3-4
	Approved Elective ³	3-4
	Total	16-18
	PROGRAM TOTAL	62-64

¹ SDV 101-Orientation to the IT Professions may be substituted.

² See list of approved electives in catalog.

³ Any CSC Elective, ECO 202, ITN 100, ITP 220, MTH 161 or higher. Other STEM electives may be approved by CS faculty., based on transfer institution request.

NOTE: Program designed with a starting point of Readiness for ENG 111 and MTH 263.

AWARD: CAREER STUDIES CERTIFICATE
AREA: COMPUTER SCIENCE (221-246-01)

COMPUTER SCIENCE

Course No.	Title	Credit(s)
First Semester		
CSC200	Introduction to Computer Science	3
CSC 205	Computer Organization	3
	Total	6
Second Semester		
CSC 201	Computer Science I	4
	Total	4
Third Semester		
CSC 202	Computer Science II	4
ITP 220/CSC 298	Java Programming II <u>OR</u> Seminar & Project	4
	Total	8
	PROGRAM TOTAL	18

AWARD: ASSOCIATE OF APPLIED SCIENCE DEGREE
MAJOR: CYBERSECURITY (345)

The associate of applied science degree in Cybersecurity focuses on confidentiality, integrity, and availability of data. Graduates from this specialization can expect to find entry level jobs in computer security related fields.

CURRICULUM

Course No.	Title	Credit(s)
First Semester		
ENG 111	College Composition I	3
CST 110	Introduction to Speech Communication	3
ITN 100	Introduction to Telecommunications	3
ITP 100	Software Design	3
MTH	Approved Math Elective ¹	3
SDV 101	Orientation to the IT Professions	1
	Total	16
Second Semester		
ENG 112	College Composition II	3
ITE 221	PC Hardware and Operating Systems Architectures	3
ITP	Programming Elective (ITP 120, 220 or 270)	4
ITN 170	Linux Administration	3
ITN 260	Network Security Basics	3
PED/HLT	Physical Education or Health	1
	Total	17
Third Semester		
	Approved Humanities/Fine Arts Elective ²	3
	Approved Social Science Elective ³	3
ITN 200	Administration of Network Resources	3
ITN 261	Network Attacks, Computer Crime and Hacking	3
ITN 262	Network Communications, Security and Authentication	3
ITN 266	Network Security Layers	3
	Total	18
Fourth Semester		
ITN 263	Firewalls, VPNs and E-Com Security	3
ITN 267	Legal Issues in Network Security	3
ITN 276	Computer Forensics I	3
	Natural Science with Laboratory ⁴	4
ITN 298	Seminar and Project ⁵	3
	Total	17
	PROGRAM TOTAL	67

¹ Students planning to transfer to a four-year college are encouraged to contact an advisor prior to math selection to ensure proper math required for the student's transfer institution. GWU requires math courses with a final grade of "C" or better.

² Students may select humanities elective from list of approved electives. Students pursuing the Bachelor of Professional Studies in Cybersecurity at GWU are encouraged to take PHI, REL, ENG 200-level literature courses and foreign language 200-level courses. Students pursuing the Bachelor of Applied Science (BAS) at GMU are encouraged to take ART 100, ART 101, ART 102 (Fine Arts).

³ Students may select social science elective from the approved electives list. Students pursuing the BAS degree at GMU are encouraged to take HIS 101, HIS 102 or HIS 112 as their LFCC Social Science elective. However, HIS 111 is transferable as Global Understanding at GMU. Students pursuing the Bachelor of Professional Studies in Cybersecurity at GWU are encouraged to take HIS 101, HIS 102, HIS 111 or HIS 112 as their LFCC social science elective. For this requirement, it is best for the student to discuss this with an LFCC advisor to ensure proper sequencing.

⁴ If transferring to GMU/GWU, students may select Science with Laboratory (4-credit elective) from the approved electives list, except BIO 141/142 (Human Anatomy and Physiology).

⁵ Must be taken near program completion. Permission of CAE Program Lead required.

SPECIAL NOTES:

- Students planning on transferring to GMU's BAS in Cybersecurity must have completed the AAS in Cybersecurity degree with a minimum 2.0 GPA. GMU has waived the age requirements for the BAS in Cybersecurity degree. Students should meet with a GMU academic advisor to sign the BAS Age Waiver Form.
- GWU requires that all transfer credits have a "C" or better and a GPA of at least 2.7.
- Earning the CAECD-2Y designation on a student's transcript requires a 3.5 GPA in the core Cybersecurity courses (ITE 221, ITN 100, ITN 260, ITN 261, ITN 262, ITN 263, ITN 266, and ITN 267)
- This does not constitute a guarantee of admission or transferability, as this is a guideline based on the most recent information provided to us by our senior institution partners. Students should check with advisors at the senior institution into which they intend to transfer prior to applying for admission.

AWARD: CAREER STUDIES CERTIFICATE
 AREA: CYBERSECURITY (221-732-09)

CYBERSECURITY

Course No.	Title	Credit(s)
First Semester		
ITN 100	Introduction to Telecommunications	3
Second Semester		
ITN 260	Network Security Basics	3
Third Semester		
ITN 261	Network Attacks, Computer Crime, and Hacking	3
ITN 262	Security Communication, Security and Authentication	3
ITN 266	Network Security Layers	3
Fourth Semester		
ITN 263	Internet/Intranet Firewalls and E-Commerce Security	3
ITN 267	Legal Topics in Network Security	3
	PROGRAM TOTAL	21

AWARD: ASSOCIATE OF APPLIED SCIENCE DEGREE
MAJOR: INFORMATION SYSTEMS TECHNOLOGY (299)

Possible occupations for graduates include computer operator, help desk support, computer programmer, programmer analyst, PC support technician, and network support technician.

The AAS degree program with a major in Information Systems Technology is designed for people who wish to be an Information Systems generalist with knowledge in various areas, such as microcomputer applications, programming, and networking support.

The Information Systems Technology program provides students with knowledge and skills needed to prepare for the Microsoft Office Specialist (MOS) Certification, CompTIA A+ Certification, CompTIA Network+ Certification, and CIW Foundations.

PROGRAM REQUIREMENTS: A student who studies topics in IT must possess general knowledge in systems analysis and design, software design and development, Web markup languages, Internet and network foundations and database fundamentals. Additionally, students must possess sound analytical and problem-solving skills, strong written and verbal communications skills and must have good interpersonal skills. These skills are an integral part of the information system technology (IST) curriculum. The curriculum includes technical courses in information technology, business-related areas, general education and electives. Instruction is centered on theoretical concepts and practical, hands-on applications key to success in the information technology field. Students are strongly encouraged to consult with their advisor in planning their programs and selecting electives. Upon satisfactory completion of the program the graduate will be awarded the associate of applied science degree with a major in information system technology.

SPECIAL NOTE (BRIDGE COURSES): This program is designed for those students who have completed a variety of keyboarding and introductory computer applications courses at the high school level. A student who has not completed the recommended high school courses may enroll in the IST program by taking courses designed to bridge the gap. These courses are to be selected by consulting with an IST advisor and may include ITE 115 – Introduction to Computer Applications Concepts (3 Cr.). AST 80 and/or AST 81 may be required to meet 30wpm minimum.

CURRICULUM

Course No.	Title	Credit(s)
First Semester		
ENG 111	College Composition I	3
ITD 110	Web Page Design I	3
ITD 130	Database Fundamentals	3
ITN 100	Introduction to Telecommunications	3
MTH 154	Quantitative Reasoning	3
SDV 101/100	Orientation to the IT Professions	1
	Total	16
Second Semester		
ENG 112	College Composition II	3
ITE 120	Principles of Information Systems	3
ITN 107	Personal Computer Hardware and Troubleshooting	3
ITP 100	Software Design	3
MTH 155	Statistical Reasoning	3
PED/HLT	Physical Education or Health	1
	Total	16
Third Semester		
ECO 201/202	Principles of Macro <u>OR</u> Principles of Microeconomics	3
ENG 115	Technical Writing ¹	3
	Approved IT Elective ²	3
	Approved IT Elective ²	3
	Approved IT Elective ²	3
	Approved Social Science Elective ³	3
	Total	18

Fourth Semester

ITP 251	Approved IT Elective ²	3
	Approved IT Elective ²	3
	Approved IT Elective ²	3
	Systems Analysis and Design	4
	Approved Humanities Elective ³	3
	Total	16
	PROGRAM TOTAL	66

¹ "Or CST 110" (applies to Cybersecurity and Computer Science degrees).

² Students are encouraged to satisfy the Approved IT Electives by completing one or more Career Studies Certificates (CSC). The following Career Studies Certificates are available: Cyber Security, Database Administration Specialist, Networking Specialist, Software Development, Information Technology Foundations and Web Design and Applications Development. See the list for specific courses within the CSCs in consultation with your advisor. Students must also formally complete an "Application for Graduation" for both the degree and applicable Career Studies Certificates upon graduation. Students pursuing the Bachelor of Applied Science degree at George Mason University are encouraged to take ITN 260 and ITN 266 to satisfy GMU's IT 223 requirement.

³ Students may select from approved list of electives in catalog. Students pursuing the Bachelor of Applied Science degree at George Mason University are encouraged to take an approved HIS LFCC social science elective.

AWARD: CAREER STUDIES CERTIFICATE
AREA: CYBER ESSENTIALS (221-732-00)

This Career Studies Certificate program will offer students the opportunity to explore technology topics within the fields of Compute Science, Cybersecurity and Information Systems Technology.

CYBER ESSENTIALS

Course No.	Title	Credit(s)
First Semester		
CSC 110	Introduction to Computing	3
ENG 111	English Composition I	3
ITN 100	Introduction to Telecommunications	3
SDV 101	Orientation to the IT Professions	1
	Total	10
Second Semester		
ITE 120	Principles of Information Systems	3
ITN 260	Network Security Basics	3
ITP 100	Software Design	3
	Total	9
	PROGRAM TOTAL	19

AWARD: CAREER STUDIES CERTIFICATE
AREA: DATABASE ADMINISTRATION SPECIALIST (221-299-11)

DATABASE ADMINISTRATION SPECIALIST

Course No.	Title	Credit(s)
First Semester		
ITD 130	Database Fundamentals ¹	3
ITD 132	Structured Query Language ¹	3
ITP 100	Software Design	3
SDV 101	Orientation to IT Professions	1
	Total	10
Second Semester		
ITD 134	PL/SQL Programming ²	3
ITD 250	Database Architecture and Administration ²	3
	Total	6
	PROGRAM TOTAL	16

¹ ITD 130 and ITD 132 may be taken concurrently.

² ITD 134 and ITD 250 may be taken concurrently. ITD 130 and ITD 132 are to be completed prior to taking ITD 134/250 concurrently. Additionally, ITP 100 is a pre-requisite for ITD 134.

AWARD: CAREER STUDIES CERTIFICATE
 AREA: INFORMATION TECHNOLOGY FOUNDATIONS (221-299-08)

INFORMATION TECHNOLOGY FOUNDATIONS

Course No.	Title	Credit(s)
First Semester		
ITD 130	Database Fundamentals	3
ITD 110	Web Page Design I	3
ITN 100	Introduction to Telecommunications	3
SDV 101	Orientation to the IT Professions	1
	Total	10
Second Semester		
ITE 120	Principles of Information Systems	3
ITN 107	Personal Computer Hardware and Troubleshooting	3
ITP 100	Software Design	3
	Total	9
	PROGRAM TOTAL	19

AWARD: CAREER STUDIES CERTIFICATE
 AREA: NETWORKING SPECIALIST (221-732-04)

NETWORKING SPECIALIST

Course No.	Title	Credit(s)
First Semester		
ITN 100	Introduction to Telecommunications	3
Second Semester		
ITN 200	Administration of Network Resources	3
Third Semester		
ITN 107	Personal Computer Hardware and Troubleshooting	3
ITN 124/208	Wireless Administration <u>OR</u> Protocols and Communications TCP/IP	3
ITN 170	Linux Operating System	3
ITN 260	Network Security Basics	3
	PROGRAM TOTAL	18

AWARD: CAREER STUDIES CERTIFICATE
 AREA: SOFTWARE DEVELOPMENT (221-299-01)

SOFTWARE DEVELOPMENT

Course No.	Title	Credit(s)
First Semester		
ITP 100	Software Design	3
SDV 101	Orientation to the IT Professions	1
Second Semester		
ITP 112	Visual Basic.NET I	4
ITP 120	Java Programming I	4
	Programming Elective (Choose from ITD 134, ITP 160 or ITP 225)	3
Third Semester		
	Advanced Programming Elective (Choose from ITP 212 or ITP 220)	4
	PROGRAM TOTAL	19

AWARD: CAREER STUDIES CERTIFICATE
AREA: WEB DESIGN & APPLICATION DEVELOPMENT (221-352-02)

WEB DESIGN & APPLICATION DEVELOPMENT

Course No.	Title	Credit(s)
First Semester		
ITD 110	Web Page Design I	3
ITD 130	Database Fundamentals	3
ITP 100	Software Design	3
ITD 132	Structured Query Language	3
	Total	12
Second Semester		
ITD 112	Designing Web Page Graphics	3
ITD 210	Web Page Design II ¹	3
ITP 225	Web Scripting Languages ²	3
	Total	9
	PROGRAM TOTAL	21

¹ Prerequisite ITD 110

² Prerequisite ITD 110 and ITP 100

Education

AWARD: ASSOCIATE OF ARTS AND SCIENCES DEGREE
MAJOR: EDUCATION (624) – TRANSFER

Designed for students to transfer to a four-year college or university to complete their education in preparation for teacher licensure and employment as a teacher in a public or private school setting.

CURRICULUM

Course No.	Title	Credit(s)
First Semester		
ENG 111	College Composition I	3
HIS	Approved History Elective ¹	3
MTH	Approved Math Elective ¹	3
BIO 101	General Biology I	4
ITE	Information Literacy Elective ¹	3
SDV 101/100	Orientation to the Education Professions <u>OR</u> College Success Skills	1
	Total	17
Second Semester		
ENG 112	College Composition II	3
MTH 155	Statistical Reasoning	3
HIS	Approved History Elective ¹	3
GEO 210	Cultural Geography	3
GOL	Approved GOL Elective ¹	4
	Total	16
Third Semester		
ENG	Literature Elective ¹	3
EDU 200	Introduction to Teaching as a Profession ³	3
	Approved Social Science Elective ^{1,2}	3
PED/HLT	Physical Education <u>OR</u> Health Elective	1
	Pre-Major Transfer Elective ^{1,2}	3-4
	Total	13-14
Fourth Semester		
CST	Communications Elective ¹	3
PSY 230	Developmental Psychology	3
ECO 201	Principles of Macroeconomics	3
	Humanities Elective ¹	3
	Pre-Major Transfer Elective ^{1,2}	3-4
	Total	15-16
	PROGRAM TOTAL	61-63

¹ See list of approved electives in catalog.

² Recommend PLS 135 or PLS 211. Students should check with the institution to which they are transferring in order to determine the most appropriate course to take at LFCC.

³ This course requires a 40-hour practicum experience in a local public school. A background check, TB screening, fingerprinting and/or drug screening may be required at the expense of the student.

AWARD: ASSOCIATE OF APPLIED SCIENCE DEGREE
MAJOR: EARLY CHILDHOOD DEVELOPMENT (636)

Designed to provide professional development for people entering or presently employed in child care charged with the care, development and education of young children. This program also provides the foundation for transfer into a Bachelor's degree program for child care professionals and potential Pre-Kindergarten through Grade 3 teachers. Possible occupations for graduates include program teachers and teaching assistants, leaders, supervisors or directors in child development programs.

CURRICULUM

Course No.	Title	Credit(s)
First Semester		
SDV 100/101	College Success Skills OR Orientation to Education Professions	1
CHD 120	Introduction to Early Childhood Education	3
CHD 145	Teaching Art, Music and Movement to Children	3
CHD 165	Observation and Participation in Early Childhood/Primary Settings ¹	3
CHD 205	Guiding the Behavior of Children	3
EDU 235	Health, Safety & Nutrition Education	3
	Total	16
Second Semester		
CHD 118	Language Arts for Young Children	3
CHD 146	Math, Science and Social Studies for Children	3
CHD 210	Introduction to Exceptional Children	3
ENG 111	College Composition I	3
PSY 230	Developmental Psychology	3
	Total	15
Third Semester		
CHD 166	Infant and Toddler Programs	3
CHD 216	Early Childhood Programs, School and Social Change	3
EDU 200	Introduction to Teaching as a Profession ²	3
ENG 112	College Composition II	3
MTH 154	Quantitative Reasoning	3
	Total	15
Fourth Semester		
CHD 265	Advanced Observation and Participation in Early Childhood Settings ³	3
CHD 270	Administration of Early Childhood Educational Programs	3
BIO 101	General Biology with laboratory	4
ENG 250	Children's Literature	3
HIS 121	United States History I	3
	Total	16
	PROGRAM TOTAL	62

¹ CHD 165 is a prerequisite for CHD 265. This is a practicum course, 60 hours of observation & participation in a childcare center is required. Students may need a background check, fingerprinting and/or TB Screening at the students' expense.

² EDU 200 is a practicum course, 40 hours of observation and participation in a field setting.

³ CHD 265 is a practicum course, 40 hours of observation and participation in a field setting. Must be eligible to work with young children according to Department of Social Services requirements.

AWARD: CAREER STUDIES CERTIFICATE
MAJOR: EARLY CHILDHOOD DEVELOPMENT (221-636-06)

Designed to prepare students for working in an early childhood development setting. Possible occupations for graduates include instructional assistants or preschool and childcare workers.

EARLY CHILDHOOD DEVELOPMENT

Course No.	Title	Credit(s)
First Semester		
SDV 100/101	College Success Skills OR Orientation to Education Professions	1
CHD 120	Introduction to Early Childhood Education	3
CHD 145	Teaching Art, Music and Movement to Children	3
CHD 205	Guiding the Behavior of Children	3
	Total	10
Second Semester		
CHD 165	Observation and Participation in Early Childhood/Primary Settings ¹	3
EDU 235	Health, Safety & Nutrition Education	3
	Total	6
	PROGRAM TOTAL	16

¹ This is a practicum course, 60 hours of observation & participation in a childcare center is required. Students may need a background check, fingerprinting and/or TB Screening at the students' expense.

Engineering

AWARD: ASSOCIATE OF SCIENCE DEGREE
MAJOR: ENGINEERING (880-02) – TRANSFER

Designed for persons who plan to transfer to a four-year college or university to complete a baccalaureate or higher degree program in an engineering discipline such as mechanical, civil, construction, ocean and mining, and materials engineering.

CURRICULUM

Course No.	Title	Credit(s)
First Semester		
ENG 111	College Composition I	3
IT/CS	Computer Elective ¹	3
MTH 263	Calculus I	4
SDV 100	College Success Skills	1
	Science with Laboratory ²	4
EGR 120	Introduction to Engineering	2
	Total	17
Second Semester		
ENG 112	College Composition II	3
MTH 264	Calculus II	4
MTH 266	Linear Algebra	3
EGR 123	Introduction to Engineering Design	2
CST	Communications Elective ¹	3
	Total	15
Third Semester		
	Social Science Elective ³	3
	Approved STEM Elective ^{1,4}	3-4
PED/HLT	Physical Education OR Health ³	1
EGR	Engineering Elective ¹	3
EGR	Engineering Elective ¹	3
	Science with Laboratory ²	4
	Total	17-18
Fourth Semester		
	Social Science Elective ³	3
	Humanities/Fine Arts Elective ¹	3
	Science with Laboratory ²	4
ENG	Literature Elective ³	3
	Engineering OR Math Elective ¹	3
	Approved STEM Elective ^{1,4}	3
	Total	19
	PROGRAM TOTAL	68-69

¹ Students are advised to meet with an academic or faculty advisor for optimum course selection for desired major and transfer institution.

² In the first semester, students should take CHM 111 (College Chemistry). In the third semester, students should take PHY 241 (University Physics I). In the fourth semester, students should take PHY 242 (University Physics II).

³ See list of approved electives.

⁴ Recommend MTH 265 and MTH 267.

AWARD: ASSOCIATE OF APPLIED SCIENCE DEGREE

MAJOR: GENERAL ENGINEERING TECHNOLOGY/MECHANICAL ENGINEERING TECHNOLOGY (968)

Provides educational opportunities for those who seek employment in industry, for those who desire to upgrade their knowledge or acquire practical skills in the field, and for those who wish to transfer and complete a bachelor of science degree in mechanical engineering technology. Upon completion of this program occupational objectives include draftsman/designer, engineer's aide, engineering technician, industrial test technician or other related positions.

CURRICULUM

Course No.	Title	Credit(s)
First Semester		
EGR 110	Engineering Graphics	3
ENG 111	College Composition I	3
MEC 111	Materials for Industry	3
MTH	Approved Math Elective ¹	3
SDV 100	College Success Skills	1
	Social Science Elective ²	3
	Total	16
Second Semester		
CAD 241	Parametric Solid Modeling I	3
EGR 216	Computer Methods in Engineering and Technology	3
ENG 112/115	College Composition II OR Technical Writing	3
MEC 112	Processes of Industry	3
MTH	Approved Math Elective ¹	3
	Social Science Elective ²	3
	Total	18
Third Semester		
CAD 242	Parametric Solid Modeling II	3
EGR 135	Statics for Engineering Technology	3
EGR 206	Engineering Economics	3
PED/HLT	Physical Education OR Health	1
PHY 201	General College Physics I	4
	Technical Elective ³	3
	Total	17
Fourth Semester		
EGR 136	Strength of Materials	3
IND 145	Introduction to Metrology	3
PHY 202	General College Physics II	4
	Technical Elective ³	3
	Humanities Elective ²	3
	Total	16
	PROGRAM TOTAL	67

¹ Approved math electives include MTH 130/131, MTH 161/162, MTH 161/261, MTH 261/262 and MTH 263/264. Students intending to transfer to Old Dominion University should meet with program faculty about the proper selection of math courses.

² See list of approved electives in catalog.

³ Student may select technical electives from approved general engineering technology/technical electives by specialization list.

AWARD: ASSOCIATE OF APPLIED SCIENCE DEGREE
MAJOR: GENERAL ENGINEERING TECHNOLOGY
SPECIALIZATION: CIVIL ENGINEERING TECHNOLOGY (968-01)

Provides educational opportunities for those who seek employment in the construction industry, for those who desire to upgrade their knowledge or acquire practical skills in the field, and for those who wish to transfer and complete a bachelor of science degree in civil engineering technology. Upon completion of this program occupational objectives include construction/building inspector, construction estimator, draftsman/designer, engineer's aide, engineering technician or other related positions.

CURRICULUM

Course No.	Title	Credit(s)
First Semester		
ARC 130	Materials and Methods of Construction	3
EGR 110	Engineering Graphics	3
ENG 111	College Composition I	3
MTH	Approved Math Elective ¹	3
SDV 100	College Success Skills	1
	Social Science Elective ²	3
	Total	16
Second Semester		
ARC 221	Architectural CAD Application Software I	3
EGR 216	Computer Methods in Engineering and Technology	3
ENG 112/115	College Composition II <u>OR</u> Technical Writing	3
MTH	Approved Math Elective ¹	3
	Social Science Elective ²	3
	Humanities Elective ²	3
	Total	18
Third Semester		
CIV 171	Surveying I	3
EGR 135	Statics for Engineering Technology	3
EGR 206	Engineering Economics	3
PED/HLT	Physical Education <u>OR</u> Health	1
PHY 201	General College Physics I	4
	Technical Elective ³	3
	Total	17
Fourth Semester		
CIV 172	Surveying II	3
EGR 136	Strength of Materials	3
PHY 202	General College Physics II	4
IND 145	Intro to Metrology	3
	Technical Elective ³	3
	Total	16
	PROGRAM TOTAL	67

¹ Approved math courses include MTH 130/131, MTH 161/162, MTH 161/261, MTH 261/262 and MTH 263/264. Students intending to transfer to Old Dominion University should meet with program faculty about the proper selection of math courses.

² See list of approved electives.

³ Student may select technical electives from approved general engineering technology/technical electives by specialization list.

AWARD: ASSOCIATE OF APPLIED SCIENCE DEGREE
MAJOR: GENERAL ENGINEERING TECHNOLOGY
SPECIALIZATION: COMPUTER-AIDED DRAFTING TECHNOLOGY (968-04)

Provides a thorough preparation in drafting, emphasizing the use of computers and, in particular, computer-aided design and drafting. Upon completion of this program occupational objectives include CAD operator, CAD technician, drafting technician, engineer's aid or other related positions.

CURRICULUM

Course No.	Title	Credit(s)
First Semester		
ARC 130	Materials and Methods of Construction	3
EGR 110	Engineering Graphics	3
ENG 111	College Composition I	3
MEC 111	Materials for Industry	3
MTH	Approved Math Elective ¹	3
SDV 100	College Success Skills	1
	Total	16
Second Semester		
ARC 221	Architectural CAD Application Software I	3
CAD 241	Parametric Solid Modeling I	3
EGR 216	Computer Methods in Engineering and Technology	3
MEC 112	Processes of Industry	3
MTH	Approved Math Elective ¹	3
	Technical Elective ³	3
	Total	18
Third Semester		
ARC 222	Architectural CAD Application Software II	3
CAD 242	Parametric Solid Modeling II	3
CIV 171	Surveying I	3
EGR 206	Engineering Economics	3
PED/HLT	Physical Education <u>OR</u> Health	1
	Technical Elective ³	3
	Total	16
Fourth Semester		
CIV 172	Surveying II	3
ENG 112/115	College Composition II <u>OR</u> Technical Writing	3
IND 145	Introduction to Metrology	3
	Social Science Elective ²	3
	Humanities Elective ²	3
	Total	15
	PROGRAM TOTAL	65

¹ Approved higher level math courses include MTH 130/131, MTH 161/162, MTH 161/261, MTH 261/262 and MTH 263/264.

² See list of approved electives in catalog.

³ Student may select technical electives from approved general engineering technology/technical electives by specialization list.

AWARD: CAREER STUDIES CERTIFICATE

AREA: DRAFTING (221-729-09)

Enables students to develop drafting graphics skills related to architecture, machine design and using specialized computer software in the drafting field. Occupational objectives upon completion of this certificate include architectural/civil drafter, engineering technician, surveying and mapping technician, draft technician or other related positions.

DRAFTING

Course No.	Title	Credit(s)
First Semester		
ARC 130	Introduction to Materials and Methods of Construction	3
EGR 110	Engineering Graphics	3
MEC 111	Materials for Industry	3
	Total	9
Second Semester		
ARC 221	Architectural CAD Applications Software I ¹	3
CAD 241	Parametric Solid Modeling I	3
	Total	6
Third Semester		
ARC 222	Architectural CAD Applications Software II ²	3
CAD 242	Parametric Solid Modeling II	3
	Total	6
	PROGRAM TOTAL	21

1 Prerequisite for ARC 222 is ARC 221

2 Prerequisite for CAD 242 is CAD 241

AWARD: CAREER STUDIES CERTIFICATE

AREA: INDUSTRIAL DESIGN (221-883-19)

Introduces students to the principles of sound industrial design including related mathematics and concepts. Occupational objectives upon completion of this certificate include equipment designer, product development, engineering technician, product engineer, assembler and other related positions.

INDUSTRIAL DESIGN

Course No.	Title	Credit(s)
Prior to First Semester		
MTH 131	Technical Mathematics	3
First Semester		
EGR 135	Statics for Engineering Technology ¹	3
MEC 111	Materials for Industry	3
MTH 130	Fundamentals of Reasoning	3
Second Semester		
EGR 136	Strength of Materials for Engineering Technology ²	3
ARC 130	Materials and Methods of Construction	3
	PROGRAM TOTAL	18

¹ Prerequisite for EGR 135 is MTH 131.

² Prerequisite for EGR 136 is EGR 135.

Healthcare

AWARD: ASSOCIATE OF APPLIED SCIENCES DEGREE
MAJOR: DENTAL HYGIENE – PARTNERSHIP AGREEMENT WITH VWCC

This program is offered at Lord Fairfax Community College as a satellite site for Virginia Western Community College. The students are required to come to the Middletown Campus for the dental hygiene courses and the lecture courses are distanced to LFCC. The clinical rotations are housed on the Middletown campus of LFCC. Virginia Western Community College is the college that awards the degree.

The associate of applied sciences degree program with a major in Dental Hygiene is designed to prepare students as primary preventive oral health professionals licensed to practice dental hygiene. Upon successful completion of the program, graduates will be eligible to take national, regional, and state board examinations leading to licensure as a registered dental hygienist (RDH). *NOTE: Individuals who have a felony or misdemeanor conviction may not be allowed to take the licensing exam. This decision is made by the Virginia Board of Dentistry. For questions regarding this issue, call Virginia Board of Dentistry (804) 367-4538.*

ACCREDITATION STATUS: The program has been accredited by the Commission on Dental Accreditation of the American Dental Association, a specialized accrediting body recognized by the United States Department of Education.

ADMISSION REQUIREMENTS: Applicants must meet the general admission requirements for admission to both VWCC and LFCC. For application materials and additional program information, please see the Health Technology website at <http://www.virginiawestern.edu/academics/health/dental/>.

When enrollments must be limited for any curriculum (because the number of applicants exceeds the available space), priority will be given to qualified applicants who are residents of the LFCC service region as designated by the Virginia Community College System. This includes Clarke, Fauquier, Frederick, Page, Rappahannock, Shenandoah, and Warren counties and the city of Winchester.

STUDENT RESPONSIBILITIES AFTER ACCEPTANCE INTO THE PROGRAM:

1. Admission is contingent upon a satisfactory medical examination indicating good general health. The medical examination must include evidence of a PPD skin test (or chest x-ray and serology for the Hepatitis B surface antigen and antibody). The Heptavax vaccine is required. All documentation must be submitted to the head of the Dental Hygiene Program no later than August 1 in order for the student to continue in the program.
2. Current certification in health care provider cardiopulmonary resuscitation (CPR) is required for both years of the program. No substitutions are accepted. Students are responsible for providing their own malpractice insurance coverage during the two years of the program. Insurance is available for purchase after admission to the program. This policy is nonrefundable. All documentation must be submitted to the head of the Dental Hygiene Program no later than August 1 in order for the student to continue in the program.
3. All students admitted to the Dental Hygiene Program must attend dental hygiene orientation, register for all classes and pay their tuition prior to August 1. All students are required to purchase the instrument and supply kit, pay a lab usage fee, and are expected to order uniforms at orientation. If a student withdraws from the program, the kit is nonrefundable.
4. Students admitted to the program with academic contingencies in biology, chemistry or algebra must provide documentation of satisfactory completion of the contingency prior to the beginning of fall classes. Failure to meet a stated contingency will result in admission being rescinded.
5. All students admitted to the program without prior experience in the dental field (chair-side dental assisting) are required to observe dental and dental hygiene procedures in the dental office of their choice. The observation experience must be completed by August 1. Assistance in locating practitioners willing to provide observation experience may be provided by the Dental Hygiene Program upon admission.
6. Students in the program are responsible for transportation to and from agencies utilized for clinical and community health rotation experiences.
7. Acceptance into the Program is contingent upon a satisfactory annual criminal background check and annual negative drug screening test. Satisfactory completion of this is required for license eligibility. Costs of the background check and drug screening test are the responsibility of the students.
8. Consideration will be given to qualified LFCC applicants from the LFCC services region for admission into the Virginia Western – Lord Fairfax Community College dental hygiene program.

NOTE: Support courses (non-DNH courses) may be taken prior to entry.

BIO 141, BIO 142, NAS 185, and BIO 150 **must be repeated** if they were completed more than five (5) years prior to the date of admission into the program.

CURRICULUM

Course No.	Title	Credit(s)
Prior to First Semester		
BIO 141	Anatomy and Physiology I ¹	4
BIO 142	Anatomy and Physiology II ¹	4
SDV 101	Orientation to Health Professions	2
First Semester		
DNH 111	Oral Anatomy	2
DNH 115	Histology / Head and Neck Anatomy	3
DNH 120	Management of Emergencies	2
DNH 130	Oral Radiography for Dental Hygienist	3
DNH 141	Dental Hygiene I ²	5
	Total	16
Second Semester		
DNH 142	Dental Hygiene II ²	5
DNH 145	General and Oral Pathology ²	2
DNH 146	Periodontics for Dental Hygiene	2
DNH 216	Pharmacology	2
BIO 150	Introductory Microbiology	4
	Total	15
Third Semester		
DNH 150	Nutrition ³	2
DNH 143	Dental Hygiene III	3
DNH 235	Manage of Dental Pain and Anxiety ²	2
ENG 111	College Composition I	3
	Total	10
Fourth Semester		
DNH 214	Practical Materials for Dental Hygienist ⁴	2
DNH 226	Public Health Dental Hygiene I ⁴	3
DNH 244	Dental Hygiene IV ¹	5
PSY 230	Developmental Psychology	3
	Total	13
Fifth Semester		
DNH 227	Public Health Dental Hygiene II ²	3
DNH 230	Office Practice and Ethics	1
PHI 220/226	Ethics OR Social Ethics (SSDL)	3
DNH 245	Dental Hygiene V ²	5
	Total	12
	PROGRAM TOTAL	72*
	*Includes BIO 141 and BIO 142, which must be completed prior to program entry	

¹ BIO 141 and BIO 142 must be completed by the Spring semester prior to program entry

² This course has a prerequisite. Prerequisites for all courses are listed in the course description section of the catalog.

³ Health and wellness are emphasized throughout the dental hygiene program, but specifically in DNH 150 – Nutrition.

⁴ Includes instruction in fundamental mathematical skills.

AWARD: ASSOCIATE OF APPLIED SCIENCES DEGREE
MAJOR: EMERGENCY MEDICAL SERVICES (146)

The associate of applied sciences degree program with a major in Emergency Medical Services is designed to develop the knowledge base and skill required to prepare the student to function as an "entry-level" Paramedic. Successful performance in this program qualifies the student to take the Paramedic exam.

PROGRAM REQUIREMENT: Purchase of a clinical scheduling and skills tracking account through FISDAP.net (\$80) is required.

ACCREDITATION: The EMS program at LFCC is fully accredited by the Virginia Office of EMS.

ADMISSION REQUIREMENTS:

1. Attend a mandatory EMS orientation session prior to start of fall semester;
2. Be at least 18 at start of program;
3. Meet the requirements listed in the Virginia Office of Emergency Medical Service document "*Prerequisites for EMS training Programs, Criminal History and Standards of Conduct*";
4. High school graduate or GED;
5. Satisfy admission requirements for LFCC;
6. Current Virginia or National Registry EMT certification or higher (must remain current for duration of program);
7. Current Healthcare Provider CPR Certification or other CPR card accepted by the Commonwealth of VA Office of EMS (must remain current for duration of program);
8. No physical limitations rendering the student unfit to perform all required duties;
9. Satisfy the job requirement duties for EMT as set out in the Mid-Atlantic EMS Council Job Description for EMT;
10. To complete the Clinical and Field Internship portions of the program, submit results of a physical exam completed within the last 12 months as proof of immunizations or resistance to measles, mumps, rubella, Tdap, polio, Hepatitis B vaccination, and TB skin test within the last 12 months. If PPD is positive, submit results of chest x-ray showing negative for active TB;
11. LFCC placement tests and completion of any developmental work that may be identified by the placement test. Must show competency in MTE 1-3 and ENG 111 to satisfy requirements without taking remediation.

CURRICULUM

Course No.	Title	Credit(s)
First Semester		
SDV 101/100	Orientation to Health Professions	1
EMS 100	CPR for Healthcare Providers ^{1,2}	1
EMS 111	Emergency Medical Technician Basic ^{1,3}	7
EMS 120	EMT – Basic Clinical ¹	1
HIM 111	Medical Terminology I	3
	Total	13
Second Semester		
EMS 121	Preparatory Foundation	2
EMS 123	EMS Clinical Preparation (Lab)	1
EMS 125	Basic Pharmacology	1
EMS 126	Basic Pharmacology Lab	1
EMS 127	Airway, Shock & Resuscitation	1
EMS 128	Airway, Shock & Resuscitation Lab	1
EMS 135	Emergency Medical Care	2
EMS 136	Emergency Medical Care Lab	1
EMS 137	Trauma Care	1
EMS 138	Trauma Care Lab	1
	Total	12

Third Semester		
BIO 145	Human A&P for Health Sciences ⁴	4
EMS 139	Advanced Care for Special Populations	1
EMS 140	Advanced Care for Special Populations Lab	1
EMS 141	Cardiovascular Care	2
EMS 142	Cardiovascular Care Lab	1
EMS 175	Paramedic Clinical Experience I	2
ENG 111	College Composition I	3
	Total	14
Fourth Semester		
EMS 202	Paramedic Pharmacology	2
EMS 203	Advanced Patient Care	2
EMS 204	Advanced Patient Care Lab	2
EMS 206	Pathophysiology for Health Professions	3
EMS 247	Paramedic Clinical Field Experience II	1
EMS 248	Comprehensive Field Experience	2
PSY 230	Developmental Psychology I ⁵	3
	Total	15
Fifth Semester		
EMS 210	EMS Operations	1
EMS 212	Leadership and Development	1
EMS 165	Advanced Cardiac Life Support	1
EMS 163	Prehospital Trauma Life Support	1
EMS 167	Emergency Pediatric Care	1
EMS 164	Advanced Medical Life Support	1
EMS 216	Paramedic Review	1
EMS 249	Paramedic Capstone Internship	2
PHI 220	Ethics	3
	Elective ⁶	3
	Total	13
	PROGRAM TOTAL	69

1. Applicants with current EMT certification will be awarded credit for EMS 100, EMS 111 and EMS 120.
2. HLT 105 is an approved substitute.
3. Completion of EMS 112 and EMS 113 may be substituted for EMS 111.
4. Taking both BIO 141 and BIO 142 are an approved substitute for BIO 145.
5. PSY 200, PSY 205, PSY 235 and PSY 236 are approved substitutes for PSY 230.
6. Elective must be a course in one of the general education categories – communication, natural science/math, social behavioral or humanities/fine arts.

AWARD: CERTIFICATE
AREA: PARAMEDIC

Curriculum is designed to develop the knowledge base and skill required to prepare the student to function as an “entry-level” Paramedic. Successful performance in this program qualifies the student to take the National Registry’s Paramedic exam.

PROGRAM REQUIREMENT: Purchase of a clinical scheduling and skills tracking account through FISDAP.net (\$80) is required.

OCCUPATIONAL OBJECTIVES: To operate as an “entry-level” Paramedic.

ACCREDITATION: The EMS program at LFCC is fully accredited by the Commission on Accreditation of Allied Health Education Programs (CAAHEP) and the Virginia Office of EMS.

ADMISSION REQUIREMENTS:

1. Attend a mandatory EMS orientation session prior to start of fall semester;
2. Be at least 18 at start of program;
3. Meet the requirements listed in the Virginia Office of Emergency Medical Service document “*Prerequisites for EMS Training Programs, Criminal History and Standards of Conduct*”;
4. High school graduate or GED;
5. Satisfy admission requirements for LFCC;
6. Current Virginia or National Registry EMT-Intermediate certification or higher (must remain current for duration of program) or completion of the EMT-Intermediate curriculum;
7. Current Healthcare Provider CPR Certification or other CPR card accepted by the Commonwealth of VA Office of EMS (must remain current for duration of program);
8. No physical limitations rendering the student unfit to perform all required duties;
9. To complete the Clinical and Field Internship portions of the program, submit results of a physical exam completed within the last 12 months as proof of immunizations or resistance to measles, mumps, rubella, Tdap, polio, Hepatitis B vaccination, and TB skin test within the last 12 months. If PPD is positive, submit results of chest x-ray showing negative for active TB;
10. LFCC placement tests and completion of any developmental work that may be identified by the placement test. Must show competency in MTE 1-3 and readiness for ENG 111 to satisfy requirements without taking remediation;
11. Residents from outside the Lord Fairfax Community College service area are admitted only after all applicants residing in the College service area have been considered;
12. Completion of criminal background search, fingerprinting and drug screen as required and to the satisfaction of affiliating clinical agencies.

CURRICULUM

Course No.	Title	Credit(s)
First Semester		
EMS 100	CPR for Healthcare Providers ^{1,2}	1
EMS 111	Emergency Medical Technician Basic ^{1,3}	7
EMS 120	EMT-Basic Clinical ¹	1
BIO 145	Human Anatomy & Physiology ⁴	4
	Total	13
Second Semester		
EMS 121	Preparatory Foundations	2
EMS 123	EMS Clinical Preparation	1
EMS 125	Basic Pharmacology	1
EMS 126	Basic Pharmacology Lab	1
EMS 127	Airway, Shock & Resuscitation	1
EMS 128	Airway, Shock & Resuscitation Lab	1
EMS 135	Emergency Medical Care	2
EMS 136	Emergency Medical Care Lab	1
EMS 137	Trauma Care	1
EMS 138	Trauma Care Lab	1
	Total	12

Third Semester

EMS 139	Advanced Care for Special Populations	1
EMS 140	Advanced Care for Special Populations Lab	1
EMS 141	Cardiovascular Care	2
EMS 142	Cardiovascular Care Lab	1
EMS 175	Paramedic Clinical Experience I	2
ENG 111	College Composition I	3
PSY 230	Developmental Psychology I ⁵	3
Total		13

Fourth Semester

EMS 202	Paramedic Pharmacology	2
EMS 203	Advanced Patient Care	2
EMS 204	Advanced Patient Care Lab	2
EMS 206	Pathophysiology for Health Professions	3
EMS 247	Paramedic Clinical Field Experience II	1
EMS 248	Comprehensive Field Experience	2
Total		12

Fifth Semester

EMS 210	EMS Operations	1
EMS 212	Leadership and Professional Development	1
EMS 165	Advanced Cardiac Life Support	1
EMS 163	Prehospital Trauma Life Support	1
EMS 167	Emergency Pediatric Care	1
EMS 164	Advanced Medical Life Support	1
EMS 216	Paramedic Review	1
EMS 249	Paramedic Capstone Internship	2
Total		9

Program Total **59**

¹. Applicants with current EMT certification will be awarded credit for EMS 100, EMS 111 and EMS 120.

². HLT 105 is an approved substitute.

³. Completion of EMS 112 and EMS 113 may be substituted for EMS 111.

⁴. Taking both BIO 141 and 142 are an approved substitute for BIO 145.

⁵. PSY 200, PSY 235 and SOC 268 are approved substitutions for PSY 230.

AREA: RN TO PARAMEDIC BRIDGE

This RN to Paramedic bridge curriculum does not involve a certificate or degree and is non-transferrable. Applicants to the RN to Paramedic program must be:

- Currently licensed in Virginia as a Registered Nurse.
- Currently participating as an active EMS field provider or actively working as an RN (the term “active” as used above for both the field provider and RN is defined as a minimum average of eight (8) hours a week over the two previous years or a total of eight hundred thirty-two (832) hours within the previous two years (8 hours/wk X 2 years = 832 hours).

CURRICULUM

Course No.	Title	Credit(s)
First Semester		
EMS 127	Airway, Shock & Resuscitation	1
EMS 128	Airway, Shock & Resuscitation Lab	1
EMS 137	Advanced Trauma Care	1
EMS 138	Advanced Trauma Care Lab	1
EMS 203	Advanced Patient Care	2
EMS 204	Advanced Patient Care Lab	2
EMS 247	Paramedic Clinical Field Experience II	1
EMS 248	Comprehensive Field Experience	1
	Total	10
Second Semester		
EMS 141	Cardiovascular Care	2
EMS 142	Cardiovascular Care Lab	1
EMS 210	EMS Operations	1
EMS 212	Leadership and Development	1
EMS 165	Advanced Cardiac Life Support	1
EMS 163	Prehospital Trauma Life Support	1
EMS 167	Emergency Pediatric Care	1
EMS 164	Advanced Medical Life Support	1
EMS 216	Paramedic Review	1
EMS 249	Paramedic Capstone Internship	1
	Total	11
	PROGRAM TOTAL	21

Students that successfully complete this curriculum will be considered to have met the requirements for the Paramedic Certificate. Upon successful completion of the program and approvals of the Physician Course Director and the Program Director, student is eligible to sit for the National Registry Paramedic Exam.

AWARD: CAREER STUDIES CERTIFICATE
AREA: EMERGENCY MEDICAL TECHNICIAN

PURPOSE: This curriculum is designed to develop the knowledge base and skills require to prepare the student to function as an “entry-level” Emergency Medical Technician (EMT). Successful performance in this program qualifies the student to take the National Registry’s EMT exam.

PROGRAM REQUIREMENT: Purchase of a clinical scheduling and skills tracking account through FISDAP.net (\$80) is required.

OCCUPATIONAL OBJECTIVES: To operate as an “entry-level” EMT.

ADMISSION REQUIREMENTS:

1. Attend a mandatory EMS orientation session with instructor;
2. Be a minimum of 16 years of age at the beginning date of the EMT course. *If you are less than 18 years of age, you must provide your instructor with a completed parental permission form with the signature of a parent or guardian verifying approval for enrollment in the course;*
3. Have no physical or mental impairment that would render you unable to perform all practical skills required at the EMT level;
4. Not have been convicted of or found guilty of any crime, offense or regulatory violation or participated in any other prohibited conduct identified in state EMS regulation 12VAC5-31-910;
5. To complete the Clinical and Field internship portions of the program, submit results of a physical exam completed within the last 12 months as proof of immunizations or resistance to measles, mumps, rubella, Tdap, polio, Hepatitis B vaccination and TB skin test within the last 12 months. If PPD is positive, submit results of chest x-ray showing negative for active TB;
6. LFCC Placement tests and completion of any developmental work that may be identified by the placement test. Must show competency in MTE 1-2 and eligible for ENG 111 to satisfy requirements without taking remediation;
7. Residents from outside the Lord Fairfax Community Service Area are admitted only after all applicants who reside in the College service area have been considered;
8. Completion of criminal background search, fingerprinting and drug screen as required and to the satisfaction of affiliating clinical agencies.

ACCREDITATION: The EMS program at LFCC is fully accredited by the Virginia Office of EMS and the Commission on Accreditation of Allied Health Education Programs.

CURRICULUM

Course No.	Title	Credit(s)
First Semester		
EMS 100	CPR for Healthcare Providers ^{1,2}	1
EMS 111	Emergency Medical Technician ^{1,3}	7
EMS 120	EMT-Basic Clinical ¹	1
SDV 101/100	Orientation to Health Professions	1
	Total	10

¹. Applicants with current EMT certification will be awarded credit for EMS 100, EMS 111 and EMS 120.

². HLT 105 is an approved substitute.

³. Completion of EMS 112 and EMS 113 may be substituted for EMS 111.

AWARD: CAREER STUDIES CERTIFICATE
AREA: ADVANCED EMERGENCY MEDICAL TECHNICIAN – AEMT (221-146-02)

PURPOSE: This certificate encompasses the curriculum set forth in the Virginia and National EMS Education Standards for the AEMT pre-hospital provider level. The curriculum includes an expansion of topics covered in the Emergency Medical Technician (EMT) curriculum including: anatomy and physiology, pathophysiology and trauma. Students are introduced to the concepts and skills related to Advanced Life Support (ALS) care including: intravenous access and medication administration. Successful completion of the classroom, lab and internship portions of this certificate will result in eligibility to sit for the National Registry of EMT's AEMT exam. Students in this certificate must maintain their current EMT and CPR certification throughout the program.

OCCUPATIONAL OBJECTIVES: Pre-hospital care, emergency calls, ambulance transport to medical facilities.

ADMISSION REQUIREMENTS:

1. Attend a mandatory EMS orientation session with instructor;
2. Be at least 18 at start of program;
3. Meet the requirements listed in the Virginia Office of Emergency Medical Services document "*Prerequisites for EMS Training Programs, Criminal History and Standards of Conduct*";
4. High School graduate or GED;
5. Satisfy admission requirements for LFCC;
6. Current Virginia or National Registry EMT – Basic certification or higher (must remain current for duration of program);
7. Current Healthcare Provider CPR Certification or other CPR card accepted by the Commonwealth of VA Office of EMS (must remain current for duration of program);
8. No physical limitations rendering the student unfit to perform all required duties;
9. Satisfy the job requirement duties for EMT as set out in the Mid-Atlantic EMS Council Job Description for EMT;
10. Complete the Clinical and Field Internship portions of the program, submit results of a physical exam completed within the last 12 months as proof of immunizations or resistance to measles, mumps, rubella, Tdap, polio, Hepatitis B vaccination and TB skin test within the last 12 months. If PPD is positive, submit results of chest x-ray showing negative for active TB;
11. LFCC Placement tests and completion of any developmental work that may be identified by the placement test. Must show competency in MTE 1-3 and ENG 111 to satisfy requirements without taking remediation.
12. Residents from outside the Lord Fairfax Community Service Area are admitted only after all applicants who reside in the College service area have been considered;
13. Completion of criminal background search, fingerprinting and drug screen as required and to the satisfaction of affiliating clinical agencies. All costs associated with these are the responsibility of the student.

ACCREDITATION: The EMS program at LFCC is nationally accredited through the Virginia Office of EMS.

EMT certificate courses must be taken in the prescribed sequence, which begins in the fall semester. Interested students should apply to the Division of Science and Health Professions at the Middletown Campus prior to the April 30th application deadline in order to complete required background screening, health forms and program orientation. Seating is limited, and priority seating is given to residents of the LFCC service region.

CURRICULUM

Course No.	Title	Credit(s)
First Semester		
EMS 100	CPR for Healthcare Providers ^{1,2}	1
EMS 11	Emergency Medical Technician ^{1,3}	7
EMS 120	EMT – Basic Clinical ¹	1
SDV 101/100	Orientation to Health Professions	1
	Total	10

Second Semester

EMS 121	Preparatory Foundations	2
EMS 123	EMS Clinical Preparation	1
EMS 125	Basic Pharmacology	1
EMS 126	Basic Pharmacology Lab	1
EMS 127	Airway, Shock & Resuscitation	1
EMS 128	Airway, Shock & Resuscitation Lab	1
EMS 135	Emergency Medical Care	2
EMS 136	Emergency Medical Care Lab	1
EMS 137	Trauma Care	1
EMS 138	Trauma Care Lab	1
EMS 170	ALS Internship I	1
	Total	13

Program Total	23
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1. Applicants with current EMT certification will be awarded credit for EMS 100, EMS 111 and EMS 120.
2. HLT 105 is an approved substitute.
3. Completion of EMS 112 and EMS 113 may be substituted for EMS 111.

AWARD: ASSOCIATE OF SCIENCE DEGREE
MAJOR: SCIENCE
SPECIALIZATION: HEALTH PROFESSIONS (880-03) – TRANSFER

The associate of science degree program with a major in Science and a Health Professions specialization is designed for students who are interested in health professions programs who plan to transfer to a health profession such as: dental hygiene, occupational therapy, nursing, physical therapy, respiratory therapy, radiation technology, or other allied health programs.

Students should be knowledgeable about the specific requirements of the four-year school to which they wish to transfer so that they make appropriate course choices.

CURRICULUM

Course No.	Title	Credit(s)
First Semester		
ENG 111	College Composition I	3
IT / CS	Computer Elective ¹	3
MTH	Approved Math Elective ^{2,3}	3
SDV 101/100	Orientation to Health Professions OR College Success Skills	1
	Science with a Laboratory ⁴	4
	Total	14
Second Semester		
ENG 112	College Composition II	3
	History Elective ⁴	3
MTH	Approved Math Elective ^{2,3}	3
	Science with a Laboratory ⁴	4
	Approved STEM Elective ⁵	3
	Total	16
Third Semester		
ENG	Literature Elective ³	3
PSY 230	Developmental Psychology	3
HLT 130	Nutrition and Diet Therapy ⁶	2
BIO 150	Introductory Microbiology	4
	Science with a Laboratory ⁴	4
	Total	16
Fourth Semester		
CST	Communication Elective ³	3
SOC 200	Principles of Sociology	3
	Science with a Laboratory ⁴	4
PHI 227/220	Biomedical Ethics OR Ethics	3
	Approved Transfer Elective ³	3
	Total	16
	PROGRAM TOTAL	62

¹ Students may elect from the following courses to fulfill the computer / information literacy requirement: CSC 200, ITE 115, or ITE 119.

² Students should check with the institution to which they will be transferring to determine the most appropriate math courses to take at LFCC – MTH 245 – Statistics should be taken prior to transferring.

³ See list of approved electives in catalog.

⁴ One full sequence of science with a lab is required. BIO 141 and BIO 142 are the recommended sequence.

⁵ May be BIO, CHM, CSC, EGR, GOL, HIM, MTH, NAS, or PHY

⁶ Students should check with the institution to which they will be transferring to determine the most appropriate nutrition course to take at LFCC. HLT 230 – Principles of Nutrition and Human Development (3 credits) may be required for transfer.

AWARD: CERTIFICATE
MAJOR: HEALTH SCIENCE (190)

This certificate will create a pathway into a health-related profession and will strengthen the academic record of students applying for nursing, dental hygiene, surgical technology, and practical nursing programs, as well as future health related programs.

CURRICULUM

Course No.	Title	Credit(s)
SDV 101 / 100	Orientation to Health Professions	1
ENG 111	College Composition I	3
BIO	Electives ¹	4-12
PSY	Elective ^{1,2}	3
SOC SCI / HUM	Social/Behavioral Science/Humanities Electives ^{1,3,4}	8-16
		30-35

¹ Electives refer to the table below for specific course recommendations for each allied health program.

Choose from: BIO 141, BIO 142, BIO 145, BIO 150, CHM 101, CHM 110, CHM 111, CST 100, ENG112, FNS 110, HCT 115, HIM 111, HIM 112, HLT 130, HLT 140, HLT 230, ITE 115, MDL 105, MDL 106, MDL 195, NUR 27, PSY 230, PSY 116, PHI 220, PHI 227, SOC 200, SOC 207, and SUR 135

² If no specific Psychology course is required in the program as noted below, a social/behavioral science or program elective may be substituted.

³ Students must check the catalog for specific program admissions requirements in addition to the courses listed above.

⁴ Review catalog for specific course/program requirements for HCT 115, MDL 105, MDL 106, and NUR 27. Note that MDL 105 and 106 are part of the Phlebotomy program, which has a selective admissions process.

Elective	AAS in Nursing, including Nurse Aid and Patient Care Technician ³	AAS in Medical Lab Technology, including Phlebotomy	AAS in Health Information Management ³	Certificate in Surgical Technology
BIO Electives	BIO 141 – Anatomy & Physiology I; BIO 142 – Anatomy & Physiology II BIO 150 – Microbiology	BIO 141 – Anatomy & Physiology I; BIO 142 – Anatomy & Physiology II BIO 150 – Microbiology *BIO 145 – Human Anatomy & Physiology for Health Sciences (*Only applicable to the Phlebotomy career studies certificate)	BIO 145 – Human Anatomy and Physiology for Health Sciences OR BIO 141 – Anatomy & Physiology I; BIO 142 – Anatomy & Physiology II	BIO 141 – Anatomy & Physiology I; BIO 142 – Anatomy & Physiology II BIO 150 – Microbiology
Psychology Elective	PSY 230 – Developmental Psychology	PSY 200 – Intro to Psychology	No specific Psychology required Social / Behavioral Science Elective	No specific Psychology required Social / Behavioral Science Elective
Social/Behavioral Science or Humanities Elective	PHI 220 – Ethics	PHI 220 – Ethics	HUM Elective	HUM Elective
Program Electives	CST 100, 110, 138; ENG 112; SOC 200, 207; HCT 115; HLT 105; NUR 27 – Nurse Aide	CHM 111 – General Chemistry I MDL 105 – Phlebotomy MDL 106 – Clinical Phlebotomy	HIM 111 – Medical Terminology I HIM 112 – Medical Terminology II ITE 115 – Intro to Computer Applications and Concepts	HIM 111 – Medical Terminology I SUR 135 – Infection Control

AWARD: CAREER STUDIES CERTIFICATE
AREA: PRE-ALLIED HEALTH (221-190-01)

PURPOSE: The Pre-Allied Health Career Studies Certificate (CSC) is designed to help prepare students for admission into one of LFCC's allied health programs, including Practical Nursing, Dental Hygiene, Surgical Technology, and Emergency Medical Services. Students enrolled in this CSC are not yet accepted into the Certificate or Degree programs listed but are completing their general education and prerequisite courses. After completing this CSC, students will apply for admission into one of the allied health programs.

OCCUPATIONAL OBJECTIVES: creates a pathway into and prepares students for allied health programs; such as, practical nursing, dental hygiene, emergency medical services and surgical technology.

PROGRAM REQUIREMENTS: The Pre-Allied Health Career Studies Certificate consists of 14-23 credits and serves as a guide for preparing the student to enter an allied health program.

CURRICULUM

Course No.	Title	Credit(s)
SDV 101/100	Orientation to Health Professions	1
ENG 111	College Composition I	3
BIO	Electives ¹	4-8
	Program Electives ¹	6-11
	Total	14-23

Elective	AAS in Emergency Medical Services ²	Certificate in Surgical Technology ²	AAS in Dental Hygiene (VWCC) ²	Certificate in Practical Nursing ²
BIO Electives	BIO 145 – Human Anatomy and Physiology for Health Sciences	BIO 141 – Anatomy and Physiology I; BIO 142 – Anatomy and Physiology II;	BIO 141 – Anatomy and Physiology I; BIO 142 – Anatomy and Physiology II;	BIO 145 – Human Anatomy and Physiology for Health Sciences
Program Electives	ITE 115 – Intro to Computer Applications and Concepts; EMS 111 ² – Emergency Medical Technician Basic; EMS 120 ² – EMT-Basic Clinical	BIO 150 – Microbiology; HIM 111 – Medical Terminology I	BIO 150 – Microbiology; PSY 230 Developmental Psychology; Humanities/Fine Arts Elective – see list of approved electives.	ITE 115 – Intro to Computer Applications and Concepts; PSY 230 – Developmental Psychology

¹ Electives: please refer to the table below for specific course recommendations for each allied health program. Choose from BIO 141, BIO 142, BIO 145, BIO 150, ITE 115, HIM 112, PSY 230, EMS 111.

² Students must check the catalog for specific program admission requirements in addition to the courses listed above.

AWARD: ASSOCIATE OF APPLIED SCIENCES DEGREE
MAJOR: MEDICAL LABORATORY TECHNOLOGY (151)

The Associate of Applied Sciences Degree program in Medical Laboratory Technology is designed to prepare students to master entry level knowledge of Medical Laboratory Technology. The program combines the use of sophisticated instruments and techniques with the application of theoretical knowledge to perform complex procedures on tissue specimens, blood specimens, and other body fluids. The tests and procedures that Medical Laboratory Technologists perform provide critical information enabling physicians to diagnose, treat, and monitor a patient's condition.

ADMISSION REQUIREMENT: Acceptance into the AAS Medical Laboratory Technology program is selective and competitive. Submission of an application does not guarantee acceptance into the AAS program. Deadline for submitting completed applications is May 1 for the upcoming academic year. Applicants are responsible for making certain that the following have been submitted to the Medical Technology Program Director:

1. Official transcripts from all colleges attended (transcripts from LFCC and other Virginia Community Colleges are not required);
2. Must have applied to Lord Fairfax Community College;
3. Official transcript showing completion of a high school diploma or records showing completion of GED with scores, and;
4. A current Medical Laboratory Technology application form.

Early admission is encouraged for advising purposes. Applicants will be notified of their program admission status in June.

ADDITIONAL ADMISSION REQUIREMENTS:

1. One unit of high school Biology or college equivalents (BIO 101; CHM 101)
2. LFCC placements tests (if required) and completion of any developmental work that may be identified by the placement test.
 - Applicants must receive an ENG 111 placement test recommendation or have successfully completed all developmental English requirements.
 - Applicants who do not demonstrate proficiency on the placement test in the following mathematical units will be required to complete developmental courses or their credit equivalent: MTE 1-9.
3. A GPA of 2.5 or higher based on the twelve most recent college credits completed by the end of fall semester, prior to submitting an MLT application. A GPA lower than 2.5 will be considered on a case-by-case basis.
4. Completion of the pre-requisite courses, or equivalent, noted in the course curriculum. Students who are currently enrolled in the prerequisites may apply; acceptance into the program will be contingent upon passing the courses with a "C" or 70% or better, prior to beginning the MLT program curriculum.
5. Meet certain computer competencies prior to entering the MLT program. Applicants are required to review and sign "Essential Computer Competency Checklist."
6. Two completed reference forms - one personal and one professional reference - must be included in the application packet.
7. Successful completion of all the required 62 credits with a minimum grade of "C" or 70% in all general education and a "C" or 75% in all MDL Medical Laboratory Technology courses is required for the AAS.

PREREQUISITES

Course No.	Title	Credit(s)
SDV 100/SDV 101	College Success Skills	1
BIO 141	Human Anatomy and Physiology I	4
BIO 142	Human Anatomy and Physiology II	4
ENG 111	College Composition	3
	Total	12

CURRICULUM

Course No.	Title	Credit(s)
First Semester (Acceptance into the AAS program is required to enroll in MDL courses)		
MDL 101	Introduction to Medical Laboratory Techniques	3
CHM 111	General Chemistry I	4
MDL 110	Urinalysis and Body Fluids	3
MDL 210	Immunology and Serology	2
MDL 105	Phlebotomy	3
	Total	15

Second Semester

MDL 125	Clinical Hematology	3
MDL 216	Blood Banking	3
BIO 150	Introductory Microbiology	4
PHI 220	Ethics	3
Total		13

Third Semester

MDL 261	Clinical Chemistry and Instrumentation I	4
MDL 252	Clinical Microbiology II	3
MDL 225	Clinical Hematology II	3
PSY 200	Principles of Psychology	3
Total		13

Fourth Semester (Completion of all prior MDL courses with a grade of "C" or 75% or better is required to enroll in Clinical Rotation semester of the MLT Program)

*MDL 290	Coordinated Internship in Clinical Chemistry	2
*MDL 290	Coordinated Internship in Hematology	2
*MDL 290	Coordinated Internship in Blood Bank	2
*MDL 290	Coordinated Internship in Microbiology	2
MDL 281	Clinical Correlations	1
Total		9
PROGRAM TOTAL		62

*The Coordinated Internships (MDL 290) will consist of 375 clinical hours, rotating throughout different departments in a predetermined Clinical Laboratory. The students will spend 3 weeks in Chemistry (4 days a week, 7 hour days), 3 weeks in Hematology (4 days a week, 7 hour days), 4 weeks in Microbiology (4 days a week, 7 hour days), and 4 weeks in Blood Bank (4 days a week, 7 hour days). Serology, Coagulation, and Urinalysis clinical hours will be incorporated in the four mentioned departments. Students will be allotted a 30 minute break each day of their clinical rotation. This is a pass/unsatisfactory course. Students who do not complete 375 hours will not pass the course. Successful completion of this course is mandatory in earning the AAS degree.

CLINICAL REQUIREMENTS: During the final semester, students will enter the field for a 14-week clinical rotation. Medical laboratory personnel frequently work with blood and body fluids which may harbor infectious diseases such as bacteria and viruses. Students may likewise be exposed to potentially infectious blood borne disease as well as bacterial and viral cultures in the clinical microbiology laboratory due to time pressures placed on the laboratory personnel.

Prior to admission to the Clinical Rotation:

1. Students must be 18 years of age.
2. Students must purchase required apparel for the clinical rotation prior to start of the rotations.
3. Students must provide their own form of transportation to and from the clinical sites.
4. Current immunization record to include Td/Tdap, MMR, Varicella, PPD, Bacterial Meningitis, Polio, Influenza and Hepatitis series.
5. Physical exam form completed within the last 6 months signed by a M.D. or D.O and student health history form.
6. Proof of health insurance.
7. Results of Criminal Background Check and Urine Drug Screen completed within ninety days and submitted forty-five (45) days prior to entering Clinical rotation. The cost of the background check and the drug screen are the responsibility of the student.
8. Sign an agreement which releases all clinical agencies and their employees, Lord Fairfax Community College, The Virginia Community College System and the Commonwealth of Virginia from any liability for any injury or death to the student or damage to his/her property arising out of agreement of use of facilities associated with the nursing program.

AWARD: CAREER STUDIES CERTIFICATE

AREA: PHLEBOTOMY (221-151-02)

PURPOSE: The phlebotomy program is designed to prepare students to work as entry-level phlebotomists. Entry-level phlebotomists work in a variety of clinical settings. This is done with an emphasis on venipuncture and micro-collection techniques, infection control, safety, quality assurance, personal communication, management, and professionalism. Graduates are eligible to sit for the national examination to become certified as a Phlebotomy Technician (PBT) by the American Society for Clinical Pathology (ASCP). Find out more about the ASCP at www.ascp.org.

OCCUPATIONAL OBJECTIVES: Opportunities include employment in hospitals, medical clinics, commercial medical laboratories, public health clinics and other settings where blood is collected from patients.

ADMISSION REQUIREMENTS:

1. Students should be 18 years of age to register for phlebotomy classes (MDL);
2. Application to Lord Fairfax Community College;
3. LFCC placement tests and completion of any developmental work that may be identified by the placement test;
4. Should show competence in MTE 1-5 and readiness for ENG 111 to satisfy requirement without taking remediation;
5. Graduation from high school or satisfactory completion of general education development (GED); official copy required;
6. Students will need to complete and pay for background screen prior to clinical classes;
7. Students need to complete health forms which include a physical, proof of various immunizations including a common flu vaccine and a TB skin test;
8. Students must have current CPR from American Heart Association Health Care provider.
9. Must be accepted in Phlebotomy program.

UPON ACCEPTANCE TO THE PHLEBOTOMY PROGRAM THE STUDENT MUST:

- Comply with all the rules and guidelines explained in the LFCC Phlebotomy Student Handbook and the LFCC Student Handbook;
- Sign an agreement which releases all clinical agencies and their employees, Lord Fairfax Community College, the Virginia Community College System and the Commonwealth of Virginia from any liability for injury or death to the student or damage to her/his property arising out of agreement of use of facilities associated with the phlebotomy program.

CURRICULUM

Course No.	Title	Credit(s)
First Semester		
BIO 145	Basic Anatomy and Physiology for the Health Sciences ¹	4
HIM 111	Medical Terminology I	3
MDL 105	Phlebotomy	3
	Total	10
Second Semester		
MDL 106	Clinical Phlebotomy	4
HIM 112	Medical Terminology II	3
	Total	7
	PROGRAM TOTAL	17

¹ BIO 141 and 142 can be substitute for BIO 145 if both classes are taken.

AWARD: ASSOCIATE OF APPLIED SCIENCES DEGREE
MAJOR: NURSING (156)

PURPOSE: The Associate of Applied Science Degree in Nursing (AAS) at Lord Fairfax Community College (LFCC) is designed to prepare students to master entry level registered nurse knowledge. Students will integrate the art of nursing skills with the science of health education in order to provide holistic client care.

Upon satisfactory completion of this program, the student will be eligible to take the National Council of State Boards of Nursing examination (NCLEX-RN), for licensure as a registered nurse (RN). Opportunities for the entry level RN include employment in a myriad of health care settings.

TRANSFER GUIDELINES: Transfer opportunities for associate of applied science degrees, if existing, are very specific in nature. Students enrolling in an applied science degree with plans to transfer should explore opportunities with an advisor.

ADMISSION REQUIREMENTS: Acceptance into the AAS program is selective and competitive. Submission of an application does not guarantee acceptance into the AAS program. Applicants not selected for the program must complete and resubmit a new application packet each year. Applicants for the AAS program are selected one time per academic year.

Students considering the AAS program are required to successfully complete the prerequisites earning a "C" or better in all required prerequisite coursework. Students may be enrolled in any or all of the prerequisite coursework during the spring semester in which applications are due. Students who qualify for admission will be accepted with the contingency that they complete the prerequisites by the end of the semester with a C or better, and have a minimum GPA as described below.

- Graduation from high school or satisfactory completion of the certificate of general education development (GED or equivalent); unofficial copy required;
- Application to Lord Fairfax Community College (if not a student) and the nursing program;
- LFCC placement test (if required) and completion of any developmental work that may be identified by the placement test. Must show proficiency in MTE 1-5;
- Curricular GPA of 2.5 or higher based on the specified prerequisite courses (ENG 111, PSY 230, SDV 101, BIO 141);
- Meet certain computer competencies prior to entering the nursing program. Applicants are required to review and sign "Essential Computer Competency Checklist". Students without the required skill set are encouraged to enroll in ITE 115. See requirements here: <https://lfcc.edu/nursing/aas-students-2018-curriculum/aas-degrees-2018/associate-of-applied-science-degree-in-nursing-2018/>;
- Completion of the required HESI admission assessment exam scoring at or above the 45th percentile in each required component which includes reading comprehension, anatomy and physiology, math, and the composite score;
 - A minimum score of 800 on the HESI critical thinking exam is also included as part of the required HESI admission exam.
 - Two attempts on the HESI admission exam are permitted per application cycle. Students must wait a period of one week between attempts on the HESI admission exam.
 - HESI admission exams are good for two application cycles only. NOTE: Needed entrance exam scores (at or above the 45th percentile) change on a yearly basis; therefore, scores from a previous year must meet or exceed the benchmark for the current year.

Pre-Nursing students are strongly encouraged to attend a nursing information session. Dates, times, and locations are posted on the LFCC Nursing website.

Upon acceptance to the AAS program the student will be given instructions with regards to the following:

- Submit a completed medical history and physical examination, including immunizations.
- Provide proof of Basic Life Support (BLS) for Healthcare Providers by the American Heart Association.
- Complete a criminal background check and drug screening required of each student. The cost of the background check and the drug screen are the responsibility of the student.
- Comply with all rules and guidelines of the LFCC Student Handbook.
- Sign an agreement which releases all clinical agencies and their employees, Lord Fairfax Community College, The Virginia Community College System and the Commonwealth of Virginia from any liability for any injury or death to the student or damage to his/her property arising out of agreement of use of facilities associated with the nursing program.
- Nursing students enrolled in NSG courses are required to purchase health insurance from an independent provider.
- Failure to meet the above requirements will be cause for administrative withdrawal of the student from the nursing program.

Successful completion of the required 67 credits with a minimum grade of “C” in all general education and nursing courses is required for the AAS.

APPROVAL: The LFCC AAS program is approved by the Virginia Board of Nursing, the State Board for Community Colleges, the State Council of Higher Education for Virginia (SCHEV), and the Southern Association of College and Schools (SACSCOC).

ACCREDITATION: The Nursing Program is accredited by the Accreditation Commission for Education in Nursing (ACEN), 3343 Peachtree Road NE, Suite 850, Atlanta, Georgia 30326.

NOTE: General education courses may be taken at any time prior to admission in the AAS program; however, general education courses must be completed no later than the semester in which they are outlined in the curriculum below.

PREREQUISITES

Course No.	Title	Credit(s)
BIO 141	Human Anatomy and Physiology I	4
ENG 111	College Composition I	3
PSY 230	Developmental Psychology	3
SDV 100/101	Orientation to Health Professions OR College Success Skills	1
Elective	SOC 200 or SOC 207 or CST 100 or CST 110 or CST 138 or ENG 112	3
	Total Credits	14

ACCEPTANCE INTO THE AAS PROGRAM IS REQUIRED TO ENROLL IN NSG COURSES.

CURRICULUM

Course No.	Title	Credit(s)
First Semester		
BIO 142	Human Anatomy and Physiology II	4
NSG 100	Introduction to Nursing Concepts	4
NSG 106	Competencies for Nursing Practice	2
NSG 130	Professional Nursing Concepts	1
NSG 200	Health Promotion and Assessment	3
	Total Credits	14

NOTE: Completion of all first semester courses with a grade of “C” or better is required to enroll in second semester NSG courses.

Second Semester

BIO 150	Microbiology (may be taken in spring or summer)	4
NSG 152	Health Care Participant	3
NSG 170	Health/Illness Concepts	6
	Total	13

NOTE: Completion of all second semester and summer courses with a grade of “C” or better is required to enroll in third semester NSG courses.

Third Semester

Elective	SOC 200 or SOC 207 or CST 100 or CST 110 or CST 138 or ENG 112	3
NSG 210	Healthcare Concepts I	5
NSG 211	Healthcare Concepts II	5
	Total	13

NOTE: Completion of all third semester courses with a grade of “C” or better is required to enroll in fourth semester NSG courses.

Fourth Semester

NSG 230	Advanced Professional Nursing Concepts	2
NSG 252	Complex Health Concepts	4
NSG 270	Nursing Capstone	4
PHI 220	Ethics (PHI 227 may substitute)	3
	Total	13
	PROGRAM TOTAL	67

AWARD: ASSOCIATE OF APPLIED SCIENCES DEGREE
MAJOR: NURSING: ADVANCED PLACEMENT OPTION FOR LICENSED PRACTICAL NURSES

PURPOSE: The Associate of Applied Science in Nursing (AAS): Advanced Placement Option (APO) for Licensed Practical Nurses (LPNs) is designed to prepare students with a current, unrestricted LPN license in the Commonwealth of Virginia to master entry level registered nurse knowledge while recognizing their education and skill level as a current LPN. Students will integrate the art of nursing skills with the science of health education in order to provide holistic client care. Upon satisfactory completion of this program, the student will be eligible to take the National Council of State Boards of Nursing examination (NCLEX-RN), for licensure as a registered nurse (RN). Opportunities for the entry level RN include employment in a myriad of health care settings.

TRANSFER GUIDELINES: Transfer opportunities for associate of applied science degrees, if existing, are very specific in nature. Students enrolling in an applied science degree with plans to transfer should explore opportunities with an advisor.

ADMISSION REQUIREMENTS: Acceptance into the AAS APO program is selective and competitive. Submission of an application does not guarantee acceptance into the AAS program. Applicants not selected for the program must complete and resubmit a new application packet each year. Applicants for the AAS program are selected one time per academic year.

Students considering the AAS APO program are required to successfully complete the prerequisites earning a "C" or better in all required prerequisite coursework. Students may be enrolled in any or all of the prerequisite coursework during the spring semester in which applications are due. Students who qualify for admission will be accepted with the contingency that they complete the prerequisites by the end of the semester with a C or better, and have a minimum GPA as described below.

- Graduation from high school or satisfactory completion of the certificate of general education development (GED or equivalent); unofficial copy required.
- Application to Lord Fairfax Community College (LFCC) and the nursing program.
- LFCC placement test (if required) and completion of any developmental work that may be identified by the placement test. Must show proficiency in MTE 1-5.
- Curricular GPA of 2.5 or higher based on the specified prerequisite courses (ENG 111, PSY 230, SDV 101, BIO 141, BIO 142)
- Meet certain computer competencies prior to entering the nursing program. Applicants are required to review and sign "Essential Computer Competency Checklist". Students without the required skill set are encouraged to enroll in ITE 115. See requirements here: <https://www.lfcc.edu/files/documents/current-students/college-catalog/2011-12/Instructional-Programs/Core-Computer-Competency-Requirements.pdf>.
- Completion of the required HESI LPN to RN exam with a score of 850 or higher on the Composite score. Weighting for admission will be considered for each of the required components, which includes Basic Care, Physiological Adaptation, Safety/Infection Control, Psychological Integrity, and the Composite score.
 - Two attempts on the HESI admission exam are permitted per application cycle.
 - HESI admission exams are good for two application cycles only.

Pre-Nursing students are strongly encouraged to attend a nursing information session. Dates, times, and locations are posted on the LFCC Nursing website.

Upon acceptance to the AAS APO program the student will be given instructions with regards to the following:

- Submit a completed medical history and physical examination, including immunizations.
- Provide proof of Basic Life Support (BLS) for Healthcare Providers by the American Heart Association.
- Complete a criminal background check and drug screening required of each student. The cost of the background check and the drug screen are the responsibility of the student.
- Comply with all rules and guidelines of the LFCC Student Handbook.
- Sign an agreement which releases all clinical agencies and their employees, Lord Fairfax Community College, The Virginia Community College System and the Commonwealth of Virginia from any liability for any injury or death to the student or damage to his/her property arising out of agreement of use of facilities associated with the nursing program.
- Nursing students enrolled in NSG courses are required to purchase health insurance from an independent provider.
- Failure to meet the above requirements will be cause for administrative withdrawal of the student from the nursing program.

Successful completion of the required 67 credits with a minimum grade of "C" in all general education and nursing courses is required for the AAS.

APPROVAL: The LFCC AAS APO is approved by the State Board for Community Colleges, the State Council of Higher Education for Virginia and the Virginia Board of Nursing, Southern Association of College and Schools (SACSCOC) and State Council for Higher Education for Virginia (SCHEV).

ACCREDITATION: The Nursing Program is accredited by the Accreditation Commission for Education in Nursing (ACEN), 3343 Peachtree Road NE, Suite 850, Atlanta, Georgia 30326 and approved by the Virginia State Board of Nursing, Perimeter Center, 9960 Maryland Drive, Suite 300, Richmond, VA 23233-1463, (804) 367-4515.

NOTE: General education courses may be taken at any time prior to admission in the AAS program; however, general education courses must be completed no later than the semester in which they are outlined in the curriculum below.

PREREQUISITES

Course No.	Title	Credit(s)
BIO 141	Human Anatomy and Physiology I	4
BIO 142	Human Anatomy and Physiology II	4
ENG 111	College Composition I	3
PSY 230	Developmental Psychology	3
SDV 100/101	Orientation to Health Professions	1
Elective	SOC 200 or SOC 207 or CST 100 or CST 110 or CST 138 or ENG 112	3
	Total	18

ACCEPTANCE INTO THE AAS APO PROGRAM IS REQUIRED TO ENROLL IN NSG COURSES.

CURRICULUM

Course No.	Title	Credit(s)
First Semester		
BIO 150	Microbiology (may be taken in spring or summer)	4
NSG 115	Healthcare Concepts for Transition	5
NSG 200	Health Promotion and Assessment	3
	Total	12

NOTE: Upon successful completion of NSG 115, students will be awarded 11 credits and 125 clinical hours for advanced placement in the nursing curriculum for holding a current, unrestricted LPN license in the Commonwealth of Virginia.

Second Semester

Elective	SOC 200 or SOC 207 or CST 100 or CST 110 or CST 138 or ENG 112	3
NSG 210	Healthcare Concepts I	5
NSG 211	Healthcare Concepts II	5
	Total	13

NOTE: Completion of all second semester and summer courses with a grade of “C” or better required to enroll in third semester NSG courses.

Third Semester

NSG 230	Advanced Professional Nursing Concepts	2
NSG 252	Complex Health Concepts	4
NSG 270	Nursing Capstone	4
PHI 220	Ethics (PHI 227 may substitute)	3
	Total	13
	PROGRAM TOTAL	67

AWARD: CERTIFICATE
MAJOR: PRACTICAL NURSING (157)

This certificate is designed to prepare beginning practitioners with the knowledge and skill to care for patients of all age groups and to qualify as contributing members of the health care team. Students who successfully complete the curriculum are awarded a certification in practical nursing and are eligible to apply to take the National Council Licensure Examination (NCLEX-PN) leading to a license as a practical nurse.

APPROVAL: The Practical Nursing program is approved by the VCCS and the Virginia Board of Nursing.

ADMISSION REQUIREMENTS:

1. Application of Lord Fairfax Community College (LFCC) and to the nursing program
2. LFCC placement tests (if required) and completion of any developmental work that may be identified by the placement test. Must place into ENG111 and show proficiency in MTE 1-6.
3. Graduation from high school or satisfactory completion of the certificate of general education development (GED or equivalent); official copy required.
4. Meet certain computer competencies prior to entering the nursing program. Applicants are required to review and sign the "Essential Computer Competency Checklist." Students without the required skill set are encouraged to enroll in ITE 115.
5. A GPA of 2.5 or higher based on a minimum of the 12 most recent college credits or high school units completed by the end of summer semester prior to submitting a nursing application.
6. Completion of required HESI admission assessment exam components scoring at or above the 45th percentile in each required component which includes reading comprehension, anatomy and physiology, math, critical thinking, and the composite score.
 - HESI critical thinking exam learning style and personality profile are also included in the required HESI admission exam.
 - Two attempts on the admission exam are permitted per application cycle.
 - Nursing entrance exams are good for two (2) years only.
7. If current CNA – evidence of a current restricted CNA license.
8. Submit official transcripts from other institutions to LFCC Admissions and Records for evaluation for transfer credit. Another official transcript from the other institutions must be submitted with the application.
9. Admission requirements must be completed by spring application includes remedial work for Math or English.

Upon acceptance to the PN program the student MUST:

- Submit a completed physical history and examination, including immunizations.
- Provide proof of cardio-pulmonary resuscitation (CPR) by the American Heart Association / Healthcare Provider Course.
- Complete a criminal background check and drug screening conducted by the college-designated contractor. The costs of the background check and drug screen are the responsibility of the student. Failure to pass either will prevent student from clinical requirements, which will prevent student from being accepted into PNE course.
- Comply with all rules and guidelines of the LFCC Nursing Student Handbook and the LFCC Student Handbook.
- Sign an agreement which releases all clinical agencies and their employees, Lord Fairfax Community College, The Virginia Community College System and the Commonwealth of Virginia from any liability for any injury or death to the student or damage to his / her property arising out of agreement of use of facilities associated with the nursing program
- Nursing students enrolled in nursing courses are required to show evidence of health insurance and maintain their health insurance throughout the program. Students may purchase health insurance from independent providers.
- Students must comply with all clinical agreement protocols including immunization requirements, drug screening, background checks, and personal health insurance.

PROGRAM REQUIREMENTS:

1. Completion of a minimum of 49 credits with a "C" average or better in all general education and nursing courses, to include the Preceptorship clinical experience in PNE 164.
2. Demonstrate satisfactory attendance and performance in the nursing clinical areas. Virginia Board of Nursing requires at least 400 hours of clinical experience for licensure with a satisfactory grade of "C" or better.
3. Transportation to and from classes and to agencies used for clinical experiences.
4. Student is responsible for all fees charged in purchasing required testing, health insurance, uniforms, books, immunizations, criminal background search and drug screen.

5. Strict adherence to attendance and performance policies for classroom and clinical courses as outlined in the Nursing Student Handbook and LFCC Student Handbook.
6. Must provide own transportation to all clinical sites.

Formal Acceptance into the Practical Nursing Program is required before registering for any of the PNE courses.

The following courses may be completed prior to acceptance into the Practical Nursing Program: SDV 101/100, ENG 111, BIO 145 or BIO 141 and BIO 142 (BIO 141 and BIO 142 are strongly encouraged for nursing students and are required for continuing nursing education), PSY 230, HLT 130.

Pre-Nursing students are strongly encouraged to attend a nursing information sess. Dates are posted on the website <https://lfcc.edu/nursing/>

CURRICULUM

Course No.	Title	Credit(s)
Fall Semester		
BIO 145	Human Anatomy and Physiology for the Health Sciences ¹	4
ENG 111	College Composition I ¹	3
PNE 161	Nursing in Health Changes	6
PNE 174	Applied Pharmacology for Nurses	2
PSY 230	Developmental Psychology ²	3
SDV 101/100	Orientation to Health Professions OR College Success Skills	1
	Total	19
Spring Semester		
HLT 130	Nutrition and Diet Therapy	2
PNE 136	Care of Maternal Newborn and Pediatric Patients	4
PNE 162	Nursing in Health Changes II (this is a pre-requisite for PNE 158, 164, & 175)	11
	Total	17
Summer Semester		
PNE 158	Mental Health / Psychiatric Nursing	2
PNE 164	Nursing in Health Changes IV	10
PNE 175	Introduction to Supervision & Management for Practical Nurses	1
	Total	13
	PROGRAM TOTAL	49

¹. ENG 111, BIO 145 or BIO 141 and BIO 142 are strongly encouraged for nursing student and are required for continuing nursing education.

². PSY 230 must be completed with a "C" or better before enrolling in the Spring semester PNE courses.

NUR 27 – NURSE AIDE I

The course includes both classroom lecture and campus lab skills practice. Following completion of the classroom and campus lab component, students will begin their clinical experience in an area nursing home. The clinical experience in the nursing home will be held during the regularly scheduled class time, plus additional scheduled clinical hours. Students are required by the Virginia Board of Nursing to complete all hours mandated for this course.

LICENSURE / CERTIFICATION: Students who successfully complete the NUR 27 course will receive a Certificate of Completion and may apply to take the National Nurse Aide Assessment Program (NNAAP). The cost of the exam is approximately \$94 and is given at several different locations.

ADMISSION REQUIREMENTS:

1. Application to Lord Fairfax Community College.
2. LFCC placement tests and completion of any developmental work that may be identified by the placement test. Must show competence in MTE 1-3 and readiness for ENG 111 to satisfy requirement without remediation.
3. Required to have a background check and a drug screen. Failure to pass either will prevent students from clinical requirements, which may prevent student from continuing this course. All associated fees are the responsibility of the student.

CURRICULUM

Course No.	Title	Credit(s)
NUR 27	Nurse Aide I	5

AWARD: CAREER STUDIES CERTIFICATE
AREA: PATIENT CARE TECHNICIAN (221-157-07)

This career studies certificate will enhance the skills of a certified nursing assistant (CNA) by learning advanced patient care tasks and support functions necessary in a variety of medical settings.

Students who already possess a nurse aide certification will be awarded five credits for NUR 27. Students who already possess CPR certification will be awarded 1 credit for HLT 105.

Admission Requirement: Students are required to have a background check and a drug screen. Failure to pass either will prevent the students from continuing course. Students must also complete health and physical forms.

CURRICULUM

Course No.	Title	Credit(s)
Fall Semester		
SDV 100/101	College Success Skills <u>or</u> Orientation to Health Professions	1
NUR 27	Nurse Aide I	5
BIO 145/141	Human Anatomy & Physiology for Health Sciences <u>OR</u> Human Anatomy and Physiology I	4
ENG 111	College Composition I	3
HLT 105	Cardiopulmonary Resuscitation	1
	Total	14
Spring Semester		
HCT 115	Medication Administration Training	3
BIO 141/142	Human Anatomy and Physiology I <u>OR</u> Human Anatomy and Physiology II	4
PSY 230	Developmental Psychology	3
	Elective (SOC 200, SOC 207, CST 100, CST 138 or ENG 112)	3
	Total	13
	Program Total	27

AWARD: ASSOCIATE OF APPLIED SCIENCE DEGREE

MAJOR: PRE-FUNERAL SERVICES – *PARTNERSHIP AGREEMENT WITH DEGREE AWARDED BY JOHN TYLER COMMUNITY COLLEGE*

Students who have not completed the following 12 pre-funeral services courses will be admitted to the Funeral Services Program on a provisional basis.¹

CURRICULUM

Course No.	Title	Credit(s)
Required Courses		
ACC 211	Principles of Accounting I	3
BUS 100	Introduction to Business	3
BUS 241	Business Law I	3
CHM 110	Survey of Chemistry	3
ENG 111	College Composition I	3
FNS 121	Anatomy for Funeral Services (Approved Course Sub – BIO 145)	2
ITE 101	Introduction to Microcomputers (Approved Course Sub – any ITE course)	1
PSY 116	Psychology of Death and Dying	3
REL	Religion Elective	3
SDV 100	College Success Skills (Approved Course Sub – SDV 101)	1
SOC 200	Principles of Sociology	3

Milestone: Students who complete the above courses are eligible to apply for full admission into the A.A.S. in Funeral Services Program²

FNS 111	Theory of Embalming I (requires fill admission to FNS Program)	3
FNS 112	Theory of Embalming II (FNS 111 and FNS 113 pre-requisite)	3
FNS 113	Theory of Embalming Laboratory I (requires fill admission to FNS Program)	1
FNS 114	Theory of Embalming Laboratory II (FNS 111 and FNS 113 pre-requisite)	1
FNS 125	Microbiology for Funeral Services (requires fill admission to FNS Program)	3
FNS 126	Pathology for Funeral Services (requires fill admission to FNS Program)	3
FNS 213	Restorative Art (requires fill admission to FNS Program)	3
FNS 214	Restorative Art Technical Applications (FNS 213 pre-requisite)	1
FNS 231	Principles of Funeral Management I (requires fill admission to FNS Program)	4
FNS 232	Principles of Funeral Management II (FNS 231 pre-requisite)	4
FNS 236	Funeral Services Law (requires fill admission to FNS Program)	3
FNS 270	Funeral Services Review (See note 6)	3
FNS 290	Coordinated Internship (See note 6)	1
Total Minimum Credits to Complete		64

¹ General courses and prerequisite courses can be taken in any order.

² Completion of the general education, FNS 110, FNS 121 and CHM 110 courses does not guarantee full admission to the Funeral Services Program (see admission requirements above).

³ The Funeral Services Program at John Tyler Community College is accredited by the American Board of Funeral Service Education (ABFSE), 992 Mantua Pike, Suite 108, Woodbury Heights, NJ 08097, (816) 233-3747; Web <http://www.abfse.org/> and is approved by the State Board of Funeral Directors and Embalmers. The program is also a member of the National Association of Colleges of Mortuary Science.

⁴ In order to receive the Funeral Service license in the Commonwealth of Virginia, an individual must:

- Complete an accredited program of mortuary science of funeral services;
- Pass the National Board Examination for funeral services as administered by the International Conference of Funeral Service Examining with a minimum score of 75 on the Arts Section and 75 on the Science Section;
- Complete a 3000-hour internship with a licensed funeral services provider in the Commonwealth of Virginia as prescribed by the Regulations of the Board of Funeral Directors and Embalmers; and
- Pass the Virginia State Board Examination after completing the educational requirements, the internship, applying and being approved by the Board.

⁵ The annual passage rate of first-time takers on the National Board Examination (NBE) for the most recent three-year period for this institution and all ABFSE accredited funeral service education programs is posted on the ABFSE web site (<http://www.abfse.org/>).

⁶ FNS 270 and FNS 290 can only be taken in the last semester and not without prior approval from the Funeral Services Program department chair.

⁷ For additional information on this program, contact the Division of Mathematics, Natural and Health Sciences at (804) 706-5084 or (804) 594-1500 .

AWARD: ASSOCIATE OF SCIENCE DEGREE
MAJOR: GENERAL STUDIES
SPECIALIZATION: RECREATION AND OUTDOOR LEADERSHIP (697-03) – TRANSFER
FOCUS: THERAPEUTIC RECREATION

Allows students the flexibility of moving into accredited transfer programs in Therapeutic Recreation and Recreation Therapy.

CURRICULUM

Course No.	Title	Credit(s)
First Semester		
SDV 100	College Success Skills	1
ENG 111	College Composition I	3
CST 100	Communications Elective	3
PSY 230	Developmental Psychology	3
BIO 141	Anatomy & Physiology I	4
	Total	14
Second Semester		
ENG 112	College Composition II	3
MTH	Math Elective ³	3
PSY 200	Principles of Psychology	3
BIO 142	Anatomy & Physiology II	4
RPK 120	Outdoor Recreation	3
	Total	16
Third Semester		
PSY 215	Abnormal Psychology	3
RPK 100	Introduction to Parks, Recreation & Leisure Studies	3
RPK 141	Leadership and Supervision	3
PED 183	Outdoor Adventures	1
ITE	Information Literacy Elective	3
HIS	History Elective ²	3
	Total	16
Fourth Semester		
RPK 265	Risk Management	3
RPK 135	Program Planning	3
ENG	Literature Elective ¹	3
	Humanities Elective ¹	3
	Approved Transfer Elective ¹	3
	Total	15
	Program Total	61

¹Electives may be chosen from the approved list in the catalog. Check with your transferring institution.

²Students should check with their transferring institution in order to determine the most appropriate history course(s) to take at LFCC. For students intending to take more than one history course, a sequence beginning by taking HIS 111 or HIS 121 is preferred prior to HIS 112 or HIS 122.

³Students should check with their transferring institution in order to determine the most appropriate math course(s) to take at LFCC.

AWARD: CERTIFICATE
MAJOR: SURGICAL TECHNOLOGY (159)

The Surgical Technology Program of Lord Fairfax Community College (LFCC) is provided in cooperation with Winchester Medical Center and other area hospitals. The 12-month certificate program is academically rigorous and offers educational components in the classroom and clinical laboratory environment.

ACCREDITATION STATUS: The program is accredited by the Commission on Accreditation of Allied Health Education Programs (CAAHEP). **Commission on Accreditation of Allied Health Education Programs**
25400 U.S. Highway 19 North, Suite 158
Clearwater, FL 33763
Phone: (727) 210-2350 Fax: (727) 210-2354

Upon completion of the Surgical Technology Program, the graduate will demonstrate the following entry-level competencies:

- Exhibit professional behaviors and skills in the surgical environment.
- Utilize effective verbal and written communication.
- Exhibit caring interventions to the client and members of the health care team.
- Participate in collaborative care.
- Prepare competent entry-level surgical technologists in the cognitive (knowledge), psychomotor (skills) and effective (behavior) learning domains.
- Prepare students to successfully complete caring and ethical manner when providing patient care.
- Prepare students to successfully complete the Surgical Technology National Certifying Examination.
- Provide the community with professional, competent, desirable employees and entry-level surgical technologists.
- Discuss, demonstrate and apply appropriate surgical technology procedures and protocols in various healthcare settings and situations.
- Correlate the knowledge of anatomy, physiology, pathophysiology and microbiology to their role as a surgical technologist.
- Practice professional, value directed actions, based on didactic and clinical knowledge, ethical principles, and legal standards as members of the surgical team.
- Correlate the elements, action, and use of medications and anesthetic agents used during the perioperative experience.
- Demonstrate the safe practice techniques in regard to perioperative routing, patient transportation, positioning, and emergency procedures.
- Function safely and effectively in the surgical technologist role.
- Promote life-long learning fostering the development of professional and personal growth, critical thinking and leadership.

ADMISSION REQUIREMENTS:

In addition to the general admission requirements established for the College, entry into the Surgical Technology Program requires:

1. Completion of both a LFCC application for admission and a Surgical Technology Program application.
2. High school diploma or GED – official transcripts must be forwarded to the Admissions and Records office at LFCC
3. LFCC placement tests and completion of any developmental work that may be identified by the placement test. Must show competency in MTE 1-5 and readiness for ENG 111 to satisfy requirements without taking remediation.
4. Completion of high school Biology or Biology 1 with a grade of “C” or better.
5. Completion of an operating room observational experience as scheduled by the Surgical Technology clinical instructor.
6. Completion of Physical exam and CPR certification after accepted into the program.
7. Completion of TEAS 5 test.
8. Completion of criminal background search, finger printing, drug screen and physical screening as required to the satisfaction of affiliating clinical agencies.
9. All fees charged for required testing, liability insurance, books, uniforms, criminal background search, drug screen, and physical screen are the responsibility of the students.

Admission to the Surgical Technology Program is on a selective basis. Selection of students is based upon completion of all admission requirements listed above and consideration of the following factors in order of priority:

1. Applicants with previous college experience
 - a. Surgical technology curricular GPA (applicants with curricular GPA below 2.5 will not be considered)
 - b. Science GPA (BIO 141, BIO 142, BIO 150, (applicants with curricular GPA below 2.5 will not be considered)
 - c. Number of curricular courses (including science courses) completed.
2. Applicants with no previous college experience, high school graduates
 - a. GPA (applicants with a high school GPA below 2.5 will not be considered)
 - b. Science GPA (applicants with a high school GPA below 2/5 will not be considered)
3. Applicants with no previous experience – GED holders
 - a. Overall GED test score (applicants with an overall score of less than 58 will not be considered)
 - b. Science GED test score (applicants with an overall score of less than 58 will not be considered)

Applicants with high school GPAs below 2.5, or GED test scores below 58 are encouraged to enroll in the curricular general education courses to demonstrate ability to satisfactorily complete college-level work. These applicants will then be evaluated as “applicants with previous college work.”

All admission requirements must be completed prior to the selection process. In all cases, the recommendation of the admission committee is the final determinant for admission to the Surgical Technology Program.

PROGRAM REQUIREMENTS

1. Completion of a physical examination for surgical technology students, including an eye examination and required immunizations. Students must be free of any physical and/or mental condition that might adversely affect their performance as surgical technologists. (Forms are mailed with letter of acceptance.)
2. Students must have current Certification in Cardiopulmonary Resuscitation (American Heart Association Health Care Provider Course). A copy of the CPR card must be provided to program faculty at the start of the fall term
3. Demonstrate satisfactory attendance and performance in the classroom and clinical areas.
4. Be responsible for transportation to classes and to facilities used for clinical experience.
5. Completion of all course requirements with a “C” average or better.
6. Courses are to be completed sequentially.
7. Signed release and receipt forms as required throughout the program.
8. Successful completion of the National Certification Examination with a pass rate as required by MBSTSA (National Board of Surgical Technology and Surgical Assisting) to be a Certified Surgical Technologist at program completion.

CURRICULUM

Course No.	Title	Credit(s)
First Semester		
HIM 111	Medical Terminology	3
BIO 141	Human Anatomy and Physiology I	4
SUR 140	Introduction to Surgical Care	4
SUR 145	Fundamentals of Surgical Care I	4
	Total	15
Second Semester		
BIO 142	Human Anatomy and Physiology II	4
SUR 250	Surgical Pharmacology	2
SUR 210	Surgical Procedures	8
SDV 101	Orientation to Health Professions ¹	1
	Total	15
Third Semester		
ENG 111	College Composition I	3
BIO 150	Introductory Microbiology	4
SUR 260	Surgical Technology Clinical Practicum	6
SUR 296	On-Site Training *	3
	Total	16
	PROGRAM TOTAL	46

¹. SDV 100 may be substituted for SDV 101.

* Surgical Technology students must have 120 documented cases to complete the program. 80 of those cases must be in the first scrub role and 40 of those cases in the second scrub role.

AWARD: ASSOCIATE OF APPLIED SCIENCE DEGREE
MAJOR: HEALTH INFORMATION MANAGEMENT (152)

Designed to provide training in the management of systems to collect, interpret and analyze patient data and to communicate information related to the research, planning, provision and evaluation of every day operations in health care services. Additionally, students gain skills to manage positions related to the functions. This program is beneficial to individuals who are seeking career advancement and eligibility for the national certifying examination – Registered Health Information Technician (RHIT). Occupational objectives upon completion of this program include: Health Information (Medical Records) Assistant/Technician, Medical Coder, Coding Manager/Supervisor, Health Information Supervisor/Office Manager, Clinical Documentation Improvement Specialist, Privacy Officer, Health Data Analyst.

ACCREDITATION: The Health Information Management (HIM) associate degree is accredited by the Commission on Accreditation for Health Informatics and Information Management Education (CAHIIM).

CURRICULUM

Course No.	Title	Credit(s)
Fall Semester		
BIO 145	Human Anatomy and Physiology for the Health Sciences ¹	4
ENG 111	College Composition I	3
HIM 111	Medical Terminology I	3
HIM 141	Fundamentals of Health Information Systems I	3
SDV 101	Orientation to Health Information Management ²	1
ITE 115	Introduction to Computer Applications	3
	Total	17
Spring Semester		
HIM 112	Medical Terminology II	3
HIM 130	Healthcare Information Systems ³	3
HIM 226	Legal Aspects of Health Records	2
HIM 250	Health Data Classification System I	4
HIM 110	Introduction to Human Pathology	3
	Total	15
Fall Semester		
HIM 249	Supervision and Management Practices	3
HIM 230	Information Systems and Technology in Healthcare	
OR		3
ITE 120	Principles of Information Systems	
HIM 255	Health Data Classification System II (CPT)	2
HIM 231	Health Records Applications I	3
PED/HLT	Physical Education or Health	1
	Social Science Elective ⁴	3
	Total	15
Spring Semester		
AST 206	Professional Development	3
HIM 229	Performance Improvement in Health Care Settings	2
HIM 232	Health Records Application II: Advanced Coding	3
HIM 220	Health Statistics	2
HIM 290	Coordinated Internship ⁵	3
	Humanities Elective ⁴	3
	Total	16
	PROGRAM TOTAL	63

¹ BIO 141/142 Human Anatomy and Physiology I/II may be substituted for BIO 145.

² Course MUST be taken in the first semester. May also take SDV 100.

³ Prerequisite: ITE 115 *strongly recommended before* HIM 130.

⁴ See list of approved electives.

⁵ Prerequisite: Instructor permission required; all HIM core courses must be **successfully** completed with a grade of "C" or better prior to coordinated internship. Most sites require a criminal background check, flu-shot, and proof of immunizations. All associated fees are the responsibility of the student.

AWARD: CERTIFICATE
MAJOR: MEDICAL ADMINISTRATIVE ASSISTANT / TRANSCRIPTION/SCRIBE (286)

Prepares students for employment and career advancement in medical office assistant, medical secretary and medical scribe positions in the medical/health professions.

Certification: Students enrolled in the program may apply for the Certified Medical Scribe Apprentice "CMSA" exam (at the student's expense).

Program Requirements: This program requires students to enter with the following requisite skills:

- Demonstrated minimum keyboarding skill of 40 wpm. AST 80 and/or AST 81 may be taken as developmental keyboarding skills classes.

CURRICULUM

Course No.	Title	Credit(s)
Fall Semester		
BIO 145	Human Anatomy and Physiology for the Health Sciences ¹	4
ENG 111	College Composition I	3
HIM 111	Medical Terminology I	3
SDV 101/100	Orientation to Health Professions <u>OR</u> College Success Skills	1
	Total	11
Spring Semester		
AST 141	Word Processing I	3
HIM 110	Introduction to Human Pathology	3
HIM 112	Medical Terminology II ²	3
HIM 130	Healthcare Information Systems	3
	Total	12
Summer Semester		
AST 142	Word Processing II ³	3
AST 245	Medical Machine Transcription ⁴	3
HIM 260	Pharmacology for HIT	2
HIM 298	Seminar and Project	1
	Total	9
	PROGRAM TOTAL	32

¹ Equivalent: Completion of BIO 141 and BIO 142.

² Prerequisite: HIM 111.

³ Prerequisite: AST 141

⁴ Prerequisite: AST 141, HIM 112, BIO 145 (or BIO 141 and BIO 142)

AWARD: CERTIFICATE
MAJOR: MEDICAL BILLING/CODING (285)

This certificate prepares students to fill medical billing and coding positions, such as medical billing assistant, medical coder or medical insurance specialist. Provides fundamental knowledge and skills associated with insurance billing and coding. The curriculum include courses in college composition, medical coding and reimbursement and medical office booking and insurance.

CERTIFICATION: Students enrolled in the program may apply for the Certified Coding Associate “CCA” exam (suggested) or the Certified Coding Specialist “CSC” exam through AHIMA (at the student’s expense).

PROGRAM REQUIREMENTS: This program requires students to enter with the following requisite skills:

- Demonstrated minimum keyboarding skill of 40 wpm. AST 80 and/or AST 81 may be taken as developmental keyboarding skills classes.
- Prior to student internships or student employment, satisfactory completion of criminal background check and drug screen would be required.

CURRICULUM

Course No.	Title	Credit(s)
Fall Semester		
BIO 145	Human Anatomy and Physiology for the Health Sciences ¹	4
ENG 111	English Composition I	3
HIM 111	Medical Terminology I	3
SDV 101/100	Orientation to Health Information Management <u>OR</u> College Success Skills	1
	Total	11
Spring Semester		
HIM 110	Introduction to Human Pathology	3
HIM 112	Medical Terminology II ²	3
HIM 130	Healthcare Information Systems	3
HIM 253	Health Records Coding ⁵	4
	Total	13
Summer Semester		
HIM 143	Managing Electronic Billing ⁴	3
HIM 254	Advanced Coding and Reimbursement ⁵	4
HIM 298	Seminar and Project ⁶	1
	Total	8
	PROGRAM TOTAL	32

¹ Equivalent: Completion of BIO 141 and BIO 142.

² Prerequisite: HIM 111.

³ Prerequisite: HIM 111 and BIO 145 (or BIO 141 and BIO 142).

⁴ Prerequisite: HIM 253.

⁵ Prerequisite: HIM 112 and HIM 253.

⁶ Capstone course for final semester.

AWARD: CAREER STUDIES CERTIFICATE
AREA: HEALTHCARE TECHNOLOGY SPECIALIST (221-152-15)

Individuals in this technical role provide on-site user support for implementation and maintenance of health IT systems in healthcare setting such as hospitals, physician practices and outpatient clinics. It is recommended that individuals interested in this role have a degree or certificate and at least six-months experience in information technology, information management or informatics.

CERTIFICATION: Students enrolled in the program may apply for the Certified Healthcare Technology Specialist (CHTS) exam through the American Health Information Management Association (AHIMA) (at the student's expense).

PROGRAM REQUIREMENTS: This program requires students to enter with the following requisite skills:

- Demonstrated minimum keyboarding skill of 30 wpm. AST 80 and/or 81 may be taken as developmental keyboarding skills classes.

CURRICULUM

Course No.	Title	Credit(s)
First Semester		
HIM 141	Fundamentals of Health Information Systems I	3
HIM 226	Legal Aspects of Health Records	2
HIM 230	Information Systems and Technology in Healthcare	3
ITD 130	Database Fundamentals ¹	3
	Total	11
Second Semester		
HIM 130	Healthcare Information Systems	3
HIM 229	Performance Improvement in Healthcare ²	2
HIT 298	Seminar and Project ³	2
ITN 107	Personal Computer Hardware and Troubleshooting	3
	Total	10
	Program Total	21

¹ Pre-req: ITE 115 or equivalent skill strongly recommended.

² Pre-req: HIM 226.

³ To be taken in last term.

AWARD: CAREER STUDIES CERTIFICATE
AREA: HOSPITAL FACILITY CODING (221-152-02)

This program prepares individuals for employment and career advancement in inpatient and ambulatory surgery coding positions (such as: hospital facility coding specialist, medical coding assistant, medical billing specialist or medical insurance coding specialist).

CERTIFICATION: Students enrolled in the program may apply for the AHIMA CCS exam (at the student's expense).

ADMISSION REQUIREMENTS: This program has specific admission requirements and is selective and competitive. All admission requirements must be met before being considered in the selection process. In all cases, the recommendation of the selection committee is the final determinant for admission to the Hospital Facility Coding program.

- Completed LFCC application for admission.
- Completed LFCC placement tests or other required development course work.
- Completed (graduate of) Medical Billing/Coding certificate program and/or hold an active CPC (AAPC) or CCA certification (AHIMA).
- Completed application for admission to the Hospital Facility Coding program, including transcripts of all post-secondary courses attempted and/or completed.
- Demonstrated minimum keyboarding skill of 40 wpm.
- Proficiency in computer applications (i.e.; Microsoft Office)
- Documentation of two years' coding work experience, validated by supervisors.

CURRICULUM

Course No.	Title	Credit(s)
Fall Semester		
HIM 110	Introduction to Human Pathology ¹	3
HIM 141	Fundamentals of Health Information Systems I	3
	Total	6
Spring Semester		
HIM 250	Health Data Classification Systems I ²	4
HIM 130	Healthcare Information Systems	3
	Total	7
Summer Semester		
HIM 298	Seminar and Project ¹	1
HIM 232	Health Records Application II ³	3
	Total	4
	PROGRAM TOTAL	17

¹ Prerequisite courses in this program are waived.

² Readiness for ENG 111; Pre or Co-requisite: HIM 112

³ Instructor approval required.

AWARD: CAREER STUDIES CERTIFICATE
AREA: MEDICAL OFFICE ADMINISTRATION (221-285-93)

This program prepares students for entry-level administrative (clerical) positions within healthcare facilities. Employers may require satisfactory completion of criminal background check and drug screen.

CERTIFICATION: Students enrolled in the program may apply for the National Health Career Association's Certified Medical Administrative Assistant (CMA) exam (at the student's expense).

PROGRAM REQUIREMENTS: This program requires students to enter with the following requisite skills:

- Demonstrated minimum keyboarding skill of 40 wpm. AST 80 and/or AST 81 may be taken as developmental keyboarding skills classes.

CURRICULUM

Course No.	Title	Credit(s)
First Semester		
AST 141	Word Processing I	3
HIM 111	Medical Terminology I	3
SDV 101	Orientation to HIM or Health Professions	1
Second Semester		
HIM 112	Medical Terminology II	3
AST 243/271	Office Administration I OR Medical Office Procedures	3
HIM 130	Healthcare Information Systems	3
PROGRAM TOTAL		16

*Humanities
and
Art*

AWARD: ASSOCIATE OF ARTS AND SCIENCES

AREA: LIBERAL ARTS (650) – TRANSFER

Designed for students who plan to transfer to a four-year institution to complete a baccalaureate degree program, usually the bachelor of arts degree, in the liberal arts or social sciences. Students in the program may wish to major in the following fields: American studies, anthropology, art, communication, economics, English, geography, government, history, humanities, journalism, library sciences, literature, music, philosophy, pre-law, psychology, religion, sociology or theatre arts.

CURRICULUM

Course No.	Title	Credit(s)
First Semester		
SDV 100	College Success Skills	1
ENG 111	College Composition I	3
MTH	Mathematics Elective ¹	3
CST	Communications Elective ¹	3
ITE	Information Literacy Elective ¹	3
	Physical Education or Health	1
	Total	14
Second Semester		
ENG 112	College Composition II	3
HIS	History Elective ¹	3
	Fine Arts Elective ¹	3
	Social Science Elective ¹	3
	Humanities Elective ¹	3
	Total	15
Third Semester		
ENG	Literature Elective ¹	3
	Science with Laboratory ^{1,3}	4
	Humanities Elective ¹	3
	Social Science Elective ¹	3
	Foreign Language Elective ¹	3-4
	Total	16-17
Fourth Semester		
	Science with Laboratory ^{1,3}	4
	Global Studies Elective ¹	3
	Foreign Language Elective ¹	3-4
	Approved Transfer Elective ²	3
	Approved Transfer Elective ²	3
	Total	16-17
	PROGRAM TOTAL	61-63

¹ Students may select an elective from the approved list. Students seeking a Bachelor of Arts degree are advised that a Philosophy course is recommended.

² Students should check with the institution to which they are transferring in order to determine the most appropriate transfer course(s) to take at LFCC.

³ Check with an advisor to see if a sequence is recommended.

AWARD: ASSOCIATE OF ARTS AND SCIENCES
AREA: LIBERAL ARTS
SPECIALIZATION: FINE ARTS (650-04) – TRANSFER

Designed for students who plan to transfer to a four-year institution to complete a baccalaureate degree program, usually the bachelor of arts degree, in visual arts or related fields that would necessitate a studio art experience.

CURRICULUM

Course No.	Title	Credit(s)
First Semester		
SDV 100	College Success Skills	1
ENG 111	College Composition I	3
MTH	Mathematics Elective ¹	3
CST	Communications Elective ¹	3
ITE	Information Literacy Elective ¹	3
	Physical Education <u>OR</u> Health	1
	Total	14
Second Semester		
ENG 112	College Composition II	3
HIS	History Elective ¹	3
ART 121	Drawing I	3
	Social Science Elective ¹	3
	Humanities Elective ¹	3
	Total	15
Third Semester		
ENG	Literature Elective ¹	3
	Science with Laboratory ^{1,3}	4
	Fine Arts Elective ⁴	3
	Fine Arts Elective ⁴	3
	Foreign Language Elective ⁴	3-4
	Total	16-17
Fourth Semester		
	Science with Laboratory ^{1,3}	4
	Global Studies Elective ¹	3
	Foreign Language Elective ⁴	3-4
	Fine Arts Elective ⁴	3
	Fine Arts Elective ⁴	3
	Total	16-17
	PROGRAM TOTAL	61-63

¹ Students may select an elective from the approved list in catalog.

² Students should check with the institution to which they are transferring in order to determine the most appropriate transfer course(s) to take at LFCC.

³ A one-year sequence of biology, chemistry, geology or physics is recommended. However, depending on the requirements of four-year institutions, two one-semester courses in different sciences may be substituted with advisor approval.

⁴ Students may select a fine arts elective from the approved list.

AWARD: ASSOCIATE OF ARTS AND SCIENCES
AREA: LIBERAL ARTS
SPECIALIZATION: COMMUNICATIONS (650-02) – TRANSFER

Designed for students who plan to transfer to a four-year institution to complete a baccalaureate degree program, usually the bachelor of arts degree, in communications or related fields. Students in the communications specialization may wish to major in the following fields: communication, creative writing, journalism, mass media, popular culture, radio and telecommunications, speech or theatre arts.

CURRICULUM

Course No.	Title	Credit(s)
First Semester		
SDV 100	College Success Skills	1
ENG 111	College Composition I	3
MTH	Mathematics Elective ¹	3
CST 100	Principles of Public Speaking	3
ITE	Information Literacy Elective ¹	3
	Physical Education <u>OR</u> Health	1
	Total	14
Second Semester		
ENG 112	College Composition II	3
HIS	History Elective ¹	3
	Communications Elective ²	3
	Social Science Elective ¹	3
	Humanities Elective ¹	3
	Total	15
Third Semester		
ENG	Literature Elective ¹	3
	Science with Laboratory ^{1,3}	4
CST	Communications Elective ²	3
	HIS/PLS Elective ¹	3
	Foreign Language Elective ¹	3
	Total	16
Fourth Semester		
	Science with Laboratory ^{1,3}	4
	Global Studies Elective ¹	3
	Foreign Language Elective ¹	3
CST	Communications Elective ²	3
CST	Communications Elective ²	3
	Total	16
	PROGRAM TOTAL	61

¹ Students may select an elective from the approved list in catalog.

² The following courses may be used as communication electives: ENG 121, ENG 122, ENG 211, ENG 212, CST (any course).

³ A one-year sequence of biology, chemistry, geology or physics is recommended. However, depending on the requirements of four-year institutions, two one-semester courses in different sciences may be substituted with advisor approval.

AWARD: CAREER STUDIES CERTIFICATE
AREA: AMERICAN SIGN LANGUAGE (221-640-65)

This certificate program introduce students to sign language: basic vocabulary, finger spelling and an understanding of deaf culture. Completion of this program provides introductory knowledge in preparation for ASL degree programs and career paths providing services for the deaf in a variety of educational and work settings.

CURRICULUM

Course No.	Title	Credit(s)
ASL 101	American Sign Language I	3
ASL 102	American Sign Language II	3
ASL 201	American Sign Language III	3
ASL 202	American Sign Language IV	3
ASL 125	History and Culture of the Deaf Community	3
	Elective (any ASL or INT course) ¹	2-3
	Total	17-18

¹ Students may select an elective from the approved list in catalog.

Recreation And Wellness

AWARD: ASSOCIATE OF SCIENCE DEGREE

MAJOR: GENERAL STUDIES

SPECIALIZATION: RECREATION AND OUTDOOR LEADERSHIP (697-03) – TRANSFER

Allows students the flexibility of moving into transfer programs in parks and outdoor recreation, sports management, tourism and events management, therapeutic recreation and similar fields of study.

CURRICULUM

Course No.	Title	Credit(s)
First Semester		
ENG 111	College Composition I	3
HIS	History Elective ^{1,2}	3
MTH	Mathematics Elective ¹	3
SDV 100	College Success Skills	1
ITE	Information Literacy Elective ¹	3
RPK 100	Introduction to Recreation, Parks and Leisure Studies	3
	Total	16
Second Semester		
ENG 112	College Composition II	3
	Social Science Elective ¹	3
	Approved Transfer Elective ¹	3
RPK 120	Outdoor Recreation	3
RPK 265	Risk Management	3
	Total	15
Third Semester		
	Social Science Elective ¹	3
	Science with Laboratory Elective ⁴	4
RPK 141	Leadership and Supervision	3
PED 183	Outdoor Adventures	1
	Approved Transfer Elective ¹	3
	Total	14
Fourth Semester		
CST	Communication Elective ¹	3
	Science with Laboratory Elective ⁴	4
	Humanities Elective ¹	3
ENG	Literature Elective ¹	3
RPK 135	Program Planning	3
	Total	16
	Program Total	61

¹ Electives may be chosen from the approved list in catalog. PSY 200, PSY 215 and PSY 230 may be needed for those entering Therapeutic Recreation. Check with your transferring institution.

² Students should check with their transferring institution in order to determine the most appropriate history course(s) to take at LFCC. For students intending to take more than one history course, a sequence beginning by taking HIS 111 or HIS 121 is preferred prior to HIS 112 or HIS 122.

³ Students should check with their transferring institution in order to determine the most appropriate math course(s) to take at LFCC.

⁴ BIO 141/142 may be needed for Therapeutic Recreation. Check with your transfer institution. A one-year sequence of biology, chemistry, geology or physics is recommended. However, depending on the requirements of four-year institutions, two one-semester courses in different sciences may be substituted with advisor approval.

AWARD: CAREER STUDIES CERTIFICATE
AREA: RECREATION AND OUTDOOR LEADERSHIP (221-459-01)

This certificate program will offer students the opportunity to pair the program with associate degrees in complementary fields (business, tourism, hospitality, biology, etc.)

CURRICULUM

Course No.	Title	Credit(s)
Fall Semester		
RPK 100	Introduction to Recreation, Parks and Leisure Studies	3
RPK 141	Leadership and Supervision	3
PED 183	Outdoor Adventures	1
	Total	7
Spring Semester		
RPK 120	Outdoor Recreation	3
RPK 265	Risk Management	3
RPK 135	Program Planning	3
	Total	9
	PROGRAM TOTAL	18

AWARD: CAREER STUDIES CERTIFICATE
AREA: PERSONAL TRAINING AND GROUP EXERCISE LEADERSHIP (221-460-05)

This career studies certificate program helps prepare students for employment in the fitness industry as a personal trainer, aerobics instructor, group exercise instructor or similar positions as well as to continue in various fitness and health promotion education programs at a four-year institution. Upon completion of this program occupational objectives include personal trainer, aerobics instructor, group exercise instructor.

CURRICULUM

Course No.	Title	Credit(s)
Fall Semester		
BIO 145/141	Anatomy and Physiology for the Health Sciences <u>OR</u> Anatomy and Physiology I ¹	4
PED 111	Weight Training	2
HLT 116	Introduction to Personal Wellness Concepts	2
PED	PED Elective(s) ²	1
	Total	9
Spring Semester		
HLT 206	Exercise Science	3
PED	PED Elective(s) ²	1
HLT 230	Principles of Nutrition of Human Development	3
BIO 142	Anatomy and Physiology II ³ (optional)	4
PED 298	Seminar and Project ⁴	1
	Total	8-12
	PROGRAM TOTAL	17-21

¹ Students planning to transfer to a 4-year institution are advised to take BIO 141 and BIO 142.

² Students may choose to take two one-credit courses or one two-credit PED courses to fulfill the elective requirements.

³ BIO 142 in spring semester is only needed for those students transferring to a four-year institution.

⁴ This is the capstone course for the program so all other classes must be completed or enrolled in. Instructor permission is required.

AWARD: CAREER STUDIES CERTIFICATE
AREA: NATURE AND OUTDOOR PHOTOGRAPHY (221-502-84)

This certificate program introduces students to the skills and camera techniques appropriate for photographing nature and wildlife. Upon completion of this program occupational objectives include photographer's assistant and/or portfolio enhancement.

CURRICULUM

Course No.	Title	Credit(s)
PHT 107	Nature Photography	3
PHT 216	Wildlife Photography ¹	3
PHT 227	Photographic Careers	3
	Approved Electives	6
	PROGRAM TOTAL	15

¹ Prerequisite for PHT 216 is PHT 107 or instructor approval.

² Approved electives include NAS 160 or courses with ART, BIO or PHT prefixes.

Science and Agriculture

AWARD: ASSOCIATE OF SCIENCE DEGREE

MAJOR: SCIENCE (880)

Designed for persons interested in pre-professional scientific programs who plan to transfer to a four-year college or university to complete a baccalaureate or higher degree program with major in one of the following fields: agriculture, astronomy, biology, biochemistry, biotechnology, botany, chemistry, computer science, dentistry, engineering, entomology, environmental science, forestry, genetics, geology, home economics, horticulture, marine biology, mathematics, meteorology, medicine, nuclear science, pre-pharmacy, physics, science education, veterinary medicine, wildlife biology or zoology.

CURRICULUM

Course No.	Title	Credit(s)
First Semester		
ENG 111	College Composition I	3
IT/CS	Computer Elective ¹	3
MTH	Mathematics Elective ²	3
SDV 100	College Success Skills	1
	Science with Laboratory ^{1,3}	4
	Total	14
Second Semester		
ENG 112	College Composition II	3
HIS	History Elective ¹	3
MTH	Mathematics Elective ²	3
	Science with Laboratory ^{1,3}	4
	Approved STEM Elective ¹	3-4
	Total	16-17
Third Semester		
ENG	Literature Elective ¹	3
	Social Science Elective ¹	3
PED/HLT	Physical Education OR Health ¹	1
	Science with Laboratory ^{1,3}	4
	Approved STEM Elective ¹	3-4
	Total	14-15
Fourth Semester		
CST	Communication Elective ¹	3
	Social Science Elective ¹	3
	Science with Laboratory ^{1,3}	4
	Humanities/Fine Arts Elective ¹	3
	Approved Transfer Elective ¹	3
	Total	16
	PROGRAM TOTAL	60-62

¹ Electives may be chosen from the approved list in catalog. Students should check with the institution to which they will be transferring to determine the most appropriate courses to take at LFCC.

² Must be MTH 161 or higher. Students should check with the institution to which they will be transferring to determine the most appropriate courses to take at LFCC.

³ A full-year sequence of science with lab is required each year, one of which must be chemistry or physics.

AWARD: ASSOCIATE OF SCIENCE DEGREE
MAJOR: SCIENCE
SPECIALIZATION: AGRICULTURE SCIENCE (880-01)

Designed for persons interested in agriculture programs who plan to transfer to an agriculture program such as nutritionist, pre-veterinary, agricultural scientist, agroecologist, biotechnologist or other agriculture and life science programs.

CURRICULUM

Course No.	Title	Credit(s)
First Semester		
ENG 111	College Composition I	3
IT/CS	Computer Elective ¹	3
MTH	Mathematics Elective ²	3
SDV 100	College Success Skills	1
	Science with Laboratory ³	4
	Total	14
Second Semester		
ENG 112	College Composition II	3
HIS	History Elective ¹	3
MTH	Mathematics Elective ²	3
	Science with Laboratory ³	4
AGR 141	Introduction to Animal Science and Technology	4
	Total	17
Third Semester		
ENG	Literature Elective ⁴	3
	Social Science Elective ^{1,5}	3
PED/HLT	Physical Education or Health ¹	1
AGR 142	Introduction to Plant Science and Technology ⁴	3
	Science with Laboratory ³	4
	Total	14
Fourth Semester		
CST	Communication Elective ¹	3
	Social Science Elective ^{1,5}	3
	Science with Laboratory ³	4
	Humanities/Fine Arts Elective ¹	3
AGR 143	Introduction to Agribusiness and Financial Management	3
	Total	16
	PROGRAM TOTAL	61

¹ Electives may be chosen from the approved list in catalog. Students should check with the institution to which they will be transferring to determine the most appropriate courses to take at LFCC.

² Must be MTH 161 or higher. Students should check with the institution to which they will be transferring to determine the most appropriate courses to take at LFCC.

³ A full sequence of science with lab is required each year, one of which must be chemistry of physics.

⁴ AGR 142 offered summer only.

⁵ Students should check with their transfer institution as Economics may be required.

*Social Sciences
And
Human Behavior*

AWARD: ASSOCIATE OF ARTS AND SCIENCES DEGREE
MAJOR: GENERAL STUDIES
SPECIALIZATION: HUMAN SERVICES (697-02)

Allows students the flexibility of moving into transfer programs into psychology, social work, human services, sociology and other fields. Occupational titles, depending on educational achievement, of human service workers may include Case Worker, Case Management Aide, Eligibility Counselor, Social Service Aide, Probation Officer, Mental Health Counselor or Crisis Intervention Manager.

CURRICULUM

Course No.	Title	Credit(s)
First Semester		
SDV 100	College Success Skills	1
ENG 111	College Composition I	3
	Mathematics Elective ^{1,3}	3
ITE	Information Literacy Elective ¹	3
PED/HLT	Physical Education <u>OR</u> Health	1
HMS 100	Introduction to Human Services	3
	Total	14
Second Semester		
ENG 112	College Composition II	3
HIS	History Elective ^{1,2}	3
HMS 121	Basic Counseling Skills I	3
CST	Communication Elective ¹	3
	Social Science Elective ¹	3
	Total	15
Third Semester		
ENG	Literature Elective ¹	3
	Science with Laboratory ^{1,4}	4
	Human Services Elective ^{1,5}	3
	Social Science Elective ^{1,6}	3
	Humanities Elective	3
	Total	16
Fourth Semester		
	Science with Laboratory ^{1,4}	4
	Social Science Elective ^{1,6}	3
	Approved Transfer Elective ¹	3
	Human Services Elective ⁵	3
HMS 290	Coordinated Internship ⁷	3
	Total	16
	PROGRAM TOTAL	61

¹ Students may select electives from the approved list of electives in catalog. Students should check with the institution to which they are transferring in order to determine the most appropriate transfer courses to take at LFCC.

² For students intending to take more than one history course, a sequence beginning by taking HIS 111 or HIS 121 is preferred prior to HIS 112 or HIS 122.

³ Students interested in pursuing a Bachelor of Science degree in human services areas like psychology, social work and counseling may need a statistics course (MTH 245) for transfer.

⁴ A one full sequence of biology, chemistry, geology or physics is recommended. However, depending upon the requirements of four-year institutions, two one-semester courses in different sciences may be substituted with advisor approval. For Social Work transfer students, BIO 101 is recommended as one of the required lab courses.

⁵ Recommended Human Services electives include HMS 141, ADJ 100, ADJ 105, ADJ 107, ADJ 140, SOC 211, SOC 215, SOC 225, SOC 226, SOC 268, PSY 215, PSY 230. Students are advised to meet with an academic or faculty advisor for optimum course selection for desired major and transfer institution. For Social Work, recommendations include PSY 215, PSY 230, SOC 268 or SOC 211. For Psychology, recommendations include PSY 215 and PSY 230.

⁶ Recommended Social Science electives include SOC 200 or PSY 200.

⁷ Admission to this coordinated internship requires completion of a minimum of 24 college credits that must include the following courses with a grade of C or better: ENG 111, HMS 100, HMS 121 and two SOC and/or PSY electives. **Students will be required to purchase a basic background check for admission to the Coordinated Internship, HMS 290, and may be required by participating agencies to complete additional background screenings.** Additionally, students must interview with the HMS program lead and complete the procedure outlined in the HMS Internship Handbook prior to enrollment in this course.

*Trades,
Advanced
Manufacturing
And
Industrial
Maintenance*

AWARD: ASSOCIATE OF APPLIED SCIENCE DEGREE
MAJOR: GENERAL ENGINEERING TECHNOLOGY
SPECIALIZATION: INDUSTRIAL ELECTRICITY AND CONTROLS TECHNOLOGY (968-06)

Provides educational opportunities for those seeking employment in the many manufacturing industries and businesses, which need individuals trained in basic electrical applications, including the control of machinery and processes. It is also appropriate for those attempting to upgrade their knowledge or acquire practical skills. Upon completion of this program occupational objectives include electrical apprentice, electrician, electrician's helper, industrial electrician, journeyman or other related positions.

CURRICULUM

Course No.	Title	Credit(s)
First Semester		
EGR 110	Engineering Graphics	3
ELE 133	Practical Electricity I	3
ENG 111	College Composition I	3
MEC 111	Materials for Industry	3
MTH	Approved Math Elective ¹	3
SDV 100	College Success Skills	1
	Total	16
Second Semester		
CAD 241	Parametric Solid Modeling I	3
EGR 216	Computer Methods in Engineering and Technology	3
ELE 134	Practical Electricity II	3
ENG 112/115	College Composition II <u>OR</u> Technical Writing	3
MEC 112	Processes of Industry	3
MTH	Approved Math Elective ¹	3
	Total	18
Third Semester		
EGR 206	Engineering Economics	3
ELE 159	Practical Motors	3
PED/HLT	Physical Education or Healthy	1
	Humanities Elective ²	3
	Social Science Elective ²	3
	Technical Elective ³	3
	Total	16
Fourth Semester		
ELE 135/137	National Electrical Code-Residential <u>OR</u> National Electrical Code-Industrial	3
ELE 156	Electrical Control Systems	3
IND 145	Introduction to Metrology	3
	Social Science Elective ²	3
	Technical Elective ³	3
	Total	15
	PROGRAM TOTAL	65

¹ Approved higher level math courses include MTH 130/131, MTH 161/162, 161/261, MTH 261/262 and MTH 263/264.

² Students may select social science/humanities electives from the list of approved electives in catalog.

³ Student may select technical electives from approved general engineering technology/technical electives by specialization list.

AWARD: ASSOCIATE OF APPLIED SCIENCE DEGREE
MAJOR: GENERAL ENGINEERING TECHNOLOGY
SPECIALIZATION: TECHNICAL OPERATIONS (968-07)

Provides educational opportunities for those who are or those that seek to be employed in the many manufacturing industries and businesses, which need individuals trained in basic electrical applications, including the control of machinery and processes. It is also appropriate for those attempting to upgrade their knowledge or acquire practical skills. Upon completion of this program occupational objectives include electrical apprentice, electrician, electrician's helper, industrial electrician, journeyman or other related positions.

CURRICULUM

Course No.	Title	Credit(s)
First Semester		
EGR 110	Engineering Graphics	3
ENG 111	College Composition I	3
MEC 111	Materials for Industry	3
MTH	Approved Math Elective ¹	3
SDV 100	College Success Skills	1
	Technical Elective ³	3
	Total	16
Second Semester		
CAD 241	Parametric Solid Modeling I	3
EGR 216	Computer Methods in Engineering and Technology	3
ENG 112/115	College Composition II <u>OR</u> Technical Writing	3
MEC 112	Processes of Industry	3
MTH	Approved Math Elective ¹	3
	Technical Elective ³	3
	Total	18
Third Semester		
CAD 242	Parametric Solid Modeling II	3
EGR 206	Engineering Economics	3
PED/HLT	Physical Education <u>OR</u> Health	1
	Social Science Elective ²	3
	Technical Elective ³	3
	Technical Elective ³	3-4
	Total	16-17
Fourth Semester		
IND 145	Introduction to Metrology	3
	Social Science Elective ²	3
	Technical Elective ³	3
	Technical Elective ³	3-4
	Humanities Elective ²	3
	Total	15-16
	PROGRAM TOTAL	65-67

¹ Approved higher level math courses include MTH 130/131, MTH 161/162, MTH 161/261, MTH 261/262 and MTH 263/264.

² Students may select social science/humanities electives from the list of approved electives in catalog.

³ Student may select technical electives from approved general engineering technology/technical electives by specialization list.

AWARD: CAREER STUDIES CERTIFICATE
AREA: BASIC ELECTRICAL TECHNICIAN (221-941-02)

Exposes students to theory and applications related to electrical systems. The occupational objective of this certificate is to prepare students for entry-level positions in the electrical field.

This certificate can be completed in two semesters if the following conditions are met:

- ❖ Students are willing to enroll in day and evening classes.
- ❖ Students must take classes in the semesters they are listed.

CURRICULUM

Course No.	Title	Credit(s)
Fall Semester		
ELE 133	Practical Electricity I	3
ELE 135	National Electrical Code – Residential	3
SDV 100/101	College Success Skills <u>OR</u> Orientation to Trades	1
	Total	7
Spring Semester		
ELE 134	Practical Electricity II	3
ELE 137	National Electrical Code – Industrial	3
ELE 190	Coordinated Internship <u>OR</u> Technical Elective (AIR, ELE or ITE 115)	3
	Total	9
	PROGRAM TOTAL	16

AWARD: CAREER STUDIES CERTIFICATE
AREA: ELECTRICAL CONTROL TECHNICIAN - INTERMEDIATE (221-941-04)

Allows students to obtain a second career studies certificate, complementing the first CSC Electrical Technician Basic, thus enabling students to become more employable. Upon completion of this certificate the occupational objectives include equipment designer, product development, engineering technician, product engineer, assembler and other positions.

CURRICULUM

Course No.	Title	Credit(s)
Fall Semester		
*ELE 159	Electrical Motors	3
ELE 134	Practical Electricity II* <u>OR</u> Elective	3
ELE 239	Programmable Controllers	3
	Total	9
Spring Semester		
ELE 156	Electrical Control Systems	3
ELE 240	Advanced Programmable Logic Controllers	3
ELE 290	Coordinated Internship <u>OR</u> Approved Elective (AIR, ELE or ITE 115)	1
	Total	7
	PROGRAM TOTAL	16

- ❖ It is recommended that students complete the Basic Electrical Technician Certificate prior to starting the Electrical Control Technician Intermediate Certificate. Students who have not completed the Basic Electrical Technician Certificate will have to take ELE 134.

AWARD: CAREER STUDIES CERTIFICATE

AREA: HVAC (221-903-10)

Exposes students to theory and applications related to HVAC. The occupational objective of this certificate is to prepare students for entry-level positions in heating, ventilation and air conditioning.

CURRICULUM

Course No.	Title	Credit(s)
Fall Semester		
AIR 121	Air Conditioning and Refrigeration I	3
AIR 154	Heating Systems I	3
ELE 133	Practical Electricity I	3
	Total	9
Spring Semester		
AIR 122	Air Conditioning and Refrigeration II	3
AIR 134	Circuits and Controls	3
AIR 155	Heating Systems II	3
	Total	9
	PROGRAM TOTAL	18

AWARD: CAREER STUDIES CERTIFICATE

AREA: INDUSTRIAL MAINTENANCE TECHNICIAN - BASIC (221-990-00)

Exposes students to theory and application related to the maintenance of heating, air conditioning, electrical systems and motors & welding. The occupational objective of this certificate is to prepare students for entry-level positions in industrial maintenance.

CURRICULUM

Course No.	Title	Credit(s)
Fall Semester		
ELE 133	Practical Electricity I	3
SDV 101/100	Orientation to the Trades Profession <u>OR</u> College Success Skills	1
	Approved Technical Elective ¹	3-4
	Total	7-8
Spring Semester		
ELE 134	Practical Electricity II	3
	Approved Technical Elective ¹	3-4
	Internship <u>OR</u> Approved Technical Elective ¹	3-4
	Total	9-11
	PROGRAM TOTAL	18

¹ Student may select technical electives from approved general engineering technology/technical electives by specialization list.

Undecided, Exploratory

AWARD: ASSOCIATE OF ARTS AND SCIENCE DEGREE

MAJOR: GENERAL STUDIES (697) – TRANSFER

No declaration of a specialized major subject field in the general studies curriculum is required. The general studies curriculum is flexible. Some graduates satisfy their goals by completing the two-year program of general academic studies. Most general studies students plan to transfer to a four-year college or university as more specialized academic interests and aptitudes develop during the program of studies. The framework of academic standards for the associate of arts and sciences degree makes this possible.

CURRICULUM

Course No.	Title	Credit(s)
First Semester		
SDV 100	College Success Skills	1
ENG 111	College Composition I	3
MTH	Approved Math Elective ¹	3
CST	Communication Elective	3
	Information Literacy Elective ¹	3
PED/HLT	Physical Education <u>OR</u> Health	1
	Total	14
Second Semester		
ENG 112	College Composition II	3
	Social Science/Math Elective ¹	3
HIS	History Elective ¹	3
	Humanities Elective ¹	3
	Social Science Elective ¹	3
	Total	15
Third Semester		
ENG	Literature Elective ¹	3
	Social Science Elective ¹	3
	Approved Transfer Elective ^{1,2}	3
	Approved Transfer Elective ^{1,2}	3
	Science with Laboratory Elective ^{1,3}	4
	Total	16
Fourth Semester		
	Science with Laboratory Elective ^{1,3}	4
	Approved Transfer Elective ^{1,2}	3
	Approved Transfer Elective ^{1,2}	3
	Approved Transfer Elective ^{1,2}	3
	Approved Transfer Elective ^{1,2}	3
	Total	15
	PROGRAM TOTAL	65

¹ Students may select electives from the approved list of electives in catalog. Students should check with the institution to which they are transferring in order to determine the most appropriate transfer course(s) to take at LFCC.

² Students seeking a Bachelor of Arts degree are advised that a Philosophy course is recommended.

³ Check with an advisor to see if a sequence is recommended.

AWARD: CERTIFICATE
MAJOR: GENERAL EDUCATION (695)

The General Education certificate provides foundational courses that allow students to progress toward the associate degree or to transfer to a senior institution.

CURRICULUM

Course No.	Title	Credit(s)
First Semester		
ENG 111	College Composition I	3
HIS	History Elective ^{1,2}	3
MTH	Mathematics Elective ^{1,3}	3
	Social Science Elective ¹	3
SDV 100	College Success Skills	1
	Science with Laboratory Elective ^{1,4}	4
	Total	17
Second Semester		
ENG 112	College Composition II	3
	Approved Transfer Elective ¹	6
HUM	Humanities Elective ^{1,5}	3
	Science with Laboratory Elective ^{1,4}	4
	Total	16
	PROGRAM TOTAL	33

¹ Students may select electives from the approved list of electives in catalog.

² Students should check with the institution to which they are transferring in order to determine the most appropriate history course(s) to take at LFCC. For students intending to take more than one history course, a sequence beginning by taking HIS 101, HIS 111 or HIS 121 is preferred prior to HIS 102, HIS 112 or HIS 122.

³ Students should check with the institution to which they are transferring in order to determine the most appropriate math courses to take at LFCC.

⁴ A one full sequence of biology, chemistry, geology or physics is recommended. However, depending on the requirements of four-year institutions, two one-semester courses in different sciences may be substituted with advisor approval.

⁵ Note that CST 100 can be used to fulfill one of the humanities electives.

Course Descriptions

All Lord Fairfax Community College course descriptions are a part of the Virginia Community College System Master Course file (<http://courses.vccs.edu/courses>), which is standardized statewide. Students should refer to individual faculty course syllabi for more specific details.

Course Credits: The credit value for each course is 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 approximately one academic hour (50 minutes) of formalized, structured instructional time in a particular course for 15 weeks, or the equivalent in other time periods or instructional format. This may consist of lectures, out-of-class study, laboratory, or combinations thereof as follows:

1. Lecture - One academic hour of lecture (including lecture, seminar, discussion, or other similar experiences) per week for 15 weeks plus an examination period = 1 collegiate semester-hour credit.
2. Laboratory - Two to three hours, depending on the academic discipline, of laboratory, clinical training, supervised work experience, coordinated internship, or other similar activities per week for 15 weeks plus an examination period = 1 collegiate semester-hour credit.
3. General Usage Courses - One to five credits, with variable academic hours of attendance, may be earned in Coordinated Internship, Seminar and Project, and Supervised Study.

Course Prerequisites: If any prerequisites are required before enrolling in a course, the College identifies these prerequisites in the course description. Courses in special sequences (usually identified by the numerical I-II) require that prior courses or their equivalent be completed before enrolling in a course unless special permission is obtained from the Vice President of Instruction or the Instruction Departments.

Course Offerings: The College reserved the right to develop schedules of courses offered based on demand or other factors.

Course Numbering System: The following is a description of Lord Fairfax Community College's system for logically and meaningfully numbering courses.

Level of Courses

01-09

These courses will be used for Development Studies. Credits earned in these courses are not applicable toward associate degree programs. However, upon approval by the deans of instruction, some developmental courses may provide credit appropriate for diploma or certificate programs. Students may re-register for these courses in subsequent semesters in accordance with state policy.

10-99

These courses are basic occupational courses for diploma and certificate programs. The credits earned in these courses are applicable toward diploma and certificate programs. These credits are not applicable toward an associate degree.

100-199

These courses are freshman-level courses applicable toward associate degree, diploma, and certificate programs.

200-299

These courses are sophomore-level courses applicable toward associate degree, diploma, and certificate programs.

General Usage Courses: These courses are used by inserting the appropriate department prefix for the desired course and by adding relevant descriptive information in the course title. Credit value is variable, from one to five hours. In instances where work, clinical, or field experience is used, the work/credit ratio may not exceed one credit for each five contact hours per week (or the equivalent in other time periods). All of these courses may be repeated for credit.

90, 190, and 290	Coordinated Internship (discipline)
93, 193, and 293	Studies In (discipline)
95, 195, and 295	Topics In (discipline)
96, 196, and 296	On-Site Training (discipline)
98, 198, and 298	Seminar and Project In (discipline)
99, 199, and 299	Supervised Study In (discipline)

Accounting (ACC)

ACC 117 Essentials of Accounting (3 Cr.)

Covers financial statements, internal control requirements for safeguarding assets, and accounting procedures necessary to complete the entire accounting cycle, including journals, ledgers, and financial statements. Lecture 3 hours per week.

ACC 211 Principles of Accounting I (3 Cr.)

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. Lecture 3 hours per week.

ACC 212 Principles of Accounting II (3 Cr.)

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. Prerequisite(s): ACC 211. Lecture 3 hours per week.

ACC 215 Computerized Accounting (3 Cr.)

Introduces the computer in solving accounting problems. Focuses on operation of computers. Presents the accounting cycle and financial statement preparation in a computerized system and other applications for financial and managerial accounting. Prerequisite(s): ACC 211. Lecture 3 hours per week.

ACC 221 Intermediate Accounting I (3 Cr.)

Covers accounting principles and theory, including a review of the accounting cycle and accounting for current assets, current liabilities and investments. Introduces various accounting approaches and demonstrates the effect of these approaches on the financial statement users. Prerequisite(s): ACC 212 or equivalent. Lecture 3 hours per week.

ACC 222 Intermediate Accounting II (3 Cr.)

Continues accounting principles and theory with emphasis on accounting for fixed assets, intangibles, corporate capital structure, long-term liabilities and investments. Prerequisite(s): ACC 221 or equivalent. Lecture 3 hours per week.

ACC 225 Managerial Accounting (3 Cr.)

Presents the preparation, analysis and interpretation of accounting data for managerial decision making. Includes cost control, capital budgeting and pricing decisions. Lecture 3 hours per week.

ACC 231 Cost Accounting I (3 Cr.)

Studies cost accounting and reporting as applied to job order, process and standard cost accounting systems. Includes cost control and other topics. Prerequisite(s): ACC 212 or equivalent. Lecture 3 hours per week.

ACC 261 Principles of Federal Taxation I (3 Cr.)

Presents the study of federal taxation as it relates to individuals and related entities. Includes tax planning, compliance and reporting. Lecture 3 hours per week.

ACC 262 Principles of Federal Taxation II (3 Cr.)

Presents the study of federal taxation as it is related to partnerships, corporations and other tax entities. Includes tax planning, compliance and reporting. Lecture 3 hours per week.

ACC 298 Seminar and Project (1-5 Cr.)

Requires completion of a project or research report related to the student's occupational objectives and a study of approaches to the selection and pursuit of career opportunities in the field. May be repeated for credit. Variable hours.

Administration of Justice (ADJ)

ADJ 100 Survey of Criminal Justice (3 Cr.)

Presents an overview of the United States criminal justice system; introduces the major system components--law enforcement, judiciary, and corrections. Lecture 3 hours per week.

ADJ 105 The Juvenile Justice System (3 Cr.)

Presents the evolution, philosophy, structures and processes of the American juvenile delinquency system; surveys the right of juveniles, dispositional alternatives, rehabilitation methods and current trends. Prerequisite(s): Readiness to enroll in ENG 111. Lecture 3 hours per week.

ADJ 107 Survey of Criminology (3 Cr.)

Surveys the volume and scope of crime; considers a variety of theories developed to explain the causation of crime and criminality. Prerequisite(s): Readiness to enroll in ENG 111. Lecture 3 hours per week.

ADJ 116 Special Enforcement Topics (s Cr.)

Considers contemporary issues, problems, and controversies in modern law enforcement. Lecture 3 hours per week.

ADJ 120 Introduction to Courts (3 Cr.)

Presents an overview of the American judiciary--the federal and 50 state judicial systems—with emphasis on criminal court structures, functions, and personnel; surveys the judicial system in Commonwealth of Virginia. Lecture 3 hours per week.

ADJ 140 Introduction to Corrections (3 Cr.)

Focuses on societal responses to the offender. Traces the evolution of practices based on philosophies of retribution, deterrence and rehabilitation. Reviews contemporary correctional activities and their relationships to other aspects of the criminal justice system. Prerequisite(s): Readiness to enroll in ENG 111. Lecture 3 hours per week.

ADJ 164 Case Studies in Murder/Violent Crime (3 Cr.)

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. Prerequisite(s): Readiness to enroll in ENG 111. Lecture 3 hours per week.

ADJ 171 Forensic Science I (4 Cr.)

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. Part I of II. Prerequisite(s): Readiness to enroll in ENG 111. Lecture 3 hours. Laboratory 3 hours. Total 6 hours per week.

ADJ 172 Forensic Science II (3-4 Cr.)

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. Part II of II. Prerequisite(s): Readiness to enroll in ENG 111. Lecture 3 hours. Laboratory 3 hours. Total 6 hours per week.

ADJ 216 Organized Crime and Corruption (3 Cr.)

Addresses judicial efforts against and involvement in corruption, drug, vice, and white-collar crimes, both individual and organized. Lecture 3 hours per week.

ADJ 228 Narcotics and Dangerous Drugs (3 Cr.)

Surveys the historical and current usage of narcotics and dangerous drugs. Teaches the identification and classification of such drugs and emphasizes the symptoms and effects on their users. Examines investigative methods and procedures utilized in law enforcement efforts against illicit drug usage. Lecture 3 hours per week.

ADJ 275 Forensic Pathology (3 Cr.)

Introduces the pathology and physiology of the human body with emphasis on scientific name and technique used in medico-legal investigations of death. Studies types of death, the mechanisms of death and death reflex, and the determining of the cause of death by postmortem examination. Lecture 3 hours per week.

ADJ 278 Firearms and Tool - Mark Identification (3 Cr.)

Introduces the role of the firearms in forensic science. Teaches the examination techniques and procedures for identifying firearms, tool-marks, ammunition, projectiles and projectile fragments. Instructs on the topics of determining muzzle-to-target distance, gunshot residue tests, firearms nomenclature, comparative micrography, serial number restoration, and the collecting, handling, and presenting of firearms and tool-mark evidence. Lecture 3 hours per week.

Administrative Support Technology (AST)**AST 102 Keyboarding II (3 Cr.)**

Develops keyboarding and document production skills with emphasis on preparation of specialized business documents. Continues skill building for speed and accuracy. Prerequisite(s): Placement into ENF2 or higher or successful completion of ENF1 and 30 wpm placement assessment. Lecture 3 hours per week.

AST 107 Editing/Proofreading Skills (3 Cr.)

Develops skills essential to creating and editing business documents. Covers grammar, spelling, diction, punctuation, capitalization and other usage problems. Prerequisite(s): Placement into ENF2 or higher or successful completion of ENF1 and 30 wpm placement assessment or AST 102 or AST 141. Lecture 3 hours per week.

AST 142 Word Processing II (3 Cr.)

Teaches advanced software applications. Prerequisite(s): Placement into ENF 2 or higher or successful completion of ENF 1 and AST 102 or AST 141. Lecture 3 hours per week.

AST 206 Professional Development (3 Cr.)

Develops professional awareness in handling business and social situations. Emphasizes goal setting, critical thinking, decision-making and employment skills. Prerequisite(s): Readiness to enroll in ENF 2 or above and AST 102, AST 141 or AST 142. Lecture 3 hours per week.

AST 243 Office Administration I (3 Cr.)

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. Prerequisite(s): AST 102 or AST 141 or AST 142. Lecture 3 hours per week.

AST 245 Medical Machine Transcription (3 Cr.)

Develops machine transcription skills, integrating operation of transcribing equipment with understanding of medical terminology. Emphasizes dictation techniques and accurate transcription of medical documents in prescribed formats. Prerequisite(s): Placement into ENF2 or higher or successful completion of ENF1; AST 102 or AST 141 or AST 142; BIO 141 & 142 or BIO 145; HIM 111. Recommend HIM 112 but may enroll concurrently with AST 245. Lecture 3 hours per week.

AST 266 Legal Office Procedures II (3 Cr.)

Develops skills necessary to provide organizational and technical support in a legal setting. Emphasizes administrative and supervisory duties. Prerequisite(s): AST 265. Lecture 3 hours per week.

Agriculture (AGR)**AGR 141 Introduction to Animal Science and Technology (4 Cr.)**

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 per week. Laboratory 2 hours per week. Total 6 hours per week.

AGR 142 Introduction to Plant Science and Technology (3 Cr.)

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 per week. Laboratory 2 hours per week. Total 4 hours per week.

AGR 143 Introduction to Agribusiness and Financial Management (3 Cr.)

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.

AGR 241 Agricultural Policy, Leadership and Professional Service (3 Cr.)

Enhances personal and professional leadership skills to build consensus and collaboratively solve agricultural issues. Uses the Virginia legislative process to track and influence relevant policy. Partners with stakeholders and key agricultural groups to advocate agriculture's importance to society and remove barriers that prevent farm/agribusiness acquisition and transition. Identifies relevant professional service and leadership opportunities that will affect changes for the benefit of agricultural and rural communities. Covers current policy and public programs related to taxation, land use, environmental protection, water quality, population changes, water conservation, climate change and quality of rural life. Reinforces written and oral communication skills. Lecture 3 hours per week. ****This course is only offered to Dual Enrolled students at Dual Enrollment sites.****

Air Conditioning and Refrigeration (AIR)**AIR 121 Air Conditioning and Refrigeration I (3 Cr.)**

Studies refrigeration theory, tools and equipment, soldering, brazing, refrigeration systems, system components, compressors, evaporators, metering devices. Provides laboratory application of refrigerators and freezers. Lecture 2 hours per week. Laboratory 2 hours per week. Total 4 hours per week.

AIR 122 Air Conditioning and Refrigeration II (3 Cr.)

Studies refrigeration theory, tools and equipment, soldering, brazing, refrigeration systems, system components, compressors, evaporators, metering devices. Provides laboratory application of refrigerators and freezers. Prerequisite(s): AIR 121. Lecture 2 hours per week. Laboratory 2 hours per week. Total 4 hours per week.

AIR 134 Circuit and Controls I (3 Cr.)

Presents circuit diagrams for air conditioning units, reading and drawing of circuit diagrams, types of electrical controls. Includes analysis of air conditioning circuits, components, analysis and characteristics of circuits and controls, testing and servicing, introduces electricity for air conditioning which includes circuit elements, direct current circuits and motors, single and three-phase circuits and motors, power distribution systems and protective devices. Studies the electron and its behavior in passive and active circuits and components. Demonstrates electronic components and circuits as applied to air conditioning system. Lecture 2 hours per week. Laboratory 2 hours per week. Total 4 hours per week.

AIR 154 Heating Systems I (3 Cr.)

Introduces types of fuels and their characteristics of combustion; types, components and characteristics of burners and burner efficiency analyzers. Studies forced air heating systems including troubleshooting, preventive maintenance and servicing. Lecture 2 hours per week. Laboratory 2 hours per week. Total 4 hours per week.

AIR 155 Heating Systems II (3 Cr.)

Introduces types of fuels and their characteristics of combustion; types, components and characteristics of burners and burner efficiency analyzers. Studies forced air heating systems including troubleshooting, preventive maintenance and servicing. Prerequisite(s): AIR 154. Lecture 2 hours per week. Laboratory 2 hours per week. Total 4 hours per week.

American Sign Language (ASL)**ASL 101-102 American Sign Language I-II (3 Cr. each)**

Introduces the fundamentals of American Sign Language (ASL) used by the Deaf Community, including basic vocabulary, syntax, finger spelling 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 per week. Laboratory 0-2 hours per week. Total 3-5 hours per week.

ASL 115 Finger Spelling and Number Use in ASL (2 Cr.)

Provides intensive practice in comprehension and production of finger spelled words and numbers with emphasis on clarity and accuracy. Focuses on lexicalized finger spelling and numeral incorporation as used by native users of American Sign Language. Prerequisite(s): ASL 101 or permission of instructor. Lecture 2 hours per week.

ASL 125 History and Culture of the Deaf Community I (3 Cr.)

Presents an overview of various aspects of deaf culture, including educational and legal issues. Prerequisite(s): ENG 111. Lecture 3 hours per week.

ASL 150 Working with Deaf and Hard-of-Hearing People (2 Cr.)

Explores career options for serving Deaf/hard-of-hearing people and/or for using American Sign Language skills in a career. Examines interests, skills, and educational assessments. Investigates job market viability via the Internet and professional periodicals. Develops opportunities for students to network with professionals in the field of deafness. Lecture 2 hours per week.

ASL 201-202 American Sign Language III-IV (3 Cr. each)

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

ASL 261 American Sign Language V (3 Cr.)

Develops advanced American Sign Language comprehension and production skills. Emphasizes advanced linguistic aspects of ASL. Presents ASL literary forms. Encourages contact with the Deaf Community. Prerequisite(s): ASL 202. Part I of II. Lecture 3 hours per week.

ASL 262 American Sign Language VI (3 Cr.)

Develops advanced American Sign Language comprehension and production skills. Emphasizes advanced linguistic aspects of ASL. Presents ASL literary forms. Encourages contact with the Deaf Community. Prerequisite(s): ASL 202. Part II of II. Lecture 3 hours per week.

Arabic (ARA)

ARA 101 Beginning Arabic I (4-5 Cr.)

Introduces understanding, speaking, reading, and writing skills and emphasizes basic Arabic sentence structure. Discusses the diversity of cultures in the Arab world. Part I of II. Lecture 4-5 hours per week.

ARA 102 Beginning Arabic II (4-5 Cr.)

Introduces understanding, speaking, reading, and writing skills and emphasizes basic Arabic sentence structure. Discusses the diversity of cultures in the Arab world. Part II of II. Lecture 4-5 hours per week.

ARA 201 Intermediate Arabic I (4 Cr.)

Continues to develop understanding, speaking, reading and writing skills and emphasizes basic Arabic sentence structure. Discusses the diversity of cultures in the Arab world. Classes are conducted in Arabic. Prerequisite(s): ARA 102. Part I of II. Lecture 4 hours per week.

ARA 202 Intermediate Arabic II (3-4 Cr.)

Continues to develop understanding, speaking, reading and writing skills and emphasizes basic Arabic sentence structure. Discusses the diversity of cultures in the Arab world. Classes are conducted in Arabic. Prerequisite(s): ARA 102. Part II of II. Lecture 3-4 hours per week.

Architecture (ARC)

ARC 130 Introduction to Materials & Methods of Construction (3 Cr.)

Introduces the physical properties and characteristics of building materials and methods of construction. Includes review of residential and light commercial wood-frame construction techniques and an introduction to steel and concrete structural systems. Lecture 3 hours per week.

ARC 221 Architectural CAD Apps Software I (3 Cr.)

Teaches the principles and techniques of architectural drawing practices through the use of architecture specific CAD software. Utilizes the commands and features of the software to generate drawings that emphasize architectural design and structural systems. Requires knowledge of AutoCAD 2D software. Lecture 2 hours per week. Laboratory 2 hours per week. Total 4 hours per week.

ARC 222 Architectural CAD Apps Software II (3 Cr.)

Uses advanced features of architectural CAD software to teach students to develop working drawings and details that adhere to the practices and techniques of architectural drawing principles. Lecture 2 hours per week. Laboratory 2 hours per week. Total 4 hours per week.

ARC 240 Designing Sustainable Built Environments (3 Cr.)

Introduces students to ethics, ideas, technologies, methods and current practices in designing sustainable environments. Lecture 3 hours per week.

Art (ART)

ART 101-102 History and Appreciation of Art I-II (3 Cr. each)

Presents the history and interpretation of architecture, sculpture and painting. Begins with prehistoric art and follows the development of western civilization to the present. Prerequisite(s): Readiness to enroll in ENG 111. Lecture 3 hours per week.

ART 121-122 Drawing I-II (3 Cr. each)

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. ART 121 is prerequisite for ART 122. Lecture 2 hours per week. Studio instruction 4 hours per week. Total 5 hours per week.

ART 131-132 Fundamentals of Design I-II (4 Cr. each)

Explores the concepts of two- and three-dimensional design and color. May include field trips as required. Art 131 is a prerequisite for ART 132. Lecture 2 hours per week. Studio instruction 4 hours per week. Total 6 hours per week.

ART 153-154 Ceramics I-II (3 Cr. each)

Presents problems in the design and production of functional and non-functional ceramic works. Includes hand building the potter's wheel and clays and glazes. Lecture 2 hours per week. Studio instruction 4 hours per week. Total 6 hours per week.

ART 241-242 Painting I-II (3 Cr. each)

Introduces abstract and representational painting in acrylic and/or oil with emphasis on color composition and value.

Prerequisite(s): ART 122 or instructor approval. Lecture 2 hours per week. Studio instruction 4 hours per week. Total 5 hours per week.

ART 243-244 Watercolor I-II (3 Cr. each)

Presents abstract and representational painting in watercolor with emphasis on design, color, composition, technique and value.

Prerequisite(s): ART 131 or instructor approval. Lecture 2 hours per week. Studio instruction 2 hours per week. Total 4 hours per week.

ART 271-272 Printmaking I-II (3 Cr. each)

Introduces the student to the full range of printmaking techniques. Includes woodcut, silkscreen, etching and lithography.

Provides historical perspective on printmaking. Lecture 2 hours per week. Studio instruction 3 hours per week. Total 5 hours per week.

ART 283-284 Computer Graphics I-II (3 Cr. each)

Utilizes microcomputers and software to produce computer graphics. Employs techniques learned to solve studio projects

which reinforce instruction and are appropriate for portfolio use. Prerequisite(s): Readiness to enroll in ENG 111. Lecture 1 hour per week. Studio instruction 4 hours per week. Total 5 hours per week.

Automotive (AUT)**AUT 100 Introduction to Automotive Shop Practices (2-3 Cr.)**

Introduces shop practices for automotive laboratory and shop safety, identification and use of hand tools, general power equipment and maintenance of automotive shop. Explains basic operation procedures of standard shop equipment. Presents Occupational Safety and Health Act standards pertaining to the automotive field. Lecture 2-3 hours per week. ****This course is only offered to Dual Enrolled students at Dual Enrollment sites.****

AUT 136 Automotive Vehicle Inspection (2 Cr.)

Presents information on methods for performing automotive vehicle safety inspections. Lecture 1 hour per week. Laboratory 2 hours per week. Total 3 hours per week. ****This course is only offered to Dual Enrolled students at Dual Enrollment sites.****

AUT 178 Automotive Final Drive and Manual Transmission Systems (4 Cr.)

Presents the operation, design, construction and repair of manual transmissions and final drive systems, for both front and rear drive vehicles, including clutches, synchronizers, torque multiplication/gear reduction, along with differentials, transmission/transaxles, drive axels, U-joints, CV joints, 4-wheel drive and all-wheel drive systems. Lecture 3 hours.

Laboratory 3 hours. Total 6 hours per week. ****This course is only offered to Dual Enrolled students at Dual Enrollment sites.****

AUT 235 Automotive Heating and Air Conditioning (2-3 Cr.)

Studies separate and combined automotive heaters and air conditioning, including direct and vacuum operated controls, basic principles of refrigeration, adjustment, general servicing, and charging of air conditioning systems. Lecture 1-2 hours.

Laboratory 2-3 hours. Total 3-5 hours per week. ****This course is only offered to Dual Enrolled students at Dual Enrollment sites.****

AUT 236 Automotive Climate Control (4 Cr.)

Introduces principles of refrigeration, air conditioning controls, and adjustment and general servicing of automotive air conditioning systems. Lecture 3 hours. Laboratory 3 hours. Total 6 hours per week. ****This course is only offered to Dual Enrolled students at Dual Enrollment sites.****

AUT 265 Automotive Braking Systems (3-4 Cr.)

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 2-3 hours. Laboratory 3 hours. Total 5-6 hours per week. ****This course is only offered to Dual Enrolled students at Dual Enrollment sites.****

AUT 266 Auto Alignment, Suspension and Steering (3-4 Cr.)

Introduces use of alignment equipment in diagnosing, adjusting, and repairing front and rear suspensions. Deals with repair and servicing of power and standard steering systems. Lecture 1-2 hours. Laboratory 6 hours. Total 7-8 hours per week.

****This course is only offered to Dual Enrolled students at Dual Enrollment sites.****

Biology (BIO)

BIO 100 Basic Human Biology (3 Cr.)

Presents basic principles of human anatomy and physiology. Discusses cells, tissues, and selected human systems.

Prerequisite(s): Readiness to enroll in ENG 111. Lecture 3 hours per week.

BIO 101 General Biology I (4 Cr.)

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. Prerequisite(s): Readiness to enroll in ENG 111, plus completion of developmental math unit 3 or placement in unit 4 or above. Lecture 3 hours per week. Laboratory 3 hours per week. Total 6 hours per week.

BIO 102 General Biology II (4 Cr.)

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. Prerequisite(s): Readiness to enroll in ENG 111, plus completion of developmental math unit 3 or placement in unit 4 or above and BIO 101. Lecture 3 hours per week. Laboratory 3 hours per week. Total 6 hours per week.

BIO 141-142 Human Anatomy & Physiology I-II (4 Cr. each)

Integrates anatomy and physiology of cells, tissues, organs and systems of the human body. Integrates concepts of chemistry, physics and pathology. BIO 141 prerequisite to BIO 142. Prerequisite(s): Readiness to enroll in ENG 111. Lecture 3 hours per week. Laboratory 3 hours per week. Total 6 hours per week.

BIO 145 Human Anatomy and Physiology for the Health Sciences (4 Cr.)

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. Prerequisite(s): Readiness to enroll in ENG 111. Lecture 3-4 hours per week. Laboratory 3 hours per week. Total 6-7 hours per week.

BIO 150 Introductory Microbiology (4 Cr.)

Studies the general characteristics of microorganisms. Emphasizes their relationships to individual and community health.

Prerequisite(s): Readiness to enroll in ENG 111. Lecture 3 hours per week. Recitation and laboratory 3 hours per week. Total 6 hours per week.

BIO 206 Cell Biology (4 Cr.)

Introduces the ultrastructure and functions of cells. Emphasizes cell metabolism, cell division, and control of gene expression.

Prerequisite(s): BIO 101 and CHM 111. Lecture 3 hours per week. Recitation and laboratory 3 hours per week. Total 6 hours per week.

BIO 215 Plant Life of Virginia (3 Cr.)

Focuses on identification and ecological relationships of the native plants of Virginia. Emphasizes shrubs, vines, weeds, wildflowers, ferns, and mushrooms. Lecture 2 hours per week. Recitation and laboratory 3 hours per week. Total 5 hours per week.

BIO 270 General Ecology (3-4 Cr.)

Studies interrelationships between organisms and their natural and cultural environments with emphasis on populations, communities and ecosystems. Prerequisite(s): BIO 101-102 or divisional approval. Lecture 2-3 hours. Recitation and laboratory 3-6 hours. Total 5-9 hours per week.

****This course is only offered to Dual Enrolled students at Dual Enrollment sites.****

BIO 295 Topics In (1-5 Cr.)

Provides an opportunity to explore topical areas of interest to or needed by students. May be used also for special honors courses. May be repeated for credit. Variable hours.

Business Management & Administration (BUS)

BUS 100 Introduction to Business (3 Cr.)

Presents a broad introduction to the functioning of business enterprise within the U.S. economic framework. Introduces economic systems, essential elements of business organization, production, human resource management, marketing, finance and risk management. Lecture 3 hours per week.

BUS 111 Principles of Supervision I (3 Cr.)

Teaches the fundamentals of supervision, including the primary responsibilities of the supervisor. Introduces factors relating to the work of supervisors and subordinates. Covers aspects of leadership, job management, work improvement, training and orientation, performance evaluation and effective employee/supervisor relationships. Lecture 3 hours per week.

BUS 116 Entrepreneurship (3 Cr.)

Presents the various steps considered necessary when going into business. Includes areas such as product-service analysis, market research evaluation, setting up books, ways to finance startup, operations of the business, development of business plans, buyouts versus starting from scratch and franchising. Uses problems and cases to demonstrate implementation of these techniques. Lecture 3 hours per week.

BUS 165 Small Business Management (3 Cr.)

Identifies management concerns unique to small businesses. Introduces the requirements necessary to initiate a small business and identifies the elements compromising 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 200 Principles of Management (3 Cr.)

Teaches management and the management functions of planning, organizing, leading and controlling. Focuses on application of management principles to realistic situations managers encounter as they attempt to achieve organizational objectives. Lecture 3 hours per week.

BUS 205 Human Resource Management (3 Cr.)

Introduces employment, selection and placement of personnel, usage levels and methods, job descriptions, training methods and programs and employee evaluation systems. Includes procedures for management of human resources and uses case studies and problems to demonstrate implementation of these techniques. Lecture 3 hours per week.

BUS 215 Purchasing and Materials Management (3 Cr.)

Teaches the principles of effective purchasing and management of materials and equipment. Includes determination of requirements, source selection, pricing, value analysis, contracting, inventory management and equipment requisition decisions. Lecture 3 hours per week.

BUS 226 Computer Business Applications (3 Cr.)

Provides a practical application of software packages, including spreadsheets, word processing, database management and presentation graphics. Includes the use of programs in accounting techniques, word processing and management science application. Prerequisite(s): keyboarding competence. Lecture 2 hours per week. Laboratory 2 hours per week. Total 4 hours per week.

BUS 236 Communication in Management (3 Cr.)

Introduces the functions of communication in management with emphasis on gathering, organizing and transmitting facts and ideas. Teaches the basic techniques of effective oral and written communication. Lecture 3 hours per week.

BUS 241 Business Law I (3 Cr.)

Develops a basic understanding of the US business legal environment. Introduces property and contract law, agency and partnership liability, and government regulatory law. Students will be able to apply these legal principles to landlord/tenant disputes, consumer rights issues, employment relationships, and other business transactions. Lecture 3 hours per week.

BUS 242 Business Law II (3 Cr.)

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 270 Interpersonal Dynamics in the Business Organization (3 Cr.)

Focuses on intra-and interpersonal effectiveness in the business organization. Includes topics such as planning and running effective meetings, networking and politicking, coaching and mentoring, making effective and ethical decisions, developing interpersonal skills that are essential to effective managers and to improve skills in verbal, non-verbal and written communication. Lecture 3 hours per week.

BUS 285 Current Issues in Management (3 Cr.)

Designed as a capstone for management majors, the course is designed to provide an integrated perspective of current issues and trends in business management. Contemporary issues will be explored in a highly participatory class environment.

Lecture 3 hours per week.

Chemistry (CHM)**_CHM 101-102 Introductory Chemistry I-II (4 Cr. each)**

Emphasizes experimental and theoretical aspects of inorganic, organic and biological chemistry. Discusses general chemistry concepts as they apply to issues within our society and environment. Designed for the non-science major. Prerequisite(s): Readiness to enroll in ENG 111. Prerequisite for CHM 101 is competence in MTE 1-5. CHM 101 prerequisite to CHM 102.

Lecture 3 hours per week. Laboratory 3 hours per week. Total 6 hours per week.

CHM 110 Survey of Chemistry (3 Cr.)

Introduces the basic concepts of general, organic and biochemistry with emphasis on their applications to other disciplines. No previous chemistry background required. Prerequisite(s): Readiness to enroll in ENG 111. Lecture 3 hours per week.

CHM 111-112 General Chemistry I-II (4 Cr.)

Explores the fundamental laws, theories and mathematical concepts of chemistry. Designed primarily for science and engineering majors. Requires a strong background in mathematics. Prerequisite(s): Readiness to enroll in ENG 111.

Prerequisite for CHM 111 is competence in MTE 1-9. CHM 111 prerequisite to CHM 112. Lecture 3 hours per week.

Laboratory 3 hours per week. Total 6 hours per week.

CHM 241-242 Organic Chemistry I-II (3 Cr.)

Introduces fundamental chemistry of carbon compounds, including structures, physical properties, syntheses and typical reactions. Emphasizes reaction mechanisms. Prerequisite(s): CHM 111-112. CHM 241 prerequisite to CHM 242.

Recommended co-requisite: CHM 243-244. Lecture 3 hours per week.

CHM 245-246 Organic Chemistry Lab. I-II (2 Cr.)

Includes qualitative organic analysis. Shall be taken concurrently with CHM 241 and CHM 242. Lecture 1 hour per week.

Laboratory 3 hours per week. Total 4 hours per week.

CHM 260 Introductory Biochemistry (3 Cr.)

Explores fundamentals of biological chemistry. Includes study of macromolecules, metabolic pathways, and biochemical genetics. Prerequisite(s): CHM 112 or divisional approval. Lecture 3 hours per week.

CHM 261 Biochemistry Lab (1 Cr.)

Provides hands on lab experiences designed to reinforce the fundamentals of biological chemistry taught in CHM 260 such as biochemistry assays, enzyme kinetics, enzyme purification, chromatography, electrophoresis and use of western blots.

Laboratory 3 hours per week.

Childhood Development (CHD)**CHD 118 Language Arts for Young Children (3 Cr.)**

Emphasizes the early development of children's language and literacy skills. Presents techniques and methods for supporting all aspects of early literacy. Surveys children's literature, and examines elements of promoting oral literacy, print awareness, phonological awareness, alphabetic principle, quality storytelling and story reading. Addresses strategies for intervention and support for exceptional children and English Language Learners. Prerequisite(s): Readiness to enroll in ENG 111. Lecture 2 hours per week. Laboratory 2 hours per week. Total 4 hours per week.

CHD 120 Introduction to Early Childhood Education (3 Cr.)

Introduces early childhood development through activities and experiences in early childhood, 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 & Movement to Children (3 Cr.)

Focuses on children's exploration, play, and creative expression in the areas of art, music, and movement. Emphasis will be on developing strategies for using various open-ended media representing a range of approaches in creative thinking.

Addresses strategies for intervention and support for exceptional children and English Language Learners. Lecture 2 hours per week. Laboratory 2 hours per week. Total 4 hours per week.

CHD 146 Math, Science, & Social Studies for Child. (3 Cr.)

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. Prerequisite(s): Readiness to enroll in ENG 111. Lecture 2 hours per week. Laboratory 2 hours per week. Total 4 hours per week.

CHD 165 Observation & Participation in Early Childhood/Primary Settings (3 Cr.)

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. May be taken again for credit. One hour seminar, 4 hours field placement. Total 5 hours per week.

CHD 166 Infant and Toddler Programs (3 Cr.)

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. Prerequisite(s): Readiness to enroll in ENG 111. Lecture 3 hours per week.

CHD 167 CDA Theories and Applications: Portfolio (2-3 Cr.)

Supports the CDA candidate in organizing and developing a portfolio for presentation at local assessment team meeting. Prerequisite(s): Readiness to enroll in ENG 111. Lecture 2-3 hours per week.

CHD 205 Guiding the Behavior of the Children (3 Cr.)

Explores the role of the early childhood educator in supporting emotional and social development of children, and in fostering a sense of community. Presents practical strategies for encouraging prosocial behavior, conflict resolution and problem solving. Emphasizes basic skills and techniques in child guidance. Lecture 3 hours per week.

CHD 210 Introduction to Exceptional Children (3 Cr.)

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. Prerequisite(s): Readiness to enroll in ENG 111. Lecture 3 hours per week.

CHD 215 Models of Early Childhood Education Programs (3 Cr.)

Studies and discusses the various models and theories of early childhood education programs including current trends and issues. Presents state licensing and staff requirements. Prerequisite(s): Readiness to enroll in ENG 111. Lecture 3 hours per week.

CHD 216 Early Childhood Programs, School, and Social Change (3 Cr.)

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. Prerequisite(s): Readiness to enroll in ENG 111. Lecture 3 hours per week.

CHD 265 Advanced Observation & Participation in Early Childhood/Primary Settings (3 Cr.)

Focuses on implementation of activity planning and observation of children through participation in early childhood settings. Emphasizes responsive teaching practices and assessment of children's development. Reviews legal and ethical implications of working with children. One hour seminar with 4 hours field placement for a total of 5 hours per week. Students must have completed the majority of program specific courses before enrolling. Students must be eligible to work with young children according to Department of Social Services requirements. Prerequisite(s): CHD 165.

CHD 270 Administration of Childcare Programs (3 Cr.)

Examines the skills needed for establishing and managing early childhood programs. Emphasizes professionalism and interpersonal skills, program planning, staff selection and development, creating policies, budgeting, and developing forms for recordkeeping. Prerequisite(s): Readiness to enroll in ENG 111. Lecture 3 hours per week.

CHD 298 Seminar and Project (1-5 Cr.)

Requires completion of a project or research report related to the student's occupational objectives and a study of approaches to the selection and pursuit of career opportunities in the field. May be repeated for credit. Variable hours. Prerequisite(s): Readiness to enroll in ENG 111 and successful completion of 24 CHD or EDU credits.

Chinese (CHI)

CHI 101 Beginning Chinese I (5 Cr.)

Introduces understanding, speaking, reading, and writing skills; emphasizes basic Chinese sentence structure. Lecture 5 hours per week.

CHI 102 Beginning Chinese II (5 Cr.)

Introduces understanding, speaking, reading, and writing skills; emphasizes basic Chinese sentence structure. Prerequisite(s): CHI 101. Lecture 5 hours per week.

CHI 201 Conversational Chinese (Mandarin) I (4 Cr.)

Offers intensive practice in comprehending and speaking Chinese, with emphasis on developing structure and fluency. Prerequisite(s): CHI 102. Lecture 4 hours per week.

CHI 202 Conversational Chinese (Mandarin) II (4 Cr.)

Offers intensive practice in comprehending and speaking Chinese, with emphasis on developing structure and fluency. Prerequisite(s): CHI 201. Lecture 4 hours per week.

Civil Engineering Technology (CIV)

CIV 171 Surveying I (3 Cr.)

Introduces surveying equipment, procedures and computations including adjustment of instruments, distance measurement, leveling, angle measurement, traversing, traverse adjustments, area computations and introduction to topography. Lecture 2 hours per week. Laboratory 3 hours per week. Total 5 hours per week.

CIV 172 Surveying II (3 Cr.)

Introduces surveys for transportation systems including the preparation and analysis of topographic maps, horizontal and vertical curves, earthwork and other topics related to transportation construction. Prerequisite(s): CIV 171. Lecture 2 hours per week. Laboratory 3 hours per week. Total 5 hours per week.

CIV 226 Soil Mechanics Laboratory (1 Cr.)

Introduces practical soil sampling; classification of unified, ASTM and AASHTO specifications; laboratory testing of soils to predict engineering performance. Laboratory 2 hours per week.

Communication Studies and Theatre (CST)

CST 100 Principles of Public Speaking (3 Cr.)

Applies theory and principles of public address with emphasis on preparation and delivery. Prerequisite(s): placement testing approval for ENG 111. Lecture 3 hours per week.

CST 110 Introduction to Speech Communication (3 Cr.)

Examines the elements affecting speech communication at the individual, small group and public communication levels with emphasis on practice of communication at each level. Prerequisite(s): placement testing approval for ENG 111. Lecture 3 hours per week.

CST 114 Survey of Mass Media (3 Cr.)

Examines the history and current understanding of mass communication. Covers print media (newspapers, magazines, and books), electronic media (radio, television, film, the Internet), advertising, public relations, and mass media theory, research, and ethics. Lecture 3 hours per week.

CST 126 Interpersonal Communication (3 Cr.)

Teaches interpersonal communication skills for both daily living and the world of work. Includes perception, self-concept, self-disclosure, listening and feedback, nonverbal communication, attitudes, assertiveness and other interpersonal skills. Lecture 3 hours per week.

CST 130 Intro to the Theatre (3 Cr.)

Surveys the principles of drama, the development of theatre production and selected plays to acquaint the student with various types of theatrical presentation. Lecture 3 hours per week.

CST 131-132 Acting I-II (3 Cr.)

Develops personal resources and explores performance skills through such activities as theatre games, role playing, improvisation, work on basic script units and performance of scenes. Lecture 2 hours per week. Laboratory 3 hours per week. Total 5 hours per week.

CST 136 Theatre Workshop (3 Cr.)

Enables students to work in various activities of play production. The student participates in performance, set design, stage carpentry, sound, costuming, lighting, stage-managing, props, promotion, or stage crew. May be repeated for credit. Workshop 3 hours per week.

CST 141 Theatre Appreciation I (3 Cr.)

Aims to increase knowledge and enjoyment of theatre. Considers process, style, organization written drama, and performed drama. Part I of II. Lecture 3 hours per week.

CST 151 Film Appreciation I (3 Cr.)

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 160 Improvisation I (3 Cr.)

Explores the basic techniques of improvisation through short and long form exercises and the study of the history of improvisation and improvisation theory and practices. Lecture 3 hours per week.

CST 229 Intercultural Communication (3 Cr.)

Emphasizes the influence of culture on the communication process including differences in values, message system and communication rules. Lecture 3 hours per week.

Computer Aided Drafting and Design (CAD)**CAD 165 Architectural Blueprint Reading (3 Cr.)**

Emphasizes reading, understanding and interpreting standard types of architectural drawings including plans, elevation, section and details. Lecture 2 hours per week. Laboratory 2 hours per week. Total 4 hours per week.

CAD 175 Schematics and Mechanical Diagrams (2 Cr.)

Covers interpretation of basic shop drawings, conventional symbols, common electrical and electronics symbols, wiring diagrams, hydraulic and pneumatic symbols, schematic drawings and piping diagrams. Lecture 2 hours per week. Typically offered fall semester.

CAD 241 Parametric Solid Modeling I (3 Cr.)

Focuses on teaching students the design of parts by parametric solid modeling. Topics covered will include, but not limited to, sketch profiles; geometric and dimensional constraints; 3-D features; model generation by extrusion, revolution and sweep; and the creation of 2-D drawing views that include sections, details and auxiliary. Part I of II. Requires knowledge of AutoCAD 2D software. Lecture 2-3 hours per week. Laboratory 2-3 hours per week. Total 4-6 hours per week.

CAD 242 Parametric Solid Modeling II (3 Cr.)

Focuses on teaching students the design of parts by parametric solid modeling. Topics covered will include, but not limited to, sketch profiles; geometric and dimensional constraints; 3-D features; model generation by extrusion, revolution and sweep; and the creation of 2-D drawing views that include sections, details and auxiliary. Part II of II. Prerequisite(s): CAD 241. Lecture 2-3 hours per week. Laboratory 2-3 hours per week. Total 4-6 hours per week.

Computer Science (CSC)**CSC 110 Introduction to Computing (3 Cr.)**

Introduces problem solving through computer applications and a programming language. Examines development of computers, social and ethical implications of computers, and properties of programming languages. Covers input storage, data manipulation, software and hardware. Lecture 3 hours per week.

CSC 200 Introduction to Computer Science (3 Cr.)

Provides broad introduction to computer science. Discusses architecture and function of computer hardware, including networks and operating systems, data and instruction representation and data organization. Covers software, algorithms, programming languages and software engineering. Discusses artificial intelligence and theory of computation. Includes a hands-on component. Prerequisite(s): Readiness to enroll in ENG 111. Lecture 3 hours per week.

CSC 201 Computer Science I (4 Cr.)

Introduces algorithm and problem solving methods. Emphasizes structured programming concepts, elementary data structures and the study and use of a high level programming language. Prerequisite(s): CSC 200 or EGR 126. Lecture 4 hours per week.

CSC 202 Computer Science II (4 Cr.)

Examines data structures and analyzes algorithms. 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 objects. Prerequisite(s): CSC 201. Lecture 4 hours per week.

CSC 205 Computer Organization (3 Cr.)

Examines the hierarchical structure of computer architecture. Focuses on multi-level machine organization. Uses a simple assemble language to complete programming projects. Includes processors, instruction, execution, addressing techniques, data representation and digital logic. Prerequisite(s): Readiness to enroll in ENG 111. Lecture 3 hours per week.

CSC 295 Topics in (1-5 Cr.)

Provides an opportunity to explore topical areas of interest to or needed by students. May be used also for special honors courses. May be repeated for credit. Variable hours. Prerequisite(s): Readiness to enroll in ENG 111.

CSC 298 Seminar and Project (1-5 Cr.)

Requires completion of a project or research report related to the student's occupational objectives and a study of approaches to the selection and pursuit of career opportunities in the field. May be repeated for credit. Variable hours per week.

Dental Hygiene (DNH)**DNH 111 Oral Anatomy (2 Cr.)**

Studies the morphology and function of the oral structures with emphasis on the primary and permanent dentition, eruption sequence, occlusion and intra-arch relationships. Lecture 2 hours per week.

DNH 115 Histology/Head and Neck Anatomy (3 Cr.)

Presents a study of the microscopic and macroscopic anatomy and physiology of the head, neck and oral tissues. Includes embryologic development and histologic components of the head, neck, teeth and periodontium. Lecture 3 hours per week.

DNH 120 Management of Emergencies (2 Cr.)

Studies the various medical emergencies and techniques for managing emergencies in the dental setting. Additional practical applications and simulations of emergencies may be conducted to enhance basic knowledge from the one-hour lecture component. Lecture 2 hours per week.

DNH 130 Oral Radiography for the Dental Hygienist (3 Cr.)

Studies radiation physics, biology, safety and exposure techniques for intra- and extra-oral radiographic surveys. Laboratory provides practice in exposure, processing methods, mounting and interpretation of normal findings. Lecture 2 hours per week. Laboratory 3 hours per week. Total 5 hours per week.

DNH 141 Dental Hygiene I (5 Cr.)

Introduces clinical knowledge and skills for the performance of dental hygiene services; basic skill components, lab manikins and client practice. Lecture 3 hours per week. Clinic 6 hours per week. Total 9 hours per week.

DNH 142 Dental Hygiene II (5 Cr.)

Exposes students to instrument sharpening, time management and client education techniques and methods. Provides supervised clinical practice in the dental hygiene clinic with emphasis on developing client treatment and instrument skills. Prerequisite(s): DNH 141. Lecture 1-2 hours per week. Clinical 9-12 hours per week. Total 11-13 hours per week.

DNH 143 Dental Hygiene III (4 Cr.)

Introduces dental health care for clients with special needs. Includes introduction to computer concepts and applications. Provides supervised clinical practice in the dental hygiene clinic with emphasis on refining client treatment and instrumentation skills, including oral radiographs. Prerequisite(s): DNH 142. Lecture 2 hours per week. Clinic 6 hours per week. Total 8 hours per week.

DNH 145 General and Oral Pathology (2 Cr.)

Introduces general pathology with consideration of the common diseases affecting the human body. Particular emphasis is given to the study of pathological conditions of the mouth, teeth and their supporting structures. Prerequisite(s): DNH 113, 114, or 115. Lecture 2 hours per week.

DNH 146 Periodontics for the Dental Hygienist (2 Cr.)

Introduces the theoretical and practical study of various concepts and methods used in describing, preventing and controlling periodontal disease. Presents etiology, microbiology, diagnosis, treatment and prognosis of diseases. Lecture 2 hours per week.

DNH 150 Nutrition (2 Cr.)

Studies nutrition as it relates to dentistry and general health. Emphasizes the principles of nutrition as applied to the clinical practice of dental hygiene. Lecture 2 hours per week.

DNH 214 Practical Materials for Dental Hygiene (2 Cr.)

Studies the current technologic advances, expanded functions and clinical/laboratory materials used in dental hygiene practice. Provides laboratory experience for developing skills in the utilization and applications of these technologies and functions. Lecture 1 hour per week. Laboratory 2 hours per week. Total 3 hours per week.

DNH 216 Pharmacology (2 Cr.)

Studies the chemical and therapeutic agents used in dentistry, including their preparation, effectiveness and specific application. Lecture 2 hours per week.

DNH 226 Public Health Dental Hygiene I (2 Cr.)

Studies and compares concepts of delivery of health care, applying the public health delivery model. Utilizes epidemiologic methods, research and biostatistics as applied to oral health program planning, implementation and evaluation. Incorporates and applies current health issues and trends. Lecture 2 hours per week.

DNH 227 Public Health Dental Hygiene II (1 Cr.)

Applies concepts of public health program planning through student directed community projects with an emphasis on preventative oral health education. Includes development of table clinics, bulletin board and volunteer service in the community. Prerequisite(s): DNH 226. Laboratory 3 hours per week.

DNH 230 Office Practice and Ethics (1 Cr.)

Studies the principles of dental ethics and economics as they relate to the dental hygienist. The course also includes a study of jurisprudence and office procedures. Lecture 1 hour per week.

DHN 235 Management of Dental Pain & Anxiety in the Dental Office (2 Cr.)

Provides a study of anxiety and pain management techniques used in dental care. Students will understand the necessary theory to appropriately treat, plan and successfully administer topical anesthesia, local anesthesia, and nitrous oxide/oxygen analgesia. Includes the components of pain, pain control mechanisms, topical anesthesia, local anesthesia and nitrous oxide/oxygen analgesia. Prerequisite(s): DNH 115, DNH 120 and DNH 216. Lecture 1 hour per week. Laboratory 2 hours per week. Total 3 hours per week.

DNH 244 Dental Hygiene IV (5 Cr.)

Introduces advanced skills and the dental hygienist's role in dental specialties. Includes supervised clinical practice in the dental hygiene clinic and/or off-campus clinical rotations at various community facilities. Emphasizes treatment of clients demonstrating periodontal involvement, stressing application and correlation of knowledge and skills from previous semesters. Prerequisite(s): DNH 143 or DNH 190. Lecture 1 hour per week. Clinic 12 hours per week. Total 13 hours per week.

DNH 245 Dental Hygiene V (5 Cr.)

Exposes student to current advances in dentistry. Includes supervised clinical practice in the dental hygiene clinic and/or off-campus clinical rotations at various community facilities. Emphasis is placed on synthesis of knowledge from previous semesters, treatment of clients with moderate to advanced periodontal involvement and improving clinical speed while maintaining quality in preparation for practice. Prerequisite(s): DNH 244. Lecture 1 hour per week. Clinic 12 hours per week. Total 13 hours per week.

Economics (ECO)**ECO 201 Principles of Macroeconomics (3 Cr.)**

Introduces macroeconomics including the study of Keynesian, classical, monetarist principles and theories, the study of national economic growth, inflation, recession, unemployment, financial markets, money and banking, the role of government spending and taxation, along with international trade and investments. Prerequisite(s): Readiness to enroll in ENG 111 and competence in MTE 1-3, or completion of MTH 130 or MTH 133. Lecture 3 hours per week.

ECO 202 Principles of Microeconomics (3 Cr.)

Introduces the basic concepts of microeconomics. Explores the free market concepts with coverage of economic models and graphs, scarcity and choices, supply and demand, elasticities, marginal benefits and costs, profits, and production and distribution. Prerequisite(s): Readiness to enroll in ENG 111 and competence in MTE 1-3, or completion of MTH 130 or MTH 133. Lecture 3 hours per week.

Education (EDU)

EDU 198 Seminar and Project (1-2 Cr.)

Requires completion of a project or research report related to the student's occupational objectives and a study of approaches to the selection and pursuit of career opportunities in the field. May be repeated for credit. Variable hours per week.

EDU 200 Introduction to Teaching as a Profession (3 Cr.)

Provides an orientation to the teaching profession in Virginia, including historical perspectives, current issues and future trends in education on the national and state levels. Emphasizes information about teacher licensure examinations, steps to certification, teacher preparation and induction programs and attention to critical shortage areas in Virginia. Includes supervised field placement (recommended: 40 clock hours) in a K-12 school. Prerequisite(s): successful completion of 24 credits of transfer courses. Student must have a high school diploma or GED. Lecture 2 hours per week. Laboratory 2 hours per week. Total 4 hours per week.

EDU 235 Health, Safety and Nutrition Education (3 Cr.)

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. Describe symptoms and reporting procedures for child abuse. Lecture 3 hours per week.

EDU 295 Topics In (1-3 Cr.)

Provides an opportunity to explore topical areas of interest to or needed by students. May be used also for special honors courses. May be repeated for credit. Variable hours per week.

Electrical Technology (ELE)

ELE 127 Residential Wiring Methods (3 Cr.)

Studies wiring methods and standards used for residential dwellings. Provides practical experience in design, layout, construction, and testing of residential wiring systems by use of scaled mock-ups. Lecture 2 hours per week. Laboratory 2 hours per week. Total 4 hours per week.

ELE 133 Practical Electricity I (3 Cr.)

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 2 or completion of basic high school math or higher. Part I of II. Lecture 2 hours per week. Laboratory 2 hours per week. Total 4 hours per week.

ELE 134 Practical Electricity II (3 Cr.)

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: ELE 133. Part II of II. Lecture 2 hours per week. Laboratory 2 hours per week. Total 4 hours per week.

ELE 135 National Electrical Code – Residential (3 Cr.)

Studies purposes and interpretations of the national electrical code that deals with single and multi-family dwellings, including state and local regulations. Lecture 2-3 hours per week. Laboratory 2-4 hours per week. Total 4-5 hours per week.

ELE 137 National Electrical Code – Industrial (3 Cr.)

Provides comprehensive study of the purpose and interpretations of the National Electrical Code that deal primarily with industrial wiring methods, including state and local regulations. Lecture 2 hours per week. Laboratory 2 hours per week. Total 4 hours per week.

ELE 156 Electrical Control Systems (3 Cr.)

Introduces troubleshooting and servicing electrical controls, electric motors, motor controls, motor starters, relays, overloads, instruments and control circuits. May include preparation of a report as an out-of-class activity. Prerequisite(s): ELE 159. Lecture 2 hours per week. Laboratory 2 hours per week. Total 4 hours per week.

ELE 159 Electrical Motors (3 Cr.)

Teaches practical applications and fundamentals of A.C. and D.C. machines. Includes the concepts of magnetism and generators used in electrical motor applications. Lecture 2 hours per week. Laboratory 2 hours per week. Total 4 hours per week.

ELE 190 Coordinated Internship (1-5 Cr.)

Supervises on-the-job training in selected business, industrial or service firms coordinated by the college. Credit/practice ratio not to exceed 1:5 hours. May be repeated for credit. Variable hours per week.

ELE 239 Programmable Controllers (3 Cr.)

Examines installation, programming, interfacing and concepts of trouble shooting programmable controllers. It is highly recommended that students complete ELE 156 or have the instructor's permission prior to taking ELE 239. Lecture 2 hours per week. Laboratory 2 hours per week. Total 4 hours per week.

ELE 240 Advanced Programmable Logic Controllers (3 Cr.)

Advances further study of Programmable Logic Controllers that was initiated in ELE 239. Students will learn to use more advanced program instructions, including data manipulation, sequences and program control, and advanced PLC features, including timers, counters. Covers connectivity and use of a variety of real world I/O devices. Prerequisite(s): ELE 239. Lecture 2 hours. Laboratory 2 hours per week. Total 4 hours per week.

ELE 290 Coordinated Internship (1-5 Cr.)

Supervises on-the-job training in selected business, industrial or service firms coordinated by the college. Credit/practice ratio not to exceed 1:5 hours. May be repeated for credit. Variable hours per week.

Electronics Technology (ETR)**ETR 113 D.C. and A.C. Fundamentals I (3 Cr.)**

Studies D.C. and A.C. circuits, basic electrical components, instruments, network theorems and techniques used to predict, analyze and measure electrical quantities. Lecture 2 hours per week. Laboratory 2 hours per week. Total 4 hours per week.

Emergency Medical Services (EMS)**EMS 100 CPR for Healthcare Providers (1 Cr.)**

Provides instruction in Cardiopulmonary Resuscitation that meets current Emergency Cardiac Care (ECC) guidelines for Cardiopulmonary Resuscitation education for Healthcare Providers. Equivalent to HLT 105.

EMS 111 Emergency Medical Technician(7 Cr.)

Prepares student for certification as a Virginia and National Registry EMT. Focuses on all aspects of pre-hospital basic life support as defined by the Virginia Office of Emergency Medical Services curriculum for Emergency Medicine Technician. Prerequisite: EMS 100 or equivalent. Co-requisite: EMS 120. Lecture 5 hours. Laboratory 4 hours. Total 9 hours per week.

EMS 112 Emergency Medical Technician I (4 Cr.)

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 (3 Cr.)

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 120 Emergency Medical Technician – Clinical (1 Cr.)

Observes in a program approved clinical/field setting. Includes topics for both EMS 111 and EMS 113, dependent upon the program in which the student is participating and is a co-requisite to both EMS 111 and EMS 113. Laboratory 2 hours. Total 2 hours per week.

EMS 121 Preparatory Foundations (2 Cr.)

Introduces advanced life support (ALS) concepts established by national guidelines that are related to Advanced EMT and Paramedic curricula. Includes EMS system communications, introduction to public health, legal and ethical issues. Prerequisite(s): MTE 1-2 and readiness to enroll in ENG 111, EMS 100, EMS 111, EMS 120 or current Virginia EMT and CPR certification as approved by the Virginia Offices of EMS. Lecture 2 hours. Total 2 hours per week.

EMS 123 EMS Clinical Preparation (1 Cr.)

Introduces the student to local clinical agencies and prepares the student for clinical activities about the level of EMT. Includes prerequisites required by clinical affiliates, therapeutic communication, primary assessment, history taking, secondary assessment, reassessment, monitoring devices and documentation. Prerequisite(s): MTE 1-2 and readiness to enroll in ENG 111, EMS 100, EMS 111, EMS 120 or current Virginia EMT and CPR certification as approved by the Virginia Office of EMS. Laboratory 2 hours. Total 2 hours per week.

EMS 125 Basic Pharmacology (1 Cr.)

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. Prerequisite(s): MTE 1-3 and readiness to enroll in ENG 111, EMS 100, EMS 111, EMS 120 or current Virginia EMT and CPR certification as approved by the Virginia Office of EMS. Corequisite(s): EMS 126. Lecture 1 hour per week. Total 1 hour per week.

EMS 126 Basic Pharmacology Lab (1 Cr.)

Focuses on the safe administration of medications in the emergency setting. Includes drug dose calculations 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. Prerequisite(s): MTE 1-3 and readiness to enroll in ENG 111, EMS 100, EMS 111, EMS 120 or current Virginia EMT and CPR certification as approved by the Virginia Office of EMS. Corequisite(s): EMS 125. Laboratory 2 hours per week. Total 2 hours per week.

EMS 127 Airway, Shock & Resuscitation (1 Cr.)

Introduces concepts associated with pre-hospital emergency care of the individual experiencing airway difficulty or in need of resuscitation or shock management. Prerequisite(s): MTE 1-3 and readiness to enroll in ENG 111, EMS 100, EMS 111, EMS 120 or current Virginia EMT and CPR certification as approved by the Virginia Office of EMS. Corequisite(s): EMS 128. Lecture 1 hours per week. Total 1 hour per week.

EMS 128 Airway, Shock & Resuscitation Lab (1 Cr.)

Focuses on specific skills related to airway, resuscitation and shock management. Prerequisite(s): MTE 1-3 and readiness to enroll in ENG 111, EMS 100, EMS 111, EMS 120 or current Virginia EMT and CPR certification as approved by the Virginia Office of EMS. Corequisite: EMS 127. Laboratory 2 hours per week. Total 2 hours per week.

EMS 135 Emergency Medical Care (2 Cr.)

Prepares the student to assess and manage patients with common medical emergencies. Prerequisite(s): MTE 1-3 and readiness to enroll in ENG 111, EMS 100, EMS 111, EMS 120 or current Virginia EMT and CPR certification as approved by the Virginia Office of EMS. Corequisite(s): EMS 136. Lecture 2 hours per week. Total 2 hours per week.

EMS 136 Emergency Medical Care Lab (1 Cr.)

Focuses on specific skills related to the assessment and management of common medical emergencies. Prerequisite(s): MTE 1-3 and readiness to enroll in ENG 111, EMS 100, EMS 111, EMS 120 or current Virginia EMT and CPR certification as approved by the Virginia Office of EMS. Corequisite(s): EMS 135. Laboratory 2 hours per week. Total 2 hours per week.

EMS 137 Trauma Care (1 Cr.)

Prepares the student to assess and manage injured patients, developing his/her problem-solving ability in the treatment of trauma involving various body systems. Prerequisite(s): MTE 1-3 and readiness to enroll in ENG 111, EMS 100, EMS 111, EMS 120 or current Virginia EMT and CPR certification as approved by the Virginia Office of EMS. Corequisite(s): EMS 138. Lecture 1 hour per week. Total 1 hour per week.

EMS 138 Trauma Care Lab (1 Cr.)

Focuses on the skills required for the assessment and management of patients with traumatic injury. Prerequisite(s): MTE 1-3 and readiness to enroll in ENG 111, EMS 100, EMS 111, EMS 120 or current Virginia EMT and CPR certification as approved by the Virginia Office of EMS. Corequisite(s): EMS 137. Laboratory 2 hours per week. Total 2 hours per week.

EMS 139 Special Populations (1 Cr.)

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. Prerequisite(s): EMS 100, EMS 111, EMS 120 or current Virginia EMT and CPR certification as approved by the Virginia Office of EMS. Corequisite(s): EMS 140. Lecture 1 hour per week. Total 1 hour per week.

EMS 140 Special Populations Lab (1 Cr.)

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 special needs. Prerequisite(s): EMS 100, EMS 111, EMS 120 or current Virginia EMT and CPR certification as approved by the Virginia Office of EMS. Corequisite(s): EMS 139. Laboratory 2 hours per week. Total 2 hours per week.

EMS 141 EKG and Cardiovascular Care (2 Cr.)

Focuses on assessment and management of cardiac-related emergencies. Covers basic dysrhythmia recognition and relates it to overall cardiac patient care. Prerequisite(s): EMS 100, EMS 111, EMS 120 or current Virginia EMT and CPR certification as approved by the Virginia Office of EMS. Corequisite(s): EMS 142. Lecture 2 hours per week. Total 2 hours per week.

EMS 142 Cardiovascular Care Lab (1 Cr.)

Focuses on skills involved in the assessment and management of cardiac-related emergencies. Develops competency in basic dysrhythmia recognition and overall cardiac patient care. Prerequisite(s): EMS 100, EMS 111, EMS 120 or current Virginia EMT and CPR certification as approved by the Virginia Office of EMS. Corequisite(s): EMS 141. Laboratory 2 hours per week. Total 2 hours per week.

EMS 163 Prehospital Trauma Life Support (PHTLS) (1 Cr.)

Prepares for certification as a Prehospital Trauma Life Support provider as defined by the American College of Surgeons. Prerequisite(s): EMS 100, EMS 111, EMS 120 or current Virginia EMT and CPR certification as approved by the Virginia Office of EMS. Lecture 1 hour per week. Total 1 hour per week.

EMS 164 Advanced Medical Life Support (AMLS) (1 Cr.)

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 per week. Total 1 hour per week.

EMS 165 Advanced Cardiac Life Support (1 Cr.)

Prepares for certification as an Advanced Cardiac Life provider. Follows course as defined by the American Heart Association. Prerequisite(s): EMS 100, EMS 141, EMS 142. Lecture 1 hour. Total 1 hour per week.

EMS 167 Emergency Pediatrics Course (EPC)

Provides a unique approach to pediatric medical care, offering assessment techniques that can help EMS practitioners rapidly and accurately assess pediatric patients to determine which situations may be life threatening and require immediate intervention. Offers certification as defined by the National Association of Emergency Medical Technicians (NAEMT). Lecture 1 hour. Total 1 hour per week.

EMS 170 ALS Internship I (1 Cr.)

Begins the first in a series of clinical experiences providing supervised direct patient contact in appropriate patient care facilities in and out of hospitals. Includes but not limited to patient care units such as the Emergency Department, Trauma Centers and various advanced life support units. Laboratory 3 hours. Total 3 hours per week.

EMS 175 Paramedic Clinical Experience I (2 Cr.)

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. Prerequisite(s): EMS 121, EMS 123, EMS 125, EMS 126, EMS 127, EMS 128. Laboratory 6 hours. Total 6 hours per week.

EMS 202 Paramedic Pharmacology (2 Cr.)

Focuses on advanced pharmacological interventions, medications and their effects. Prerequisite(s): EMS 125, EMS 126, EMS 135, EMS 136, EMS 137, EMS 138, EMS 139, EMS 140, EMS 141 and EMS 142. Lecture 2 hours per week. Total 2 hours per week.

EMS 203 Advanced Patient Care (2 Cr.)

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. Prerequisite(s): EMS 100, EMS 111, EMS 120 or current Virginia EMT and CPR certification as approved by the Virginia Office of EMS. Corequisite(s): EMS 204. Lecture 2 hours per week. Total 2 hours per week.

EMS 204 Advanced Patient Care (2 Cr.)

Focuses on the comprehensive assessment and management of out-of-hospital and inter-facility patients using scenario-based learning. Prerequisite(s): EMS 135, EMS 136, EMS 137, EMS 138, EMS 139, EMS 140, EMS 141 and EMS 142. Corequisite(s): EMS 203. Laboratory 4 hours per week. Total 4 hours per week.

EMS 206 Pathophysiology for Health Professions (3 Cr.)

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. Prerequisite(s): BIO 145 or BIO 141-142 combination. Lecture 3 hours. Total 3 hours per week.

EMS 210 EMS Operations (1 Cr.)

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). Prerequisite(s): EMS 100, EMS 111, EMS 120 or current Virginia EMT and CPR certification as approved by the Virginia Office of EMS. Laboratory 2 hours per week. Total 2 hours per week.

EMS 212 Leadership and Professional Development (1 Cr.)

Focuses on the development of leadership within the field of Emergency Medical Services (EMS) leadership, topics include civic engagement, personal wellness, resource management, ethical considerations in leadership and research. Prerequisite(s): EMS 100, EMS 111, EMS 120 or current Virginia EMT and CPR certification as approved by the Virginia Office of EMS. Laboratory 1 hour per week. Total 1 hour per week.

EMS 216 Paramedic Review (1 Cr.)

Provides the student with intensive review for the practical and written portions of the National Registry Paramedic exam. May be repeated once, for credit. Laboratory 2 hours per week. Total 2 hours per week.

EMS 247 Paramedic Clinical Experience II (2 Cr.)

Provides summative evaluation of the Paramedic student in the cognitive, psychomotor and affective domains. Prerequisite(s): EMS 121, EMS 123, EMS 135, EMS 136, EMS 137, EMS 138, EMS 139, EMS 140, EMS 141, EMS 142, EMS 175. Corequisite(s): EMS 202, EMS 203, EMS 204, EMS 206. Internship 3 hours per week. Total 3 hours per week.

EMS 248 Paramedic Comprehensive Field Experience (2 Cr.)

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. Prerequisite(s): EMS 121, EMS 123, EMS 135, EMS 136, EMS 137, EMS 138, EMS 139, EMS 140, EMS 141, EMS 142, EMS 175. Corequisite(s): EMS 202, EMS 203, EMS 204, EMS 206. Internship 6 hours per week.

EMS 249 Paramedic Capstone Experience (2 Cr.)

Provides summative evaluation of the Paramedic student in cognitive, psychomotor and affective domains. Prerequisite(s): EMS 123, EMS 175, EMS 247, EMS 248. Internship 3 hours per week.

Engineering (EGR)**EGR 110 Engineering Graphics (3 Cr.)**

Presents theories and principles of orthographic projection. Studies multi-view, pictorial drawings and sketches, geometric construction, sectioning, lettering, tolerancing, dimensioning and auxiliary projections. Studies the analysis and graphic presentation of space relationships of fundamental geometric elements; points, lines, planes and solids. Preparation of drawings using both manual techniques and Computer Aided Drafting (CAD). Lecture 2 hours per week. Laboratory 2 hours per week. Total 4 hours per week.

EGR 120 Introduction to Engineering (2 Cr.)

Introduces the engineering profession, professional concepts, ethics, and responsibility. Reviews hand calculators, number systems, and unit conversions. Introduces the personal computer and operating systems. Includes engineering problem solving techniques using computer software. Corequisite: MTH 263. Lecture 2 hours per week. Laboratory 1 hour per week. Total 3 hours per week.

EGR 123 Introduction to Engineering Design (2 Cr.)

Introduces the fundamental knowledge and experience needed to understand the engineering design process through the basics of electrical, computer, and mechanical systems. Includes the completion of a project in which a specific electromechanical robot kit will be analyzed, assembled, and operated. Prerequisite(s): MTH 263 and EGR 120 and EGR 126. Lecture 1 hour per week. Laboratory 2 hours per week. Total 3 hours per week.

EGR 126 Computer Programming for Engineers (3 Cr.)

Introduces computers, their architecture and software. Teaches program development using flowcharts. Solves engineering problems involving programming in languages such as FORTRAN, PASCAL, or C++. Lecture 3 hours per week. Total 3 hours per week.

EGR 135 Statics for Engineering Technology (3 Cr.)

Introduces Newton's Laws, resultants and equilibrium of force systems, analysis of trusses and frames. Teaches determination of centroids, distributed loads and moments of inertia. Covers dry friction and force systems in space. Prerequisite(s): MTH 131. Lecture 3 hours per week.

EGR 136 Strength of Materials for Engineering Technology (3 Cr.)

Presents concepts of stress and strain. Focuses on analysis of stresses and deformations in loaded members, connectors, shafts, beams, columns and combined stress. Prerequisite(s): EGR 135. Lecture 3 hours per week.

EGR 140 Engineering Mechanics - Statics (3 Cr.)

Introduces mechanics of vector forces and space, scalar mass and time, including S.I. and U.S. customary units. Teaches equilibrium, free-body diagrams, moments, couples, distributed forces, centroids, moments of inertia analysis of two- force and multi-force members and friction and internal forces. Prerequisite(s): MTH 264. Lecture 3 hours per week.

EGR 206 Engineering Economics (3 Cr.)

Presents economic analysis of engineering alternatives. Studies economic and cost concepts, calculation of economic equivalence, comparison of alternatives, replacement economy, economic optimization in design and operation, depreciation and after tax analysis. Lecture 3 hours per week.

EGR 216 Computer Methods in Engineering & Technology (3 Cr.)

Provides advanced level experience in using a computer as a tool for solving technical problems and performing office functions. Includes computer hardware and operating system usage, structured programming in a selected high level language, use of word processing software, computer graphics and spreadsheets. Focuses on the analysis and solution of problems in engineering and technology. Lecture 2 hours per week. Laboratory 2 hours per week. Total 4 hours per week.

EGR 245 Engineering Mechanics - Dynamics (3 Cr.)

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. Prerequisite(s): MTH 264. Lecture 3 hours per week.

EGR 246 Mechanics of Materials (3 Cr.)

Teaches concepts of stress, strain, deformation, internal equilibrium, and basic properties of engineering materials. Analyzes axial loads, torsion, bending, shear and combined loading. Studies stress transformation and principle stresses, column analysis and energy principles. Prerequisite(s): EGR 140. Lecture 3 hours per week.

EGR 251 Basic Electric Circuits I (3 Cr.)

Teaches fundamentals of electric circuits. Includes circuit quantities of charge, current, potential, power and energy. Teaches resistive circuit analysis; Ohm's and Kirchoff's laws; nodal and mesh analysis; network theorems; RC, RL and RLC circuit transient response with constant forcing functions. Teaches AC steady-state analysis, power, three- phase circuits. Presents frequency domain analysis, resonance, Fourier series, inductively coupled circuits, Laplace transform applications, and circuit transfer functions. Introduces problem solving using computers. Part I of II. Pre- or co-requisite: MTH 264 and PHY 241 or equivalent. Lecture 3 hours per week.

EGR 255 Electric Circuits Laboratory (1 Cr.)

Teaches principles and operation of laboratory instruments such as VOM, electronic voltmeters, digital multimeters, oscilloscopes, counters, wave generators and power supplies. Presents application to circuit measurements, including transient and steady-state response of simple networks with laboratory applications of laws and theories of circuits plus measurement of AC quantities. Pre- or corequisite(s): EGR 251 or equivalent. Laboratory 3 hours per week.

English (ENG)**ENG 111 College Composition I (3 Cr.)**

Introduces students to critical thinking and the fundamentals of academic writing. Through the writing process, students refine topics: develop and support ideas; investigate, evaluate and incorporate appropriate resources; edit for effective style and usage; and determine appropriate approaches for a variety of contexts, audiences and purposes. Writing activities will include exposition and argumentation with at least one researched essay. Prerequisite(s): Satisfactory score on the VPT-English or satisfactory completion of ENF 1 or ENF 2. Lecture 3 hours per week.

ENG 112 College Composition II (3 Cr.)

Continues to develop college writing with increased emphasis on critical essays, argumentation and research, developing these competencies through the examination of a range of texts about the human experience. Requires students to locate, evaluate, integrate and document sources and effectively edit for style and usage. Prerequisite(s): ENG 111. Lecture 3 hours per week.

ENG 115 Technical Writing (3 Cr.)

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. Prerequisite(s): placement testing approval for ENG 111 or instructor approval. Lecture 3 hours per week.

ENG 116 Writing for Business (3 Cr.)

Develops ability in business writing through extensive practice in composing business correspondence and other documents. Guides students in achieving voice, tone, style and content appropriate to a specific audience and purpose. Includes instruction in formatting and editing. Introduces students to business discourse through selected readings. Lecture 3 hours per week.

ENG 210 Advanced Composition (3 Cr.)

Helps students refine skills in writing non-fiction prose. Guides development of individual voice and style. Introduces procedures for publication. Prerequisite(s): ENG 112. Lecture 3 hours per week.

ENG 211-212 Creative Writing I-II (3 Cr. each)

Introduces the student to the fundamentals of writing imaginatively. Students write in forms to be selected from poetry, fiction, drama and essays. Prerequisite(s): ENG 112. Lecture 3 hours per week.

ENG 215-216 Creative Writing – Fiction I-II (3 Cr. each)

Introduces the fundamentals and techniques of writing short and long fiction. Prerequisite(s): ENG 112. Lecture 3 hours per week.

ENG 217 Creative Writing Poetry I (3 Cr.)

Introduces the fundamentals and techniques of writing poetry. Prerequisite(s): ENG 112. Lecture 3 hours per week.

ENG 218 Creative Writing Poetry II (3 Cr.)

Introduces the fundamentals and techniques of writing poetry. Prerequisite(s): ENG 217 or instructor's approval. 3 hours per week.

ENG 241-242 Survey of American Literature I-II (3 Cr. each) Examines American literary works from colonial times to the present, emphasizing the ideas and characteristics of our national literature. Involves critical reading and writing. Prerequisite(s): ENG 112. Lecture 3 hours per week.

ENG 243-244 Survey of English Literature I-II (3 Cr.)

Studies major English works from the Anglo-Saxon period to the present, emphasizing ideas and characteristics of the British literary tradition. Involves critical reading and writing. Prerequisite(s): ENG 112. Lecture 3 hours per week.

ENG 245 Major English Writers (3 Cr.)

Examines major writers in English literary history. Involves critical reading and writing. Prerequisite(s): ENG 112 or divisional approval. Lecture 3 hours per week.

ENG 250 Children's Literature (3 Cr.)

Surveys the history, development and genres of children's literature, focusing on analysis of texts for literary qualities and in terms of audience. Prerequisite(s): ENG 112 or 125. Lecture 3 hours per week.

ENG 251-252 Survey of World Literature I-II (3 Cr. each)

Examines major works of world literature. Involves critical reading and writing. Prerequisite(s): ENG 112. Lecture 3 hours per week.

ENG 255 Major World Writers (3 Cr.)

Examines major writers selected from a variety of literary traditions. Involves critical reading and writing. Prerequisite: ENG 112 or divisional approval. Lecture 3 hours per week.

ENG 261-262 Advanced Creative Writing I-II (3 Cr. each)

Guides the student in imaginative writing in selected genres on an advanced level. Prerequisite(s): ENG 112 and ENG 211 or 212. Lecture 3 hours per week.

ENG 276 Southern Literature (3 Cr.)

Examines the themes and techniques of selected writers dealing with the American South as a distinctive cultural entity. Involves critical reading and writing. Prerequisite(s): ENG 112. Lecture 3 hours per week.

ENG 278 Appalachian Literature (3 Cr.)

Examines selected works of outstanding authors of the Appalachian region. Involves critical reading and writing. Prerequisite(s): ENG 112. Lecture 3 hours per week.

English Fundamentals (ENF)**ENF 1 Preparing for College English I (8 Cr.)**

Provides integrated reading and writing instruction for students who require extensive preparation to succeed in college-level English courses. Students will place into this course based on placement test score. Upon successful completion and faculty recommendation, students will move into Preparing for College English III (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.

ENF 2 Preparing for College English II (4 Cr.)

Provides integrated reading and writing instruction for students who require intermediate preparation to succeed in college-level English courses. Students will place into this course based on placement test score. Upon successful completion and faculty recommendation, students will move into Preparing for College Level III (if they require additional preparation) or into college-level English (if they require no additional preparation). Credit is not applicable toward graduation.

ENF 3 Preparing for College English III (2 Cr.)

Provides integrated reading and writing instruction for students who require minimal preparation for college-level English but still need some preparation to succeed. Students in this course will be co-enrolled in college-level English. Students will place into this course based on placement test score. Credit is not applicable toward graduation.

English As a Second Language (ESL)**ESL 7 Oral Communication I (3 Cr.)**

Helps students practice and improve listening and speaking skills as needed for functioning successfully in academic, professional and personal settings. Assesses students' oral skills and includes, as needed, practice with pronunciation, stress and intonation. Provides exercises, practices, small and large group activities and oral presentations to help students overcome problems in oral communication. Lecture 3 hours per week.

ESL 8 Oral Communications II (3 Cr.)

Provides further instruction and practice in helping students to improve listening and speaking skills. Assesses students' oral skills and includes, as needed, practice with pronunciation, rhythm, stress, and intonation. Emphasizes the development of fluency through exercises, practices, small and large group activities, and formal and informal presentations.

ESL 17 English As a Second Language: Reading III (3 Cr.)

Helps students improve their reading comprehension and vocabulary development. Improves students' reading proficiency to a level which would allow students to succeed in certificate and degree programs. Emphasizes applying and synthesizing ideas. Includes ways to detect organization, summarize, make inferences, draw conclusions, evaluate generalizations, recognize differences between facts and opinions, and other advanced comprehension strategies. May also include comprehensive library skills. Prerequisite(s): Placement in ES30 or Instructor Approval. Lecture 3 hours per week.

ESL 18 English As a Second Language: Writing Workshop (3-6 Cr.)

Provides an opportunity for further practice in intermediate and advanced writing techniques taught in required ESL writing courses. Provides reinforcement in writing skills, including composing, organizing, revising and editing. Prerequisite(s): Placement in ES30 or Instructor Approval. Lecture 3 hours per week.

ESL 21 ESL: Composition Communications II (3 Cr.)

Provides instruction in writing at the low-intermediate level. Improves students' competence in grammatical patterns of written English. Requires practice in writing sentences and longer pieces of writing. Prerequisite(s): Placement in ES20 or Instructor Approval. Lecture 3 hours per week.

ESL 22 ESL: Reading and Vocabulary II (3 Cr.)

Provides instruction and practice in reading and vocabulary development at the low-intermediate level. Improves students' reading fluency, proficiency, and vocabulary to enable them to function adequately in ESL Level 3 and prepare for college-level reading. Credits are not applicable toward graduation. Prerequisite(s): Placement in ES20 or Instructor Approval. Lecture 3 hours per week.

ESL 24 Oral and Written Communications I (3 Cr.)

Provides practice in the sound, stress, intonation, structural patterns, grammar, vocabulary, and idioms of beginning-level English. Prerequisite Placement in ES20 or Instructor Approval. Lecture 3 hours per week.

ESL 31 Composition I (3 Cr.)

Provides instruction and practice in the writing process, emphasizing development of fluency in writing and competence in structural and grammatical patterns of written English. Prerequisite(s): Requires ability to express ideas clearly in writing without a consistent pattern of grammatical errors as indicated by a placement exam or teacher recommendation from a previous level. Credits are not applicable toward graduation. Prerequisite(s): Placement in ES30 or Instructor Approval. Lecture 3 hours per week.

ESL 32 Reading I (3 Cr.)

Helps students improve their reading comprehension and vocabulary development. Improves students' reading proficiency to a level that would allow the students to function adequately in [ESL 42](#) and other college classes. Prerequisite(s): Requires competency in reading as indicated by the placement test or by teacher recommendation from a previous level. Prerequisite(s): Placement in ES30 or Instructor Approval. Lecture 3 hours per week.

ESL 33 Oral Communications I (3 Cr.)

Helps students practice and improve listening and speaking skills as needed for functioning successfully in academic, professional, and personal settings. Assesses students oral skills and includes, as needed, practice with pronunciation, rhythm, stress, and intonation. Provides exercises, practices, small and large group activities, and oral presentations to help students overcome problems in oral communication. Credits are not applicable toward graduation. Prerequisite(s): Requires competency in the English language as indicated by a placement test score or teacher recommendation from a previous level or from other college classes. Placement in ES30 or Instructor Approval. Lecture 3 hours per week.

ESL 35 Applied Grammar 3 (3 Cr.)

Provides instruction and practice in the use of intermediate-level academic English grammar structures including verb tenses, parts of speech and basic sentence structure. Helps ESL students assess their own knowledge of English grammar, improve accuracy, and learn methods to improve editing. Prerequisite(s): Placement in ES30 or Instructor Approval. Lecture 3 hours per week.

ESL 41 Composition II (3 Cr.)

Provides further instruction and practice in the writing process and introduces advanced language patterns. Includes practice in developing and improving writing strategies. Credits are not applicable: Requires a sense of paragraph structure and development, appropriate use of verb forms, and command of basic sentence structures with some coordination and subordination, as indicated by a placement test and writing sample, or teacher recommendation from a previous level. Credits are not applicable toward graduation. Prerequisite(s): Placement in ES40 or Instructor Approval. Lecture 3 hours per week.

ESL 42 Reading II (3 Cr.)

Improves students' reading proficiency to a level that would allow students to function adequately in the ESL 52 reading class and other college courses. Credits are not applicable toward graduation. Prerequisite(s): Requires competency in reading as indicated by the placement test or by teacher recommendation from a previous level. Helps students improve their reading comprehension and vocabulary development. Prerequisite(s): Placement in ES40 or Instructor Approval. Lecture 3-6 hours per week.

ESL 43 Oral Communication II (3 Cr.)

Provides further instruction and practice in helping students to improve listening and speaking skills. Assesses students' oral skills and includes, as needed, practice with pronunciation, rhythm, stress, and intonation. Emphasizes the development of fluency through exercises, practices, small and large group activities, and formal and informal presentations. Prerequisite(s): Placement in ES40 or Instructor Approval. Variable hours per week.

ESL 45 Applied Grammar 4 (3 Cr.)

Provides instruction and practice in the use of high intermediate and advanced academic English grammar structures including advanced verb forms, clauses, determiners, and prepositions. Helps ESL students assess their own knowledge of English grammar, improve accuracy, and learn methods to improve editing. Prerequisite(s): Placement in ES40 or Instructor Approval. Lecture 3 hours per week.

ESL 48 Writing Workshop (3 Cr.)

Provides an opportunity for further practice in intermediate and advanced writing techniques taught in required ESL writing courses. Provides reinforcement in writing skills, including composing, organizing, revising and editing. Students who enter ESL 48 should show the ability to recognize and manipulate grammatical structures and a sense of essay organization but lack the ability to successfully apply this knowledge to develop longer pieces of academic writing. Prerequisite(s): Requires placement in ES40 student group or teacher recommendation. Lecture 3 hours per week.

ESL 72 Spelling and Vocabulary (3 Cr.)

Provides individualized instruction and practice in sound-letter correspondences. Introduces students to basic spelling rules, word division, prefixes, roots and suffixes. Helps students master vocabulary through an understanding of homonyms, confusing words, and Greek and Latin roots. Stresses using words in context. Credits are not applicable toward graduation. Prerequisite(s): Placement in ES30 or higher or instructor approval. Lecture 3 hours per week.

ESL 73 Accent Reduction (3 Cr.)

Provides contextualized practice at the high intermediate/advanced level to improve the speech and intelligibility of nonnative speakers of English. Focuses on problems of American English pronunciation, unclear individual sounds and positional variants, stress, rhythm and intonation common to speakers of different language backgrounds. Credits are not applicable toward graduation. Prerequisite(s): Placement in ES40 or higher or instructor approval. Lecture 3 hours per week.

ESL 95 Preparing for College English 111 for ESL (2 Cr.)

Provides an opportunity to explore topical areas of interest to or needed by students. May be used also for special honors courses. May be repeated for credit. Prerequisite(s): Readiness for ENG 111. Variable hours per week.

Environmental Science (ENV)**ENV 121 General Environmental Science I (4 Cr.)**

Explores fundamental components and interactions that make up the natural systems of the earth. Introduces the basic science concepts in the discipline of biological, chemical, and earth sciences that are necessary to understand and address environmental issues. Lecture 3 hours per week. Laboratory 3 hours per week. Total 6 hours per week.

ENV 122 General Environmental Science II (4 Cr.)

Explores fundamental components and interactions that make up the natural systems of the earth. Introduces the basic science concepts in the disciplines of biological, chemical, and earth sciences that are necessary to understand and address environmental issues. Lecture 3 hours per week. Laboratory 3 hours per week. Total 6 hours per week.

Financial Services (FIN)**FIN 107 Personal Finance (3 Cr.)**

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 215 Financial Management (3 Cr.)

Introduces basic financial management topics including statement analysis, working capital, capital budgeting, and long-term financing. Focuses on net present value and internal rate of return techniques, lease vs. buy analysis and cost of capital computations. Uses problems and cases to enhance skills in financial planning and decision-making. Lecture 3 hours per week.

French (FRE)**FRE 101-102 Beginning French I-II (4 Cr. each)**

Introduces understanding, speaking, reading and writing skills and emphasizes basic French sentence structure. Prerequisite(s): FRE 101 for FRE 102. Lecture 4 hours per week.

FRE 111-112 Conversation in French I-II (3 Cr. each)

Emphasizes the spoken language, stressing fluency and correctness of structure, pronunciation and vocabulary.

Prerequisite(s): FRE 102. Lecture 3 hours per week. ****This course is only offered to Dual Enrolled students at Dual Enrollment sites.****

FRE 201-202 Intermediate French I-II (3 Cr. each)

Continues to develop understanding, speaking, reading and writing skills. French used in the classroom. Prerequisite(s): FRE 102 for FRE 201; FRE 201 for FRE 202. Lecture 3 hours per week.

FRE 211-212 Intermediate French Conversation I-II (3-4 Cr. each)

Continue to develop fluency through emphasis on idioms and other complex sentence structures. Prerequisite(s): FRE 202. Lecture 3-4 hours per week. ****This course is only offered to Dual Enrolled students at Dual Enrollment sites.****

FRE 295 Topics In (1-5 Cr.)

Provides an opportunity to explore topical areas of interest to or needed by students. May also be used for special honors courses. May be repeated for credit. Variable Hours. ****This course is only offered to Dual Enrolled students at Dual Enrollment sites.****

Funeral Services (FNS)**FNS 110 Introduction to Funeral Service (2 Cr.)**

Presents a comprehensive study of the history of funeral service, commencing with the practices of the Egyptians, early Christians, Romans, and Hebrews. Traces funeral practice from its early pagan origins to the modern practices of today. May include the study of the sociology of funeral service. Lecture 2 hours per week.

Geography (GEO)**GEO 210 People & the Land: Introduction to Cultural Geography (3 Cr.)**

Focuses on the relationship between culture and geography. Presents a survey of modern demographics, landscape modification, material and non-material culture, language, race and ethnicity, religion, politics and economic activities. Introduces the student to types and uses of maps. Prerequisite(s): Readiness to enroll in ENG 111. Lecture 3 hours per week.

GEO 220 World Regional Geography (3 Cr.)

Studies physical and cultural characteristics of selected geographical regions of the world. Focuses upon significant problems within each of the regions, and examines the geographical background of those problems. Introduces the student to types and uses of maps. Lecture 3 hours per week.

Geology (GOL)**GOL 105 Physical Geology (4 Cr.)**

Introduces the composition and structure of the earth and modifying agency and processes. Investigates the formation of minerals and rocks, weathering, erosion, earthquakes and crustal deformation. Prerequisite(s): Readiness to enroll in ENG 111. Lecture 3 hours per week. Laboratory 3 hours per week. Total 6 hours per week.

GOL 106 Historical Geology (4 Cr.)

Traces the evolution of the earth and life through time. Presents scientific theories of the origin of the earth and life and interprets rock and fossil records. Prerequisite(s): Readiness to enroll in ENG 111. Lecture 3 hours per week. Laboratory 3 hours per week. Total 6 hours per week.

GOL 110 Earth Science (4 Cr.)

Examines the dynamics of the earth and its relation to the solar system. Applies the principles of geology, oceanography, meteorology, and astronomy in a multi-disciplinary science environment. Stresses the effects of geologic processes on the environment. Lecture 3 hours per week. Laboratory 3 hours per week. Total 6 hours per week.

GOL 225 Environmental Geology (4 Cr.)

Explores the interaction between man and his physical environment. Stresses geologic hazards and environmental pollution utilizing case histories. Prerequisite(s): GOL 105. Lecture 3 hours per week. Laboratory 3 hours per week. Total 6 hours per week.

German (GER)**GER 101 Beginning German I (4-5 Cr.)**

Introduces understanding, speaking, reading, and writing skills and emphasizes basic German sentence structures. Lecture 4-5 hours per week. May include one additional hour oral practice per week.

GER 102 Beginning German II (4-5 Cr.)

Introduces understanding, speaking, reading, and writing skills and emphasizes basic German sentence structures. Part II of II. Lecture 4-5 hours per week. May include one additional hour oral practice per week.

GER 201 Intermediate German I (3-4 Cr.)

Continues to develop understanding, speaking, reading, and writing skills. German is used in the classroom. Prerequisite(s): GER 102or equivalent. Part I of II. Lecture 3-4 hours per week. May include one additional hour oral practice per week.

GER 202 Intermediate German II (3-4 Cr.)

Continues to develop understanding, speaking, reading, and writing skills. German is used in the classroom.

Prerequisite(s): GER 102 or equivalent. Part II of II. Lecture 3-4 hours per week. May include one additional hour oral practice per week.

Health (HLT)

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

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

HLT 105 Cardiopulmonary Resuscitation (1 Cr.)

Provides training in coordinated mouth-to-mouth artificial ventilation and chest compression, choking, life-threatening emergencies, and sudden illness. Equivalent to EMS 100. Lecture 1 hour per week.

HLT 106 First Aid Safety (2 Cr.)

Focuses on the principles and techniques of safety and first aid. Lecture 2 hours per week.

HLT 115 Intro to Personal and Community Health (1 Cr.)

Introduces and focuses on the principles of personal and community health. Lecture 1 hour per week.

HLT 116 Personal Wellness (2 Cr.)

Introduces students to the dimensions of wellness, including nutrition, weight control, stress management and physical conditioning. Includes a personal wellness plan. Lecture 2 hours per week.

HLT 130 Nutrition and Diet Therapy (2 Cr.)

Studies nutrients, sources, functions and requirements with an introduction to diet therapy. Lecture 2 hours per week.

HLT 140 Orientation to Health Related Professions (1-2 Cr.)

Explores the interrelated roles and functions of various members of the health team. Lecture 1-2 hours. Total 1-2 hours per week. ****This course is only offered to Dual Enrolled students at Dual Enrollment sites.****

HLT 143-144 Medical Terminology I-II (3 Cr. each)

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. ****This course is only offered to Dual Enrolled students at Dual Enrollment sites.****

HLT 160 Personal Health and Fitness (3 Cr.)

Studies the relationships between health and fitness. Topics include nutrition, disease prevention, weight control, smoking and health, medical care, aerobic and anaerobic conditioning. And the relationship between physical and mental health. Lecture 2 hours per week. Laboratory 2 hours per week. Total 3 hours per week.

HLT 200 Human Sexuality (3 Cr.)

Provides a basic understanding of human sexuality. Includes anatomy, physiology, pregnancy, family planning, venereal diseases, and sexual variations. Lecture 3 hours per week.

HLT 206 Exercise Science (3 Cr.)

Surveys scientific principles, methodologies, and research as applied to exercise and physical fitness. Emphasizes physiological responses and adaptations to exercise. Addresses basic elements of kinesiology, biomechanics, and motor learning. Presents an introduction to the physical fitness industry. Lecture 3 hours per week

HLT 215 Personal Stress and Stress Management (2 Cr.)

Provides a basic understanding of stress and its physical, psychological and social effects. Includes the relationships between stress and change, self-evaluation, sources of stress and current coping skills for handling stress. Lecture 2 hours per week.

HLT 230 Principles of Nutrition & Human Development (3 Cr.)

Teaches the relationship between nutrition and human development. Emphasizes nutrients, balanced diet, weight control, and the nutritional needs of an individual. Lecture 3 hours per week.

Health Care Technology (HCT)

HCT 115 Medication Administration Training (3 Cr.)

Prepares students to safely administer, or to assist in client self-administration of medications in specific settings. Includes practice. Meets curriculum requirements of the State Board of Nursing. Prerequisite(s): Completion of NUR 27 or another nurse aide course. Lecture 2 hours per week. Laboratory 3 hours per week. Total 5 hours per week.

Health Information Management (HIM)

HIM 110 Introduction to Human Pathology (3 Cr.)

Introduces the basic concepts, terminology, etiology, and characteristics of pathological processes. Prerequisite(s): BIO 145 or BIO 141/142. Lecture 3 hours per week.

HIM 111-112 Medical Terminology I-II (3 Cr.)

Introduces the student to the language used in the health record. Includes a system-by-system review of anatomic disease, operative terms, abbreviations, radiography procedures, laboratory tests and pharmacology terms. Prerequisite(s): Readiness to enroll in ENG 111. HIM 111 for HIM 112. Lecture 3 hours per week.

HIM 130 Healthcare Information Systems (3 Cr.)

Teaches basic concepts of microcomputer software (to include operating systems, word processing, spreadsheets, and database applications). Focuses on microcomputer applications, information systems and applications in the health care environment. Prerequisite(s): Readiness to enroll in ENG 111. ITE 115 strongly recommended. Lecture 3 hours per week.

HIM 141 Fundamentals of Health Information Systems I (3 Cr.)

Focuses on health data collection, storage, retrieval and reporting systems, with emphasis on the role of the computer in accomplishing these functions. Prerequisite(s): Readiness to enroll in ENG 111. ITE 115 preferred. Lecture 3 hours per week.

HIM 143 Managing Electronic Billing in a Medical Practice (3 Cr.)

Presents practical knowledge on use of computer technology in medical practice management. Develops basic skills in preparation of universal billing claim. Explores insurance claim processing issues. Prerequisite(s): Readiness to enroll in ENG 111 and HIM 253. Lecture 3 hours per week.

HIM 220 Health Statistics (2 Cr.)

Introduces the student to basic statistical principles and calculations as applied in the health care environment, procedures for collection and reporting vital statistics, and basic quality control basics. Prerequisite(s): Readiness to enroll in ENG 111 and HIM 141. Lecture 2 hours per week.

HIM 226 Legal Aspects of Health Record Documentation (2 Cr.)

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. Prerequisite(s): Readiness to enroll in ENG 111. Lecture 2 hours per week.

HIM 229 Performance Improvement in Health Care Settings (2 Cr.)

Focuses on concepts of facility wide performance improvement, resource management and risk management. Applies tools for data collection and analysis. Prerequisite(s): Readiness to enroll in ENG 111 and HIM 226. Lecture 1 hour per week. Laboratory 2 hours. Total 3 hours per week.

HIM 230 Information Systems & Technology in Health Care (3 Cr.)

Explores computer technology and system application in health care. Introduces the information systems life cycle. LITE 120 may substitute for HIM 230. Prerequisite(s): Readiness to enroll in ENG 111. Lecture 2 hours per week. Laboratory 3 hours per week. Total 5 hours per week.

HIM 231 Health Record Applications I (3 Cr.)

Uses an integrated approach to practicing health record skills in a simulated clinical environment. Emphasizes the use of the microcomputer in accomplishing problem-solving tasks. Part I of II. Prerequisite(s): HIM 141; HIM 226; HIM 250 and BIO 145. Laboratory 6 hours per week.

HIM 232 Health Record Applications II (3 Cr.)

Continues utilizing an integrated approach to practicing health record skills in a simulated clinical environment. Emphasizes the use of the microcomputer in accomplishing problem-solving tasks. Prerequisite(s): HIM 231. Part II of II. Laboratory 6 hours per week.

HIM 249 Supervision and Management Practices (3 Cr.)

Introduces supervision and management principles with emphasis on the application of these principles in the health information setting. Recommend HIM 141 or HIM 130 prior to this course. Prerequisite(s): Readiness to enroll in ENG 111. Lecture 3 hours per week.

HIM 250 Health Data Classification Systems I (4 Cr.)

Focuses on the current classification systems used in the healthcare industry. Introduces the professional standards for coding and reporting of inpatient/outpatient diagnostic codes as well as inpatient procedures. Utilizes standards in identifying and accurately assigning codes to diseases and procedures as they relate to statistical research and healthcare financing.

Prerequisite(s): Readiness For ENG 111; BIO 145 or BIO 141/142. Co-or-Prerequisite: HIM 110. Lecture 4 hours per week.

HIM 253 Health Records Coding (4 Cr.)

Examines the development of coding classification systems. Introduces ICD-10-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. Prerequisite(s): Readiness to enroll in ENG 111 **and** HIM 111 **and** BIO 145 or BIO 141 **and** BIO 142. Lecture 4 hours per week.

HIM 254 Advanced Coding and Reimbursement (4 Cr.)

Stresses advanced coding skills through practical exercises using actual medical records. Introduces CPT-4 coding system and guidelines for out-patient/ambulatory surgery coding. Introduces prospective payment system and its integration with ICD-10-CM coding. Prerequisite(s): HIM 253 **and** HIM 112. Lecture 4 hours per week.

HIM 255 Health Data Classification Systems II: CPT (2 Cr.)

Focuses on procedure classification using CPT. This system is currently utilized for collecting health data for the purposes of statistical research and financial reporting. Prerequisite(s): BIO 145 (**or** BIO 141 **and** BIO 142), HIM 112, **and** HIM 250. Lecture 2 hours per week.

HIM 260 Pharmacology for Health Information Technology (2 Cr.)

Emphasizes general pharmacology for Health Information professionals; covers general principles of drug actions/reactions, major drug classes, specific agents within each class, and routine mathematical calculation needed to determine desired dosages. Prerequisite(s): HIM 110. Lecture 2 hours per week.

HIM 290 Coordinated Internship (3 Cr.)

Supervises on-the-job training in selected business, industrial or service firms coordinated by the college. Credit/practice ratio not to exceed 1:5 hours per week. Pre-requisites: Completion of the following HIM core courses with a grade of "C" or better: HIM 130, HIM 141, HIM 226, HIM 230 (or ITE 120), HIM 231, HIM 249, HIM 250, HIM 255. Concurrent enrollment in HIM 220 with HIM 290 (if not taken previous to HIM 290), HIM 229, HIM 232 May be repeated for credit.

HIM 298 Seminar and Project (1 Cr.)

Requires completion of a project or research report related to the student's occupational objectives and a study of approaches to the selection and pursuit of career opportunities in the field. To be taken in final semester.

Health Information Technology (HIT)**HIT 298 Seminar and Project (2 Cr.)**

Requires completion of a project or research report related to the student's occupational objectives and a study of approaches to the selection and pursuit of career opportunities in the field.

History (HIS)**HIS 101 History of Western Civilization I (3 Cr.)**

Examines the development of western civilization from ancient times to the present. Part I of II. Lecture 3 hours per week.

****This course is only offered to Dual Enrolled students at Dual Enrollment sites.****

HIS 102 History of Western Civilization II (3 Cr.)

Examines the development of western civilization from ancient times to the present. Part II of II. Lecture 3 hours per week.

****This course is only offered to Dual Enrolled students at Dual Enrollment sites.****

HIS 111-112 History of World Civilization I-II (3 Cr. each)

Surveys Asian, African, Latin American and European civilizations from the ancient period to the present. Prerequisite(s): Readiness to enroll in ENG 111. Lecture 3 hours per week.

HIS 121-122 United States History I-II (3 Cr. each)

Surveys United States history from its beginning to the present. Prerequisite(s): Readiness to enroll in ENG 111. Lecture 3 hours per week.

HIS 251-252 History of Middle East Civilization I-II (3 Cr. each)

Surveys intellectual, cultural, social, economic and religious patterns in the civilizations of the Middle East. Covers Semitic, Indo-European, and Turkic-speaking peoples from pre-Islamic to the present. Prerequisite(s): Readiness to enroll in ENG 111. Lecture 3 hours per week.

HIS 253 -254 History of Asian Civilizations I-II (3 Cr. each)

Surveys the civilizations of Asia from their origins to the present. Prerequisite(s): Readiness to enroll in ENG 111. Lecture 3 hours per week.

HIS 267 The Second World War (3 Cr.)

Examines causes and consequences of the Second World War. Includes the rise of totalitarianism, American neutrality, military developments, the home fronts, diplomacy and the decision to use the atomic bomb. Prerequisite(s): Readiness to enroll in ENG 111. Lecture 3 hours per week.

HIS 269 Civil War and Reconstruction (3 Cr.)

Studies factors that led to the division between the States. Examines the war, the home fronts, and the era of Reconstruction. Prerequisite(s): Readiness to enroll in ENG 111. Lecture 3 hours per week.

HIS 276 United States History Since World War II (3 Cr.)

Investigates United States history from 1946 to the present, studying both domestic developments and American involvement in international affairs. Prerequisite(s): Readiness to enroll in ENG 111. Lecture 3 hours per week.

HIS 279 Age of The American Revolution (3 Cr.)

Examines the factors that led to the separation of the American colonies from Great Britain. The course covers the events leading to the Revolutionary War, the problems faced by the revolutionary government in fighting the war, the war itself, and the postwar events leading to the adoption of the United States Constitution. Prerequisite(s): Readiness to enroll in ENG 111. Lecture 3 hours per week.

HIS 281 History of Virginia I (3 Cr.)

Examines the cultural, political, and economic history of the Commonwealth from its beginning to the present. Prerequisite(s): Readiness to enroll in ENG 111. Lecture 3 hours per week.

Human Services (HMS)**HMS 100 Introduction to Human Services (3 Cr.)**

Introduces human service agencies, roles and careers. Presents an historical perspective of the field as it relates to human services today. Additional topics include values clarification and needs of target populations. Prerequisite(s): Readiness to enroll in ENG 111. Lecture 3 hours per week.

HMS 121 Basic Counseling Skills I (3 Cr.)

Develops skills needed to function in a helping relationship. Emphasizes skills in attending, listening and responding. Clarifies personal skill strengths, deficits and goals for skill improvement. Prerequisite(s): Readiness to enroll in ENG 111 and HMS 100. Lecture 3 hours per week.

HMS 141 Group Dynamics I (3 Cr.)

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.

HMS 290 Coordinated Internship (3 Cr.)

Supervises on-the-job training in selected business, industrial or service firms coordinated by the college. Prerequisite(s): ENG 111, HMS 100, HMS 121, 2 HMS/SOC/PSY electives, instructor permission.

Humanities (HUM)**HUM 195 Leadership Development (3 Cr.)**

This course is designed to provide emerging and existing leaders the opportunity to explore the concept of leadership and to develop and improve their leadership skills. The course integrates readings from the humanities, experiential exercises, films, and contemporary readings on leadership. Prerequisite(s): Readiness to enroll in ENG 111. Lecture 3 hours per week.

HUM 201 Survey of Western Culture I (3 Cr.)

Studies thought, values and arts of Western culture, integrating major developments in art, architecture, literature, music and philosophy. Covers the following periods: Ancient and Classical, Early Christian and Byzantine, Medieval and early Renaissance. Prerequisite(s): Readiness to enroll in ENG 111. Lecture 3 hours per week.

HUM 202 Survey of Western Culture II (3 Cr.)

Studies thought, values and arts of Western culture, integrating major developments in art, architecture, literature, music and philosophy. Covers the following periods: Renaissance, Baroque, Enlightenment, Romantic and Modern. Prerequisite(s): Readiness to enroll in ENG 111. Lecture 3 hours per week.

HUM 215 Native American Culture (3 Cr.)

Surveys the cultural history of Native (Indian) peoples in the Americas from the pre-Columbian era until the present. Studies history, religion, literature, arts, life-ways and world-views which comprise the diverse traditions of Native peoples. Prerequisite(s): Readiness to enroll in ENG 111. Lecture 3 hours per week.

HUM 256 Mythology in Literature and the Arts (3 Cr.)

Studies cultural expression of mythology in literature and the arts. Considers several of the following mythologies, with emphasis on parallels and divergences: Egyptian, Near-Eastern, Greek, Roman, Celtic, Norse, Asian and African. Lecture 3 hours per week. ****This course is only offered to Dual Enrolled students at Dual Enrollment sites.****

HUM 298 Honors Leadership Seminar (3 Cr.)

Provides emerging and existing leaders the opportunity to explore the concept of leadership and to develop and improve their leadership skills. The course uses a humanities-based approach and integrates readings from the humanities, films, and contemporary readings to explore contemporary leadership. Prerequisite(s): Completion of ENG 112. Lecture 3 hours per week.

Industrial Engineering Tech (IND)**IND 145 Introduction to Metrology (3 Cr.)**

Studies principles of measurement and calibration control, application of statistics to measurement processes, and standards of measurements in calibration. May include the use of gauges and instruments in modern production and dimensional control concepts. Prerequisite: MTH 131 or any higher level math. Lecture 2 hours per week. Laboratory 2 hours per week. Total 4 hours per week.

Information Technology Design and Database (ITD)**ITD 110 Web Page Design I (3 Cr.)**

Stresses a working knowledge of Web site designs, construction and management using HTML or XHTML. Course content includes headings, lists, links, images, image maps, tables, forms and frames. Prerequisite(s): Readiness to enroll in ENG 111 and ITE 115 (or equivalent) strongly recommended. Lecture 3 hours per week.

ITD 112 Designing Web Page Graphics (3 Cr.)

Explores the creation of digital graphics for Web design. Basic design elements such as color and layout will be explored utilizing a computer graphics program(s). Prerequisite(s): Readiness to enroll in ENG 111. ITD 110 (or equivalent) strongly recommended. Lecture 3 hours per week.

ITD 130 Database Fundamentals (3 Cr.)

Introduces the student to Relational Database and Relational Database theory. Includes planning, defining and using a database; table design, linking and normalization; types of databases, database description and definition. Prerequisite(s): Readiness to enroll in ENG 111. ITE 115 (or equivalent) strongly recommended. Lecture 3 hours per week.

ITD 132 Structured Query Language (3 Cr.)

Incorporates a working introduction to commands, functions and operators used in SQL for extracting data from standard databases. Prerequisite(s): Readiness to enroll in ENG 111 and ITD 130. Lecture 3 hours per week.

ITD 134 PL/SQL Programming (3 Cr.)

Presents a working introduction to PL/SQL programming with the Oracle RDBMS environment. Includes PL/SQL fundamentals of block program structure, variables, cursors and exceptions and creation of program units of procedures, functions, triggers and packages. Prerequisite(s): Readiness to enroll in ENG 111 and ITP 100 and ITD 130. Lecture 3 hours per week.

ITD 210 Web Page Design II (3 Cr.)

Incorporates advanced techniques in Web site planning, design, usability, accessibility, advanced site management and maintenance utilizing Web editor software(s). Prerequisite(s): Readiness to enroll in ENG 111 and ITD 110. Lecture 3 hours per week.

ITD 250 Database Architecture and Administration (3 Cr.)

Involves in-depth instruction about the underlying architecture of databases and the handling of database administration. Prerequisite(s): Readiness to enroll in ENG 111 and ITD 130 and ITD 132. ITD 134 can be pre or corequisite. Lecture 3 hours per week.

Information Technology Essentials (ITE)

ITE 115 Introduction to Computer Applications and Concepts (3 Cr.)

Covers computer concepts and Internet skills and use of a software suite which includes word processing, spreadsheet, database and presentation software to demonstrate skills required for computer literacy. Prerequisite(s): Readiness to enroll in ENG 111 and keyboarding skills highly recommended. Lecture 3 hours per week.

ITE 119 Information Literacy (3 Cr.)

Presents the information literacy core competencies focusing on the use of information technology skills. Skills and knowledge will be developed in database searching, computer applications, information security and privacy, and intellectual property issues. Prerequisite(s): Readiness to enroll in ENG 111 and keyboarding skills highly recommended. Lecture 3 hours per week.

ITE 120 Principles of Information Systems (3 Cr.)

Provides an overview of the fundamentals of computer information systems. Focuses on the role of computers in business today including hardware, software, analysis, design and implementation of information systems. Includes an introduction to computer ethics, and business and personal security. Exposes students to techniques used in programming and system development. Utilizes a hands-on component for spreadsheets, databases, and Web design applications. Prerequisite(s): Readiness to enroll in ENG 111. ITE 115 recommended. Lecture 3 hours per week.

ITE 221 PC Hardware and OS Architecture (3 Cr.)

Covers instruction about processors, internal functions, peripheral devices, computer organization, memory management, architecture, instruction format, and basic OS architecture. Prerequisite(s): ITN 100. Lecture 3 hours.

Information Technology Networking (ITN)

ITN 100 Introduction to Telecommunications (3 Cr.)

Surveys data transmission systems, communication lines, data sets, network, modes of transmission, protocols, and interfacing. Emphasizes network structure and operation. Prerequisite(s): Demonstrated competency in MTE 1-5 or co-requisite of MTH 154 and Readiness to enroll in ENG 111. Lecture 3 hours per week.

ITN 101 Introduction to Network Concepts (3-4 Cr.)

Provides instruction in networking media, physical and logical topologies, common networking standards and popular networking protocols. Emphasizes the TCP/IP protocol suite and related IP addressing schemes, including CIDR. Includes selected topics in network implementation, support and LAN/WAN connectivity. Lecture 3-4 hours per week. ****This course is only offered to Dual Enrolled students at Dual Enrollment sites.****

ITN 106 Microcomputer Operating Systems (3-4 Cr.)

Teaches use of operating system utilities and multiple-level directory structures, creation of batch files and configuration of microcomputer environments. May include a study of graphical user interfaces. Lecture 3-4 hours per week. ****This course is only offered to Dual Enrolled students at Dual Enrollment sites.****

ITN 107 Personal Computer Hardware & Troubleshooting (3 Cr.)

Includes specially designed instruction to give students a basic knowledge of hardware and software configurations. It includes the installation of various peripheral devices as well as basic system hardware components. Maps to A+ Hardware Certification. Prerequisite(s): Readiness to enroll in ENG 111. Lecture 3 hours per week.

ITN 124 Wireless Network Administration (3)

Incorporates instruction in the fundamentals of radio frequency and spread spectrum technology and wireless networking systems implementation and design. Includes radio frequency and spread spectrum concepts, 802.11 standards and regulations, wireless network architecture, topology, software, equipment, OSI Model, site surveys, security features, and the design and implementation of wireless network solutions. Prerequisite(s): Readiness to enroll in ENG 111. Lecture 3 hours per week.

ITN 170 Linux System Administration (3 Cr.)

Focuses instruction on the installation, configuration and administration of the Linux operating system and emphasizes the use of Linux as a network client and workstation. Prerequisite(s): Readiness to enroll in ENG 111. Lecture 3 hours per week.

ITN 200 Administration of Network Resources (3 Cr.)

Focuses on the management of local area network servers. Teaches proper structuring of security systems. Explains print queues, disk management and other local area network (LAN) issues. Presents concerns and issues for the purchase and installation of hardware and software upgrades. Can be taught using any network operating system or a range of operating systems as a delivery tool. Prerequisite(s): Readiness to enroll in ITN 100. Lecture 3 hours per week.

ITN 260 Security Basics (3 Cr.)

Provides instruction in the basics of network security in depth. Course content includes security objectives, security architecture, security models and security layers. Course content also includes risk management, network security policy and security training. Course content includes the give security keys, confidentiality integrity, availability, accountability and auditability. Prerequisite(s): Readiness to enroll in ENG 111 **and** ITN 100 or permission of instructor. Lecture 3 hours per week.

ITN 261 Network Attacks, Comp. Crime & Hacking (3 Cr.)

Encompasses in-depth exploration of various methods for attacking and defending a network. Course content explores network security concepts from the viewpoint hackers and their attack methodologies. Course content also includes topics about hackers, attacks, Intrusion Detection Systems (IDS) malicious code, computer crime and industrial espionage. Prerequisite(s): Readiness to enroll in ENG 111 and ITN 260. Networking background highly recommended. Lecture 3 hours per week.

ITN 262 Network Comm., Sec. & Authentication (3 Cr.)

Covers an in-depth exploration of various communication protocols with a concentration on TCP/IP. Course content explores communication protocols from the point of view of the hacker in order to highlight protocol weaknesses. Course content includes Internet architecture, routing, addressing, topology, fragmentation and protocol analysis and the use of various utilities to explore TCP/IP. Prerequisite(s): Readiness to enroll in ENG 111 and ITN 260. Networking background highly recommended. Lecture 3 hours per week.

ITN 263 Internet/Intranet Firewalls & E-Com Sec. (3 Cr.)

Conveys an in-depth exploration of firewall, Web security and e-commerce security. Course content also explores firewall concepts, types, topology and the firewall's relationship to the TCP/IP protocol. Course content also includes client/server architecture, the Web server, HTML and HTTP in relation to Web Security and digital certification, D.509 and public key infrastructure (PKI). Prerequisite(s): Readiness to enroll in ENG 111 and ITN 260; networking background highly recommended. Lecture 3 hours per week.

ITN 266 Network Security Layers (3 Cr.)

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. Prerequisite(s): ITN 260. Lecture 3 hours per week.

ITN 267 Legal Topics in Network Security (3 Cr.)

Conveys an in-depth exploration of the civil and common law issues that apply to network security. Explores statutes, jurisdictional, and constitutional issues related to computer crimes and privacy. Includes rules of evidence, seizure and evidence handling, court presentation and computer privacy in the digital age. Prerequisite(s): ITN 260. Lecture 3 hours per week.

ITN 276 Computer Forensics I (3 Cr.)

Teaches computer forensic investigation techniques for collecting computer-related evidence at the physical layer from a variety of digital media (hard drives, compact flash and PDAs) and performing analysis at the file system layer. Prerequisite(s): ITE 221 or ITN 107 or instructor permission. Co-requisite or Prerequisite(s): ITN 260. Lecture 3 hours per week.

ITN 298 Seminar and Project (3 Cr.)

Requires completion of a project or research report related to the student's occupational objectives and a study of approaches to the selection and pursuit of career opportunities in the field. Prerequisite(s): Permission of the CAE Program Faculty Lead. Lecture 3 hours per week.

Information Technology Programming (ITP)

ITP 100 Software Design (3 Cr.)

Introduces principles and practices of software development. Course content includes instruction in critical thinking, problem solving skills and essential programming logic in structured and object-oriented design using contemporary tools.

Prerequisite(s): Readiness to enroll in ENG 111. Lecture 3 hours per week.

ITP 112 Visual Basic.NET I (4 Cr.)

Concentrates instruction in fundamentals of object-oriented programming using Visual Basic.NET and the .NET framework.

Course content emphasizes program construction, algorithm development, coding, debugging and documentation of graphical user interface applications. Prerequisite(s): Readiness to enroll in ENG 111 and ITP 100. Lecture 3 hours per week.

ITP 120 Java Programming I (4 Cr.)

Entails instruction in fundamentals of object-oriented programming using Java. This course emphasizes program construction, algorithm development, coding, debugging and documentation of console and graphical user interface applications. Prerequisite(s): Readiness to enroll in ENG 111 and ITP 100. Lecture 4 hours per week.

ITP 160 Intro to Game Design & Development (3 Cr.)

Introduces object-oriented game design and development. Provides overview of the electronic game design and development process and underlines the historical context, content creation strategies, game careers, and future trends in the industry.

Utilizes a game language environment to introduce game design, object-oriented paradigms, software design, software development and product testing. Teaches skills of writing a game design document and creating a game with several levels and objects. Integrate 2D animations, 3D models, sound effects, and background music as well as graphic backgrounds.

Prerequisite(s): Readiness to enroll in ENG 111 and ITP 100. Lecture 3 hours per week.

ITP 212 Visual Basic.NET II (4 Cr.)

Includes instruction in application of advanced object-oriented techniques to application development. Course content emphasizes database connectivity, advanced controls, Web forms and Web services using Visual Basic.NET. Prerequisite(s): Readiness to enroll in ENG 111 and ITP 112. Lecture 4 hours per week.

ITP 220 Java Programming II (4 Cr.)

Imparts instruction in application of advanced object-oriented techniques to application development using Java. Emphasizes database connectivity, inner classes, collection classes, networking, and threads. Prerequisite(s): Readiness to enroll in ENG 111. Prerequisite: ITP 120. Lecture 4 hours per week.

ITP 225 Web Scripting Languages (3 Cr.)

Introduces students to the principles, systems and tools used to implement Web applications. Provides students with a comprehensive introduction to the programming tools and skills required to build and maintain interactive Web sites.

Students will develop Web applications utilizing client-side and server-side scripting languages along with auxiliary tools needed for complete applications. Prerequisite(s): Readiness to enroll in ENG 111, and ITD 110 and ITP 100. Lecture 3 hours per week.

ITP 251 Systems Analysis and Design (4 Cr.)

Focuses on application of information technologies (IT) to system life cycle methodology, systems analysis, systems design and system implementation practices. 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. Prerequisite(s): Successful completion of a minimum of 9 IT credit hours. This is intended to be a fourth semester capstone course; as such, proficiency in Internet and network fundamentals, database management and software design is required. Prerequisite(s): Readiness to enroll in ENG 111. Students must complete any four (4) of the IT core courses (ITN 100, ITN 107, ITP 100, ITD 110, ITD 130, ITE 120) or receive instructor permission prior to enrolling in ITP 251. Lecture 4 hours per week.

ITP 270 Programming for Cybersecurity (4 Cr.)

Teaches scripting and programming techniques for automating security tasks such as network monitoring and penetration testing using a high-level programming language common to cybersecurity professionals. Includes how to write custom tools and the basics of developing software exploits. This course can be used to satisfy the programming elective in the Cybersecurity AAS. Prerequisite(s): ITP 100. Lecture 4 hours per week.

Interpreter Education (INT)

INT 105-106 Interpreter Education (3 Cr.)

Develops fundamental skills of interpreting, including cognitive processes and intralingua language development in English and ASL. Reviews models of interpreting and uses one to analyze interpretations. Develops feedback skills essential to the team interpreting process. Lecture 3 hours per week.

INT 130 Interpreting: An Intro. to the Profession (3 Cr.)

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.

Japanese (JPN)

JPN 101 Beginning Japanese I (4-5 credits)

Develops the understanding, speaking, reading, and writing of Japanese, and emphasizes the structure of the language. Part I of II. Lecture 4-5 hours per week. May include one additional hour of oral practice per week.

JPN 102 Beginning Japanese II (4-5 Cr.)

Develops the understanding, speaking, reading, and writing of Japanese, and emphasizes the structure of the language. Part II of II. Lecture 4-5 hours per week. May include one additional hour of oral practice per week.

JPN 201 Intermediate Japanese I (3-4 Cr.)

Continues the development of the skills of understanding, speaking, reading, and writing of Japanese. Classes conducted in Japanese. Prerequisite(s): JPN 102. Part I of II. Lecture 3-4 hours per week. May include one additional hour of oral practice per week.

JPN 202 Intermediate Japanese II (3-4 Cr.)

Continues the development of the skills of understanding, speaking, reading, and writing of Japanese. Classes conducted in Japanese. Prerequisite(s): JPN 102. Part II of II. Lecture 3-4 hours per week. May include one additional hour of oral practice per week.

Latin (LAT)

LAT 201-202 Intermediate Latin I-II (3-4 Cr. each)

Introduces the reading of classical Latin with a review of Latin grammar, forms and syntax. Prerequisite(s): two years of high school Latin or one year of college Latin. Lecture 3-4 hours per week. ****This course is only offered to Dual Enrolled students at Dual Enrollment sites.****

Legal Administration (LGL)

LGL 110 Introduction to the Law and the Paralegal (3 Cr.)

Introduces various areas of law in which a paralegal may be employed. Includes study of the court system (Virginia and federal); a brief overview of criminal law, torts, family law, evidence, the U.C.C., contracts, and ethics; the role of the paralegal; and other areas of interest. Lecture 3 hours per week.

LGL 115 Real Estate Law for Legal Assistants (3 Cr.)

Studies law of real property and gives in-depth survey of the more common types of real estate transactions and conveyances such as deeds, contracts, leases and deeds of trust. Focuses on drafting these various instruments and studies the system of recording and search of public documents. Prerequisite(s): Readiness to enroll in ENG 111. Lecture 3 hours per week.

LGL 117 Family Law (3 Cr.)

Studies elements of a valid marriage, grounds for divorce and annulment, separation, defenses, custody, support, adoptions and applicable tax consequences. Includes property settlement, pre- and ante-nuptial agreements, pleadings and rules of procedure. May include specific federal and Virginia consumer laws. Prerequisite(s): Readiness to enroll in ENG 111. Lecture 3 hours per week.

LGL 125 Legal Research (3 Cr.)

Provides an understanding of various components of a law library and emphasizes research skills through the use of digests, encyclopedias, reporter systems, codes, Shepard's Citations, ALR and other research tools. May include overview of computer applications and writing projects. Prerequisite(s): Readiness to enroll in ENG 111. Lecture 3 hours per week.

LGL 126 Legal Writing (3 Cr.)

Studies proper preparation of various legal documents, including case and appeal briefs, legal memoranda, letters and pleadings. Involves practical applications. Requires competence in English grammar. Prerequisite(s): Readiness to enroll in ENG 111. Lecture 3 hours per week.

LGL 130 Law Office Administration & Management (3 Cr.)

Introduces management principles and systems applicable to law firms, including record keeping, disbursements, escrow accounts, billing and purchasing. May include accounting methods and software packages applicable to law firms. Prerequisite(s): Readiness to enroll in ENG 111. Lecture 3 hours per week.

LGL 200 Ethics for the Legal Assistant (1 Cr.)

Examines general principles of ethical conduct applicable to legal assistant. Includes the application of rules of ethics to the practicing legal assistant. Prerequisite(s): Readiness to enroll in ENG 111. Lecture 1 hour per week.

LGL 215 Torts (3 Cr.)

Studies fundamental principles of the law of torts, including preparation and use of pleadings and other documents involved in the trial of a civil action. Emphasizes personal injury and medical malpractice cases. Prerequisite(s): Readiness to enroll in ENG 111. Lecture 3 hours per week.

LGL 216 Trial Preparation and Discovery Practice (3 Cr.) Examines the trial process, including the preparation of a trial notebook, pretrial motions, and orders. May include preparation of interrogatories, depositions, and other discovery tools used in assembling evidence in preparation for the trial or an administrative hearing. Prerequisite(s): Readiness to enroll in ENG 111. Lecture 3 hours per week.

LGL 217 Trial Practice and the Law of Evidence (3 Cr.)

Introduces civil and criminal evidence; kinds, degrees and admissibility of evidence; and methods and techniques of its acquisition. Emphasizes Virginia and federal rules of evidence. Focuses on elements of a trial and various problems associated with the trial of a civil or criminal case. Prerequisite(s): Readiness to enroll in ENG 111. Lecture 3 hours per week.

LGL 218 Criminal Law (3 Cr.)

Focuses on major crimes, including their classification, elements of proof, intent, conspiracy, responsibility, parties and defenses. Emphasizes Virginia law. May include general principles of applicable constitutional law and criminal procedure. Prerequisite(s): Readiness to enroll in ENG 111. Lecture 3 hours per week.

LGL 225 Estate Planning and Probate (3 Cr.)

Introduces various devices used to plan an estate, including wills, trust, joint ownership and insurance. Considers various plans in light of family situations and estate objectives. Focuses on practices involving administration of an estate including taxes and preparation of forms. Prerequisite(s): Readiness to enroll in ENG 111. Lecture 3 hours per week.

LGL 230 Legal Transactions (3 Cr.)

Presents an in-depth study of general contract law, including formation, breach, enforcement, and remedies. May include an overview of UCC sales, commercial paper, and collections. Prerequisite(s): Readiness to enroll in ENG 111. Lecture 3 hours per week.

LGL 235 Legal Aspects of Business Organizations (3 Cr.)

Studies fundamental principles of agency law and the formation of business organizations. Includes sole proprietorships, partnerships, corporation, limited liability companies, and other business entities. Reviews preparation of the documents necessary for the organization and operation of businesses. Prerequisite(s): Readiness to enroll in ENG 111. Lecture 3 hours per week.

LGL 236 Elder Law (3 Cr.)

Explores the legal issues affecting the elderly population such as Social Security, Supplemental Security Income (SSI), Medicare, Medicaid, long-term care insurance, retirement housing and long-term care options, age discrimination, elder abuse and neglect, and estate and planning issues related to incapacity, guardianship, advanced medical directives, power-of-attorney, and end of life decisions. Prerequisite(s): Readiness to enroll in ENG 111. Lecture 3 hours per week.

LGL 238 Bankruptcy (3 Cr.)

Provides a practical understanding of non-bankruptcy alternatives and the laws of bankruptcy including Chapters 7, 11, 12 and 13 of the Bankruptcy Code. Emphasizes will be placed on preparing petitions, schedules, statements, and other forms. Prerequisite(s): Readiness to enroll in ENG 111. Lecture 3 hours per week.

LGL 250 Immigration Law (3 Cr.)

Provides an introduction to immigration law and policy, giving an overview of the United States legal system that regulates the admission, exclusion, removal and naturalization of immigrants. Includes issues concerning refugees, asylum seekers, illegal immigrants, and undocumented aliens. Prerequisite(s): Readiness to enroll in ENG 111. Lecture 3 hours per week.

LGL 298 Seminar and Project (3 Cr.)

Requires completion of a project or research report related to the students' occupational objectives and a study of approaches to the selection and pursuit of career opportunities in the field. May be repeated for credit.

Marketing (MKT)**MKT 100 Principles of Marketing (3 Cr.)**

Presents principles, methods and problems involved in the marketing of goods, services and ideas to consumers and organizational buyers. Discusses present-day problems and policies connected with distribution and sale of products, pricing, promotion and buyer motivation. Examines variations of the marketing mix and market research, plus legal, social, ethical and international considerations in marketing. Lecture 3 hours per week.

MKT 120 Fundamentals of Fashion (3 Cr.)

Develops an understanding of the principles and procedures involved in the production, distribution and consumption of fashion merchandise. Traces the history and development of fashion and how these changes affect the fashion merchandising world. Lecture 3 hours per week. ****This course is only offered to Dual Enrolled students at Dual Enrollment sites.****

MKT 228 Promotion (3 Cr.)

Presents an overview of promotion activities including advertising, visual merchandising, publicity and sales promotion. Focuses on coordinating these activities into an effective campaign to promote sales for a particular product, business, institution, or industry. Emphasizes budgets, selecting media and analyzing the effectiveness of the campaign. Lecture 3 hours per week.

MKT 229 - Marketing Research (3 Cr.)

Introduces the marketing research process to include methodology, data collection, sampling, and analysis. Focuses on planning basic research studies and applying the findings to marketing decisions. Lecture 3 hours per week.

MKT 271 Consumer Behavior (3 Cr.)

Examines the various influences affecting consumer buying behavior before, during and after product purchase. Describes personal, societal, cultural, environmental, group and economic determinants on consumer buying. Lecture 3 hours per week.

MKT 282 Principles of E-Commerce (3 Cr.)

Studies online business strategies and the hardware and software tools necessary for Internet commerce. Includes the identification of appropriate target segments, the development of product opportunities, pricing structures, distribution channels and execution of marketing strategies. Lecture 3 hours per week.

Math Essentials (MTE)**MTE 1 Operations with Positive Fractions (1 Cr.)**

Includes operations and problem solving with proper fractions, improper fractions, and mixed numbers without the use of a calculator. Emphasizes applications and includes U. S. customary units of measure. Credit is not applicable toward graduation. Prerequisite(s): Qualifying placement score. Lecture 1 hour per week.

MTE 2 Operations with Positive Decimals & Percents (1 Cr.)

Includes operations and problem solving with positive decimals and percents. Emphasizes applications and includes U. S. customary and metric units of measure. Credit is not applicable toward graduation. Prerequisite(s): MTE 1 or qualifying placement score. Lecture 1 hour per week.

MTE 3 Algebra Basics (1 Cr.)

Includes basic operations with algebraic expressions and solving simple algebraic equations using signed numbers with emphasis on applications. Credit is not applicable toward graduation. Prerequisite(s): MTE 2 or qualifying placement score. Lecture 1 hour per week.

MTE 4 First Degree Equations & Inequalities in One Variable (1 Cr.)

Includes solving first degree equations and inequalities containing one variable, and using them to solve application problems. Emphasizes applications and problem solving. Credit is not applicable toward graduation. Prerequisite(s): MTE 3 or qualifying placement score. Lecture 1 hour per week.

MTE 5 Linear Equations, Inequalities and Systems of Linear Equations in Two Variable (1 Cr.)

Includes finding the equation of a line, graphing linear equations and inequalities in two variables and solving systems of two linear equations. Emphasizes writing and graphing equations using the slope of the line and points on the line, and applications. Credit is not applicable toward graduation. Prerequisite(s): MTE 4 or qualifying placement score. Lecture 1 hour per week.

MTE 6 Exponents, Factoring & Polynomial Equations (1 Cr.)

The student will learn to perform operations on exponential expressions and polynomials. Students will also learn techniques to factor polynomials and use these techniques to solve polynomial equations. Emphasis should be on learning all the different factoring methods, and solving application problems using polynomial equations. Credit is not applicable toward graduation. Prerequisite(s): MTE 5 or qualifying placement score. Lecture 1 hour per week.

MTE 7 Rational Expressions and Equations (1 Cr.)

Includes simplifying rational algebraic expressions, solving rational algebraic equations and solving applications that use rational algebraic equations. Credit is not applicable toward graduation. Prerequisite(s): MTE 6 or qualifying placement score. Lecture 1 hour per week.

MTE 8 Rational Exponents and Radicals (1 Cr.)

Includes simplifying radical expressions, using rational exponents, solving radical equations and solving applications using radical equations. Credit is not applicable toward graduation. Prerequisite(s): MTE 7 or qualifying placement score. Lecture 1 hour per week.

MTE 9 Functions, Quadratic Equations & Parabolas (1 Cr.)

Includes an introduction to functions in ordered pair, graph, and equation form. Also introduces quadratic functions, their properties and their graphs. Credit is not applicable toward graduation. Prerequisite(s): MTE 8 or qualifying placement score. Lecture 1 hour per week.

Mathematics (MTH)**MTH 3 Bundle 1-3: Operations with Fractions, Decimals, and Percents and Algebra Basics (3 Cr.)**

Includes operations and problem solving with proper fractions, improper fractions, and mixed numbers without the use of a calculator; operations and problem solving with positive decimals and percents; basic operations with algebraic expressions and solving simple algebraic equations using signed numbers. Emphasizes applications and includes U. S. customary and metric units of measure. Credit is not applicable toward graduation. Prerequisite(s): Qualifying placement score. Lecture 3 hours per week.

MTH 5 Bundle 4-5: First Degree Equations and Inequalities and Systems of Linear Equations (2 Cr.)

Includes solving first degree equations and inequalities containing one variable, and using them to solve application problems. Emphasizes applications and problem solving. 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. Prerequisite(s): MTE 1-3 or qualifying placement score. Lecture 2 hours per week.

MTH 9 Bundle 6-9: Exponents, Factoring, Poly Equations, Rational Expressions and Equations (4 Cr.)

Includes performing operations on exponential expressions and polynomials, factoring polynomials, solving polynomial equations, simplifying rational algebraic expressions, solving rational algebraic equations, simplifying radical expressions, using rational exponents, solving radical equations, working with functions in different forms: ordered pair, graph, and equation form. Also introduces quadratic functions, their properties and their graphs. Emphasis should be on learning all the different factoring methods, and solving application problems using polynomial, rational and radical equations. Credit is not applicable toward graduation. Prerequisite(s): MTE 1-5 or qualifying placement score. Lecture 4 hours per week.

MTH 130 Fundamentals of Reasoning (3 Cr.)

Presents elementary concepts of algebra, linear graphing, financial literacy, descriptive statistics, and measurement & geometry. Based on college programs being supported by this course, colleges may opt to add additional topics such as logic or trigonometry. This course is intended for occupational/technical programs. Prerequisite(s): Competency in MTE 1-3 as demonstrated through placement or unit completion or equivalent or Corequisite: MCR 2. Lecture 3 hours per week.

MTH 131 Technical Mathematics (3 Cr.)

Presents algebra through unit conversion, trigonometry, vectors, geometry, and complex numbers. This course is intended for CTE programs. Prerequisite(s): Competency in MTE 1-6 as demonstrated through placement or unit completion or equivalent or Corequisite: MCR 3. Lecture 3 hours per week.

MTH 133 Mathematics for Health Professions (3 Cr.)

Presents in context the arithmetic of fractions and decimals, the metric system and dimensional analysis, percents, ratio and proportion, linear equations, topics in statistics, topics in geometry, logarithms, topics in health professions including dosages, dilutions and IV flow rates. This course is intended for programs in the Health Professions. Prerequisite(s): Competency in MTE 1-3 as demonstrated through placement or unit completion or equivalent or Corequisite: MCR 9. Lecture 3 hours per week.

MTH 154 Quantitative Reasoning (3 Cr.)

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. Prerequisite(s): Competency in MTE 1-5 as demonstrated through placement or unit completion or equivalent or Corequisite: MCR 4, Learning Support for Quantitative Reasoning. Lecture 3 hours per week.

MTH 155 Statistical Reasoning (3 Cr.)

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. Prerequisite(s): Competency in MTE 1-5 as demonstrated through placement or unit completion or equivalent or Corequisite: MCR 5, Learning Support for Statistical Reasoning. Lecture 3 hours per week.

MTH 161 Precalculus I (3 Cr.)

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. Prerequisite(s): Competency in MTE 1-9 as demonstrated through placement or unit completion or equivalent or Corequisite: MCR 6, Learning Support for Precalculus I. Lecture 3 hours per week.

MTH 162 Precalculus II (3 Cr.)

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. Prerequisite(s): Placement or completion of MTH 161, Precalculus I or equivalent with a grade of C or better. Lecture 3 hours per week.

MTH 167 Precalculus with Trigonometry (5 Cr.)

Presents topics in power, polynomial, rational, exponential, and logarithmic functions, systems of equations, trigonometry, and trigonometric applications, including Law of Sines and Cosines, and an introduction to conics. Credit will not be awarded for both MTH 167, Precalculus with Trigonometry; and MTH 161/MTH 162, Precalculus I and II or equivalent. Prerequisite(s): Competency in MTE 1-9 as demonstrated through placement or unit completion or equivalent or Corequisite: MCR 7, Learning Support for Precalculus w/ Trigonometry. Lecture 5 hours per week.

MTH 245 Statistics I (3 Cr.)

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. Prerequisite(s): Completion of MTH 154 or MTH 161 or equivalent with a grade of C or better. Prerequisite: MTE 1-9. Lecture 3 hours per week.

MTH 246 Statistics II (3 Cr.)

Completion of MTH 245, Statistics I or equivalent with a grade of C or better. Prerequisite(s): Completion of MTH 245 or equivalent with a grade of C or better. Lecture 3 hours per week.

MTH 261 Applied Calculus (3 Cr.)

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. Prerequisite(s): Completion of MTH 161 or equivalent with a grade of C or better. Lecture 3 hours per week.

MTH 262 Applied Calculus II (3 Cr.)

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. Prerequisite(s): Completion of MTH 261 or equivalent with a grade of C or better. Lecture 3 hours per week.

MTH 263 Calculus I (4 Cr.)

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. Prerequisite(s): Completion of MTH 167 or MTH 161/162 or equivalent with a grade of C or better. Lecture 4 hours per week.

MTH 264 Calculus II (4 Cr.)

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. Prerequisite(s): Completion of MTH 263 or equivalent with a grade of C or better. Lecture 4 hours per week.

MTH 265 Calculus III (4 Cr.)

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. Prerequisite(s): Completion of MTH 264: Calculus II or equivalent with a grade of C or better. Lecture 4 hours per week.

MTH 266 Linear Algebra (3 Cr.)

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. Prerequisite(s): 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. Lecture 3 hours per week.

MTH 267 Differential Equations (3 Cr.)

Introduces ordinary differential equations. Includes first order differential equations, second and higher order ordinary differential equations with applications and numerical methods. Prerequisite(s): Completion of MTH 264 or equivalent with a grade of C or better. Lecture 3 hours per week.

MTH 288 Discrete Mathematics (3 Cr.)

Presents topics in sets, counting, graphs, logic, proofs, functions, relations, mathematical induction, Boolean Algebra, and recurrence relations. Prerequisite(s): Completion of MTH 263, Calculus I with a grade of C or better or equivalent. Lecture 3 credits per week.

Mathematics Corequisite (MCR)**MCR 4 Learning Support for Quantitative Reasoning (2 Cr.)**

Provides instruction for students who require minimum preparation for college- level Quantitative Reasoning. Students in this course will be co-enrolled in MTH 154. Credits are not applicable toward graduation and do not replace MTE courses waived. Successful completion of Quantitative Reasoning results in the prerequisite MTE modules being satisfied. Prerequisite(s): Completion of any three of the MTE modules 1-5 and Corequisite: MTH 154, Quantitative Reasoning. Lecture 2 hours per week.

MCR 5 Learning Support for Statistical Reasoning (2 Cr.)

Provides instruction for students who require minimum preparation for college-level Statistical Reasoning. Students in this course will be co-enrolled in MTH 155. Credits not applicable toward graduation and do not replace MTE courses waived. Successful completion of Statistical Reasoning results in the prerequisite MTE modules being satisfied. Prerequisite(s): Completion of any three of the MTE modules 1-5 and Corequisite: MTH 155, Statistical Reasoning. Lecture 2 hours per week.

MCR 6 Learning Support for Precalculus I (2 Cr.)

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. Prerequisite(s): Completion of any seven of the MTE modules 1-9 and Corequisite: MTH 161, Precalculus I. Lecture 2 hours per week.

Mechanical Engineering Technology (MEC)**MEC 111 Materials for Industry (3 Cr.)**

Studies the nature, structure, properties, and typical applications of metallic, polymeric, ceramic, and composite materials. Focuses on applications of materials as well as the behavior of materials subjected to external stresses. Addresses as required the earth's limited material resources, energy efficient materials, dependence on foreign sources of materials, material systems, thermal processing, and electronic-related materials. Lecture 3 hours per week.

MEC 112 Processes of Industry (3 Cr.)

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 120 Principles of Machine Technology (3 Cr.)

Studies fundamental machine operations and practices, including layout, measuring devices, hand tools, drilling, reaming, turning between corners, cutting tapers and threads and milling; fabrication of mechanical parts on drill press, lathe and mill. Lecture 2 hours per week. Laboratory 2 hour per week. Total 4 hours per week.

Medical Assisting (MDA)**MDA 203 Medical Office Procedures (3 Cr.)**

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. Prerequisite(s): Readiness to enroll in ENG 111. Lecture 3 hours per week.

MDA 206 Medical Office Bookkeeping & Insurance (4 Cr.)

Instructs the student in the practice of bookkeeping and insurance programs, laws, and the processing of claim forms. Prerequisite(s): Readiness to enroll in ENG 111. Lecture 3 hours per week. Laboratory 3 hours per week. Total 6 hours per week.

MDA 207 Medical Law and Ethics (2 Cr.)

Instructs the student in the legal relationships of the physician, patient and medical assistant; professional liabilities, Medical Practice Acts, professional attitudes and behavior and the types of medical practice. Also includes a basic history of medicine. Prerequisite(s): Readiness to enroll in ENG 111. Lecture 2 hours per week.

Medical Laboratory (MDL)**MDL 101 Introduction to Medical Laboratory Techniques (3 Cr.)**

Introduces the basic techniques, including design of the health care system, ethics, terminology, calculations, venipuncture and routine urinalysis. Prerequisite(s): Must be enrolled in the AAS Medical Laboratory Technology Program. Lecture 2 hours per week. Laboratory 3 hours per week. Total 5 hours per week.

MDL 105 Phlebotomy (3 Cr.)

Introduces basic medical terminology, anatomy, physiology, components of health care delivery and clinical laboratory structure. Teaches techniques of specimen collection, specimen handling, and patient interactions. Lecture 3 hours per week.

MDL 106 Clinical Phlebotomy (4 Cr.)

Focuses on obtaining blood specimens, processing specimens, managing assignments, assisting with and/or performing specified tests, performing clerical duties and maintaining professional communication. Provides supervised learning college laboratory/and or cooperating agencies. Prerequisite(s): MDL 105. Lecture 2 hours per week. Laboratory 6 hours per week. Total 8 hours per week.

MDL 110 Urinalysis and Body Fluids (3 Cr.)

Studies the gross, chemical, and microscopic techniques used in the clinical laboratory. Emphasizes study of clinical specimens which include the urine, feces, cerebrospinal fluid, blood, and body exudates. Introduces specimen collection and preparation. Prerequisite(s): Must be enrolled in the AAS Medical Laboratory Technology Program. Lecture 2 hours per week. Laboratory 3 hours per week. Total 5 hours per week.

MDL 125 Clinical Hematology I (3 Cr.)

Teaches the cellular elements of blood including blood cell formation, and routine hematological procedures. Lecture 2 hours per week. Laboratory 3 hours per week. Total 5 hours per week.

MDL 195 Advanced Phlebotomy Techniques (var. hrs.)

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.

MDL 210 Immunology and Serology (2 cr.)

Teaches principles of basic immunology, physiology of the immune system, diseases involving the immune system, as well as serologic procedures. Lecture 1 hour per week. Laboratory 3 hours per week. Total 4 hours per week.

MDL 216 Blood Banking (5 cr.)

Teaches fundamentals of blood grouping and typing, compatibility testing, antibody screening, component preparation, donor selection, and transfusion reactions and investigation. Lecture 2 hours per week. Laboratory 3 hours per week. Total 5 hours per week.

MDL 225 Clinical Hematology II (3 cr.)

Teaches advanced study of blood to include coagulation, abnormal bloody formation, and changes seen in various diseases. Lecture 2 hours per week. Laboratory 3 hours per week. Total 5 hours per week.

MDL 252 Clinical Microbiology II (3 cr.)

Teaches handling, isolation, and identification of pathogenic microorganisms. Emphasizes clinical techniques of bacteriology, mycology, parasitology and virology. Lecture 1 hour per week. Laboratory 6 hours per week. Total 7 hours per week.

MDL 261 Clinical Chemistry and Instrumentation I (4 cr.)

Introduces methods of performing biochemical analysis of clinical specimens. Teaches instrumentation involved in a clinical chemistry laboratory, quality control, and the ability to recognize technical problems. Lecture 3 hours per week. Laboratory 3 hours per week. Total 6 hours per week.

MDL 281 Clinical Correlations (1 Cr.)

Teaches students to apply knowledge gained in courses offered in the MDL curriculum using primarily a case history form of presentation. Emphasizes critical thinking skills in the practice of laboratory medicine. Lecture 1 hour per week.

MDL 290 Coordinated Internship (5 Cr.)

Supervises on-the-job training in selected business, industrial or service firms coordinated by the college. Students will complete 25 hours of clinical rotations per week for 15 weeks.

Music (MUS)**MUS 111 Music Theory I (4 Cr.)**

Discusses elements of musical construction of scales, intervals, triads, and chord progressions. Develops ability to sing at sight and write from dictation. Introduces the analysis of the Bach chorale style. Expands facility with harmonic dictation and enables the student to use these techniques at the keyboard. Part I of II. Lecture 3 hours per week. Laboratory 2 hours per week. Total 5 hours per week.

MUS 112 Music Theory II (4 Cr.)

Discusses elements of musical construction of scales, intervals, triads, and chord progressions. Develops ability to sing at sight and write from dictation. Introduces the analysis of the Bach chorale style. Expands facility with harmonic dictation and enables the student to use these techniques at the keyboard. Part II of II. Lecture 3 hours per week. Laboratory 2 hours per week. Total 5 hours per week.

MUS 121-122 Music Appreciation I-II (3 Cr. each)

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. Increased the student's awareness of the composers and performers of all eras through listening and concert experiences. Lecture 3 hours per week.

MUS 163 Guitar Theory and Practice I (3 Cr.)

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

MUS 164 Guitar Theory and Practice II (3 Cr.)

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 per week. Laboratory 3 hours per week. Total 5 hours per week.

MUS 165 Applied Music - Strings (1-2 Cr.)

Teaches fundamentals of string instruments, harp, or guitar. Studies the standard repertoire. Prerequisite(s): divisional approval. Private lessons are available for either 1 or 2 hours of credit per semester. The length of the lessons will be 1/2 hour for 1 hour credit and 1 hour for 2 hours credit per semester. All courses in applied music may be repeated for a total of 8 hours for the major and 4 hours for the minor. 1-2 half-hour lessons per week, 4-8 hours practice (laboratory) is required each week.

Natural Science

NAS 125 Meteorology (4 Cr.)

Presents a non-technical survey of fundamentals meteorology. Focuses on the effects of weather and climate on humans and their activities. Serves for endorsement or recertification of earth science teachers. Lecture 3 hours per week. Laboratory 2 hours per week. Total 5 hours per week.

NAS 160 Field Ornithology (3 Cr.)

Students will study anatomy, physiology, reproduction, and taxonomy, with special attention to bird families and behavior through the use of preserved specimens, as well as live observation. Includes identifying birds in the wild through sight and songs/calls and explores the interrelationships between wildlife, plants, habitats and humans. Lecture 2 hours per week. Laboratory 2 hours per week. Total 4 hours per week.

NAS 195 Topics In

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.

Nursing (NSG)

NSG 100 Introduction to Nursing Concepts (4 Cr.)

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. Prerequisite(s): BIO 141. Lecture 3 hours per week. Laboratory 3 hours per week. Total 6 hours per week.

NSG 106 Competencies for Nursing Practice (2 Cr.)

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. Prerequisite(s): MTE 1-5 and BIO 14. Lecture 1 hour per week. Laboratory 3 hours per week. Total 4 hours per week.

NSG 115 Healthcare Concepts for Transition (4-5 Cr.)

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. Prerequisite(s): BIO 141, BIO 142, ENG 111, PSY 230, SDV 100, Acceptance to the Transition program. Corequisite(s): NSG 200. Lecture 3 hours per week. Laboratory 3-6 hours per week. Total 6-9 hours per week.

NSG 130 Professional Nursing Concepts (1 Cr.)

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. Prerequisite(s): BIO 141. Lecture 1 hour per week.

NSG 152 Health Care Participant (3 Cr.)

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. Prerequisite(s): BIO 142, (or BIO 232 or NAS 162), NSG 100, NSG 106, NSG 130 and NSG 200. Lecture 2 hours per week. Laboratory 3 hours per week. Total 5 hours per week.

NSG 170 Health/Illness Concepts (6 Cr.)

Focuses on the nursing care of individuals and/or families throughout the lifespan with an emphasis on common and predictable illnesses. Provides supervised learning experiences in college nursing laboratories, clinical/community settings, and/or simulated environments. Prerequisite(s): BIO 142 (or BIO 232 or NAS 162), NSG 100, NSG 106, NSG 130 and NSG 200. Lecture 4 hours per week. Laboratory 6 hours per week. Total 10 hours per week.

NSG 200 Health Promotion and Assessment (3 Cr.)

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. Prerequisite(s): BIO 141. Lecture 2 hours per week. Laboratory 3 hours per week. Total 5 hours per week.

NSG 210 Health Care Concepts I (5 Cr.)

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. Prerequisite(s): BIO 150, NSG 152, NSG 170. Lecture 3 hours per week. Laboratory 6 hours per week. Total 9 hours per week.

NSG 211 Health Care Concepts II (5 Cr.)

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. Prerequisite(s): BIO 150, NSG 152, NSG 170. Lecture 3 hours per week. Laboratory 6 hours per week. Total 9 hours per week.

NSG 230 Advanced Professional Nursing Concepts (2 Cr.)

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. Prerequisite(s): NSG 210, NSG 211. Lecture 2 hours per week. Total 2 hours per week.

NSG 252 Complex Health Care Concepts (4 Cr.)

Focuses on nursing care of diverse individuals and families integrating complex health concepts. Emphasizes clinical judgment, patient-centered care and collaboration. Prerequisite(s): NSG 210, NSG 211. Lecture 4 hours per week. Total 4 hours per week.

NSG 270 Nursing Capstone (4 Cr.)

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. Prerequisite(s): NSG 210, NSG 211. Laboratory 12 hours per week. Total 12 hours per week.

Nurse Aide (NUR)

NUR 27 Nurse Aide Program (5 Cr.)

Teaches care of older patients with emphasis on the social, emotional and spiritual needs. Covers procedures; communication and interpersonal relations; observations, charting and reporting; safety and infection control; anatomy and physiology; personal care, nutrition and feeding and death and dying. Includes both classroom lecture and laboratory or clinical hours per week. Prerequisite(s): MTE 1-3 and readiness to enroll in ENG 111. Lecture 3 hours per week. Laboratory 6 hours per week. Total 9 hours per week.

Philosophy (PHI)

PHI 100 Introduction to Philosophy (3 Cr.)

Presents an introduction to philosophical problems and perspectives with emphasis on the systematic questioning of basic assumptions about meaning, knowledge, reality and values. Prerequisite(s): Readiness to enroll in ENG 111. Lecture 3 hours per week.

PHI 112 Logic II (3 Cr.)

Evaluates deductive arguments utilizing methods of symbolic logic. Lecture 3 hours per week.

PHI 200 The History of Western Philosophy (3 Cr.)

Offers a brief historical survey of major philosophers from the pre-Socratics to the present. Lecture 3 hours per week.

PHI 220 Ethics (3 Cr.)

Provides a systematic study of representative ethical systems. Prerequisite(s): Readiness to enroll in ENG 111. Lecture 3 hours per week.

PHI 227 Bio-Medical Ethics (3 Cr.)

Examines the ethical implications of specific biomedical issues in the context of major ethical systems. Prerequisite(s): Readiness to enroll in ENG 111. Lecture 3 hours per week.

Photography (PHT)

PHT 101-102 Photography I-II (3 Cr. each)

Teaches principles of photography and fundamental camera techniques. Requires outside shooting and lab work. Lecture 1 hour per week. Laboratory 4 hours per week. Total 5 hours per week.

PHT 107 Nature Photography (3 Cr.)

Teaches fundamentals of color photography of natural objects. Emphasizes selection and use of equipment simple digital workflow, format selection for professional imaging, compositional techniques and color theory. Lecture 2 hours per week. Total 4 hours per week.

PHT 135 Electronic Darkroom (3 Cr.)

Teaches students to create and manipulate digital photographs. Covers masking, color corrections, and merging of illustrations with photographs. Examines the ethical and property-rights issues which are raised in the manipulation of images. Lecture 1 hour per week. Laboratory 4 hours per week. Total 5 hours per week.

PHT 164 Introduction to Digital Photography (3 Cr.)

Teaches the fundamentals of photography including camera function, composition, and image production as they apply to digital imagery. Lecture 1 hour per week. Laboratory 4 hours per week. Total 5 hours per week.

PHT 201-202 Advanced Photography I-II (3 Cr. each)

Provides weekly critiques of students' work. Centers on specific problems found in critiques. Includes working procedures and critical skills in looking at photographs. Prerequisite(s): PHT 102 or equivalent. Lecture 2 hours per week. Laboratory 3 hours per week. Total 5 hours per week.

PHT 211-212 Color Photography I-II (3 Cr. each)

Introduces theory, materials and processes of modern color images. Includes additive and subtractive theory, color filtration and negative and positive printing techniques. Prerequisite(s): PHT 101 or equivalent. Prerequisite for 212 is PHT 211. Lecture 2 hours per week. Laboratory 3 hours per week. Total 5 hours per week.

PHT 216 Wildlife Photography (3 Cr.)

An advanced course in the photography of natural objects. Emphasis will be placed on critiquing the student's photographic work. Use of natural lighting, flash photography and diffusion techniques will be emphasized. Offers seminars on specific subject areas such as animals, plants, birds, insects and wilderness scenes. Prerequisite(s): PHT 107 or instructor approval. Lecture 2 hours per week. Laboratory 2 hours per week. Total 4 hours per week.

PHT 227 Photographic Careers (3 Cr.)

Teaches the techniques of small photographic business operations. Includes portfolio preparation and presentation and basic marketing techniques. Covers theory of marketing, costing procedures and problems, legal accounting problems, copyright and fundamentals of small photographic business operation. Lecture 3 hours per week.

PHT 264 Digital Photography (3 Cr.)

Teaches theory and practice of digital photography. Emphasizes use of digital cameras in studio and on location. Teaches advanced techniques of image editing. Provides training in digital image transmission from remote locations. Extensive work in Adobe Photoshop. Prerequisite(s): PHT 101 and ART 283. Lecture 2 hours per week. Laboratory 3 hours per week. Total 5 hours per week.

PHT 270 Digital Imaging I (3 Cr.)

Introduces students to the tools and techniques used by professionals in the electronic imaging field. Focuses on current trends within the photographic, prepress and internet industries. Includes image capture, manipulation, and out-put. Exposes students to the hardware and software used by today's creative professionals in a combination of lectures, demonstrations and class projects. Part I of II. Lecture 2 hours per week. Laboratory 2 hours per week. Total 4 hours per week.

Physical Education and Recreation (PED)

PED 101 Fundamentals of Physical Activity I (2 Cr.)

Presents principles underlying the components of physical fitness. Utilizes conditioning activities involving cardiovascular strength and endurance, respiratory efficiency, muscular strength, and flexibility. May include fitness assessment, nutrition and weight control information, and concepts of wellness. Part I of II. Lecture 1 hours per week. Laboratory 2 hours per week. Total 3 hours per week.

PED 103 Aerobic Fitness I (1 Cr.)

Develops cardiovascular fitness through activities designed to elevate and sustain heart rates appropriate to age and physical condition. Part I of II. Laboratory 2 hours per week. Total 2 hours per week.

PED 107 Exercise and Nutrition (2 Cr.)

Provides for the study and application of fitness and wellness and their relationship to a healthy lifestyle. Defines fitness and wellness, evaluates the student's level of fitness and wellness. Students will incorporate physical fitness and wellness into the course and daily living. A personal fitness/wellness plan is required for the 2 credit course. Lecture 1 hour per week.

Laboratory 2 hours per week. Total 3 hours per week.

PED 109 Yoga (2 Cr.)

Focuses on the forms of yoga training emphasizing flexibility. Lecture 1 hour per week. Laboratory 2 hours per week. Total 3 hours per week.

PED 111 Weight Training I (2 Cr.)

Focuses on muscular strength and endurance training through individualized workout programs. Teaches appropriate use of weight training equipment. Lecture 1 hour per week. Laboratory 2 hours per week. Total 3 hours per week.

PED 113 Lifetime Activities I (1 Cr.)

Presents lifetime sports and activities. Teaches skills and methods of lifetime sports and activities appropriate to the local season and facilities available. Laboratory 2 hours per week. Total 2 hours per week.

PED 116 Lifetime Fitness and Wellness (1 Cr.)

Provides a study of fitness and wellness and their relationship to a healthy lifestyle. Defines fitness and wellness, evaluates the student's level of fitness and wellness and motivates the student to incorporate physical fitness and wellness into daily living. Laboratory 2 hours per week. Total 2 hours per week.

PED 117 Fitness Walking (1 Cr.)

Teaches content and skills needed to design, implement and evaluate an individualized program of walking, based upon fitness level. Laboratory 2 hours per week. Total 2 hours per week.

PED 120 Yoga II (2 Cr.)

Focuses on the forms of yoga training emphasizing flexibility. Prerequisite(s): PED 109. Lecture 1 hour per week. Laboratory 2 hours per week. Total 3 hours per week.

PED 123 Tennis I (1 Cr.)

Teaches tennis skills with emphasis on stroke development and strategies for individual and team play. Includes rules, scoring, terminology, and etiquette. Part I of II. Laboratory 2 hours per week. Total 2 hours per week.

PED 127 Cycling (1 Cr.)

Introduces cycling techniques, equipment selection, care and maintenance, safety, and physical conditioning. Laboratory 2 hours per week. Total 2 hours per week.

PED 133 Golf I (1 Cr.)

Teaches basic skills of golf, rules, etiquette, scoring, terminology, equipment selection and use and strategy. Laboratory 2 hours per week. Total 2 hours per week.

PED 141 Swimming I (1 Cr.)

Introduces skills and methods of swimming strokes. Focuses on safety and physical conditioning. Part I of II. Laboratory 2 hours per week. Total 2 hours per week.

PED 142 Swimming II (1 Cr.)

Introduces skills and methods of swimming strokes. Focuses on safety and physical conditioning. Part II of II. Laboratory 2 hours per week. Total 2 hours per week.

PED 147 Hiking (1 Cr.)

Introduces physical and mental benefits of walking or hiking as a form of physical exercise. Skills developed include how to plan for a hike, what to take, and how to select a trail relative to individual abilities. Provides hiking opportunities to explore local regions. Develops awareness of safety, weather, and ecological considerations. Laboratory 2 hours per week. Total 2 hours per week.

PED 154 Volleyball (1 Cr.)

Introduces skills, techniques, strategies, rules, and scoring. Laboratory 2 hours per week. Total 2 hours per week.

PED 160 Modern Dance (1 Cr.)

Teaches the basic techniques of creative dance. Skills include self-expression, contemporary routines, dance forms, and basic choreography. Laboratory 2 hours per week. Total 2 hours per week.

PED 161 Dance Production I (1 Cr.)

Focuses on creating a dance performance. Teaches the basic skills in creating and producing a dance. Includes lighting, costumes, music, and choreography. Laboratory 2 hours per week. Total 2 hours per week. (Offered at Fauquier only.)

PED 171 Ballroom Dance I (1 Cr.)

Presents the basic step patterns, rhythmic patterns, and positions in ballroom dance. Includes techniques based upon traditional steps with basic choreographic patterns. Part I of II. Laboratory 2 hours per week. Total 2 hours per week. (Offered at Fauquier only.)

PED 172 Ballroom Dance II (1 Cr.)

Presents the basic step patterns, rhythmic patterns, and positions in ballroom dance. Includes techniques based upon traditional steps with basic choreographic patterns. Part II of II. Laboratory 2 hours per week. Total 2 hours per week. (Offered at Fauquier only.)

PED 187 Backpacking (1 Cr.)

Focuses on the preparation for backpacking trip, equipment and clothing selection, personal and group safety, ecology and physical conditioning. Includes field experience. Laboratory 2 hours per week. Total 2 hours per week.

PED 188 Freshwater Fishing (2 Cr.)

Teaches freshwater fishing techniques including spinning, bait casting and fly casting. Presents selection and care of equipment, fish habits, conservation, and safety. Laboratory 2 hours per week. Total 2 hours per week.

PED 198 Seminar and Project (1-5 Cr.)

Requires completion of a project or research report related to the student's occupational objectives and a study of approaches to the selection and pursuit of career opportunities in the field. May be repeated for credit. Variable hours per week.

PED 199 Supervised Study in Ballroom Dancing (1 Cr.)

This course will focus on continuing ballroom technique and performance, step memorization and identification. Continued development of choreographic principles related to ballroom dance. Composition of pair dances required. Laboratory 2 hours per week. Total 2 hours per week. (Offered at Fauquier only.)

Physics (PHY)**PHY 101-102 Introduction to Physics I-II (4 Cr. each)**

Surveys general principles of physics. Includes topics such as force and motion, energy, heat, sound, light, electricity and magnetism and modern physics. Prerequisite(s): Readiness to enroll in ENG 111. PHY 101 prerequisite to PHY 102. Lecture 3 hours per week. Laboratory 3 hours per week. Total 6 hours per week.

PHY 150 Elements of Astronomy (4 Cr.)

Covers history of astronomy and its recent developments. Stresses the use of astronomical instruments and measuring techniques and includes the study and observation of the solar system, stars, and galaxies. Lecture 3 hours per week. Laboratory 3 hours per week. Total 6 hours per week.

PHY 201-202 General College Physics I-II (4 Cr. each)

Teaches fundamental principles of physics. Covers mechanics, thermodynamics, wave phenomena, electricity and magnetism and selected topics in modern physics. Prerequisite(s): Readiness to enroll in ENG 111. MTH 131 or MTH 161. PHY 201 prerequisite to PHY 202. Lecture 3 hours per week. Laboratory 3 hours per week. Total 6 hours per week.

PHY 241-242 University Physics I-II (4 Cr. each)

Teaches principles of classical and modern physics. Includes mechanics, wave phenomena, heat, electricity, magnetism, relativity and nuclear physics. Prerequisite(s): Readiness to enroll in ENG 111. Prerequisite or co-requisite for PHY 241 is MTH 263. Prerequisite or co-requisite for PHY 242 is MTH 264. PHY 241 prerequisite to PHY 242. Lecture 3 hours per week. Laboratory 3 hours per week. Total 6 hours per week.

PHY 243 Modern Physics (4 Cr.)

Teaches principles of modern physics. Includes in-depth coverage of relativity, quantum physics, solid state and nuclear physics. For major requiring calculus-based physics. Prerequisite(s): Readiness to enroll in ENG 111 and PHY 241-242 or equivalent. Lecture 3 hours per week. Laboratory 2-3 hours per week. Total 5-6 hours per week.

PHY 298 Seminar and Project (1-5 Cr.)

Requires completion of a project or research report related to the student's occupational objectives and a study of approaches to the selection and pursuit of career opportunities in the field. May be repeated for credit. Variable hours. ****This course is only offered to Dual Enrolled students at Dual Enrollment sites.****

Political Science (PLS)**PLS 135 American National Politics (3 Cr.)**

Teaches political institutions and processes of the national government of the United States, focuses on the Congress, presidency and the courts and on their inter-relationships. Gives attention to public opinion, suffrage, elections, political parties, interest groups, civil rights, domestic policy and foreign relations. Prerequisite(s): Readiness to enroll in ENG 111. Lecture 3 hours per week.

PLS 241 International Relations I (3 Cr.)

Teaches geographic, demographic, economic, ideological and other factors conditioning the policies of countries and discusses conflicts and their adjustments. Prerequisite(s): Readiness to enroll in ENG 111. Lecture 3 hours per week.

PLS 242 International Relations II (3 Cr.)

Teaches foreign policies of the major powers in the world community with an emphasis on the role of the United States in international politics. Prerequisite(s): Readiness to enroll in ENG 111. Lecture 3 hours per week.

Practical Nursing (PNE)**PNE 136 Care of Maternal Newborn & Pediatric Patients (4 Cr.)**

Uses a family-centered approach; studies normal and common complications in pregnancy, childbirth, post-partum, the neonate, and children through adolescence. Covers milestones in all aspects of growth and development and common childhood disorders at various ages. Lecture 4 hours per week.

PNE 143 Applied Nursing Skills (1 Cr.)

Applies principles and procedures essential to the basic nursing care of patients. Laboratory 3 hours per week. Instructor permission required.

PNE 145 Trends in Practical Nursing (1 Cr.)

Studies the role of the Licensed Practical Nurse. Covers legal aspects, organizations and opportunities in practical nursing. Assists students in preparation for employment. Prerequisite(s): PNE 162. Lecture 1 hour per week.

PNE 158 Mental Health and Psychiatric Nursing (2 Cr.)

Recognizes emotional needs of patients. Provides knowledge of the role that emotions play. Enables students to understand their own behavior as well as patient behavior. Prerequisite(s): PNE 162. Lecture 2 hours per week.

PNE 161 Nursing in Health Changes I (6 Cr.)

Focuses on nursing situations and procedures necessary to assist individuals in meeting special needs related to human functions. Prerequisite(s): Admission to Practical Nursing Program. Lecture 3 hours per week. Laboratory 9 hours per week. Total 12 hours per week.

PNE 162 Nursing in Health Changes II (11 Cr.)

Continues the focus on nursing situations and procedures necessary to assist individuals in meeting special needs related to human functions. Prerequisite(s): ENG 111, BIO 100, PNE 161, PNE 174, PSY 230, SDV 101. Lecture 5 hours per week. Laboratory 16 hours per week. Total 21 hours per week.

PNE 164 Nursing in Health Changes IV (10 Cr.)

Continues the focus on nursing situations and procedures necessary to assist individuals in meeting special needs related to human functions. Prerequisite(s): PNE 162. Lecture 6 hours per week. Laboratory 12 hours per week. Total 18 hours per week.

PNE 174 Applied Pharmacology for Practical Nurses (2 Cr.)

Applies problem-solving skills in preparing and administering medications. Prerequisite(s): Admission to Practical Nursing Program. Lecture 1 hour per week. Laboratory 3 hours per week. Total 4 hours per week.

PNE 175 Introduction to Supervision & Management for Practical Nurses (1 Cr.)

Presents principles of leadership and management theory to assist the practical nurse graduate in assuming leadership roles within their scope of practice. Provides an interactive format to enhance the learning concepts such as group dynamics, effective communication, organization, prioritization, and delegation. Emphasizes skills necessary for first-line management. Prerequisite(s): PNE 162. Lecture 15 hours per semester.

Psychology (PSY)

PSY 116 Psychology of Death and Dying (3 Cr.)

Focuses on psychological aspects of death and dying. Teaches the meaning of death and ways of handling its personal and social implications. Includes psychological, sociological, cultural, and religious views of death. Lecture 3 hours per week.

PSY 200 Principles of Psychology (3 Cr.)

Surveys the basic concepts of psychology. Covers the scientific study of behavior, behavioral research methods and analysis and theoretical interpretations. Includes topics that cover physiological mechanisms, sensation/perception, motivation, learning, personality, psychopathology, therapy and social psychology. Prerequisite(s): Readiness to enroll in ENG 111. Lecture 3 hours per week.

PSY 215 Abnormal Psychology (3 Cr.)

Explores historical views and current perspectives of abnormal behavior. Emphasizes major diagnostic categories and criteria, individual and social factors of maladaptive behavior and types of therapy. Includes methods of clinical assessment and research strategies. Prerequisite(s): Readiness to enroll in ENG 111 and PSY 200, 201, or 202. Lecture 3 hours per week.

PSY 230 Developmental Psychology (3 Cr.)

Studies the development of the individual from conception to death. Follows a life-span perspective on the development of the person's physical, cognitive and psychosocial growth. Prerequisite(s): Readiness to enroll in ENG 111. Lecture 3 hours per week.

PSY 235 Child Psychology (3 Cr.)

Studies development of the child from conception to adolescence. Investigates physical, intellectual, social and emotional factors involved in the child's growth. Prerequisite(s): Readiness to enroll in ENG 111. Lecture 3 hours per week.

PSY 245 Educational Psychology (3 Cr.)

Explores human behavior and learning in the educational context. Investigates the nature of various mental characteristics such as intelligence, interest, and knowledge. Examines their measurement and appraisal and their significance for educational goals. Prerequisite(s): PSY 200. Lecture 3 hours per week.

PSY 255 Psychological Aspects of Criminal Behavior (3 Cr.)

Studies psychology of criminal behavior. Includes topics such as violent and nonviolent crime, sexual offenses, insanity, addiction, white collar crime, and other deviant behaviors. Provides a background for law enforcement occupations. Prerequisite(s): Readiness to enroll in ENG 111 and PSY 200 or instructor approval. Lecture 3 hours per week.

Recreation and Parks (RPK)

RPK 100 Introduction to Recreation, Parks & Leisure Studies (3 Cr.)

Includes history and philosophy of the Recreation and Parks movement. Discusses the theory of leisure and play. Analyzes leisure service delivery systems and career opportunities. Emphasizes the commercial, non-profit and public sectors, Armed Forces, therapeutic recreation as well as volunteer service. Lecture 3 hours per week.

RPK 120 Outdoor Recreation (3 Cr.)

Includes history and philosophy of conservation, preservation, and the development of outdoor recreation in the United States. Emphasizes development of practical skills in planning, instructing, and managing outdoor recreation programs and facilities, including youth resident camps, R.V. campgrounds, as well as resources in the urban setting. Lecture 2 hours per week. Laboratory 3 hours per week. Total 5 hours per week.

RPK 135 Program Planning (3 Cr.)

Includes principles of program planning in the recreation setting. Analyzes participants' needs and demands, as well as social, physical, and psychological characteristics. Explains how to organize and lead programs. Includes a leadership practicum. Prerequisite(s): Completion of concurrent enrollment in RPK Leadership & Supervision. Lecture 3 hours per week. Laboratory 2 hours per week. Total 4 hours per week.

RPK 141 Leadership and Supervision (3 Cr.)

Introduces leadership and supervision in the leisure services industry. Assesses leadership styles, traits and leadership theories and provides the opportunity for students to assess their own individual styles. Addresses group dynamics, conflict, and issue relating specifically to leadership of volunteers. Includes a leadership practicum. Lecture 2 hours per week. Laboratory 2 hours per week. Total 4 hours per week.

RPK 265 Risk Management (3 Cr.)

Discusses the law and liability as they relate to the delivery of leisure services. Teaches practitioners legal principles necessary to analyze programs and facilities with respect to safety, emergency preparedness, and accident reporting protocols. Review

hiring procedures, ADA compliance, national (CPSC, ASTM, OSHA) and professional standards (NRPA, ACA), certification and training standards (CPRP, CTRS), supervision and the role of maintenance and insurance. Uses case law and national compliance standards to illustrate legal principles. *Prerequisite(s): Advanced standing.* Lecture 3 hours per week.

Religion (REL)

REL 100 Introduction to the Study of Religion (3 Cr.)

Explores various religious perspectives and ways of thinking about religious themes and religious experience. *Prerequisite(s):* Readiness to enroll in ENG 111. Lecture 3 hours per week. Typically offered all semesters.

REL 200 Survey of the Old Testament (3 Cr.)

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. *Prerequisite(s):* Readiness to enroll in ENG 111. Lecture 3 hours per week.

REL 210 Survey of the New Testament (3 Cr.)

Surveys books of the New Testament, with special attention upon placing the writings within their historical and geographical setting. *Prerequisite(s):* Readiness to enroll in ENG 111. Lecture 3 hours per week.

REL 230 Religions of the World (3 Cr.)

Introduces the religions of the world with attention to origin, history and doctrine. *Prerequisite(s):* Readiness to enroll in ENG 111. Lecture 3 hours per week.

REL 237 Eastern Religion (3 Cr.)

Studies major religious traditions of the East, including Hinduism, Buddhism, Confucianism, Taoism, and Zen Buddhism. Includes an analysis of Eastern philosophy and approach to life. Lecture 3 hours per week.

REL 240 Religions in America (3 Cr.)

Surveys various manifestations of religion in the American experience. Emphasizes concepts, problems, and issues of religious pluralism and character of American religious life. Lecture 3 hours per week.

Russian (RUS)

RUS 101 Beginning Russian I (4-5 Cr.)

Develops the understanding, speaking, reading, and writing of Russian, and emphasizes the structure of the language. May include oral drill and practice. Part I of II. Lecture 4-5 hours per week. May include one additional hour of oral practice per week.

RUS 102 Beginning Russian II (4-5 Cr.)

Develops the understanding, speaking, reading, and writing of Russian, and emphasizes the structure of the language. May include oral drill and practice. Part II of II. Lecture 4-5 hours per week. May include one additional hour of oral practice per week.

RUS 201 Intermediate Russian I (3-4 Cr.)

Continues the development of the skills of understanding, speaking, reading, and writing of Russian. Class conducted in Russian. *Prerequisite(s):* RUS 102 or equivalent. May include oral drill and practice. Part I of II. Lecture 3-4 hours per week.

RUS 202 Intermediate Russian II (3-4 Cr.)

Continues the development of the skills of understanding, speaking, reading, and writing of Russian. Class conducted in Russian. *Prerequisite(s):* RUS 102 or equivalent. May include oral drill and practice. Part II of II. Lecture 3-4 hours per week.

Sociology (SOC)

SOC 200 Principles of Sociology (3 Cr.)

Introduces fundamentals of social life. Presents significant research and theory in areas such as culture, social structure, socialization, deviance, social stratification and social institutions. *Prerequisite(s):* Readiness to enroll in ENG 111. Lecture 3 hours per week.

SOC 215 Sociology of the Family (3 Cr.)

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. *Prerequisite(s):* Readiness to enroll in ENG 111. Lecture 3 hours per week.

SOC 225 Sociology of Gender (3 Cr.)

Analyzes influence of major social institutions and socialization in shaping and changing sex roles in contemporary society. Examines differential access to positions of public power and authority for men and women. Ability to read in English at the college level. Prerequisite(s): Readiness to enroll in ENG 111. Lecture 3 hours per week.

SOC 266 Race and Ethnicity (3 Cr.)

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. Ability to read in English at the college level. Prerequisite(s): Readiness to enroll in ENG 111. Lecture 3 hours per week.

SOC 268 Social Problems (3 Cr.)

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. Prerequisite(s): Readiness to enroll in ENG 111. Lecture 3 hours per week.

Spanish (SPA)**SPA 101-102 Beginning Spanish I-II (4 Cr. each)**

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. Prerequisite(s): SPA 101 for SPA 102. Lecture 4 hours per week.

SPA 111-112 Conversation in Spanish I-II (3 Cr. each)

Emphasizes the spoken language, stressing fluency and correctness of structure, pronunciation and vocabulary. Prerequisite(s): SPA 102. Lecture 3 hours per week. ****This course is only offered to Dual Enrolled students at Dual Enrollment sites.****

SPA 201-202 Intermediate Spanish I-II (3 Cr. each)

Continues to develop understanding, speaking, reading and writing skills. May include oral drill and practice. Prerequisite(s): SPA 102 or equivalent for SPA 201, SPA 201 for SPA 202. Lecture 3 hours per week.

SPA 211-212 Intermediate Spanish Conversation I (3 Cr.)

Continues to develop fluency through emphasis on idioms and other complex sentence structures. Prerequisite(s): SPA 202 or equivalent. ****This course is only offered to Dual Enrolled students at Dual Enrollment sites.****

SPA 233 Introduction to Spanish Civilization & Literature I-II (3-4 Cr. each)

Introduces the student to Spanish culture and literature. Readings and discussions conducted in Spanish. Prerequisite(s): SPA 202 or equivalent. Lecture 3-4 hours per week. ****This course is only offered to Dual Enrolled students at Dual Enrollment sites.****

SPA 295 Topics In (1-5 Cr.)

Provides an opportunity to explore topical areas of interest to or needed by students. May also be used for special honors courses. May be repeated for credit. Variable hours. ****This course is only offered to Dual Enrolled students at Dual Enrollment sites.****

Student Development (SDV)**SDV 100 College Success Skills (1 Cr.)**

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 hour per week.

SDV 101 Orientation to Education Professions (1 Cr.)

Introduces students to the skills which are necessary to achieve their academic goals, to services offered at the college and to the discipline in which they are enrolled. Covers topics such as services at the college including the learning resources center; counseling and advising; listening, test taking and study skills; and topical areas which are applicable to their particular discipline. Lecture 1 hour per week.

SDV 101 Orientation to Health Information Management (1 Cr.)

Introduces students to the skills which are necessary to achieve their academic goals, to services offered at the college and to the discipline in which they are enrolled. Covers topics such as services at the college including the learning resources center;

counseling and advising; listening, test taking and study skills; and topical areas which are applicable to their particular discipline. Lecture 1 hour per week.

SDV 101 Orientation to Health Professions (1 Cr.)

Introduces students to the skills which are necessary to achieve their academic goals, to services offered at the college and to the discipline in which they are enrolled. Covers topics such as services at the college including the learning resources center; counseling and advising; listening, test taking and study skills; and topical areas which are applicable to their particular discipline. Lecture 1 hour per week.

SDV 101 Orientation to Health Professions (2 Cr.)

Introduces students to the skills which are necessary to achieve their academic goals, to services offered at the college and to the discipline in which they are enrolled. Covers topics such as services at the college including the learning resources center; counseling and advising; listening, test taking and study skills; and topical areas which are applicable to their particular discipline. Lecture 2 hours per week.

SDV 101 Orientation for International and Adult Immigrant Students (3 Cr.)

Introduces international students to the skills which are necessary to achieve their academic goals, to services offered at the college and to the discipline in which they are enrolled. Covers topics such as services at the college, including the learning resource center; counseling and advising listening, test taking and study skills. Lecture 3 hour per week.

SDV 101 Orientation to IT Professions (1 Cr.)

Introduces students to the skills which are necessary to achieve their academic goals, to services offered at the college and to the discipline in which they are enrolled. Covers topics such as services at the college including the learning resources center; counseling and advising; listening, test taking and study skills; and topical areas which are applicable to their particular discipline. Prerequisite(s): Enrollment in IST degree or one of the IT-related career studies certificates. Students not currently enrolled in either the IST degree or one of the IT-related career studies certificates, may enroll with instructor permission. Lecture 1 hour per week.

SDV 101 Orientation to Trades (1 Cr.)

Introduces students to the skills which are necessary to achieve their academic goals, to services offered at the college and to the discipline in which they are enrolled. Covers topics such as services at the college including the learning resources center; counseling and advising; listening, test taking and study skills; and topical areas which are applicable to their particular discipline. Lecture 1 hour per week.

Surgical Tech (SUR)

SUR 130 Introduction to Central Services (3 Cr.)

Introduces central processing with a focus on skills necessary to perform central services competently and safely. Includes aseptic technique, patient-centered theories, decontamination, preparation and packaging for sterilization, sterilization processes, and sterile storage. Prerequisite(s): Qualifying Placement Test scores. Lecture 2 hours per week. Laboratory 3 hours per week. Total 5 hours per week.

SUR 135 Infection Control (2 Cr)

Introduces the fundamentals of surgical microbiology. Topics include: historical development of microbiology, cell structure and theory, microbial function, human and pathogen relationships, infectious process, blood borne and airborne pathogens, defense microorganisms, infection control and microbial control and destruction. Prerequisite(s): Admission into the program; SUR 93. Lecture 2 hours per week.

SUR 140 Introduction to Surgical Care (4 Cr.)

Introduces the study of the surgical process, including aspects of the operating room environment. Highlights preparing the patient for surgery, including transporting, positioning and special preparation procedures. Presents physical, psychological and spiritual needs of the patient including ethical and legal rights of the patient. Prerequisite(s): Admission into the program. Corequisite: BIO 141. Lecture 2 hours per week. Laboratory 3-6 hours per week. Total 5-6 hours per week.

SUR 145 Fundamentals of Surgical Care (4 Cr.)

Introduces principles of aseptic technique, sterilization, disinfection and antisepsis including environmental safety and control, CDC and OSHA requirements. Presents packaging, storing, and dispensing surgical supplies, principles of wound healing including types, stages, and complications; types, preparation and care of surgical supplies, packing, dressings, catheters, drains, tubes, supplies, and equipment; classifications of instruments, sutures and needles. Describes responsibilities related to the scrub and circulating roles. Provides students practical experience in the operating room. Prerequisite(s): NUR 140. Co-requisite: BIO 141. Lecture 2 hours per week. Laboratory 3-6 hours per week. Total 5-8 hours per week.

SUR 210 Surgical Procedures (8 Cr.)

Introduces the surgical specialties of general gastroenterology, gynecology; genitourinary, ophthalmology; EENT; dental; oral and maxillofacial; plastic and reconstructive; pediatrics; oncology; neurosurgery; orthopedics; cardiac; thoracic; vascular; transplant; and trauma in a laboratory and clinical experience. Prerequisite(s): SUR 140, SUR 145. Co-requisites: BIO 141, BIO 142. Lecture 4 hours per week. Laboratory 12-15 hours per week. Total 16-19 hours per week.

SUR 230 Clinical Applications (5 Cr.)

Provides extensive clinical experience in all central sterilization areas, in addition to instruction and practice in areas such as selecting instruments, equipment, and supplies; using proper procedures; identifying regulations, standards, and safety. Lecture 1 hour per week. Laboratory 12 hours per week. Total 13 hours per week.

SUR 235 Fundamentals of Central Services (3 Cr.)

Builds upon introductory concepts and skills to include areas such as cleaning, disinfection, sterilization of instruments and equipment, instrument processing, inventory management, safety and quality assurance, professional development and healthcare trends. Prerequisite(s): Admission into the program. Lecture 2 hours per week. Laboratory 3 hours per week. Total 5 hours per week.

SUR 250 Surgical Pharmacology (2 Cr.)

Introduces pharmacology as it relates to surgical intervention in the operating room. Includes medication calculations, measurements, administration, terminology and handling and a review of certain drug classifications as they relate to surgical patients. (Note: Previously listed as HLT 250, General Pharmacology). Prerequisite(s): SUR 140. Lecture 2-3 hours per week.

SUR 260 Surgical Technology Clinical Practicum (6 Cr.)

Provides continued study and extensive clinical experience in all surgical specialties. Emphasis is on clinical practice thereby further enhancing theoretical and practical knowledge of select procedures, surgical instrumentation, supplies and equipment. The scrub and circulating roles of the surgical technologist including aseptic technique and case preparation for select surgical procedures continue to be emphasized. Prerequisite(s): SUR 140, SUR 145, SUR 210. Corequisite: BIO 141-142, HIM 111. Laboratory 18 hours per week.

SUR 296 On-site Training (3 Cr.)

Specializes in career orientation and training program without pay in selected business and industry, supervised and coordinated by the college. Credit/work ration not to exceed 1:5 hours. May be repeated for credit.

Welding (WEL)**Welding 120 Introduction to Welding (2-3 Cr.)**

Introduces history of welding processes. Covers types of equipment and assembly of units. Stresses welding procedures such as fusion, non-fusion and cutting oxyacetylene. Introduces arc welding. Emphasizes procedures in the use of tools and equipment. Lecture 1-2 hours. Laboratory 2-3 hours. Total 3-5 hours per week. ****This course is only offered to Dual Enrolled students at Dual Enrollment sites.****

Welding 130 Inert Gas Welding (3-4 Cr.)

Introduces practical operations in the uses of inert-gas, shield arc welding. Discusses equipment, safety operations, welding practice in the various positions, process applications and manual and semi-automatic welding. Lecture 2 hours. Laboratory 3-6 hours. Total 5-8 hours per week. ****This course is only offered to Dual Enrolled students at Dual Enrollment sites.****

Student Handbook

All information within the Handbook and Student Code of Conduct is updated as needed. The most current information pertaining to the Handbook and Student Code of Conduct can be found online at www.lfcc.edu/catalog.

A Safe, Secure, & Supported Learning Environment

Nondiscrimination Statement

Lord Fairfax Community College (LFCC) is an equal opportunity institution providing educational and employment opportunities, programs, services, and activities and does not discriminate based on race, color, sex, religion, disability, national origin, marital status, political affiliation, sexual orientation, or other non-merit factors. LFCC also prohibits sexual misconduct including sexual violence or harassment.

Student Complaint Procedure

The College supports the rights of students to bring forth complaints and is committed to resolving these matters in a fair and timely manner. This policy applies to all enrolled students in matters relating to other students, faculty, administrators and staff at all LFCC locations.

Students dissatisfied with a grade should follow procedures outlined in the grade appeal policy located in the LFCC catalog. Concerns regarding discipline or sexual harassment should be reported as described in the College Catalog and student handbook available at <http://www.lfcc.edu>. A student who has a concern with a staff member or college department is encouraged to attempt to resolve the complaint in an informal manner. If a satisfactory resolution cannot be reached informally, the student may appeal in writing by submitting a formal complaint form.

Formal Complaint

The student must complete and submit a [complaint form](#) (available electronically at the College's official website) within ten (10) business days of his/her initial attempt to resolve the matter informally. The College will not entertain complaints that are submitted anonymously, via email, or facsimile transmission or are submitted on behalf of someone else.

1. Formal complaints will be logged and forwarded to the appropriate administrator for further action.
2. Upon receiving a formal complaint form, the appropriate administrator will arrange a conference with the student to discuss the issue within ten (10) business days. After the conference, the administrator will render his/her decision, in writing, to the student and the College employee involved.
3. If a satisfactory resolution is not reached as a result of the conference, the student may appeal within five (5) business days to the Provost or Vice President. The Provost or Vice President will review the complaint form and any supporting documentation and render a decision, in writing, within five (5) business days. The decision of the Provost or Vice President shall be final.
4. All formal complaint documentation is housed in the Office of the Vice President of Academic and Student Affairs.

GI Bill Beneficiary 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. Complaints should initially follow the school complaint policy and if the situation cannot be resolved at the school, the beneficiary should contact the SAA office at saa@dvs.virginia.gov.

Campus Police

LFCC Campus Police is committed to maintaining a safe and secure learning environment for all students, employees, visitors and community members. They strive to provide courteous and professional service while remaining vigilant to protect the life and property of those who come to LFCC's campus locations. Campus police officers may exercise the powers and duties conferred by law upon police officers of cities, towns, or counties according to Va. Code § 23-234 including, but not limited to, enforcing criminal and traffic law of the Code of

Virginia, making arrests, issuing traffic summonses and conducting criminal investigations. Campus police officers are required to comply with the standards set forth by the Department of Criminal Justice Services.

Police will assist with emergencies, evacuations, and drills, as well as vehicle battery recharge and escorts to parking lots. LFCC's Security Officers are certified by the Virginia Department of Criminal Justice Services as Campus Security Officers. They are also trained and certified in CPR and with the use of an AED (automatic emergency defibrillator).

Campus Safety

Safety rules are established to protect the individual from injury or death and must be observed at all times. Posted speed limits, traffic patterns and fire access lane regulations are rigidly enforced. Personal attention and care is required by all students for their own safety and the safety of others whether in the classrooms, halls, laboratories, libraries, lounges or parking areas. Specific safety precautions and the exercise of common sense and courtesy are key elements of the College safety program.

Emergency Closing Alerts

For the latest emergency closing information, please sign up for LFCC Alert at <http://alert.lfcc.edu>, visit the College's website or call the emergency closing announcement telephone lines at 800-906-LFCC. Regardless of the emergency closing announcement—all students and employees should use good judgment as to whether or not it is safe to travel. These communication vehicles are updated first in the event of emergency closings. In addition, because LFCC has complete control over these two communication methods, messages are guaranteed to be accurate and up to date. This same guarantee cannot be applied to messages heard on local radio and television stations.

Emergency Information

Fire/Ambulance—Local Volunteer Fire and Rescue Company—911.

Lost and Found

Campus Police is responsible for all items turned into Lost and Found. All items turned into Lost and Found will be kept for 120 days. At that time, all unclaimed property will be disposed of according to established procedures. Unclaimed textbooks will be resold to the Bookstore and monies will be donated to the LFCC Educational Foundation. Textbooks that are outdated will be donated to charity. Other unclaimed items will be disposed of by donation to nonprofit agencies including, but not limited to, the Lion's Club, Children's Center, Goodwill, and Salvation Army. If you have lost or found an item, please see a member of the Campus Police Department.

Parking

Students are required to display a Parking Permit on their vehicles parked on campus. Students may be fined for failure to display a Parking Permit, as a secondary offense if another violation is issued. Permits will be issued by Campus Police upon payment of parking maintenance fees. For more detailed information on parking go to www.lfcc.edu/police.

Student ID

A student ID card is a student's official Lord Fairfax Community College identification. Student activity fees cover the first card issued; however, there is a \$20 charge for a replacement card.

Student ID Cards will be processed at the Police Desk located near the Welcome Center entrance during the following days and times at both the Middletown and Fauquier Campuses.

All applicants must present the following to secure a student id:

- Student ID number
- Copy of current class schedule
- Another form of Identification – Driver's License, Passport, Military/Gov't ID, or any two of the following (birth certificate, social security card, voter registration card)

When the College issues a delayed opening or day class cancellation announcement, please check the website or call the emergency closing announcement telephone line before leaving home and before you are scheduled to

arrive on campus. This may prevent a wasted trip to campus in the event that the College's closing status changes in the same day.

Campus Police FAQ's

Do I need a parking pass?

Parking decals are required and are available from Campus Police. A form with vehicle information and contact information will be required when a parking permit is issued.

I locked my keys in my car. Can you help?

In an emergency, child in car, engine running or animal in vehicle with extreme weather conditions, the vehicle may be unlocked by campus police personnel.

What hours is the College open?

LFCC is open Monday – Friday, 6 a.m.-11 p.m., and 8 a.m.-7 p.m. Saturday and Sunday. The College is closed on state approved holidays and during holiday break, as posted by the Human Resource Office (days vary).

Does Campus Police accept assignments from students when professors are not present?

Campus Police personnel will accept assignments, papers, or projects at the campus police desk after a drop off form is completed. This form is available through Student Success at each reception desk.

Does Campus Police offer escorts to the parking lot after dark?

Yes, a Police or Security Officer will escort you to your car at any time, by calling 868-SAFE (7233).

Threat Assessment Management Team

Lord Fairfax Community College has a threat assessment management (TAM) team that proactively identifies and objectively assess potential threats to campus security. The team provides rapid response and management of situations that may pose a threat to the safety and well-being of the campus community.

For emergency situations, students should call 911. For non-emergency reporting, students should report situations through [See Something. Say Something](#). Once a report is filed, TAM will meet to discuss the situation and can take appropriate actions needed to keep the campus safe, including ordering the removal of students from college property if warranted.

If actions are taken against a student which disrupt the student's educational process, the student will be given an opportunity to appeal that decision to the Vice President of Academic & Student Affairs. The student has ten (10) calendar days from receipt of the TAM letter to appeal the TAM decision. An appeal may be initiated on one or more of the following:

- Inaccurate information gathered by the team, or new information that might affect the outcome of the decision
- Arbitrary or capricious action by the TAM
- Violation of due process or procedures as outlined by the policy

Appeal information will be sent to the TAM chair. If new information or evidence is presented by the student, this information will be sent to the TAM for review and consideration within ten (10) calendar days. TAM may reverse or change previous decisions based on this new information. If the TAM does not reverse or change its decision, the appeal will be forwarded to the Vice President of Academic & Student Affairs for her or his final determination on the appeal.

Appeals claiming arbitrary or capricious action by the TAM or violation of due process will be immediately forwarded to the Vice President of Academic & Student Affairs who will uphold, amend, or reverse the TAM decision within ten calendar days of her or his receipt of the appeal. As part of the student's appeal process, the student may request a conference by phone or in-person with the Vice President of Academic & Student Affairs. This conference must be held within ten (10) calendar days of the College's receipt of the appeal letter, and if in-person, will be held at an off-campus location. The purpose of this conference is to allow the student to present any evidence or testimony on their behalf.

In all cases, the student must be notified in writing of the outcome of their appeal within ten (10) calendar days of the College's receipt of the student's appeal. The only exception to this timeframe is when both the College and student agree to extend the timeframe by mutual consent.

Student Support Team

The mission of the Student Support Team (SST) is to 1) assist students whose behavior may present a harm to self, more than others; 2) assist students facing issues like anxiety, depression and/or struggle with diagnosed or undiagnosed mental health issues; substance abuse and domestic violence 3) provide referrals to students, faculty and staff to campus and/or community resources.

The goals of the SST are to:

- Provide a referral system for members of the LFCC community to refer students of concern.
- Gather input from multiple sources, providing more comprehensive data for analysis.
- Assess potential disruption, potential for self-harm and referral to helpful resources utilizing a specific, objective process for evaluation and intervention.
- Minimize or eliminate disruption to the teaching-learning process, the community and college operations through early intervention and support.

The SST utilizes a protocol to ensure that concerning student behavior, mental health issues or incidents are addressed appropriately. When a referral is submitted through the [See Something Say Something](#) online form, SST team members receive the report. The SST convenes immediately to assess the situation and develop an appropriate response for emergency and non-emergency situations through its meeting.

Policy on Sexual Violence, Domestic Violence, Dating Violence, and Stalking

Notice of Nondiscrimination

As a recipient of federal funds, Lord Fairfax 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. Inquiries concerning the application of Title IX may be referred to the College's Title IX Coordinator or to the U.S. Department of Education's Office for Civil Rights. The Title IX Coordinator is Lyda Costello Kiser, whose office is located at 510 Fairfax Hall, Middletown Campus, and may be contacted by phone at 540-869-0623 or by email at lkiser@lfcc.edu.

Policy

Lord Fairfax Community College is committed to providing an environment that is free from harassment and discrimination based on any status protected by law. Accordingly, this Policy prohibits sex discrimination, sexual harassment, sexual assault, sexual exploitation, domestic violence, dating violence, stalking, and retaliation. This Policy supplements the following general policy statement set forth by the Virginia Community College System: This institution promotes and maintains educational opportunities without regard to race, color, sex, ethnicity, religion, gender, age (except when age is a bona fide occupational qualification), disability, national origin, or other non-merit factors. This Policy also addresses the requirements under the Violence Against Women Reauthorization Act of 2013, (also known as the Campus SaVE Act).

This Policy is not intended to substitute or supersede related criminal or civil law. Individuals should report incidents of sexual and domestic violence, dating violence, and stalking to law enforcement authorities. Criminal and civil remedies are available in addition to the potential remedies that the College may provide.

Purpose

The purpose of this Policy is to establish that the College prohibits discrimination, all forms of sexual misconduct, domestic violence, dating violence, stalking, and retaliation, and to set forth procedures by which such allegations shall be filed, investigated and resolved.

Applicability

This Policy applies to all campus community members, including students, faculty, staff and third parties, e.g., contractors and visitors. Conduct that occurs off campus can be the subject of a complaint or report and will be evaluated to determine whether it violates this Policy, e.g. if off-campus harassment has continuing effects that create a hostile environment on campus.

Definitions

Advisor: An individual who provides the complainant and respondent support, guidance, or advice. Advisors may be present at any meeting or hearing, but may not speak directly on behalf of the complainant or respondent.

Campus: The term “campus” refers to (i) any building or property owned or controlled by the College within the same reasonably contiguous geographic area of the College and used in direct support of, or in a manner related to, the College’s educational purposes, and (ii) any building or property that is within or reasonably contiguous to the area described in clause (i) that is owned by the College but controlled by another person, is frequently used by students, and supports institutional purposes, such as a food or other retail vendor.

Complainant: A complainant refers to an individual who may have been the subject of a violation of this Policy and files a complaint against a faculty member, staff member, student or third party.

Consent: Consent is knowing, voluntary, and clear permission by word or action, to engage in mutually-agreed upon sexual activity. Silence does not necessarily constitute consent. Past consent to sexual activities, or a current or previous dating relationship, does not imply ongoing or future consent. Consent to some sexual contact (such as kissing or fondling) cannot be presumed to be consent for other sexual activity (such as intercourse). An individual cannot consent who is under the age of legal consent. The existence of consent is based on the totality of the circumstances, including the context in which the alleged incident occurred. Any sexual activity or sex act committed against one’s will, by the use of force, threat, intimidation, or ruse, or through one’s mental incapacity or physical helplessness is without consent.

Mental incapacity means that condition of a person existing at the time which prevents the person from understanding the nature or consequences of the sexual act involved (the who, what, when, where, why, and how) and about which the accused knew or should have known. This includes incapacitation through the use of drugs or alcohol. Intoxication is not the same as incapacitation.

Physical helplessness means unconsciousness or any other condition existing at the time which otherwise rendered the person physically unable to communicate an unwillingness to act and about which the accused knew or should have known. Physical helplessness may be reached through the use of alcohol or drugs.

Dating Violence: Dating violence is violence, force, or threat that results in bodily injury or places one in reasonable apprehension of death, sexual assault, or bodily injury committed by a person who is or has been in a close relationship of a romantic or intimate nature with the other person. The existence of such a relationship shall be determined based on a consideration of the length of the relationship, the type of relationship, and the frequency of interaction between the persons involved in the relationship.

Domestic Violence: Domestic violence is violence, force, or threat that results in bodily injury or places one in reasonable apprehension of death, sexual assault, or bodily injury and that is committed by a person against such person's family or household member, which includes a current or former spouse a person with whom the victim

shares a child in common, or who is cohabitating with or has cohabitated with the person as a spouse or intimate partner.

Respondent: A respondent refers to the individual who has been accused of violating this Policy.

Responsible Employee: A responsible employee is one designated for purposes of initiating notice and investigation of alleged violations of this Policy or who has the authority to take action to redress violations of this Policy. A responsible employee also is any employee who a student reasonably believes is a responsible employee. Any employee with supervisory authority is a responsible employee. In addition, any faculty, instructor, or employee of Academic and Student Affairs is a responsible employee. A responsible employee shall not be an employee who, in his position at the College, provides services to the campus community as a licensed health care professional, (or the administrative staff of a licensed health care professional), professional counselor, victim support personnel, clergy, or attorney.

Review Committee: Review committee refers to the committee consisting of three or more persons, including the Title IX Coordinator or his designee, a representative of campus police or campus security, and a student affairs representative, that is responsible for reviewing information related to acts of sexual violence.

Sex Discrimination: Sex discrimination is the unlawful treatment of another based on the individual's sex that excludes an individual from participation in, separates or denies the individual the benefits of, or otherwise adversely affects a term or condition of an individual's employment, education, or participation in college program or activity.

Sexual Assault: Sexual assault is defined as the intentional physical sexual contact with a person against that person's will by the use of force, threat, or intimidation, or through the use of a person's mental incapacity or physical helplessness. Sexual assault includes intentionally touching, either directly or through clothing, the victim's genitals, breasts, thighs, or buttocks without the person's consent, as well as forcing someone to touch or fondle another against his or her will.

Sexual Exploitation: Sexual exploitation occurs when a person takes non-consensual or abusive sexual advantage of another for his/her own advantage or benefit, or to benefit or advantage anyone other than the one being exploited, and that behavior does not otherwise constitute one of other sexual misconduct offenses. Examples of sexual exploitation include, but are not limited to invasion of sexual privacy; prostituting another person; non-consensual video or audio-taping of sexual activity; going beyond the boundaries of consent (such as letting your friends hide in the closet to watch you having consensual sex); engaging in voyeurism; exposing one's genitals in non-consensual circumstances; inducing another to expose their genitals, and knowingly transmitting HIV or an STD to another.

Sexual Harassment: Sexual harassment is defined as unwelcome sexual advances, requests for sexual favors, and other verbal, nonverbal, or physical conduct of a sexual nature. Sexual harassment shall be considered to have occurred in the following instances:

Quid Pro Quo: The submission to or rejection of such conduct is used as the basis for educational or employment decisions affecting the student or employee either explicitly or implicitly; or

Hostile Environment: Conduct so severe, pervasive, and objectively offensive that it undermines and detracts from an employee's work performance or a student's educational experience.

Sexual Misconduct: Sexual misconduct encompasses a range of behaviors used to obtain sexual gratification against another's will or at the expense of another. Sexual misconduct is a general term that includes rape, sexual harassment, sexual assault, sexual exploitation, and sexual violence.

Sexual Violence: Sexual violence means physical sexual acts perpetrated against a person's will or where a person is incapable of giving consent. Sexual violence includes rape and sexual assault.

Stalking: Stalking occurs when someone, on more than one occasion, engages in conduct directed at another person with the intent to place, or knows or reasonably should know that the conduct places that other person in reasonable fear of death, criminal sexual assault, or bodily injury to that other person or to that other person's family or household member. Such conduct can occur in person or online, but Colleges first must establish whether off-campus conduct has continuing effects that create a hostile environment on campus.

Third Party: A third party is any person who is not a student or employee of the College.

Workday: A workday is any day that the College is open for business. Workdays include days when classes are not held, but when employees are expected to be at work.

Retaliation

Any form of retaliation, including intimidation, threats, harassment, and other adverse action taken or threatened against any complainant or person reporting a complaint alleging a violation of this Policy, or any person cooperating in the investigation of allegations of violations of this Policy, to include testifying, assisting or participating in any manner in an investigation pursuant to this Policy and the resolution procedures is strictly prohibited by this Policy. Action is generally deemed adverse if it would deter a reasonable person in the same circumstances from opposing practices prohibited by this Policy. Retaliation may result in disciplinary or other action independent of the sanctions or interim measures imposed in response to the underlying allegations of violations of this Policy.

Reporting Incidents

1. Members of the campus community who believe they have been subjected to crimes should immediately report the incident to campus or local police. All emergencies or any incident where someone is in imminent danger should be reported immediately to campus police/security or local police by dialing 911 or (540) 868-7233.
2. Whether or not a report is made to law enforcement, members of the campus community should report alleged violations of this Policy to the Title IX Coordinator during normal business hours. The Title IX Coordinator is solely responsible for overseeing the prompt, fair, and impartial investigation and resolution of complaints filed with the College. To help ensure a prompt, fair, and impartial investigation and resolution, individuals are encouraged to complete a Complaint Form, found in Appendix A. The written complaint will be submitted to the Title IX Coordinator. Although strongly encouraged, a complainant is not required to submit a complaint on the Complaint Form or in writing.

Lord Fairfax Community College Title IX Campus Resources

Title IX Coordinator: Mia Leggett Dezura – (540) 868-7087
Room 121, Student Union Building, Middletown Campus
mleggett@lfcc.edu

Deputy Title IX Coordinator (if applicable) Chris Coutts – (540) 351-1513
219 Wolk Hall, Fauquier Campus
ccoutts@lfcc.edu

After normal business hours, members of the campus community should report alleged violations of this Policy to LFCC Police at (540) 868-7233.

3. There is no time limit for filing a complaint with the College. However, complainants should report possible violations of this Policy as soon as possible to maximize the College's ability to respond effectively. Failure to report promptly could result in the loss of relevant evidence and impair the College's ability to respond adequately to the allegations.

Handling of Reports and Investigations

The Title IX Coordinator will assist members of the campus community in reporting incidents to law enforcement authorities upon request. When allowable under Virginia law, the Title IX Coordinator will request the consent of the complainant (or alleged victim if different from the complainant) to report incidents of alleged sexual violence that occur on campus property to law enforcement. Under Virginia law, the College may determine that the disclosure of information to local law enforcement regarding the alleged incident of sexual violence, including personally identifiable information, is necessary to protect the health or safety of the complainant or other individuals. The College also is required to notify the local Commonwealth's Attorney (or other prosecutor responsible for prosecuting the alleged act of sexual violence) when the alleged incident of sexual violence constitutes a felony.

Confidentiality and Anonymous Reports

1. Individuals may be concerned about their privacy when they report a possible violation of this Policy. The College has a responsibility to end conduct that violates this Policy, prevent its recurrence, and address its discriminatory effects. For this reason, some College employees may not keep secret any report of sexual violence, domestic violence, dating violence, or stalking. The College expects employees to treat information they learn concerning incidents of reported violations of this Policy with respect and with as much privacy as possible. College employees must share such information only with those College and law enforcement officials who must be informed of the information pursuant to this Policy.
2. Responsible employees must report all alleged violations of this Policy obtained in the course of his or her employment to the Title IX Coordinator as soon as practicable after addressing the immediate needs of the complainant. Other campus employees have a duty to report sexual assault, domestic violence, dating violence, and stalking for federal statistical reporting purposes (Campus Security Authority (CSA) under the Clery Act). CSAs include student/conduct affairs personnel, campus law enforcement, local police, student activities staff, human resources staff, and advisors to student organizations. Reports received by the College concerning the abuse of a minor must be reported in compliance with state law.
3. If a complainant wishes to keep the report confidential, it is recommended that he or she reports the alleged conduct to someone with a duty to maintain confidentiality, e.g., mental health counselor or clergy. Full-time employees also may contact the Employee Assistance Program. If the complainant requests that the complainant's identity is not released to anyone else, the College's ability to investigate and take reasonable action in response to a complaint may be limited. In such cases, the College will evaluate the request(s) that a complaint remain confidential in the context of the College's commitment to provide a reasonably safe and non-discriminatory environment. In order to make such an evaluation, the Title IX Coordinator may conduct a preliminary investigation into the alleged violation of this Policy and may weigh the request(s) against the following factors:
 - The seriousness of the allegation(s);
 - The complainant's or alleged victim's age;
 - Whether there have been other similar complaints of against the same respondent;
 - The respondent's right to receive information about the allegations if the information is maintained by the College as an "education record" under FERPA; and
 - The applicability of any laws mandating disclosure.

Therefore, the College may pursue an investigation even if the complainant requests that no action is taken. The College will not be able to ensure confidentiality in all cases. The College will notify the complainant in writing when it is unable to maintain confidentiality or respect the complainant's request for no further action.

4. Additionally, upon receiving a report of an alleged act of sexual violence against a student or one that allegedly occurred on property owned or controlled by the College or on public property within the campus, or immediately adjacent to and accessible from the campus, the Title IX Coordinator shall convene the College's review committee within 72 hours to review the information reported and any information obtained through law-enforcement records, criminal history record information, health records, conduct or personnel records, and any other facts and circumstances, including personally identifiable information, related to the alleged incident known to the review committee. The review committee may try to reach a consensus, but it is the law enforcement representative of the review committee that ultimately determines whether the disclosure of the information, including the personally identifiable information, is necessary to protect the health or safety of the alleged victim or other individuals. The College shall disclose such information to the law enforcement agency that would be responsible for investigating the alleged incident immediately. The Title IX Coordinator will notify the alleged victim in writing that such disclosure is being made.
5. If the report of an alleged act of sexual violence would constitute a felony, within 24 hours of the first review team meeting, the law enforcement representative of the review committee shall notify the local Commonwealth's Attorney (or other prosecutor responsible for prosecuting the alleged act of sexual violence) and disclose the information received by the review committee, including personally identifiable information, if such information was disclosed pursuant to Paragraph I(4). The law enforcement representative usually will make this disclosure; however, any member of the review committee may decide independently that such disclosure is required under state law and within 24 hours of the first review team meeting shall disclose the information to the local Commonwealth's Attorney (or other prosecutor responsible for prosecuting the alleged act of sexual violence), including personally identifiable information, if such information was disclosed pursuant to Paragraph I(4). If the Title IX Coordinator is aware of such disclosure, the Title IX Coordinator will notify the alleged victim in writing that such disclosure is being made. In addition, law enforcement will notify the local Commonwealth's Attorney within 48 hours of beginning an investigation involving a felonious act of sexual violence. Either campus police, the local law enforcement agency, or the State Police will notify the Commonwealth's Attorney pursuant to an MAA/MOU.
6. The College will accept anonymous reports, but it will be limited in its ability to investigate and take reasonable action. The College must have sufficient information to conduct a meaningful and fair investigation. A respondent has a right to know the name of the complainant and information regarding the nature of the allegations in order to defend against the complaint. The College, when reasonably available and when requested, may arrange for changes in academic, parking, transportation, or work arrangements after an alleged violation of this Policy. When such accommodations are provided, the College will protect the privacy of the complainant to the extent possible while still providing the accommodation.

Amnesty

The College encourages the reporting of incidents that violate this Policy. The use of alcohol or drugs should not be a deterrent to reporting an incident. When conducting the investigation, the College's primary focus will be on addressing the alleged misconduct and not on alcohol and drug violations that may be discovered or disclosed. The College does not condone underage drinking; however, the College will extend limited amnesty from punitive sanctioning in the case of drug or alcohol use to complainants, witnesses, and others who report incidents, provided that they are acting in good faith in such capacity. The College may provide referrals to counseling and may require educational options, rather than disciplinary sanctions, in such cases.

Timely Warnings

The College is required by federal law to issue timely warnings for reported incidents that pose a substantial threat of bodily harm or danger to members of the campus community. The College will ensure, to every extent

possible, that an alleged victim's name and other identifying information is not disclosed, while still providing enough information for members of the campus community to make decisions to address their own safety in light of the potential danger.

Interim Measures

1. Prior to the resolution of a complaint, the College may suspend or place on disciplinary or administrative leave the respondent when it is determined that the respondent's continued presence on campus threatens the safety of an individual or of the campus community generally; may hamper the investigation into the alleged misconduct; or is necessary to stop threatening or retaliatory contact against the complainant or the complainant's witnesses. The College shall provide advance notice of such measures, except in cases where the individual's presence constitutes a threat. In all cases, however, the College shall notify individuals subject to these interim measure(s) in writing of the specific facts and circumstances that make such interim measure(s) necessary and reasonable. Individuals subject to proposed interim measures shall have the opportunity to show why such measure(s) should not be implemented.
2. Notwithstanding the above, the College may impose a "no contact" order on each party, requiring the parties to refrain from having contact with one another, directly or through proxies, whether in person or by electronic means. The College also will enforce orders of protection issued by courts on all College property to the extent possible.
3. The College may implement other measures for either the complainant or the respondent if requested, appropriate, and reasonably available, whether a formal complaint has been filed or whether an investigation by either campus administrators or law enforcement agencies has commenced. Such measures may include, but are not limited to, course schedule adjustments, reassignment of duty, changing work arrangements, changing parking arrangements, rescheduling class work, assignments, and examinations, and allowing alternative class or work arrangements, such as independent study or teleworking.

Sexual and Domestic Violence Procedures

Anyone who has experienced sexual violence, domestic violence, dating violence, or stalking should do the following:

- Safely find a place away from harm.
- Call 911 or if on campus, contact campus police/security.
- Call a friend, a campus advocate, a family member or someone else you trust and ask her or him to stay with you.
- Go to the nearest medical facility/emergency room. It is important to seek appropriate medical attention to ensure your health and well-being, as well as to preserve any physical evidence.
- If you suspect that you may have been given a drug, ask the hospital or clinic where you receive medical care to take a urine sample. The urine sample should be preserved as evidence. "Rape drugs," such as Rohypnol and GHB, are more likely to be detected in urine than in blood.
- For professional and confidential counseling support, call the Virginia Family Violence & Sexual Assault Hotline at 1-800-838-8238. Help is available 24 hours a day.
- You should take steps to preserve any physical evidence because it will be necessary to prove criminal domestic violence, dating violence, sexual assault, or stalking, or to obtain a protective order.
 - o Do not wash your hands, bathe, or douche. Do not urinate, if possible.
 - o Do not eat, blow your nose, drink liquids, smoke, or brush your teeth if oral contact took place.
 - o Keep the clothing worn when the incident occurred. If you change clothing, place the worn clothing in a paper bag.
 - o Do not destroy any physical evidence that may be found in the vicinity of the incident by

- cleaning or straightening the location of the crime. Do not clean or straighten the location of the crime until law enforcement officials have had an opportunity to collect evidence.
- o Tell someone all the details you remember or write them down as soon as possible.
- o Maintain text messages, pictures, online postings, video and other documentary or electronic evidence that may corroborate a complaint.

Written Notification of Rights and Options

Members of the campus community who report incidents of sexual assault, domestic violence, dating violence, or stalking whether the incident occurred on or off campus, shall receive a written explanation of their rights and options, including (i) the available law-enforcement options for investigation and prosecution; (ii) the importance of collection and preservation of evidence; (iii) the available options for a protective order; (iv) the available campus options for investigation and resolution under the College's policies; (v) the complainant's rights to participate or decline to participate in any investigation to the extent permitted under state or federal law; (vi) the applicable federal or state confidentiality provisions that govern information provided by a complainant; (vii) information on contacting available on-campus resources and community resources, including the local sexual assault crisis centers, domestic violence crisis centers, or other victim support services with which the College has entered into a memorandum of understanding; (viii) the importance of seeking appropriate medical attention; and (ix) options related to changes in academic, parking, and working arrangements, when requested and when reasonably available.

Support Services

1. All students and employees will receive information in writing of available counseling, health, mental health, victim advocacy, legal assistance, and other services available in the community and on campus.
2. For information about available resources, go to: <https://lfcc.edu/current-students/college-policies/title-ix/>

Education and Awareness

1. The College conducts a program to educate students and employees about this Policy and its procedures. The education and awareness program is designed to promote awareness of sexual violence, domestic violence, dating violence, and stalking.
2. The program, at a minimum, shall include:
 - A statement that the College prohibits the offenses of domestic violence, dating violence, sexual assault, and stalking;
 - The definition of domestic violence, dating violence, sexual assault, and stalking;
 - The definition of consent;
 - Safe and positive options for bystander intervention that may be carried out by an individual to prevent harm or intervene when there is a risk of domestic violence, dating violence, sexual assault, or stalking against a person other than such individual;
 - Information on risk reduction to recognize warning signs of abusive behavior and how to avoid potential attacks;
 - Information on possible sanctions, procedures to follow after an incident of sexual violence, domestic violence, dating violence or stalking, disciplinary procedures, and the protection of confidentiality; and
 - Written notification about available resources and services, and options for academic and work accommodations, if requested and reasonably available.
3. The College offers the prevention and awareness program to all new and existing students and employees.

Resolution of Complaints

1. The College has an obligation to the entire College community. Accordingly, the College may pursue an investigation even if the complainant requests that no action is taken and the College will not be able to ensure confidentiality in all cases. The College will notify the complainant in writing when it is unable to maintain confidentiality or respect the complainant's request for no further action.
2. The College must provide a prompt, fair, and impartial investigation and resolution of alleged violations to this Policy and is committed to doing so. Title IX Coordinator(s), investigators, and hearing officials must receive annual training on sexual violence, domestic violence, dating violence, and stalking, and the conduct of investigations and hearings. The College may resolve complaints either by an informal or formal resolution process.
3. Suspending an Investigation. The College will comply with all requests for cooperation by the campus police or local law enforcement in investigations. The College may be required to suspend the Title IX investigation while the campus police or the local law enforcement agency gathers evidence. The College will resume its Title IX investigation as soon as the campus police or local law enforcement agency has completed gathering evidence. Otherwise, the College's investigation will not be precluded or suspended on the grounds that criminal charges involving the same incident have been filed or that charges have been dismissed or reduced.
4. The parties may agree to proceed under the informal resolution process in matters not involving sexual violence, domestic violence, dating violence, or stalking. The formal resolution process will be applied (i) when any party that participated in the informal resolution process chooses to terminate the informal process, and (ii) to all matters that are not eligible for informal resolution.

Formal Resolution Process

1. Complainant's Initial Meeting with the Title IX Coordinator. As soon as is practicable, the Title IX Coordinator will contact the complainant to schedule an initial meeting. If the complainant is not the alleged victim, the Title IX Coordinator also will contact the alleged victim as soon as possible to schedule an initial meeting. The Title IX Coordinator shall inform the complainant that he or she may be accompanied by an advisor of his or her choosing at the meeting. At this initial meeting, the Title IX Coordinator will:
 - a. Provide the complainant a copy of this Policy;
 - b. Provide the complainant with a Complaint Form, if necessary;
 - c. Provide a written explanation of the complainant's rights and options related to changes in academic, parking, and working arrangements;
 - d. Explain avenues for formal resolution and informal resolution of the complaint;
 - e. Explain the steps involved in an investigation;
 - f. Discuss confidentiality standards and concerns with the complainant;
 - g. Discuss non-retaliation requirements;
 - h. Determine whether an informal resolution is permissible, and whether the complainant wishes to pursue a resolution (formal or informal) through the College or no resolution of any kind;
 - i. Refer the complainant to campus and community resources, including the local sexual assault crisis center, domestic violence crisis center, or other victim support service with which the College has entered into a memorandum of understanding;
 - j. Discuss with the complainant, as appropriate, possible interim measures that may be taken or provided when necessary during the pendency of the investigative and resolution processes;
 - k. Discuss the right to a prompt, fair, and impartial resolution of the complaint;
 - l. Discuss the College's obligation to disclose information about the complaint, including personally identifiable information, to campus/local law enforcement or to the local Commonwealth's Attorney, or both, if the review team determines that such disclosure is necessary to protect the health or safety of the complainant or others.

2. Respondent's Initial Meeting with the Assigned Title IX Coordinator. As soon as is practicable, the Title IX Coordinator will notify the respondent in writing of the complaint. The correspondence should include information about the allegation(s). The correspondence also must schedule an initial meeting with the respondent. (The College may compel the student/employee respondent to attend the meeting; however, the respondent should not be compelled to make any statements that may be used against the respondent in a criminal proceeding.) The Title IX Coordinator shall inform the respondent that he or she may be accompanied by an advisor of his or her choosing at the meeting. During the initial meeting with the respondent, the Title IX Coordinator will:
 - a. Provide the respondent a copy of this Policy;
 - b. Provide a written explanation of the respondent's rights and options related to changes in academic, parking, and working arrangements;
 - c. Explain the College's procedures for formal resolution and informal resolution of the complaint;
 - d. Explain the steps involved in an investigation;
 - e. Discuss confidentiality standards and concerns with the respondent;
 - f. Discuss non-retaliation requirements;
 - g. Inform the respondent of any interim measures that may be imposed on the respondent;
 - h. Refer the respondent to campus and community resources, as appropriate;
 - i. Discuss with the respondent, as appropriate, possible accommodations that can be provided to the respondent during the pendency of the investigative and resolution processes;
 - j. Discuss the respondent's the right to due process and a prompt, fair, and impartial resolution of the complaint; and
 - k. If the respondent is a student and the complaint involves an alleged act of sexual violence, explain to the respondent that the College will include a notation on the academic transcript if the respondent is suspended or dismissed after being found responsible, or if the respondent withdraws while under investigation, that the investigation may continue in the respondent's absence, if possible while being afforded notice of the allegations (and hearing, if applicable) and an opportunity to respond to all the evidence.
3. Title IX Coordinator's Initial Determination.
 - a) The College shall conduct an investigation of the complaint unless
 - (i) the complainant does not want the College to pursue the complaint and the Title IX Coordinator has determined that the College can honor the request;
 - (ii) it is clear on its face and based on the Title IX Coordinator's initial meetings with the parties that no reasonable grounds exist for believing that the conduct at issue constitutes a violation of this Policy. The Title IX Coordinator will consider the following factors in determining whether it is reasonable to investigate the complaint: the source and nature of the information; the seriousness of the alleged incident; the specificity of the information; the objectivity and credibility of the source of the information; and whether the individuals allegedly subjected to the conduct can be identified. Other considerations include whether the conduct is sexual in nature or sex-based; whether the conduct occurred on college property or within an educational program; whether the conduct has a discriminatory impact; whether the College has jurisdiction over the possible respondent; whether there is an emergency health/safety risk posed by the conduct.
 - b) Once the College has decided to conduct an investigation, the College will provide written notice to the respondent of the allegations constituting a potential violation of the Policy, to include sufficient details and with sufficient time to prepare a response. Sufficient details include the identities of the parties involved, the specific conduct allegedly constituting the potential policy violation, and the date and location of the alleged incident.
 - c) In the event that the Title IX Coordinator determines that an investigation of the complaint should not be conducted, he or she will document (in consultation, as necessary, with the complainant, respondent, and other College officials) the appropriate resolution of the complaint and inform the parties of the same. The Title IX Coordinator shall provide specific and clear written reason(s) why an investigation should not be conducted. The Title IX Coordinator shall provide the determination that

the College will not investigate the matter to the complainant and the respondent, concurrently, within five (5) workdays of the completion of the initial meetings. This decision is final.

4. Appointment of the Investigator and Conduct of the Investigation.
 - a) If the Title IX Coordinator determines that an investigation should be conducted, he or she will appoint an investigator within five (5) workdays of the completion of the initial meetings. The Title IX Coordinator will share his or her name and contact information with the complainant and respondent and will forward the complaint to the investigator. Within three (3) workdays of such appointment, the investigator, the complainant or the respondent may identify to the Title IX Coordinator in writing any potential conflict of interest posed by assigning such investigator to the matter. The Title IX Coordinator will consider such statements and will assign a different individual as investigator if it is determined that a material conflict of interest exists.
 - b) The investigator will contact the complainant and respondent promptly. In most cases, this should occur within three (3) workdays from the date of the investigator's appointment or the conclusion of the informal resolution process, whichever is later. The investigator will schedule meetings with the parties. The parties may provide supporting documents, evidence, and recommendations of witnesses to be interviewed during the course of the investigation. Each party may have one advisor present during any meeting with the investigator; however, the advisor may not speak on the party's behalf.
 - c) In the conduct of the investigation, the investigator should weigh the credibility and demeanor of the complainant, respondent, and witnesses; the logic and consistency of the evidence, motives, and any corroborating evidence.
 - d) The resolution of any alleged violation of this Policy should be completed normally within 60 workdays of the filing of the complaint or the date on which the College becomes aware of the alleged violation, unless good cause exists to extend the timeframe. The College should make a good faith effort to resolve the matter in a timely manner. The 60-workday timeframe refers to the entire investigation process, which includes conducting the fact-finding investigation, the decision-making process to determine whether the alleged incident occurred, and determining what actions the College will take in response, including the imposition of sanctions. The 60-workday timeframe does not include appeals. If the process must be suspended or delayed for any reason and more time is necessary, the Title IX Coordinator will notify the parties in writing and give the reason for the delay and an estimated time of completion.
 - e) Both complainant and respondent will have the opportunity to review and respond to evidence obtained during the investigation. Each party also will have the opportunity to review and comment on the written investigation report within five (5) workdays of receiving the report. The final written investigation report and the parties' responses to it shall be part of the record.
 - f) The investigator will complete a written investigation report that includes summaries of all interviews conducted, photographs, descriptions of relevant evidence, the rationale for credibility determinations, summaries of relevant electronic records, and a detailed report of the events in question. The written investigation report shall include at minimum, the following information to the greatest extent possible:
 - The name and gender of the complainant and, if different, the name and gender of the person reporting the allegation;
 - The names and gender of all persons alleged to have committed the alleged violation;
 - A statement of the allegation, a description of the incident(s), and the date(s) and time(s) (if known) of the alleged incident(s);
 - The date that the complaint or other report was made;
 - The dates the parties were interviewed;
 - The names and gender of all known witnesses to the alleged incident(s);
 - The dates that any relevant documentary evidence (including cell phone and other records as appropriate) was obtained;

- Any written statements of the complainant or the alleged victim if different from the complainant;
 - The date on which the College deferred its investigation and disciplinary process because the complainant filed a law enforcement complaint and the date on which the College resumed its investigation and disciplinary process (if applicable); and
 - Findings of fact.
- g) The investigator will forward the written investigation report to the Title IX Coordinator.
- h) The withdrawal of a student from the College while under investigation for an alleged violation of this Policy involving an act of sexual violence in most cases should not end the College's investigation and resolution of the complaint. The College shall continue the investigation if possible as set forth under this Policy. The College shall notify the student in writing of the investigation and afford the student the opportunity to provide evidence, to review and respond to all the evidence against the student, and to the written investigation report prior to making a final determination. If on appeal and the College uses a hearing panel for appeals, the student also shall receive notice in writing of any hearing, including the day, time, and location. If on appeal and the College does not use a hearing panel for appeals, the student shall receive notice of the appeal and have the opportunity to submit a statement. Upon the student's withdrawal, the College shall place a notation on the student's academic transcript that states, "Withdrew while under investigation for a violation of [name of community college's] sexual misconduct policy." After the College has completed its investigation and resolution of the complaint, the College shall either
- (1) remove the notation if the student is found not responsible or
 - (2) change the notation to reflect either a suspension or dismissal for a violation of the Policy if either was imposed.

The College shall end the investigation and resolution of the complaint if the College cannot locate the respondent and provide him or her notice and the opportunity to respond. In such cases, the College shall maintain the withdrawal notation on the student's academic transcript. Upon a final determination, the Title IX Coordinator immediately shall notify the registrar and direct that the appropriate notation is made.

Determination of Title IX Coordinator and Corrective Action Report

1. The Title IX Coordinator will determine whether there is a preponderance of the evidence to find that the respondent violated this Policy as alleged. In most cases, this should occur within five (5) workdays of receiving the written investigation report from the investigator. The "preponderance of the evidence" standard requires that the weight of the evidence, in totality, supports a finding that it is more likely than not that the respondent is responsible for committing the alleged violation. Under the Clery Act (for allegations of domestic violence, dating violence, sexual assault, and stalking), the College must provide to both parties concurrently written notification of the results of the proceeding and the procedures to appeal, and any changes to the result when it becomes final. The notification shall include the rationale for the determination and the sanctions. "Result" means any initial, interim, and final decision by any official or entity authorized to resolve disciplinary matters within the College.

For allegations of harassment, the College should inform the complainant whether it found that the alleged conduct occurred, any individual remedies offered to the complainant or any sanctions imposed that directly relate to the complainant, and other steps the College has taken to eliminate the hostile environment.

2. If the Title IX Coordinator finds that the evidence does not prove by a preponderance of the evidence that the respondent committed the alleged violation, the matter will be closed. The Title IX Coordinator will make the determination in writing and distribute the written investigation report with such finding to the complainant and the respondent concurrently. All parties to whom the written investigation report is

distributed pursuant to this Policy should maintain it in confidence. Both the complainant and the respondent may appeal the finding under the procedure described below.

3. If the Title IX Coordinator finds by a preponderance of the evidence that a violation of this Policy did occur, the Title IX Coordinator will make the determination in writing and distribute the written investigation report with such finding to the complainant and the respondent concurrently. All parties to whom the written investigation report is distributed pursuant to this Policy should maintain it in confidence. Both the complainant and the respondent may appeal the finding under the procedure described below.
4. When the Title IX Coordinator finds that a violation has occurred, he or she also shall write a separate written corrective action report that will contain recommendations for steps that should be taken to prevent recurrence of any such violation and to remedy any discriminatory effects. If interim measures as described above have been taken, the written corrective action report shall include a recommendation regarding continuation, suspension or modification of any such interim measures. The Title IX Coordinator shall distribute the written corrective action report to the complainant and respondent concurrently. In most cases, the written corrective action report should be completed within five (5) workdays after the distribution of the written investigation report. The written investigation report and the corrective action report may be submitted concurrently. The Title IX Coordinator also shall provide the written investigation report and the written corrective action report to the appropriate College official, as described below.
5. If the respondent is a student, the Title IX Coordinator will forward the reports to the Campus Judicial Officer. Within ten (10) workdays, the Judicial Officer shall determine and impose appropriate sanctions, as described below. The respondent and the Title IX Coordinator shall receive written notification of sanction(s). The notification of sanctions shall include the rationale for such sanctions in a manner consistent with the Family Educational Rights and Privacy Act (FERPA). When the respondent is a student, within five (5) workdays of receipt, the Title IX Coordinator may disclose to the complainant the sanctions imposed on the respondent that directly relate to the complainant as permitted by state and federal law, including FERPA and the Virginia Freedom of Information Act, when such disclosure is necessary to ensure the safety of the complainant. The Title IX Coordinator also must disclose in writing to the complainant the final results of a disciplinary proceeding involving the respondent with regard to an alleged forcible or non-forcible sex offense, act of stalking, domestic violence or dating violence on the complainant, as permitted by state and federal law including FERPA and the Virginia Freedom of Information Act. The disclosure of final results must include only the name of the student, the violation committed, and any sanction imposed by the College against the student.
6. If the respondent is an employee, the Title IX Coordinator will forward the reports to the Chief Human Resources Officer (CHRO). Within ten (10) workdays, the CHRO shall determine and impose appropriate sanctions, as described below. The respondent and the Title IX Coordinator shall receive written notification of sanction(s). Please consult Paragraph S(1) of this Policy for more information regarding the written notification that must be provided to the complainant. Notwithstanding Paragraph S(1), the complainant shall not receive additional information or records that would constitute personnel records.
7. If the respondent is a third party, the Title IX Coordinator will forward the reports to the Vice President of Finance and Administration. Within ten (10) workdays, the Vice President of Finance and Administration shall determine and impose appropriate sanctions, as described below. The respondent and the Title IX Coordinator shall receive written notification of sanction(s). The Title IX Coordinator may disclose to the complainant information as described above.
8. The Title IX Coordinator will advise the complainant and the respondent of their right to appeal any finding or sanction in writing. The written notification also shall provide information on the appeals process. If the complainant or respondent does not contest the finding or recommended sanction(s), he or she shall sign a statement acknowledging such. The signed statement shall be part of the record.

Informal Resolution

1. After receiving a request from both parties to resolve the complaint with the informal resolution process, the Title IX Coordinator will appoint a College official to facilitate an effective and appropriate resolution. Within three (3) workdays of such appointment, the College official, the complainant or the respondent may identify to the Title IX Coordinator in writing any potential conflict of interest posed by assigning such official to the matter. The Title IX Coordinator will consider such statements and will assign a different individual to facilitate if it is determined that a material conflict of interest exists. Within five (5) workdays of the appointment, the College official will request a written statement from the parties to be submitted within ten (10) workdays. Each party may request that witnesses are interviewed. Within ten (10) workdays of receiving the written statements, the College official will hold a meeting(s) with the parties and coordinate informal resolution measures. The College official shall review the information that is covered in the initial meeting under the formal process, as provided in Paragraphs R1 and R2. The College official shall document the meeting(s) in writing. Each party may have one advisor of his or her choosing during any meeting; however, the advisor may not speak on the party's behalf.
2. The informal resolution process should be complete within thirty (30) workdays in most cases, unless good cause exists to extend the timeframe. The parties will be notified in writing and given the reason for the delay and an estimated time of completion. Any party may request in writing that the informal resolution process be terminated at any time, in which case the formal resolution process will commence.
3. Any resolution of a complaint through the informal process must address the concerns of the complainant and the responsibility of the College to address alleged violations of the Policy, while also respecting the due process rights of the respondent. Informal resolution remedies might include mandatory education, counseling, written counseling by an employee's supervisor, or other methods. The College official will provide the complainant and respondent with a copy of the final written report concurrently. The final written report shall include the nature of the complaint, a meeting(s) summary, the informal resolution remedies applied, and whether the complaint was resolved through the informal resolution process.
4. Either party can pursue formal resolution if he or she is dissatisfied with the proposed informal resolution.

Sanctions & Corrective Actions

1. The College will take reasonable steps to prevent the recurrence of any violations of this Policy and to correct the discriminatory effects on the complainant (and others, if appropriate). Sanctions for a finding of responsibility depend upon the nature and gravity of the misconduct, any record of prior discipline for similar violations, or both.
2. The range of potential sanctions and corrective actions that may be imposed against a student includes but is not limited to the following: required discrimination or harassment education, a requirement not to repeat or continue the discriminatory, harassing, or retaliatory conduct, verbal or written warning, a no-contact order, written or verbal apology, verbal or written warning, probation, suspension, and expulsion from the College.
 - a. If a student is found responsible for an act of sexual violence under this Policy and is suspended or dismissed, the student's academic transcript shall be noted as follows: "Suspended/Dismissed for a violation of Lord Fairfax Community College's sexual misconduct policy." In the case of a suspension, the College shall remove such notation immediately following the completion of the term of suspension and any conditions thereof, and when the student is considered to be in good standing. The student shall be considered to be in good standing for the purposes of this section following the completion of the term of suspension and satisfaction of all conditions thereof. Upon completion of the suspension, the Title IX Coordinator (or designee) shall meet with the student to confirm

completion of the conditions and upon such confirmation, direct the registrar to remove the notation from the student's academic transcript.

- b. If a student withdraws from the College while under investigation involving an act of sexual violence under this Policy, the student's academic transcript shall be noted as follows: "Withdrew while under investigation for a violation of Lord Fairfax Community College's sexual misconduct policy." Students are strongly encouraged not to withdraw from the College.
 - c. The College shall immediately remove the notation from the student's academic transcript upon a subsequent finding that the student is not responsible an offense of sexual violence under this Policy. Upon such a finding, the Title IX Coordinator (or designee) shall direct the registrar to remove the notation from the student's academic transcript.
 - d. Notations on academic transcripts regarding suspensions and dismissals shall be placed on the student's academic transcript after resolution of all appeals.
3. Sanctions for faculty and staff shall be determined in accordance with the VCCS Policy Manual and the Department of Human Resource Management Standards of Conduct, respectively. Possible sanctions and corrective actions include required discrimination or harassment education, informal or formal counseling, reassignment, demotion, suspension, non-reappointment, and termination from employment.
 4. Third parties, e.g., contractors, will be prohibited from having access to the campus. Depending on the violation, this prohibition may be permanent or temporary.
 5. Title IX Coordinator will determine the final accommodations to be provided to the complainant, if any.
 6. Sanctions imposed do not take effect until the resolution of any timely appeal. However, the College may keep in place or impose interim measures when the continued presence of an individual on campus may threaten the safety of an individual or the campus community, generally. These interim measures may continue in effect until such time as the appeal process is exhausted in such cases.

Appeals *(Please note that appeals under this Policy are not required by Title IX or the Campus SaVE Act.)*

Either the complainant or the respondent has the opportunity to appeal the outcome of the written investigation report and/or the sanction(s) recommended. Appeals shall be conducted in accordance with the applicable grievance procedures described in the Student Handbook, VCCS Policy Manual, and the Grievance Procedure Manual of the Department of Human Resource Management. Third parties may request that the College reconsider its decision in writing to the College President.

Academic Freedom and Free Speech

1. This Policy does not allow censorship of constitutionally protected expression. As a "marketplace of ideas," the College encourages intellectual inquiry and recognizes that such inquiry may result in intellectual disagreements. Verbal or written communications constitute sexual harassment only when such communications are sufficiently severe, pervasive, and objectively offensive that they undermine and detract from an employee's work performance or a student's educational experience. Verbal or written communications, without accompanying unwanted sexual physical contact, is not sexual violence or sexual assault.
2. In addressing all complaints and reports of alleged violations of this Policy, the College will take all permissible actions to ensure the safety students and employees while complying with any and all applicable guidance regarding free speech rights of students and employees. This Policy does not apply to curriculum, curricular materials, or abridge the use of particular textbooks.

False Allegations

Any individual who knowingly files a false complaint under this Policy, who knowingly provides false information to College officials, or who intentionally misleads College officials who are involved in the investigation or resolution of a complaint may be subject to disciplinary action, up to and including dismissal for

students and termination of employment for faculty and staff. An allegation that cannot be proven by a preponderance of the evidence is not necessarily proof of knowingly filing a false complaint.

Consensual Relationships

Pursuant to VCCS Policy 3.14.2, consenting romantic or sexual relationships between employees and students for whom the employee has a direct professional responsibility are prohibited. Consenting romantic or sexual relationships between employees where one employee has a direct professional responsibility also are prohibited. Consenting romantic or sexual relationships between other employees (not in a supervisory position), or with students for whom the employee does not have a direct professional responsibility, although not expressly forbidden, are unwise and are strongly discouraged. The relationship may be viewed in different ways by each of the parties, particularly in retrospect. Furthermore, circumstances may change, and conduct that was previously welcome may become unwelcome.

Record Keeping

The Title IX Coordinator shall maintain, in a confidential manner, for at least five (5) years, paper or electronic files of all complaints, witness statements, documentary evidence, written investigation reports, review committee records, written corrective action reports, sanctions, appeal hearings and associated documents, if any, the responses taken by College personnel for each complaint, including any interim and permanent steps taken with respect to the complainant and the respondent, and a narrative of all action taken to prevent recurrence of any harassing incident(s), including any written documentation.

Code of Student Rights, Responsibilities, & Conduct

Short Title

These rules shall be known as the Lord Fairfax Community College Code of Conduct.

Bill of Rights

The following enumeration of rights shall not be construed to deny or disparage others retained by students in their capacity as members of the student body or as citizens of the community at large:

1. Free inquiry, expression, and assembly are guaranteed to all students consistent with the First Amendment to the United States Constitution.
2. Students are free to pursue their educational goals and appropriate opportunities for learning in the classroom and on the campus shall be provided by the institution.
3. The right of students to be secure in their persons, papers, and effects against unreasonable searches and seizures consistent with the Fourth Amendment of the United State Constitution.
4. No disciplinary sanctions may be imposed upon any student without notice to the accused of the nature and cause of the charges and an opportunity for a fair hearing.

The College has the right to set and expect reasonable standards for behavior and conduct that safeguard the College, College property, and all additional components of the educational process.

Definition

When used in this Code:

1. The term "institution" means Lord Fairfax Community College and, collectively, those responsible for its control and operation.
2. The term "student" includes all persons taking courses at the institution both full-time and part-time.
3. The term "instructor" means any person hired by the institution to conduct classroom activities. In certain situations, a person may be both "student" and "instructor." Decisions regarding his/her status in a particular situation shall be determined by the surrounding facts.
4. The term "legal compulsion" means a judicial or legislative order which requires some action by the person to whom it is directed.
5. The term "organization" means a number of persons who have complied with the formal requirements of institution recognition as provided in number 10.

6. The term “group” means a number of persons who have not yet complied with the formal requirements for becoming an organization.
7. The term “student press” means either an organization whose primary purpose is to publish and distribute any publication on campus or a regular publication of an organization.
8. The term “administrator” shall refer to any designated employee who has the authority to act on the behalf of the College on the whole.
9. The term “College official” shall refer to any designated employee who has the authority to enforce the parameters of the student code of conduct.
10. The term “vice president” shall mean the vice president of academic and student affairs unless otherwise indicated.
11. The term “shall” is used in the imperative sense.
12. The term “may” is used in the permissive sense.
13. All other terms may have their natural meaning unless the context dictates otherwise.

Alcohol and Drugs

Students shall not possess, use, distribute or manufacture illegal drugs and alcohol (defined as neither prescription nor OTC) on school property including buildings, facilities, grounds, property controlled by the College, as part of College activities on or off campus, while serving as a representative of the College at off-campus meetings, in any state-owned, controlled or leased property or at a site where state work is performed. Individuals in violation of this policy may also be subject to legal sanctions under local, state or federal law regarding the unlawful possession or distribution of illegal drugs and alcohol. Illegal distribution of prescription drugs and medications is also prohibited in these venues. Students that are inebriated or otherwise under the influence of drugs or alcohol according to the subjective standards of a College official are not allowed in LFCC classrooms at any point.

Campus Expression

Discussion and expression of all views is permitted within the institution subject only to requirements for the maintenance of safety, order, and respect for others’ right to privacy, freedom from harassment, and other applicable policies of the institution.

Students, groups, and campus organizations may invite and hear any persons of their own choosing subject only to the requirements for use of institutional facilities.

Camping

Camping on College property is not permitted without a written permit signed by student activities personnel. Camping is defined as overnight visitation on campus grounds. Overnight parking may also be punished by relevant law enforcement authorities.

Classroom Expression

Orderly discussion and expression of all views relevant to the subject matter is permitted in the classroom subject to the responsibility of the instructor to maintain order.

Information about student views, beliefs, and political associations acquired by professors in the course of their work as instructors, advisors, and counselors, is confidential and is not to be disclosed to others unless under legal compulsion. (Questions relating to intellectual or skills capacity are not subject to this section.)

Computer Misuse--Information Technology Student/Patron Acceptable Use Agreement

As a user of the Virginia Community College System’s local and shared computer systems students must understand and agree to abide by the following acceptable use agreement terms. These terms govern your access to and use of the information technology applications, services and resources of the VCCS and the information they generate.

The College has granted access to students as a necessary privilege in order to perform authorized functions at the institution where they are currently enrolled. Students will not knowingly permit use of their entrusted access control mechanism for any purpose other than those required to perform authorized functions related to their

status as a student. These include logon identification, password, workstation identification, user identification, digital certificates or 2-factor authentication mechanisms.

For detailed information on the computer use agreement, please go to: <https://lfcc.edu/about-lfcc/office-of-financial-and-administrative-services/technology-services/computer-use-agreement/>

Dangerous Practices

No student shall engage in any behavior or act that could reasonably pose a danger to fellow students, college employees, and/or college property.

Digital Copyright and File Sharing

Downloading or distributing copyrighted materials such as documents, movies, music, etc. without the permission of the rightful owner is considered copyright infringement and is illegal under federal copyright law. Under no circumstances should the College's network connections be used to violate copyright laws. Use of the College's network resources to commit acts of copyright infringement may be subject to prosecution and potential disciplinary actions.

The College has implemented technology that can detect P2P software running on the campus network. For additional information go to <http://system.vccs.edu/its/InformationSecurityProgram/docs/P2P>.

Disorderly Conduct

No student shall cause or incite any disturbance (including but not limited to excessive noise) in or near any campus building. This restriction extends to any activity which interrupts the standard safe and orderly operation of the College.

Disruption of Educational Process

No student shall cause or incite any disturbance (including excessive noise) in or near any campus building. This restriction extends to any activity which interrupts the standard safe and orderly operation of the College.

Generally, institutional discipline should be limited to conduct which adversely affects the institutional community's pursuit of its educational objectives. Disruptive misconduct is subject to disciplinary action, in addition to possible relevant law enforcement action. Examples of this conduct include, but are not limited to:

1. All forms of dishonesty including cheating, plagiarism, and knowingly furnishing false information to the institution, and forgery, alteration or use of institutional documents or instruments, or identification with intent to defraud.
2. Intentional disruption or obstruction of teaching, research, administration, disciplinary proceedings, or other College activities.
3. Damaging, defacing, stealing, or destroying College property or property of a member of the College community or campus visitor.
4. Violation of published institutional regulations including those relating to entry and use of institutional facilities, the rules in this Code of Conduct, and any other regulations which may be enacted.
5. Violation of law on institutional premises in a way that affects the institutional community's pursuit of its proper educational purposes.

Expressive Activity

Lord Fairfax Community College is a community in which the ideals of freedom of inquiry, thought, and expression are respected and sustained. For more information on free speech, please go to: <https://lfcc.edu/current-students/college-policies/free-speech-at-lfcc/>

Failure to Comply with a College Official

No student shall fail to comply with a request or order from a College official. Violations of this policy include failure to properly follow through with any disciplinary measure imposed upon a student.

Falsification of Official Information

No student shall misrepresent him/ herself in any way while interacting with a College official, including holding him/herself out as a college official.

Fire Safety

All students are expected to maintain appropriate fire safety measures. Examples of non-compliance would include: failure to evacuate during a fire alarm, falsely pulling a fire alarm, and/or misusing fire safety equipment. Use of fireworks or firecrackers on campus is prohibited. Candles and other forms of fire are also prohibited. (Cigarette lighters or matches used to light tobacco products in a designated smoking area are the only exception). Disabling exit doors or blocking handicap access ramps is not permitted. Violations of these prohibitions may also be punished by relevant law enforcement authorities.

Gambling

In Virginia, gambling events and activities are unauthorized by law, except with special permit. LFCC cannot authorize gambling without proper state waiver.

Hazing

Hazing, defined as any action which leads to physical or mental discomfort for any member of the shared community, is prohibited on campus. Violations of this prohibition may also be punished by relevant law enforcement authorities.

Institutional Governance

All constituents of the institutional community are free, individually and collectively, to express their views on issues of institutional policies affecting academic and student affairs. The role of student government and its responsibilities shall be made explicit. On questions of educational policy, students are entitled to a participatory function.

Obscene Conduct

Students are expected not to engage in any type of lewd or obscene conduct while in a College building, on campus (or at a center), or at a College-sponsored off-site activity. This violation extends to include possessing, producing, or distributing illegal or inappropriate sexual materials as well as any and all forms of inappropriate touching. Note: Certain types of information may be distributed due to the learning nature of our collegiate environment; perceived obscenities based on expected academic goals may be exempt from this policy.

Off Campus Student Code of Conduct

Students are accountable for their conduct regardless of where it takes place, on or off the College property. This includes any behavior which reflects badly on the College or its mission including, but not limited to, high-risk use of alcohol, drug use, violent actions, and any behavior which compromises health, safety, and academic success.

Projectiles

No student shall cause any object to be projected (via throwing or any other method) through the air in any indoor campus environment. Projectiles are permitted in outdoor areas, as long as no formal College event is being conducted in that space. Violations of this prohibition may also be punishable by relevant law enforcement authorities.

Proscribed Conduct

The institution may institute its own proceedings against a student who violates a law on campus, which is also a violation of a published institution regulation. Official notices conspicuously displayed on bulletin boards in public areas throughout the campus are considered to be published institutional regulations. It is the responsibility of every student to read all official notices conspicuously posted through the College facilities. In addition, students are held to obey all local, state, and federal laws and violation of said may subject them to punishment by relevant law enforcement authorities. Any violations not listed below are subject to the discretion of the vice president or other College official as designated by the vice president. Consequences for said actions will be determined by the Student Conduct Officer.

Publications

A student, group, or organization may distribute pre-approved written material on campus providing such distribution does not disrupt the operation of the institution. Student activities personnel reserve the right to deny posting of written material for any reason.

The College press is to be free of censorship. The editors and managers shall not be arbitrarily suspended because of student, faculty, administration, alumni, or community disapproval of editorial policy or content. Similar freedom is assured to oral statements of views on an institution controlled and student operated radio or television station. (This editorial freedom entails a corollary obligation under the canons of responsible journalism and applicable regulations of the Federal Communications Commission.)

All student communications shall explicitly state on the editorial page or in broadcast that the opinions expressed are not necessarily those of the institution or its student body.

Smoking

Smoking or use of any apparatus that emits smoke or is designed to simulate smoking or any other tobacco product is not permitted in any College building. Smoking on school property is permitted only in designated areas, which are identified as any space more than 25 feet from an entrance to the College. For more information on the smoking policy, please go to www.lfcc.edu/policies.

Unauthorized Use of College Property or Documents

No official LFCC documentation or property should be used for any purpose by a student not authorized to do so. Examples of property include: College buildings, parking lots and vehicles, in addition to College computers, lab equipment and furniture. Examples of documents include: Logos, letterhead, forms and Web sites. This prohibition may also be enforced by relevant legal action pursuant to state and federal law.

Violence to Persons

No students shall engage or attempt to engage in any form of violence directed towards another person, group or self. No student shall threaten anyone else with physical harm, direct obscenities towards them, or engage in any activity that could be reasonably anticipated to provoke a violent reaction from that individual. Behaviors that present a threat or a potential danger to the College community are defined as, but not limited to:

1. Threatening Behavior (including but not limited to):
 - a. Physical actions short of actual contact/injury (i.e., moving closer aggressively, waving arms or fists, raising tone of voice or yelling in an aggressive or threatening manner)
 - b. Oral or written threats to harm people or their property (i.e., "you better watch your back" or "I'll get you"), including the use of any electronic means of communication
 - c. Implicit threats (i.e. "you'll be sorry" or "this isn't over yet.")
2. Violent Behavior (including but not limited to):
 - e. Intentionally acting in a manner that in any way endangers the safety of others
 - f. Any physical assault, with or without weapons
 - g. Behavior that a reasonable person would interpret as being physically aggressive (i.e. destruction of property, pounding on a desk or door or throwing objects in a threatening manner)
 - h. Specific threats to inflict harm (e.g. a threat to shoot a named individual)
 - i. Use of any object to attack or intimidate another person
 - j. Interfering with an individual's legal rights of movement or expression
3. Intimidating Behavior (including but not limited to):
 - a. Intimidation of any kind that results in an individual's fear for his/her personal safety
 - b. Engaging in stalking behavior
 - c. Behavior that is reasonably perceived to be frightening, coercing, or inducing distress to any member of the College community
4. Disruptive Behavior (including but not limited to):
 - a. Verbally intimidating, threatening, or abusing any person or persons in the College environment
 - b. Physically intimidating, threatening, abusing or assaulting others

- c. Disorderly or abusive behavior that interferes with the rights of others or obstructs the teaching or learning environment or business of the College
- d. Making inappropriate and incessant demands for time and attention from College employees or students
- e. Inappropriate use of College facilities or resources
- f. Theft or damage to College property

Violations of these prohibitions may also be punishable by relevant law enforcement authorities.

Weapons

No student shall keep, use, possess, display or carry any rifle, shotgun, handgun, knife, other edged weapon, or other lethal or dangerous instrument capable of maiming and/or casting a projectile by air, gas, explosion, or mechanical means on any property owned or operated by the College. This violation extends to include any realistic facsimiles of a weapon. These conditions are met if the weapon is on one's person or in their vehicle.

Note: Possession of a weapon on campus based on expected academic experiences (enrollment in a gun safety class) may be exempt from this policy with prior written permission from LFCC's security office. Violations of these prohibitions may also be punishable by relevant law enforcement authorities. See regulation of weapons policy at <https://lfcc.edu/policies>.

Student Conduct Disciplinary Procedures

All students are afforded the right to due process for any violation. This process is defined below:

1. Any academic or administrative official, faculty member, or student may file a complaint against any student for misconduct. In extraordinary circumstances, the accused student may be indefinitely suspended pending consideration of the case. Such suspension shall not exceed a reasonable time. Any administrator, College official, faculty member, or student wishing to file complaints against a College employee must follow a separate protocol as outlined in the human resource policy manual.
2. When the Student Conduct Officer receives information that a student has allegedly violated a rule, regulation, policy, or procedure, the Student Conduct Officer shall investigate the alleged violation. After completing the preliminary investigation, the Student Conduct Officer will either
 - a. Dismiss the allegation as unfounded or
 - b. Determine if the severity and nature of the problem necessitates a student conference.

If a conference is deemed necessary, a request will be issued to the student via certified letter to the address contained in the College record. The notification will also be sent to the student's College email address. The notification will inform the student of the alleged violation of the student code of conduct. The notification will instruct the student to respond within ten (10) calendar days of the date of the correspondence. A conference time will be set after consultation with all involved parties; the vice-president (or designee) will have discretion to alter the arrangements of the conference for good cause.

3. The President or Student Conduct Officer, may take immediate interim disciplinary actions, suspend the right of the student to be present on the campus and to attend classes, or otherwise alter the status of a student for violation of rules, regulations, policies, or procedures when the student is a clear or present danger to himself/herself or others, or if such action is in the best interest of the College. The College reserves the right at all times to take such prompt action as may be needed to preserve the peace, integrity, and safety of the educational process and the College environment.

Disposition of a Violation

As a result of the student conference, the Student Conduct Officer may select one of the following as a course of action:

1. Proceed administratively if it is determined that facts of the alleged violation are not in dispute.
2. Proceed administratively if it is determined that the facts of the alleged violation are in dispute and must be further probed by the Student Conduct Officer; or
3. Refer the case to a disciplinary hearing by preparing a formal complaint based on the allegation along with a list of witnesses and documentary evidence supporting the allegations (see "Hearing" section).

When the facts are not in dispute, the Student Conduct Officer may administratively dispose of any violation.

1. In administratively disposing of a violation, the Student Conduct Officer may impose any disciplinary action authorized under the section entitled "Sanctions."
2. If a student accepts administrative disposition, he/she will sign a statement that he/she understands the nature of the charges and the penalty imposed. The statement also includes the student's acknowledgement that he/she waives the right to a hearing and the right to appeal.
3. The Student Conduct Officer will prepare a written summary of each administrative disposition of a violation and forward a copy to the student and to other appropriate administrative personnel.

If the facts of the alleged violation are in dispute and require additional probing, the Student Conduct Officer may elect to gather additional information concerning the allegation or to administratively dispose of the violation.

1. If the Student Conduct Officer elects to gather more information, follow-up with the accused student must occur within ten (10) calendar days of the student conference.
2. If a student disputes the facts of the charges, but accepts administrative disposition, he/she will sign a statement that he/she understands the nature of the charges and the penalty imposed. The statement also includes the student's acknowledgement that he/she waives the right to a hearing and the Student Conduct Officer will prepare a written summary of each administrative disposition of a violation and forward a copy to the student and to other appropriate administrative personnel.
3. A student may refuse administrative disposition of the alleged violation and on refusal is entitled to a hearing. If this is the case, the steps outlined in the following section, titled "Hearing," will be followed.
4. The Student Conduct Officer may refer the case directly to a disciplinary hearing. If this is the case, the steps outlined in the following section, titled "Hearing," will be followed.

Hearing

1. A written request for a hearing must be made to the Student Conduct Officer within five (5) calendar days following the administrative disposition.
2. A standing student discipline ad hoc committee exists at the College. The ad hoc committee for a particular hearing will be randomly selected by the Student Conduct Officer from a list of faculty, staff, administrators and students who have volunteered to serve on the committee.
 - a. The committee will consist of five (5) members (one full-time faculty member, one classified staff representative, one administrator, one student services representative and one student), unless the hearing is related to Title IX. In such cases, a student will not serve as a committee member. Another faculty, staff or administrator will be asked to serve on the committee in lieu of a student representative.
 - b. The list of names of the eligible persons will be developed at the beginning of each academic year and will be in effect for the duration of that year.
 - c. The student requesting the hearing may, if he/she believes one of the selectees will not fairly judge the merits of the alleged violation, request that another person be chosen from the list in that same category. One requested substitution, with written justification, is permitted.
 - d. The committee member who is selected for the hearing may request that another person be chosen from the same category of the list if he/she believes they cannot provide a fair judgment based on the merits of the alleged violation.
3. The student discipline ad hoc committee will elect a chairperson. The chairperson will set the date, time and place for the hearing.
 - a. The Student Conduct Officer will notify the student by certified letter or by hand delivery of information pertaining to the date, time and place of the hearing. The notice of the hearing will be sent within five (5) calendar days following confirmation of the hearing committee membership.
 - b. The hearing will take place within ten (10) calendar days of the establishment of the student discipline committee.

- c. The Student Conduct Officer will have discretion to alter the arrangements of the hearing for good cause.
4. The student discipline ad hoc committee will hold the hearing as scheduled and determine a ruling whether or not the student is present, provided the committee has confirmation that the student received actual notice of the date, time, and place of the hearing.
5. An accused student has the right to be accompanied by counsel, advisor, or attorney who may come from within or outside the College. Such counselor, advisor, or attorney must restrict his/her participation to advising the accused, and he/she may not participate in the actual proceedings of the hearing such as discussion or cross-examination of the witnesses.
6. The committee will presume a student innocent of the alleged violation until the facts and information presented support a decision to the contrary. A student will be found in violation when the weight of the evidence indicates that the student has violated this Code of Conduct. Committee members may freely question witnesses at any time. The committee will proceed as follows during the hearing:
 - a. The Student Conduct Officer reads the complaint.
 - b. The Student Conduct Officer presents the College's case. Any person giving testimony may be questioned, at the completion of the witness's testimony, by the student. The Student Conduct Officer has the right to follow up and/or recall witnesses as necessary.
 - c. The student presents his/her defense. The committee may not require the student to testify. Any person giving testimony on behalf of the student may also be questioned by the Student Conduct Officer.
 - d. The Student Conduct Officer and the student may present rebuttal evidence and argument.
 - e. In closed session, the committee will discuss the issue and vote whether or not there has been a violation of this Code of Conduct. If the majority of the committee (at least 3 out of 5 voting members) finds the student violated the Code of Conduct, the committee will select and impose an appropriate sanction from the list detailed below. Determination of the sanction will be met by approval of a simple majority.
 - f. The committee chairperson will complete and submit the Committee Findings Form to the Student Conduct Officer the same day as the conclusion of the hearing.
 - g. The Student Conduct Officer will inform the student of the committee's findings and sanctions, as noted on the Committee Findings Form. This notification will be sent via certified letter to the student and will be postmarked within five (5) calendar days of the conclusion of the hearing.

Hearing Records

1. All evidence will be offered to the committee during the hearing and made part of the hearing record. The hearing record will include:
 - a. A copy of the notice provided to the student;
 - b. All documentary and other evidence offered or admitted in evidence;
 - c. Written motions, pleas, and any other materials considered by the committee; and
 - d. The Committee Findings Form.
2. The hearing record will be forwarded to the Student Conduct Officer where it will be securely maintained.

Appeal

1. The president of the College will automatically review every penalty of expulsion.
2. A student is entitled to submit an appeal to the president of the College. To do so, a student must file a written request (via post marked certified letter) for appeal to the president within ten (10) calendar days from the date of the certified letter containing the Committee Findings Form. The written request for appeal must detail what specific issues are being appealed. The president maintains the right to refuse any request for appeal for insufficient cause.

3. If a notice of appeal is given, the Student Conduct Officer will send the hearing record to the president, within five (5) calendar days after the notice is given. The president will review the record and determine whether an in-person meeting is necessary to resolve the appeal.
4. If an in-person meeting is deemed necessary, the president will set the date, time and place for the appeal and the Student Conduct Officer will notify the student by certified letter or by hand delivery of information pertaining to the date, time, and place of the appeal. This notice will be sent as soon as possible and no later than ten (10) calendar days after the appeal request is received. The president will have the discretion to alter the arrangements of the hearing for good cause.
5. If an in-person meeting is not deemed necessary, the president will move forward with resolution of the appeal as detailed below.
6. After consideration of the appeal, the president will complete the appeal section on the Committee Findings Form. The president reserves the right to endorse, increase or lower the sanction that was assigned during the hearing.
7. The Student Conduct Officer will notify the student the result of the appeal via certified letter.
8. The president will take such action as determined to be appropriate at any time during the process, and all decisions made by the president are final.

Sanctions

Violations of the Code of Conduct can result in one or more of the following sanctions as deemed appropriate. The list of sanctions is not a progression.

1. Disciplinary Reprimand - a written reprimand from the Student Conduct Officer to the student on whom it is imposed. A disciplinary reprimand is recorded in the student's conduct file.
2. Disciplinary Probation - probation may be imposed for any length of time up to one calendar year and the student will automatically be removed from probation when the imposed period expires. Probation indicates that further violations may result in suspension.
3. Community Service – service-learning hours with an office or department on campus.
4. Character Development – required attendance at an educational workshop, research and writing assignments or participation in a mentorship program.
5. Restitution - reimbursement for damage to or misappropriation of funds or property. This may take the form of appropriate service or other compensation.
6. Fines – fines shall be no less than \$15 and no greater than \$250, depending on the severity of the infraction.
7. Social Restriction – restriction from attending recognized campus social events and being on campus for any purpose other than those directly related to class. Social restriction may require the student to check in and out with security upon arrival and departure from campus.
8. Suspension - exclusion from classes and other privileges or activities as set forth in the notice for a defined period of time.
9. Expulsion - permanent severance from the College. The conditions of readmission, if any, shall be stated in the order of expulsion.
10. Referral to relevant law enforcement authorities.
11. Other appropriate consequences as determined by the disciplinary authority. Failure to complete sanctions by the designated completion date represents a violation of the Code of Conduct (Failure to comply with a College Official). Those who do not meet the criteria of their sanctions will begin the judicial process again with a second charge.

Academic Honesty Policy

The LFCC experience depends on the absolute integrity of the work completed by each student, and it is imperative that students maintain a high standard of honor in their coursework. Academic honesty is essential to develop students' full intellectual potential and self-esteem.

Cheating, plagiarism, unauthorized collaboration, deliberate interference with the integrity of the work of others, fabrication or falsification of data, and other forms of academic dishonesty, including those not specifically identified below, are considered serious offenses for which disciplinary penalties can be imposed.

Cheating

Using materials not permitted by the instructor during exams, including stored information on electronic devices, copying answers from another student on exams or assignments, altering graded exams or assignments and submitting them for re-grading, submitting the same paper for two classes without the permission of both instructors.

Plagiarism

Copying ideas or taking exact wording from published sources without indicating - using quotation marks or other conventions - where the words came from, paraphrasing from sources without indicating where the information came from, copying another student and submitting the work as your own, or buying a paper or having someone write a paper for you and submitting it as your own.

Unauthorized Collaboration

Collaborating beyond the extent specifically approved by the instructor.

Facilitating Academic Dishonesty

Allowing another student to copy someone else's assignment or problem set that is supposed to be done individually, allowing another student to copy someone else's answers during an exam, or taking an exam or completing an assignment for another student.

Academic Dishonesty Procedures

Communication of the Charge of Academic Dishonesty to the Student by Faculty

1. If a faculty member suspects a student of academic dishonesty and has gained evidence through any combination of firsthand observation, written or electronic information, and/or other verifiable sources, the faculty member shall make every reasonable effort to discuss this suspicion and the reasons privately with the student involved. If more than one student is involved, the faculty member must discuss the situation with each student individually. "Reasonable effort to discuss" is defined as communication in person, by email, and/or by telephone.
2. After the discussion, if the faculty member remains convinced that the student is guilty of academic dishonesty, the faculty member may impose one or more of the following penalties depending on the faculty member's judgment as to the seriousness of the offense and consistent with the faculty member's syllabus:
 - a. Reprimand the student
 - b. Require that the work in question be done over
 - c. Assign a grade of zero on the work involved
 - d. Assign a grade of F for the course (An F earned because of academic dishonesty can only be altered through successful appeal of the charge (see procedures below). Withdrawing from a class will not alter a grade of F imposed for academic dishonesty.
 - e. Follow the guidelines set forth in the handbooks for individual cohort programs (e.g. the nursing program calls for dismissal from the program)
3. The faculty member must keep any documentation and evidence of the violation for reference in case of appeal.

4. The student charged with academic dishonesty should be allowed to continue class, in the event the student appeals the penalty that the faculty member imposes (unless the student is a risk to the safety and security of Lord Fairfax Community College).

Administrative Disposition of the Charge

1. The faculty member must complete an official incident report through See Something, Say Something, which will be automatically routed to the appropriate dean depending on campus/site where the student is enrolled.
2. The dean will inform the student in writing of the penalty imposed by the faculty member, that the student will be on disciplinary probation, and that future violations may result in more severe sanctions as described below. The dean will also inform the student of the date by which he/she must appeal the penalty.
3. As with other grade appeals, a student may appeal the charge by submitting a written request to the dean who contacted them about the violation within five (5) business days following the receipt of the dean's official notification of the charges and penalty. The dean's response to the appeal will be issued within 10 business days of receipt of the written appeal. The decision of the dean will be considered final and binding.
4. If the student already has such notice on file and neither case is reversed on appeal, the student may be suspended for one semester.
5. A third violation of academic honesty by a student may result in expulsion from the College. The Chief Academic Officer for the campus/site (CAO) will automatically review all penalties of expulsion.

Impact of Academic Dishonesty on Academic Honors

Students are advised that if they are found guilty of academic dishonesty they will not graduate with any type of academic honors awarded by the College.

Additional College Information

Service Animals Policy

LFCC is committed to providing equal access to students and employees with disabilities. As a result of this commitment and in accordance with the state and federal law and guidelines, LFCC allows the use of service animals for individuals with disabilities.

Campus Bookstore

Textbook purchases and rentals are handled in the campus bookstore. The bookstore will gladly accept all returns and exchanges for items accompanied by a receipt. A photo ID will be required for all returns and exchanges. For more information on the campus bookstore and its return policies, please visit:

<https://www.bkstr.com/lfccstore/home/en>

Financial Aid Campus Bookstore Purchases

Financial aid purchases are only possible with a valid student ID number and proper identification. All transactions require the original receipt. The College reserves the right to restrict or limit purchases of certain items or to restrict students from using financial aid in cases of suspected fraud or misuse of funds. All refunds of text materials must be done prior to dropping classes to ensure proper credit to the financial aid account. If you drop your classes first, you will not be able to return your books. If you modify any settings within the student information system within 24 hours prior to purchasing your books, to include adding or dropping classes, the bookstore is unable to utilize your financial aid.

Guests and Children on Campus Policy

All students are held responsible for the actions of any guests that join them on campus. In cases where children are the guests, the Children on Campus policy applies. Note: The policy defines children as those 13 years of age and younger. This policy reads: Young children needing supervision cannot be left unattended on LFCC

premises. The LFCC staff has no responsibility for protecting such children from the possibility of harming themselves or for insuring they do not disrupt scheduled operations when they are left unattended. Additionally, they cannot be taken into classrooms or laboratories. In short, responsibility for arranging proper care of young children needing supervision rests solely upon those persons responsible for them (e.g.: parents, guardians, brothers or sisters). Violators of this policy may be subject to appropriate administrative review/action. For more information on this policy, please go to www.lfcc.edu/policies.

Intellectual Property Policy

Lord Fairfax Community College (LFCC) adheres to the Virginia Community College System's (VCCS) policy on intellectual property. The VCCS Intellectual Property Policy defines and identifies intellectual property as including materials that may be patented or copyrightable, and includes, but is not necessarily limited to, written materials, courseware (lectures, printed materials, images and other items delivered in a course), visual and/or recorded material, and computer related materials. For more information on this policy, please go to www.lfcc.edu/policies.

Posting Policy

All fliers, posters and other materials designed to help advertise, promote, sell, rent or otherwise spread information about an event or service that is being sponsored by an LFCC student club and organization or a non LFCC entity must be approved by a full-time employee in the Student Life & Engagement Office or designee. All materials presenting information directly related to LFCC instruction and business can receive permission for posting materials with their department leaders. LFCC facilities may not be used for solicitation by individual contact to faculty, staff, or students by LFCC clubs and organizations, nonprofits, and for profit organizations. For more information on the posting policy, please go to www.lfcc.edu/policies.

Student Services

Educational Support

The College offers services and activities that complement academic programs to support the development of each students. The College maintains a staff of trained counselors and advisors who provide services to facilitate the academic, career and personal development of students. These services help students acquire skills and access resources necessary for academic success.

Academic Advising

LFCC believes that an appropriate and interactive academic advising process is essential to student success. The College is committed to providing students with the guidance necessary to make appropriate academic and career decisions. At LFCC, academic advising is a comprehensive process that utilizes both educational counseling and program planning.

Educational counseling and planning are provided by a staff of trained counselors and academic advisors to assist students in clarifying their life, educational and career goals.

Students who change their academic goals must meet with their assigned advisor to ensure appropriate program placement. For more information, see <http://lfcc.edu/advising>.

Academic Support Programs

The College offers individual and small group academic support to students. Tutoring services are available to students at no cost.

At the Middletown and Fauquier Campuses, students interested in receiving tutoring can come to the walk-in tutoring center at any time during the operating hours to get assistance in LFCC curriculum course. The walk-in tutoring center does not require any paperwork or appointments. Students simply attend on an as needed basis using the current semester schedule. The schedule can be accessed at www.lfcc.edu/tutor. Students can receive an unlimited amount of tutoring in the center.

At the Luray-Page Center, students can receive tutoring by submitting a tutor request form to the designated location.

The College also provides a variety of additional academic support resources online. For more information about LFCC's academic support resources, please see www.lfcc.edu/academicsupport.

Career Services

The College offers services and resources to assist students and graduates to carry out their career plans. Trained advisors offer career assessment and advising in the areas of job readiness, resume development and job search skills. See www.lfcc.edu/careers.

LFCC students have access to an online job database collegecentral.com/LFCC to search job listings, post an online resume, and seek out career information.

Disability Services

Lord Fairfax Community College is committed to providing equal opportunities for individuals to pursue their educational goals. In support of the Rehabilitation Act of 1973 and the Americans with Disabilities Act of 1990, 232 the College is dedicated to providing appropriate support services to ensure equal access for students with disabilities.

Students are encouraged to communicate their needs to the disability services provider located on their home campus by scheduling an appointment as early as possible, preferably several weeks prior the first day of class. During this meeting, students are encouraged to articulate their academic strengths and limitations and bring any documentation they feel supports their requests and academic needs. The disability services provider will determine reasonable and appropriate academic accommodations, in consultation with the student, based on information gathered during the meeting and supported within the documentation provided. Guidelines for supporting documentation is as follows:

1. A diagnostic statement identifying the disability and date of the most recent diagnostic evaluation. A description of the diagnostic tests, methods, and/or criteria used, which should follow adult norms.
2. A description of the current functional impact of the disability. There should be a description of how the individual's identified impairment substantially limits a major life activity. The description should include the current functional impact on physical (including mobility and dexterity), cognitive (including processing, attention, and communication), and/or behavioral abilities and should be based on specific results from the diagnostic procedures.
3. A statement indicating treatments, medications, and assistive devices / services in use including a history of previous academic adjustments and auxiliary aids and services and their impact. Recommendations regarding accommodations should be reasonable within the post-secondary academic setting.
4. The credentials of the professional(s), if not clear from the letterhead or other forms. Diagnosing professionals shall not be family members or others with a close personal relationship with the individual.
5. Documentation should be current, occurring within the last three (3) years.
6. IEPs may not be sufficient documentation to support the need for academic accommodations, especially if it lacks a diagnosis and/or testing results. Please review your IEP with disability services personnel to identify if additional documentation is required.

Lord Fairfax Community College does not provide personal aides to students; however, if documentation supports the need for an aide the student may provide their own.

For more information on the College's process for requesting academic accommodations, visit www.lfcc.edu/disability.

Great Expectations

The College offers a Great Expectations Program which helps Virginia's foster youth complete high school, gain access to a community college education and transition successfully from the foster care system to living

independently. Great Expectations provides a campus coach to support these students prepare for college and career readiness at LFCC, and provides a advising and educational support throughout the student's academic career.

Libraries and Learning Resources

The libraries of LFCC are open to the public without charge. The collection of approximately 65,000 catalogs items supports the College's academic programs and student interests. The collection consists of books, journals, video recordings, DVDs' compact discs, computer programs, newspapers, electronic books, and a host of other print-based materials. The library catalog is accessible through the College's Web site at <http://www.lfcc.edu>. In addition, materials move between the College's sites.

Materials not available in the libraries can be obtained through Interlibrary Loan from other libraries worldwide. The libraries participate in a statewide academic consortium called VIVA, providing access to electronic databases of all kinds, including over 10,000 full-text journals. Off-campus access to all of these resources is available to students, faculty and staff. The libraries also provide high- speed Internet access. The highly skilled library staff is dedicated to providing the highest quality service possible. They assist students in the use of the Internet and library research databases.

On the Fauquier Campus, the **Bob G. Sowder Library** is home to a growing collection of resources that support the College's programs and personal interests. Special facilities include 11 study rooms, nine for one or two persons and three large group study/library instruction rooms.

On the Middletown Campus, the **Paul Wolk Library** contains most of LFCC's collection of materials. The library houses the William B. Remington Archives Room.

TRIO Student Support Services

TRIO provides academic and personal support services to assist eligible students in successfully completing their programs of study and achieving their personal and career goals. The program offers a wide variety of services and activities, including academic advising, transfer counseling, individualized tutoring, financial aid assistance, and financial literacy education. Programs and services are individualized based on each student's specific needs.

Students may qualify for TRIO by demonstrating an academic need and by meeting one or more of the following criteria:

- First generation students: Neither of the student's parents graduated from college with a bachelor's degree
- Low-income students: Students who meet low-income guidelines
- Students with disabilities: Any student with a documented disability

Contact the TRIO program office at the Middletown Campus or visit www.lfcc.edu/trio for further information.

Veterans Services

Lord Fairfax Community College is proud to serve veterans and their families to ensure their academic needs are met. Veterans Services at LFCC serves all members of the armed services, all veterans, and all students using VA benefits by providing:

- Dedicated academic advising
- Assistance coordinating military-related federal and state educational benefits
- Help selecting classes and navigating LFCC policies
- Priority enrollment before other LFCC students
- Free on campus printing
- Transfer assistance
- Evaluation of military transcripts for college credit

Student Life & Engagement

Lord Fairfax Community College seeks to provide a diversified program of educational, cultural, recreational and social experiences responsive to the needs and desires of students. Although some major events have already been planned, the success of the program depends completely on you, the student. With your ideas and suggestions, the activities and programs can be exciting and enjoyable. Make the most of your LFCC experience and get involved!

Clubs and Organizations

Clubs and organizations are one of the major segments of the student activities program. All clubs and organizations are open to any student enrolled in at least one semester hour of course credit at LFCC. A 2.0 minimum semester grade point average (GPA) is required for continued participation. To see a list of active clubs and organizations at LFCC, please visit www.lfcc.edu/studentlife.

Student organizations are sanctioned by Lord Fairfax Community College as official College entities and are benefactors of the support of the College. Student organizations provide a variety of services, information, and resources. These organizations benefit all LFCC students. Student organizations may apply for funding through the Student Life & Engagement office. Any organizational funding must be used to enrich the lives of currently enrolled students in their organization or College-wide.

Establishing and Chartering Student Organizations and Clubs

Student organizations and clubs which will contribute to the educational, social, community and/or physical improvement of Lord Fairfax Community College can be established. Student organizations must be academic, educational and/or service-oriented and all full-time and part-time students are eligible to participate.

All organizations and clubs must fulfill the following requirements:

2. Include only enrolled LFCC students and LFCC faculty/staff members.
3. Have at least five students who are currently enrolled.
4. Have a full or part-time faculty/staff advisor who will participate actively.

All organizations and clubs must:

1. Submit a constitution which describes the purpose of the organization; any academic or special membership requirements, such as fees, equipment needed, etc.; types of activities planned; and any national or other affiliations. A sample will be provided as a guide.
2. Submit a Charter Request form which contains the day, time and place of meetings; a list of members; a list of officers; and the name and signature of the faculty/staff advisor.
3. Be approved by the Student Government Association (SGA), Student Leadership & Engagement Specialist, Associate Dean of Academic Support and Student Engagement, and the President of Lord Fairfax Community College.
4. Be in compliance with the LFCC nondiscrimination policy.

After these items have been reviewed and approved by the SGA, the information will be submitted to the Student Life & Engagement office. Once the SGA recommends approval of the petitioning club or organization, the documents will be forwarded to the Student Life & Engagement office. The final step in the process is the approval from the President of LFCC. Once the official recognition has been granted, the president will notify the Student Leadership & Engagement Specialist. The Student Life & Engagement office will then issue an official charter to the organization or club. This charter will be good for the calendar year, up to the beginning of the next fall semester. This charter will grant the privileges of using college facilities and the Lord Fairfax Community College name. Officers of all clubs and organizations must remain enrolled at LFCC and maintain at least a 2.0 GPA or higher. Some national and regional organizations may require a higher GPA to maintain involvement status.

FUNDING CLUB EVENTS

Student Life Fees (SLF)

The Student Life & Engagement budget, which is approved by the Lord Fairfax Community College Board prior to the beginning of each fiscal year, is largely funded from student life fees. These accounts are for purchases that directly impact students. These functions include campus, community and cultural events; social activities; club and organization support; and College-wide activities. Funds are also provided for additional Student Life & Engagement staffing needs.

Requesting Student Life Funds

The Student Leadership & Engagement Specialist and the Student Government Association will hear budget requests at each public SGA meeting. A representative of the club or organization should be present to field any questions and discuss the club's request. Each request will be decided by a majority vote of the SGA.

Allocations will be based upon the following criteria:

1. Relationship between the request and the club mission statement.
2. The request must meet at least four of the following six standards:
 - a. Programs sponsored by the club in the past 12 months were successful.
 - b. Program has an educational value.
 - c. Program encourages interaction among students.
 - d. Program supports student commitment and loyalty to the College community.
 - e. Program will be visible and accessible to all students.
 - f. Program is designed to promote a diversity of student interests.
 - g. The event itself is eligible for funding.
2. A club representative must be present at 70 percent of SGA meetings to request funding or have been approved to submit meeting minutes to the SGA president.
3. Research and planning has taken place to ensure feasibility of the event.
4. College policies will not be violated by the program or event.
5. Estimates of expenses and revenues are reasonable and have been researched.
6. Overall level of detail provided in the request and budget hearing.

Items not eligible for SLF funding:

- Charitable contributions (students may participate in charitable fundraising activities)
- Scholarships
- Compensation for services if the individual is a member of the club or organization
- Funds to provide financial support to off-campus organizations
- Products that violate College policies
- Anything that promotes or has the potential to promote violence, illegal activities, defamation of individuals or defamation of groups
- Anything that assists the promotion or opposition of a specific political party or candidate

Funding Allocation Appeal Procedure

An organization or club can appeal a funding allocation to the Associate Dean of Academic Support and Student Engagement. The appeal must be submitted in writing within five business days of the funding allocation decision the Associate Dean of Academic Support and Student Engagement may request that the SGA reconsider the request and any additional information provided, or may decide to grant the appeal decision without further SGA involvement. A decision of the appeal will be provided in writing to the organization or club within five business days.

Inactive Student Organizations and Clubs

Any recognized student club or organization that is allocated funds by the College shall meet three standards in order to receive College recognition and funds. A student organization or club shall meet at least once in both the fall and spring semesters and must submit the minutes of their meetings to their respective Student Leadership &

Engagement Specialist. The club or organization must assure that their president or designee regularly attends SGA meetings. If any club or organization misses more than 60 percent of the meetings during a particular semester, the SGA may recommend that the club or organization be declared inactive.

Student Government Association

An integral part of the Student Life & Engagement program at each campus is the Student Government Association (SGA). Each year, the student body elects a president, vice president, secretary, treasurer and senators. These officers are recognized as the official spokespersons for the student body and represent the interests of the students on a variety of College-wide committees. This group serves as the overseer for clubs and organizations. For more information, contact studentactivities@lfc.edu.

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