

2013-14

LFCC Catalog and Student Handbook



Middletown Campus

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Middletown, Virginia 22645
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540-868-7100 (Fax)

Fauquier Campus

6480 College Street
Warrenton, Virginia 20187
540-351-1505
540-351-1540 (Fax)

Luray-Page County Center

334 North Hawksbill Street
Luray, Virginia 22835
540-843-0722
540-843-0322 (Fax)

Toll Free: 1-800-906-LFCC

TTY 711 (*Virginia Relay*)

Web site: <http://www.lfcc.edu>

Lord Fairfax Community College is accredited by the Commission on Colleges of the Southern Association of Colleges and Schools to award associate degrees. Contact the Commission on Colleges 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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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 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.

With over sixty-five 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, Friday-only, weekend, and eight-week formats. Many courses 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. At every step of the way, we are here to help.

Through its three locations – the Fauquier and Middletown Campuses and the Luray-Page County Center – 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.

Congratulations on choosing LFCC. LFCC provides 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!

A handwritten signature in black ink, appearing to read 'C. Thompson-Stacy'.

Cheryl Thompson-Stacy
President

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Lord Fairfax Community College Administration

President	Dr. Cheryl Thompson-Stacy
Vice President of Academic and Student Affairs	Dr. Christopher Coutts
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Coordinator of Student Life	Ms. Brandy Boies
Coordinators of Business and Industry Training	Mr. Larry Baker; Mr. Bill Pence

SUMMER SEMESTER 2013

SESSIONS	10 WEEK	1st 5 WEEK	8 WEEK	2 nd 5 WEEK
Classes Begin	May 20	May 20	Jun 4	Jun 25
Last Date to Register Late	May 22	May 20	Jun 6	Jun 25
Holiday: Memorial Day (<i>COLLEGE CLOSED</i>)	May 27	May 27		
Last Date to Qualify for a Refund (DROP) or Change from Audit to Credit or Credit to Audit	May 30	May 24	Jun 12	Jul 1
Last Date to Withdraw Without Grade Penalty	Jul 2	Jun 10	Jul 8	Jul 16
Holiday: (<i>COLLEGE CLOSED</i>)	Jul 4		Jul 4	Jul 4
Classes End	Jul 29, except for Thurs classes, which meet Aug 1		Jul 29, except for Thurs classes, which meet Aug 1	Jul 29, except for Thurs classes, which meet Aug 1
Final Examinations	During last scheduled meeting	During last scheduled meeting	During last scheduled meeting	During last scheduled meeting

FALL SEMESTER 2013

SESSIONS	15 WEEK	12 WEEK	1st 8 WEEK	2 nd 8 WEEK
Classes Begin	Aug 19	Sep 10	Aug 19	Oct 15
Last Date to Register Late or Add	Aug 21	Sep 11	Aug 21	Oct 17
Holiday: (<i>COLLEGE CLOSED</i>)	Sep 2			
Last Date to Qualify for a Refund (DROP) or Change from Audit to Credit or Credit to Audit	Sep 5	Sep 23	Aug 27	Oct 23
Last Date to Withdraw Without Grade Penalty	Oct 28	Nov 6	Sep 23	Nov 20
No Classes Scheduled	Nov 26, 27	Nov 26, 27		Nov 26, 27
Holidays: (<i>COLLEGE CLOSED</i>)	Nov 28-Dec 1	Nov 28-Dec 1		Nov 28-Dec 1
Classes End	Dec 7	Dec 7	Oct 14	Dec 14
Final Examinations	Dec 9-14	Dec 9-14	During last scheduled meeting	During last scheduled meeting

SPRING SEMESTER 2014

SESSIONS	15 WEEK	12 WEEK	1st 8 WEEK	2nd 8 WEEK
Classes Begin	Jan 8	Jan 29	Jan 8	Mar 5
Last Date to Register Late or Add	Jan 10	Feb 1	Jan 10	Mar 7
Last Date to Qualify for a Refund (DROP) or Change from Audit to Credit or Credit to Audit	Jan 27	Feb 12	Jan 15	Mar 13
Spring Break	Mar 17-23	Mar 17-23		Mar 17-23
Holiday: COLLEGE CLOSED	Mar 21	Mar 21		Mar 21
Last Date Withdraw Without Grade Penalty	Mar 24	Mar 28	Feb 10	Apr 9
Classes End	Apr 29	Apr 29	Mar 4	May 6
Final Examinations	Apr 30*-May 7 *Exams start Apr 30 at 5 pm	Apr 30*-May 7 *Exams start Apr 30 at 5 pm	During last scheduled meeting	During last scheduled meeting

SUMMER SEMESTER 2014

SESSIONS	10 WEEK	1st 5 Week	1st 8 Week	2nd 5 Week	2nd 8 WEEK
Classes Begin	May 27	May 27	May 27	Jul 1	Jun 10
Last Date to Register Late or Add	May 29	May 28	May 29	Jul 2	Jun 12
Last Date to Qualify for a Refund (DROP) or Change from Audit to Credit or Credit to Audit	Jun 6	Jun 2	Jun 3	Jul 7	Jun 17
Holiday: July 4 COLLEGE CLOSED	Jul 4		Jul 4	Jul 4	Jul 4
Last Date to Withdraw Without Grade Penalty	Jul 7	Jun 16	Jun 30	Jul 21	Jul 14
Classes End	Aug 4 (instructor needs to make plan for missed Friday class)	Jun 30	Jul 21 (instructor needs to make plan for missed Friday class)	Aug 4 (instructor needs to make plan for missed Friday class)	Aug 4 (instructor needs to make plan for missed Friday class)
Final Examinations	During last scheduled meeting	During last scheduled meeting	During last scheduled meeting	During last scheduled meeting	During last scheduled meeting

The College

LFCC is located in an historic cultural area of Virginia. The College was named for Thomas, 6th Lord Fairfax 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 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 LFCC until June 2008. Cheryl Thompson-Stacy became the College's fourth president in January 2009. 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.

History

Founded in 1970, Lord Fairfax Community College (LFCC) is a comprehensive, multi-campus public institution of higher education. Through its three locations — the Fauquier and Middletown Campuses and the Luray-Page County Center — 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), religion, handicap, national origin or other non-merit factors.

Lord Fairfax Community College is accredited by the Commission on Colleges of the Southern Association of Colleges and Schools to award associate degrees. Contact the Commission on Colleges 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 a proud member of the American Association of Community Colleges (AACC). 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: <http://www.lfcc.edu/pie/>.

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 Commission on Colleges of the Southern Association

of Colleges and Schools to award associate degrees. Contact the Commission on Colleges at 1866 Southern Lane, Decatur, Georgia 30003-4097 or call 404-679-4500 for questions about the accreditation of Lord Fairfax Community College. An institutional member of the American Association of Community Colleges, 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 three locations—the Fauquier and Middletown Campuses and the Luray-Page County Center—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.

Driving Directions

*From the north: I-66 East, to Exit 28, U.S. Route 17 to Warrenton. Travel 9 miles to U.S. Route 15 South/Route 17/29 South Bypass. Follow U.S. Route 17 South approximately 4 miles to traffic signal, Lord Fairfax Drive. Turn left, travel 0.2 mile to College Street. Turn left into the campus.

*From the south: U.S. Route 17/29 North to Lord Fairfax Drive. Turn right at traffic signal. Travel 0.2 mile to College Street. Turn left into the campus.

*From the west: U.S. Route 211 East to Warrenton. Turn right at Business U.S. Route 17/29 and travel 2.6 miles to Lord Fairfax Drive (traffic signal at Route 17/29). Cross U.S. Route 17/29 and continue for 0.2 mile to College Street. Turn left into the campus.

*From the east: I-66 W/Front Royal, to Exit 43A, U.S. Route 29 South to U.S. Route 15/ 17/29 South. Travel 13.7 miles to Lord Fairfax Drive.

At traffic signal, turn left. Travel 0.2 mile to College Street. Turn left into campus.

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 original College building includes classrooms, laboratories, administrative and faculty offices, a business office, the William Moore Dietel Bookstore and the Fredy and Klara Kumuli Student Center.

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.

Driving Directions

*From the north: I-81 South to Exit 302 (Reliance Road), turn right at stop sign, travel 0.3 mile to Route 11. Turn right at stop sign. LFCC is 0.1 mile on right.

*From the south: I-81 North to Exit 302 (Reliance Road), turn left at stop sign, travel 0.5 mile to Route 11. Turn right at stop sign. LFCC is 0.1 mile on right.

*From the east: I-66 West to I-81 North to Exit 302 (Reliance Road), turn left at stop sign, travel 0.5 mile to Route 11. Turn right at stop sign. LFCC is 0.1 mile on right.

*From the west: I-81 North and follow the directions coming from the south.

Luray-Page County Center

The Luray-Page County Center is the newest LFCC location. On Jan. 9, 2006, the Center opened with 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.

Driving Directions

*From the north: U.S. Route 340 South to U.S. Route 211 West. Travel 0.4 mile to N. Hawksbill Street then turn left. Travel 0.1 mile to LFCC Luray-Page County Center on left.

*From the south: U.S. Route 340 North through the Town of Luray, turn left on Mechanic Street and travel two blocks to N. Hawksbill Street. Turn right and travel ½ block to LFCC Luray-Page County Center on right.

*From the east: U.S. Route 211 West to Luray. Cross U.S. Route 340 and travel 0.4 mile to N. Hawksbill Street on left. Turn left and travel 0.1 mile to LFCC Luray-Page County Center on left.

*From the west: U. S. Route 211 East to Luray. Turn right on N. Hawksbill Street, travel 0.1 mile to LFCC Luray-Page County Center on left.

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
- Student club sports
- Student Learning Services
- Student organizations
- 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:

- Administrative Support Technology
- Business
- Engineering, Construction and Industry
- Fine Arts
- Health Information Management
- Health Professions
- Paralegal

College Transfer-University Parallel Education

The college transfer-university parallel program focuses on college freshmen and sophomore courses in arts and sciences and preprofessional 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 five degrees and three specializations that lead to an associate of arts and sciences degree.

- Business Administration
- Education
- General Studies
- Liberal Arts
 - Communication Specialization
 - Fine Arts Specialization
 - Philosophy and Religion Specialization
- Science

Workforce Solutions and Continuing Education

LFCC's Office of Workforce Solutions and Continuing Education works with over 1000 businesses to provide professional development and workforce training. The Unit also provides "open enrollment" style courses to help individuals quickly

develop crucial, high-demand job skills and recognized industry credentials. Over half the programs offered through the Unit result in certifications and licensure. Programs are offered in many categories of training which include:

Business & Professional Development

- Customer Service
- Human Resources
- Leadership
- Quality / Lean
- Teacher Education

Computer & Technology Skills

- Just Getting Started
- Microsoft Office Applications
- Silver Series for 50+

Health

- Healthcare
- Medical Coding and Billing
- Cosmetology
- Personal Fitness
- Animal Health

Industry & Construction Trades

- Going Green
- Construction & Industrial Trades
- Continuing Education for relicensure
- Apprenticeship in Electricity, Plumbing & HVAC

Contract Training Programs

We realize that for our business clients, time is money. Our training programs make the best use of valuable hours spent away from the job. Our programs can be conducted at your site or another off site location. We realize that not everyone works 9 to 5. We can customize and provide training that meets your schedule. We are committed to help business and industry in our region achieve their goals. Call us today to arrange a FREE consultation at 540-868-7021.

Career Changer Programs

Career Changer programs are a series of accelerated training programs which earn you industry skills and credentials for jobs in high-demand industries. Whether you're unemployed, under-employed, or employed but looking for a new career opportunity,

we may have just what you are looking for.

Participants may qualify for grant assistance to pay for these training programs. Please call LFCC Workforce Solutions at 540-868-7021 for more information. Career Changer Programs offered include:

- Wastewater Treatment Operator
- Green HVAC Technician
- Career Switcher for Teacher Education
- Administrative Office Technology
- Electrical Groundsmen
- Industrial Maintenance Technician
- Certified Administrative Medical Office Assistant

Kids Camp

Every summer Workforce Solutions offers week long camps for area youth ranging from 7-15 years of age. Many programs package Science, Technology, Engineering and Math (S.T.E.M.) in fun and engaging topics for kids. Programs run weekly and may include:

- LEGO Films and Stop Action
- Make Your First Video Game
- Video Game Animation
- Camp Rock Star
- Creative Design and Robotics
- Ultimate Claymation and Stop Action
- Passion for Fashion

Workforce Solutions & Continuing Education Online Learning

Discover why millions of students are making the switch to online learning. With online courses, you can study at your convenience in your preferred learning environment. Our course and programs are highly engaging and relevant. Our instructors are interactive and support you through the curriculum. Choose from our growing catalog of instructor-led courses designed to teach you a new skill or refresh a current one or choose one of our career training programs geared to place you into a new career. Visit www.LFCCworkforce.com to see the list of offerings.

Career Coaching & Job Placement Services

If you have recently been displaced from your job or are a returning Veteran, you may access our career coaching and job placement services. We can help you with identifying careers that match your skills

and interests, assist you with career planning, help to identify courses that may prepare you for the workforce, interview skills, resume writing, and job placement. Call 540-868-7021 and ask to speak to our Career Coaches! Appointments are encouraged, walk-ins are welcomed.

Developmental Studies

Developmental courses help prepare individuals for admission to the occupational-technical program and to the college transfer-university parallel program at the College.

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
- ❖ 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 math. Students may be admitted to LFCC as a curricular or noncurricular student. The College evaluates special cases for acceptance.

All students must submit a completed application to the Admissions and Records Office using the online application available at <http://apply.vccs.edu> or the printed application available at the Admissions and Records Offices of the College. The applicant's Social Security number is required to receive select services from the College. High school and previous college/university transcripts are not required unless otherwise specified.

The College may require additional information for admission. Minors under the age of 18 are considered for admission with signed consent from a parent/legal guardian and approval from the minor's public school. Home-schooled minors and their parents should contact the Admissions and Records Office for admission requirements.

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 <http://www.lfcc.edu/college-policies>.

Readmission

Students 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 including Nursing, Dental Hygiene, Emergency Medical Services, Advanced EMT (AEMT) Emergency Medical Technician-Intermediate, Practical Nursing, Surgical Technology and Phlebotomy, Practical Nursing and Surgical Technology 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

(for determining in-state or out-of-state tuition)

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

1-800-906-5322, 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 need to complete placement testing or submit SAT or ACT scores to the Testing Center. Unless meeting an exception all new students are required to take placement tests in English and math. The 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 at www.act.org/compass/sample. Additional materials are available at www.testprepreview.com.

Placement testing at the Middletown and Fauquier Campuses is available on a first-come, first-serve basis when the College and library are open. Placement testing at the Luray-Page County Center is available by appointment only. 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

- Green Card

*A student who has SAT scores or ACT scores from testing within the last two years may be exempt from particular placement tests and may qualify to register for college-level courses. Students may request scores to be forwarded to the College for prerequisite evaluation (ACT School Code: 4377 and SAT School Code: 5381), or may bring score reports to one of the College's testing centers for prerequisite evaluation.

New Student Registration

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

- learn about College programs, services and resources
- discuss educational/career interests
- determine and plan curricular needs
- register for classes

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

Admission to Specific Degree or Certificate Program

A student must formally request admission to, and receive approval for, each program (curriculum) in which he or she plans to graduate. Advisors are available to assist students in selecting an appropriate curriculum for their academic or career interests. In addition to general admission requirements, specific requirements are prescribed for each curriculum of the College. These requirements are listed in the *Instructional Programs Information* section of the College catalog.

For admission to associate degree programs, a person must be a high school graduate, have a general education development (GED) certificate or complete an approved developmental studies program to satisfy prerequisites and be eligible. Students not initially meeting admission requirements for a specific program may qualify to be placed in another curriculum or be considered noncurricular until requirements are satisfied and they are granted admission to the curriculum of their choice.

Admission to Courses

Students may enroll in courses only when prerequisites for the courses are met. Note: Prerequisites are noted in the *Course Description* section.

Admission to Health Professions Programs

Students must apply for admission to health professions programs (practical nursing, nursing, surgical technology, dental hygiene, phlebotomy, emergency medical services, advanced emergency medical technician (AEMT) and emergency medical technician – intermediate, central services) in addition to applying for admission to the College. Admission requirements and application materials are available through the Division of Science and Health Professions. Specific requirements are in this catalog for each program.

Admission Priorities

When enrollment must be limited, first priority is 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. Such students must apply for admission to the program prior to registration or 120 days prior to the term. Selected programs may have specific earlier deadlines. In addition, residents of localities where the College has clinical-site or other agreements receive equal consideration.

Special Admission Enrollment

Dual Enrollment

Dual enrollment is restricted to high school juniors and seniors and home school students studying at the high school junior or senior levels. All students admitted under this section must demonstrate readiness for college, meet the applicable college placement requirements and address all other college admission criteria. Home school students must provide a copy of a home school agreement approved by the school district or a letter from the local school board. Documentation of parental permission is required for all dual enrollment students. Because enrolling freshman and sophomore students is considered exceptional, the college ready status of

each prospective freshman and sophomore student will be treated on a case-by-case basis. Formal approval by the college president is required. Students interested in dual enrollment should contact their high school guidance counselor. Please visit LFCC's homepage and click on Future Students for the procedures to enroll. For more information, please contact the High School Outreach 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/future-students/future-international-students/index.html>.

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). For information concerning the VA and educational assistance, contact the

Admissions and Records Office, <http://www.lfcc.edu/veterans> or <http://www.gibill.va.gov>. The Veteran Affairs Office at LFCC provides information and application for VA educational benefits to veterans, reservists and eligible dependents. The Office also certifies students with confirmed VA eligibility who notifies LFCC of their registration for classes at LFCC.

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 audit credit courses or enroll in noncredit courses. No tuition or fees apply except those for course materials, such as laboratory fees. Eligible Virginia senior citizens 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 \$15,000.

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 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.

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 or the Commission on Higher Education of the regional accreditation associations, such as 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>.

Portfolio Course Credit (PLACE)

It is the policy of Lord Fairfax Community College to maintain an organized, systematic method of evaluating portfolio credit (life experience). The method of evaluating portfolio credit will be consistent with standards established by the Southern Association of Colleges and Schools and the Virginia Community College System.

PLACE: (Prior Learning Activity for Credit Evaluation) allows students to develop portfolios based on their experiences to demonstrate learning equivalent to one or more college courses. If accepted by the faculty, the student is then awarded credit for the course or courses. PLACE is for adults who have gained college level learning through work, volunteer activities, participation in civic and community assignments, travel, independent study, and similar "life" experiences. Interested students should contact the Student Life Office to learn more about PLACE.

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.

Transfer Credit for Certified Administrative Professional

LFCC awards transfer credit to persons who have successfully completed the certified administrative professional examination (CAP), 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.

Service Members Opportunity College (SOC)

LFCC has been designated an institutional member of SOC, a group of colleges and universities providing voluntary postsecondary education to members of the military worldwide. LFCC recognizes the unique nature of the military lifestyle and eases the transfer of relevant course credits, providing flexible academic residency requirements and crediting learning from appropriate military training and experience as well as other nontraditional sources. Those interested should contact the Admissions and Records Office.

Credit by Examination (CBE)

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.

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 legally domiciled in Virginia for a period of at least one full year prior to the planned semester of enrollment at the College. 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 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 Assistant 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 and Records 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: <http://www.lfcc.edu>.

Tuition may be paid with cash, personal checks, money orders, MasterCard, American Express or Visa credit cards or FACTS interest-free payment plan. Online credit card payment using MasterCard, American Express or Visa is available. Tuition paid by check or credit card must 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.

Books and Materials

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

Auxiliary Fee

The College charges an auxiliary fee of \$20 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.

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 of \$2.15 per credit hour 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.

Technology Fee

A technology fee of \$7.50 per credit hour is charged to all students to support technology initiatives within the Commonwealth of Virginia. The technology fee is subject to change.

Additional Fees

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

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.

Administration and Collection Charges

Past due accounts are 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 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 complete an *LFCC Enrollment Request Form* and turn it in to the Admissions and Records Office or 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 form and see Admissions and Records 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 emergency refund policy that complies with state and federal regulations.

Attendance

Attendance regulations limit class absences. 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 BlackBoard 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. Lord Fairfax Community College does not discriminate on the basis of race, sex, color, national origin, religion, age, veteran status, political affiliation or disability in its programs or activities. For a complete list of financial aid available, see <http://www.lfcc.edu/finaid>.

How to Apply for Federal and 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 Jan. 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 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 satisfactory academic progress (SAP). Requirements to maintain SAP are available at <http://www.lfcc.edu/finaid>.

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. For full Satisfactory Academic Progress details, see <http://www.lfcc.edu/finaid>.

Financial Aid Repayment

The Financial Aid Office at LFCC is required by federal and state regulations to have a written policy for the refund and repayment of federal and state aid received by students who withdraw, drop out, are dismissed, or take a leave of absence prior to completing 60 percent of a payment period or term for which payment has been received. These policies are effective only if the student completely terminates enrollment or stops attending all their classes before completing more than 60 percent of the enrollment period. The Title IV financial aid and/or state award

programs must be recalculated in these situations.
See <http://www.lfcc.edu/finaid> for more detailed information.

Federal, State, Merit, Veteran Financial Aid Programs

Federal Financial Aid Programs

Federal Pell Grant
Federal Supplemental Educational Opportunity Grant (FSEOG)
Federal Work-Study (FWS)
Federal Direct Stafford Loan Program

State Financial Aid Programs

Commonwealth Award (COMA)
Part-time Tuition Assistance Program (PTAP)
Virginia Community College Systems Award
Virginia Guaranteed Assistance Program

Merit Based Programs of Assistance

College Board Scholarships
Cultural Diversity Scholarships
LFCC Career Pathways Scholarships
LFCC Educational Foundation Inc. Scholarships
LFCC Local Board Scholarship Program
Military Survivors and Dependents Program (MSDEP)
Principal's Scholarships

See <http://www.lfcc.edu/finaid> for the complete detailed list.

Veterans Educational Benefits

See <http://www.lfcc.edu/veterans>

Student Services

Educational Support

The College offers services and activities that complement academic programs to support the development of each student. 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 provide students with the guidance necessary to make appropriate academic and career decisions. At LFCC, academic advising is a comprehensive and interactive 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 should meet with an advisor or counselor to ensure appropriate curricular placement. For more information, see [LFCC.edu/advising](http://www.lfcc.edu/advising).

Libraries and Learning Resources

The libraries of LFCC are open to the public without charge. The collection of approximately 62,000 cataloged 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 8,000 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.

Academic Support Programs

The College offers individual and small group academic support to students. Tutoring services are available to students at no cost.

On the Middletown Campus, 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 located on the Internet at www.lfcc.edu/tutor. Students can receive an unlimited amount of tutoring in the center and will be required to sign in electronically upon arrival. The only subjects that tutoring is provide on a one-on-one basis are foreign languages and American sign language.

On the Luray-Page Center and Fauquier Campus, students can receive tutoring by submitting a tutor request form to the designated location.

The College also offers a variety of academic and financial workshops throughout the year. Designed to give students tools to help them succeed, these fifty-minute workshops will cover everything from financial aid to how to write an essay. No appointment or sign up is needed to attend. The schedule can be located on the Internet at www.lfcc.edu/workshops.

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, 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 to enrollment. During this meeting, we encourage students 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. For more information on the College's process for requesting academic accommodations, visit www.lfcc.edu/disability-services.

TRIO Student Support Services Program

TRIO provides academic and personal support services to eligible students to assist them 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, career counseling, tutoring, mentoring, transfer assistance and social/cultural activities—designed to meet the individual needs of each student. Students may qualify 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 physical, emotional or learning disability who requires academic assistance.

Contact the TRIO Program office at the Middletown Campus for further information.

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/careerservices.

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.

Academic Information

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, science and other professional programs that 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 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, a student must:

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 and complete required exit testing established by the College;
5. File an official application for graduation which may be waived in the case of the General Education Certificate; and
6. Resolve all financial obligations to the College and return all library and College materials.

Certificate Requirements

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

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. File an official application for graduation which may be waived in the case of the General Education Certificate; and
6. Resolve all financial obligations to the College and return all library and College materials.

Special Academic Policies

Student Development

All curricula placed students shall enroll in a College Success Skills class (SDV 100, 101, 108) 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.

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.

Transfer between Curricula

As students proceed in their studies, they may decide to change their program or curriculum. Students are encouraged to make an appointment with a counselor or advisor for assistance.

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 from the Admissions and Records Office.

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 June. 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)

Academic Apparel

All students participating in graduation exercises are required to obtain and wear appropriate academic apparel as determined by the College.

Classification of Students

Student classification categories:

- Curricular students: Students who have a high school diploma, GED, or its equivalent, or are otherwise determined qualified for admission are designated curricular students. 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 your enrollment (adds or drops) students may use the *Student Information System* accessed by logging into your 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. An enrollment request form requesting the withdrawal must be completed and signed by the student. To withdraw from a course, it is advisable that the student discuss their withdrawal with the faculty member teaching the course. In the event the faculty member is not available, an advisor can sign off on the form unless otherwise noted in the student's program (i.e. nursing). Students enrolled in online courses should communicate via email with their faculty member and attach a copy of that conversation to the withdrawal form. If a student chooses to withdraw from all courses, an advisor's signature is required. Students must not rely on a verbal statement as evidence of withdrawal. The withdrawal request becomes effective the date the form is received in the Admissions and Records Office and must be

processed before the published last date to withdraw from the course. 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.

An exception can be considered when the following two conditions exist:

- there are serious mitigating circumstances such as medical emergencies or other extreme conditions (as determined by the College)
- the student is passing at the time of the onset of the mitigating circumstances

The mitigating circumstances must be documented by the student and presented to an advisor with the request to withdraw. Requests for mitigating circumstances must be submitted prior to the close of business on the last day of classes. 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.*Financial aid recipients are strongly advised to meet with a financial aid officer prior to requesting a withdrawal to determine the impact this may have on future aid eligibility.

Dual enrolled students who encounter mitigating circumstances and need to withdraw should work with the director of guidance at their high school sign. The LFCC Director of High School Outreach's signature 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. The Admissions and Records Office provides course substitution forms.

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 credit, used for verifiable, unavoidable reasons.

I Incomplete

No grade point credit. The "I" grade is to be used only for verifiable unavoidable reasons that a student is unable to complete a course within the normal course time. To be eligible to receive an "I" grade, the student must (1) have satisfactorily completed more than 50% of the course requirements and (2) must request the faculty member to assign the "I" grade and indicate why it is warranted. The faculty member has the discretion to decide whether the "I" grade will be awarded. Since the "incomplete" extends enrollment in the course, requirements for satisfactory completion shall be established through consultation between the faculty member and the student. In assigning the "I" grade, the faculty member must complete documentation that (1) states the reason for assigning the grade; (2) specifies the work to be completed and indicates its percentage in relation to the total work of the course; (3) specifies the date by which the work must be completed; and (4) identifies the default grade (B, C, D, F, P, R, or U) based upon course work already completed. Completion dates may not be set beyond the subsequent semester (to include summer term) without written approval of the Chief Academic Officer of the campus. The student will be provided a copy of the documentation. College 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.

P Pass

No grade point credit. Applies only to Non-developmental studies courses. Pass grades carry academic credit but are not included within GPA calculations. A maximum of seven semester credit hours from courses for which the P grade has been awarded may be applied toward completion of a degree, diploma or certificate.

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 a Second Language (ESL) courses numbered 11–16.

U Unsatisfactory

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

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.

A 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.

(D Academic Renewal

(F Academic Renewal

No credit.

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.

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.

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. Address
3. Electronic mail address
4. Telephone listing
5. Major field of study
6. Dates of attendance
7. Grade level
8. Number of credit hours
9. Degrees, honors and awards received
10. The most recent previous educational agency or institution attended
11. Participation in officially recognized activities and sports
12. Weight and height of members of athletic teams
13. 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 officer 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.

Nondiscrimination Statement

Lord Fairfax Community College does not discriminate on the basis of race, sex, color, national origin, religion, age, veteran status, political affiliation or disability in its programs or activities. For more information, please contact: Karen Foreman, Human Resource Manager, 173 Skirmisher Lane, Middletown, VA 22645-1745 or kforeman@lfcc.edu.

Academic Honesty

The LFCC experience depends on the absolute integrity of the work completed by each student. Students maintain a high standard of honor in their course work. Academic honesty is essential to develop students' full intellectual potential and self-esteem. Academic dishonesty involves, but is not limited to, one of the following: giving or receiving, offering or soliciting unauthorized assistance on any exam or assignment; plagiarism; and collusion. Procedures in cases of academic dishonesty are outlined in the LFCC student handbook.

Student Conduct—Discipline

Each College student is considered a responsible adult who maintains appropriate standards of conduct. All students are expected to conduct themselves appropriately in class, at College-related events, when dealing with fellow students and staff, when using College equipment and resources and when online. Failure to meet standards of conduct acceptable to the College may result in disciplinary probation or dismissal, depending upon the nature of the offense. All students are required to familiarize themselves with the College's rules and regulations as

printed in the student handbook, and particularly with LFCC's *Code of Student Rights, Responsibilities and Conduct* section.

Disruptive Classroom Behavior

All students are expected to be in compliance with the College's *Code of Student Rights, Responsibilities and Conduct* section of the student handbook. This policy outlines misconduct that is subject to disciplinary action.

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. A student who has a concern is encouraged to attempt to resolve the complaint in an informal manner. A reasonable effort should be made 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 complain form. By doing so, the issue becomes a formal complaint.

Formal Complaint

The student must complete and submit a complaint form (available in the Student Services Office and electronically at the College's official website) within ten (10) business days of his/her initial attempt to resolve the matter. The College will neither entertain complaints that are not in writing or which are anonymous, nor will it consider complaints sent electronically or through facsimile transmission. Formal complaints will be logged and forwarded to the appropriate respondent for further action.

1. For academic matters, the formal complaint will be reviewed and addressed by the Dean of the division involved in the complaint. Complaints regarding student service issues, such as admissions and financial aid, will be reviewed and addressed by the Dean of Students at the

respective campus where the complaint was lodged. Complaints about a Dean or Associate Vice President should be made directly to the Vice President of Academic and Student Affairs.

2. Upon receiving the complaint form, the appropriate Dean will arrange a conference with the student to discuss the issue within ten (10) business days. After the conference, the Dean 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 Vice President of Academic and Student Affairs. The Vice President of Academic and Student Affairs will review the complaint form and any supporting documentation and render a decision, in writing, within five (5) business days. If the student is not satisfied with the Vice President's decision, he/she may request that the President review the findings.
4. The President maintains the right to refuse any request for appeal for insufficient cause. The decision of the President shall be final.

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 1.5 for or better shall be placed on suspension only after they have attempted 24 semester credits. The statement “Academic Suspension” shall be placed on the students’ permanent records. A student who has been informed of the academic suspension may submit an appeal in writing to the assistant registrar or registrar for reconsideration. Suspended students may be readmitted after the suspension period by submitting a written request for readmission. Students are placed on suspension only after they have attempted 24 semester credit hours. Suspended students may be reinstated at the conclusion of the suspension period by submitting an appeal to the registrar. Students who have been reinstated from academic suspension must achieve a 2.0 GPA for the semester of their reinstatement and must earn at least a 1.75 GPA in each subsequent semester of attendance. The statement “Subject to Dismissal” shall be placed on the students’ permanent records.

Students who have been reinstated from academic suspension will remain subject to dismissal until their cumulative GPA is raised to a minimum of 1.75. Reinstated students may be required to carry less than a normal course load the following semester and are required to consult with their 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 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 assistant registrar or registrar and 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. All other requests for a transcript must include the signature and student identification number/Social Security number of the student.

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.

General Education

General education encompasses the common knowledge, skills and attitudes required by each individual to be effective as a person, worker, consumer and citizen. Programs of study in transfer curricula and occupational technical programs are designed to promote the achievement of the following general education competencies established by the Virginia Community College System. Degree graduates will demonstrate the ability to:

Area 1: Communication

- 1.1 understand and interpret complex materials
- 1.2 assimilate, organize, develop, and present an idea formally and informally
- 1.3 use Standard English
- 1.4 use appropriate verbal and non-verbal responses in interpersonal relations and group discussions
- 1.5 use listening skills
- 1.6 recognize the role of culture in communication

Area 2: Critical Thinking

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

Area 3: Cultural and Social Understanding

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

- 3.5 recognize the interdependence of distinctive world-wide social, economic, geo-political, and cultural systems

Area 4: Information Literacy

- 4.1 determine the nature and extent of the information needed
- 4.2 access needed information effectively and efficiently
- 4.3 evaluate information and its sources critically and incorporate selected information into his or her knowledge base
- 4.4 use information effectively, individually or as a member of a group, to accomplish a specific purpose
- 4.5 understand many of the economic, legal, and social issues surrounding the use of information and access and use information ethically and legally

Area 5: Personal Development

- 5.1 develop and/or refine personal wellness goals
- 5.2 develop and/or enhance the knowledge, skills, and understanding to make informed academic, social, personal, career, and interpersonal decisions

Area 6: Quantitative Reasoning

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

Area 7: Scientific Reasoning

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

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 one-credit 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 (for a total of ten (10) credits) plus one honors seminar, 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 and the World Wide Web (Web) 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 and Web. Students enrolled in these courses use a Blackboard course management system account and student e-mail account provided by the VCCS to access the course materials and communicate with and send assignments to their instructors. 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 and Web 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 Blackboard course management system.

Compressed Video (Live Interactive Television)

A compressed video course is sometimes referred to as a *live interactive television 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 their where their instructor is facilitating the lesson. For example, the instructor may meet face-to-face with students at the Middletown Campus and televise

the live lecture 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 – TELETECHNET

LFCC's Fauquier and Middletown Campuses serve as hosts for Old Dominion University's (ODU) TELETECHNET program (TTN). The TTN program is an interactive distance education program that enables students throughout Virginia to earn undergraduate, masters, and a PhD from a fully accredited University without leaving their area of residence. ODU is accredited through the Southern Association of Colleges and Schools (SACS). ODU offers a traditional college degree in a distance setting. TELETECHNET students complete the first two years of college at the host site, LFCC, and then transfer to ODU to complete the remaining required coursework for the Bachelor degree. Courses are broadcast in live lecture format from the main campus in Norfolk through satellite technology to the LFCC campuses or as web based or video streaming format. ODU degrees are work-force based and select degrees are offered through distance learning. Students interested in taking courses or University admission should contact the Site Director for the Fauquier or Middletown campus. The site office for Middletown is located in the Corron Community Center and the Fauquier site office is located in Wolk Hall.

General Education Minimum Requirements for Associate Degrees in the VCCS

	AA	AS	AA&S	AAA/AAS
Communication	6	6	6	3
Humanities / Fine Arts	6	6	6	3
Foreign Language (Intermediate Level)	6	0	0	0
Social / Behavioral Sciences	9	9 ^(b)	9	3 ^(a)
Natural Sciences	7	7	7	0-3 ^(a)
Mathematics	6	6 ^(d)	6 ^(d)	0
Personal Development ^(e)	2	2	2	2
Other Requirements for Associate Degrees:				
Major field courses and electives (columns 1-3)	18-21	24-27	24-27	49-53 ^(f)
Career/technical courses (column 4)	—	—	—	—
Total for Degree ^(g)	60-63	60-63 ^(h)	60-63 ^(h)	65-69 ^(h)

Notes: The VCCS Policy Manual, Section 2-IV-C, defines general education within the VCCS. Sections 2.7.3, 3.4.10, and 3.5.1 of the Southern Association of Colleges and Schools (SACS) Principles of Accreditation specify general education requirements. Colleges must address all SACS requirements, the SCHEV Core Competencies, and the general education goal areas listed in this VCCS Policy Manual.

(a) Must include at least one course in English composition.

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

(c) While general education courses other than those designed for transfer may be used to meet portions of these requirements, SACS principles require that general education courses be general in nature and must not "...narrowly focus on those skills, techniques, and procedures peculiar to a particular occupation or profession."

(d) Only 3 semester hours of mathematics are required for the General Studies major.

(e) Personal development includes health, physical education, or recreation courses that promote physical and emotional wellbeing and student development courses. Must include at least one student development course.

(f) AAA/AAS degrees must contain a minimum of 15 semester hours of general education. Students should plan to take at least 30 hours in the major; the remaining hours will be appropriate to the major.

(g) All college-level course prerequisites must be included in the total credits required for each program.

(h) Credit range for engineering programs is 60-72 semester hour credits. Credit range for AAA/AAS programs is 65-69, including nursing. For other programs in the Health Technologies, the range is 65-72 semester hour credits.

**General Education Courses 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

History Electives:

HIS 111, 112, 121, 122

Humanities/Fine Arts Electives:

ART 100, 101, 102
ASL 201, 202
CST 130, 141
ENG (all 200-level literature courses)
Foreign Languages –All 200-level courses
HUM (all except 195, 295)
MUS 121, 122
PHI (all courses)
REL (all except 217)

Literature Electives:

ENG 241, 242, 243, 244, 251, 252, 276, 278, 279

Mathematics Electives:

MTH 151, 152, 163, 164, 173, 174, 240,
271, 272

Science with Laboratory Electives:

BIO 101, 102, 141, 142
CHM 101, 102, 111, 112
GOL 105, 106
NAS 125, 130
PHY 101, 102, 201, 202, 241, 242

Social/Behavioral Science Electives:

ECO 201, 202
GEO 210, 220
HIS 111, 112, 121, 122, 141, 142, 251, 252, 253,
254, 267, 269, 276, 279
PLS 135, 211, 212, 241, 242
PSY 200, 215, 216, 230, 235, 236, 245, 265, 270
SOC 200, 210, 215, 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
ART 100, 103, 114, 121, 122, 131, 132, 138, 153,
154, 235, 236, 241, 242, 243, 244, 271, 272, 283,
284
ASL 101, 102
BIO 150, 206
CHM 241, 242, 245, 246, 260, 261
CST 126, 130, 131, 132, 136, 141, 229
EDU 200, 254, 280
ENG (all remaining courses)
Foreign Languages (all 100-level courses)
HIS (all remaining courses)
ITE 115, 120
MUS 111, 112, 136, 137, 163, 164, 165, 185
PLS (all remaining courses)
REL 217
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, 131, 121, 122, 136, 137, 163, 164, 165, 185

Foreign Language Electives (6-8 credits):

SPA 101, 102, 201, 202

FRE 101, 102, 201, 202

GER 101, 102, 201, 202

Global Studies Electives (3 credits):

ART 103

ENG 251, 252, 244, 255

GEO 210, 220

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

HUM 100, 150

PLS 241, 242

REL 100, 230, 237

SOC 211, 212

History Electives (6 credits):

HIS 111, 112, 121, 122

Humanities Electives (6 credits):

ART 100, 101, 102

ASL 201, 202

CST 130, 141

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 except 217)

Literature Electives (3 credits):

ENG 241, 242, 243, 244, 251, 252, 276, 278, 279

Social Science Electives (3 credits):

ECO 201, 202

GEO 210, 220

HIS 111, 112, 121, 122, 141, 142, 251, 252, 253, 254, 267, 269, 276, 279

PLS 135, 211, 212, 241, 242,

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

SOC 200, 210, 215, 266, 268

Information Literacy (3 credits total)

ITE 115

Personal Development (2 credits total)

All HLT and PED courses (1 credit)

SDV 100 (1 credit)

Quantitative Reasoning (6 credits total)

Mathematics Electives (6 credits):

MTH 151, 152, 163, 164, 173, 174, 240, 271, 272

Scientific Reasoning (8 credits total)

Science with Laboratory Electives (8 credits):

BIO 101, 102, 141, 142

CHM 101, 102, 111, 112

GOL 105, 106

NAS 125, 130

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

Approved Transfer Electives (3 credits):

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

ACC 211, 212

ART 100, 103, 114, 121, 122, 131, 132, 138, 153, 154, 235, 236, 241, 242, 243, 244, 271, 272, 283, 284

ASL 101, 102

BIO 150, 206

CHM 241, 242, 245, 246, 260, 261

CST 126, 130, 131, 132, 136, 141, 229

EDU 200, 254, 280

ENG (all remaining courses)

Foreign Languages (all 100-level courses)

HIS (all remaining courses)

HUM (all remaining courses)

ITE 115, 120

MTH 275, 277, 285

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

PLS (all remaining courses)

REL 217

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.

General Engineering Technology Technical Electives by Specialization as of 3/22/2013

Note: Technical electives listed do not have to be taken in the semester listed but doing so typically keeps a student's program on track especially considering prerequisites. Since some technical electives are only offered in a specific semester keeping a program on track is very important. For example CIV 171 is only offered in the fall semesters and it is a prerequisite for CIV 172 which is only offered in the spring semesters. It is also important to understand that the technical electives listed are the **only approved technical electives**. Any other courses to be used as technical electives must be approved by program faculty and must have sufficient justification for approval.

Mechanical Engineering Technology:

Second Year, first semester, technical electives: MTH 271, MTH 173, CHM 111, CIV 171, ELE 133

Second Year, second semester, technical electives: MTH 272, ELE 134, CIV 172, ARC 240

Civil Engineering Technology:

Second Year, first semester, technical electives: MTH 271, MTH 173, CHM 111, ARC 222

Second Year, second semester, technical electives: MTH 272, IND 145

Computer Aided Drafting Engineering Technology:

First Year, second semester, technical electives: ELE 133, MTH 163

Second Year, first semester, technical electives: ARC 240, MTH 241

Industrial Electricity and Controls Engineering Technology:

Second Year, first semester, technical electives: ELE 239, MTH 163

Second Year, second semester, technical electives: ELE 240, MTH 241

Technical Operations Engineering Technology:

If they have employment related to their program students should check with their employer before selecting their technical electives. Otherwise students should work with program faculty 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, WEL, AIR, CHM, PHY, GEO, MTH, BIO

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

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Courses Requiring Reading Prerequisite

Many LFCC courses require an English or math placement. To determine whether placement applies to a specific course, see Course Descriptions beginning on page 141.

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 - Basic Computer Literacy 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, two retakes are allowed 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. They 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:

College Transfer Two-Year Degree Programs:

Associate of Arts and Sciences Degree in Business Administration

Associate of Arts and Sciences Degree in Education

Associate of Arts and Sciences Degree in General Studies

Associate of Arts and Sciences Degree in Liberal Arts

Associate of Arts and Sciences Degree in Liberal Arts: Communication Specialization

Associate of Arts and Sciences Degree in Liberal Arts: Fine Arts Specialization

Associate of Arts and Sciences Degree in Liberal Arts:
Philosophy and Religion Specialization
Associate of Arts and Sciences Degree in Science

Administrative Support Technology Degrees and Certificates

Associate of Applied Science Degree in
Administrative Support Technology
Associate of Applied Science Degree in
Administrative Support Technology:
Virtual Assistant Specialization
Associate of Applied Science Degree in Paralegal
Studies
Certificate in Office Legal Assistant/Paralegal Studies
Certificate in Office Systems Assistant
Career Studies Certificate: Information Processing
Technician

Business Degrees and Certificates

Associate of Arts and Sciences Degree in Business
Administration
Associate of Applied Science Degree in Accounting
Associate of Applied Science Degree in Management
Career Studies Certificate: Entrepreneurship
Career Studies Certificate: General Business
Career Studies Certificate: Sales Management and
Marketing
Career Studies Certificate: Small Business
Management
Career Studies Certificate: Supervision

Education Degrees and Certificates

Associate of Arts and Sciences Degree in Education
Associate of Applied Science Degree in Early
Childhood Education
Career Studies Certificate: Early Childhood Education

Engineering, Industrial and Trade Degrees and Certificates

Associate of Applied Science Degree in General
Engineering Technology/Mechanical Engineering
Technology
Associate of Applied Science Degree in General
Engineering Technology: Civil Engineering
Technology Specialization
Associate of Applied Science Degree in General
Engineering Technology: Computer-Aided
Drafting

Associate of Applied Science Degree in General
Engineering Technology: Industrial Electricity
and Controls Technology Specialization
Associate of Applied Science Degree in General
Engineering Technology: Technical Operations
Career Studies Certificate: Basic Electrical Technician
Career Studies Certificate: Drafting
Career Studies Certificate: Electrical Control
Technician Intermediate
Career Studies Certificate: HVAC
Career Studies Certificate: Industrial Design
Career Studies Certificate: Industrial Maintenance
Technician Basic
Career Studies Certificate: Industrial Maintenance
Technician Intermediate
Career Studies Certificate: Sustainability and Green

Fine Arts Degrees and Certificates

Associate of Arts and Sciences Degree in Liberal Arts:
Fine Arts Specialization
Career Studies Certificate: Fine Arts
Career Studies Certificate: Nature and Outdoor
Photography

Health Information Management

Associate of Applied Science Degree in Health
Information Management
Certificate in Medical Administrative
Assistant/Transcription
Certificate in Medical Billing/Coding
Career Studies Certificate: Hospital Facility Coding

Health Professions Degrees and Certificates

Associate of Applied Science in Emergency Medical
Services
Associate of Applied Science Degree in Nursing
Associate of Applied Science Degree in LPN
Transition
Associate of Applied Science Degree in Dental
Hygiene (VWCC)
Certificate in Health Science
Certificate in Practical Nursing
Certificate in Surgical Technology
Career Studies Certificate: Central Service
Technology
Career Studies Certificate: Advanced Emergency
Medical Technician (AEMT)
Career Studies Certificate: Emergency Medical
Technician-Intermediate

Career Studies Certificate: Home Health Technician
Career Studies Certificate: Personal Training and
Group Exercise Leadership
Career Studies Certificate: Phlebotomy

***Information Systems Technology Degrees
and Certificates***

Associate of Applied Science Degree in Information
Systems Technology
Career Studies Certificate: Cyber Security
Career Studies Certificate: Database Administration
Specialist
Career Studies Certificate: Information Technology
Foundations
Career Studies Certificate: Networking Engineering
Professional
Career Studies Certificate: Networking Specialist
Career Studies Certificate: Software Development
Career Studies Certificate: Web Applications
Development Professional
Career Studies Certificate: Web Design Specialist

Other Certificates

Certificate in Administration of Justice
Certificate in General Education
Career Studies Certificate: American Sign Language

*College Transfer
Two-Year Degree
Programs*

Associate of Arts and Sciences Degree in Business Administration

AREA: Business Administration

DEGREE: Associate of Arts and Sciences Degree

LENGTH: Four semesters (two-year) program

PURPOSE: There is great demand for qualified personnel in business administration to promote leadership and to facilitate economic growth in Virginia business and industry. The associate of arts and sciences degree curriculum in business administration is 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.

TRANSFER GUIDELINES: The associate of arts and sciences degrees (AA&S) offered by LFCC are designed to provide freshman and sophomore level course work toward the completion of a bachelor's degree. The AA&S degree programs require students to take essentially the same courses as required by their university/four-year college counterparts in the areas of English, health/physical education, humanities, mathematics, science and social science.

To help facilitate the transfer process, each state-supported college and most private colleges in Virginia produce a Virginia Community College Transfer Guide. These transfer guides provide specific information about the transferability of courses and/or programs to their respective institutions. Transfer guides can found at www.lfcc.edu/transfer. Students may also download many Virginia transfer guides online at the following address:
<http://www.myfuture.vccs.edu/transfer/>.

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 guides 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.

Course #	Title	Credits
First Semester		
ENG 111	College Composition I	3
HIS 111	History of World Civilization I (or HIS 121) ¹	3
MTH 163	Pre-Calculus I ⁵ (or MTH 271)	3
SDV 100	College Success Skills	1
	Science with laboratory ²	4
	Elective	3
	Total	17
Second Semester		
ENG 112	College Composition II	3
HIS 112	History of World Civilization II (or HIS 122) ¹	3
MTH 271	Applied Calculus I ⁵ (or MTH 272 or 240)	3
PED/HLT	Physical Education (or Health) ⁶ Science with laboratory ²	1 4
	Total	14
Third Semester		
ACC 211	Principles of Accounting I	3
CST 100/110	Principles of Public Speaking	3
ECO 201	Principles of Macroeconomics	3
ENG	Literature I ⁷ (ENG 241, 243 or 251)	3
	Approved Humanities Elective ³	3
	Total	15
Fourth Semester		
ACC 212	Principles of Accounting II	3
ECO 202	Principles of Microeconomics	3
ENG	Literature II ⁷ (ENG 242, 244 or 252)	3
	Approved Elective ⁴	3
	Elective	3
	Total	15
	Program Total	61

¹ A full-year sequence of History of World Civilization or U.S. History is required.

² A one-year sequence of biology, chemistry, geology or physics is recommended; however, depending on the requirements of the four-year college two one-semester courses in different sciences may be substituted with advisor approval.

³ Students may select humanities electives from the approved list.

⁴ ITE 115 will satisfy this requirement. Students are required to 1) complete a computer course such as ITE 115, or equivalent or 2) demonstrate proficiency in using a Windows-based operating system along with word processing, spreadsheet, database management, presentation and communication software by passing an LFCC computer competency exam. Students eligible for

Associate of Arts and Sciences Degree in Business Administration

option two may select any appropriate elective. Please consult with an advisor.

⁵Business administration students are advised to take MTH 240. Approved math sequences are MTH 163-271, MTH 271-272 or MTH 271-240.

⁶Students are encouraged to determine, with advisor help, transferability of health courses to specific four-year colleges.

⁷A one-year sequence of literature is required.

Associate of Arts and Sciences Degree in Education

AREA: Education

DEGREE: Associate of Arts and Sciences Degree

LENGTH: Four semesters (two-year) program

PURPOSE: With the shortage of teachers in Virginia in some endorsement areas, the demand is growing for qualified, licensed teachers. The associate of arts and sciences degree program in education has been 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.

TRANSFER GUIDELINES: The program sequence listed is most accurate for students pursuing an endorsement in elementary education, middle grades, or special education. However, it is only a guide and additional coursework may be required. The AA&S degree in education is appropriate for students seeking a secondary level endorsement as well. Requirements vary based on the endorsement area (subject/grade level) you plan to teach and which institution to which you choose to transfer. Seeking academic advising early with an advisor and the transfer institution is critical to plan a smooth transfer.

To help facilitate the transfer process, each state-supported college and most private colleges in Virginia produce a Virginia Community College Transfer Guide. These transfer guides provide specific information about the transferability of courses and/or programs to their respective institutions. Transfer guides can be found at www.lfcc.edu/transfer. Students may also download many Virginia transfer guides online at the following address:
<http://www.myfuture.vccs.edu/transfer/>.

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 guides 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.

Course#	Title	Credits
First Semester		
BIO 101	General Biology I	4
ENG 111	College Composition I	3
HIS	Approved History Elective ¹	3
MTH	Approved math Elective ²	3
ITE 115	Introduction to Computer Applications and Concepts	3
SDV 101/100	Orientation to the Education Professions	1
Total		17
Second Semester		
ENG 112	College Composition II	3
GEO 210	Cultural Geography	3
GOL	Approved GOL Elective ⁹	4
HIS	Approved History Elective ¹	3
MTH 240	Statistics I	3
Total		16
Third Semester		
ENG Lit	Literature Elective ³	3
EDU 200	Introduction to Teaching as a Profession ⁵	3
PLS 135	American National Politics	3
PED/ HLT	Physical Education or Health Elective ⁴	1
	Approved Humanities Elective ⁸	3-4
Total		13-14
Fourth Semester		
CST	Communication Elective ³	3
PSY 230	Developmental Psychology	3
ECO	Economics Elective ⁶	3
	Elective ⁷	3
	Approved Humanities Elective ⁸	3-4
Total		15-16
Program Total		61-63

¹Depending on the requirements of four-year institutions, two one-semester courses in different histories may be appropriate. Contact your advisor and four-year institution representative.

²Math elective should be selected based on the requirements of the transfer institution. Consult with your advisor and transfer institution representative.

³See the list of approved electives on page 40.

⁴Depending on the requirements of the transfer institutions, a specific Health course may be recommended. Consult with your advisor and transfer institution representative.

⁵This 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.

Associate of Arts and Sciences Degree in Education

⁶To be selected from the following: ECO 120, 201, or 202. Consult with an advisor and transfer institution representative.

⁷Electives should be selected based on requirements of the transfer institutions: EDU 254 is recommended for those pursuing an endorsement in Special Education; EDU 280 is also recommended for some transfer institutions. Consult with an advisor and transfer institution representative.

⁸Humanities electives should be selected based on the requirements of the transfer institutions. Consult with your advisor and transfer institution representative.

⁹To be selected from the following: GOL 105 or 106. Consult with your advisor and transfer institution representative.

Associate of Arts and Sciences Degree in General Studies

AREA: General Studies

DEGREE: Associate of Arts and Sciences Degree

LENGTH: Four semesters (two-year) program

PURPOSE: A significant number of college undergraduate students desire a more comprehensive two-year general degree program than the conventional curriculum. 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.

TRANSFER GUIDELINES: The associate of arts and sciences degrees (AA&S) offered by LFCC provide freshman and sophomore level course work toward the completion of a baccalaureate degree. The AA&S degree programs require students to take essentially the same courses as required by their university/four-year college counterparts in the areas of English, health/physical education, humanities, mathematics, science and social science.

To help facilitate the transfer process, each state-supported college and most private colleges in Virginia produce a Virginia Community College Transfer Guide. These transfer guides provide specific information about the transferability of courses and/or programs to their respective institutions. Transfer guides can be found at www.lfcc.edu/transfer. Students may also download many Virginia transfer guides online at the address:
<http://www.myfuture.vccs.edu/transfer/>.

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 guides 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.

	Course#	Title	Credits
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First Semester

	ENG 111	College Composition I	3
	HIS	History Elective ^{2,4}	3
	MTH	Mathematics Elective ^{1,2}	3
	SDV 100	College Success Skills	1
	ITE 115	Introduction to Computer Applications and Concepts	3
		Approved Transfer Elective ²	3
		Total	16

Second Semester

	ENG 112	College Composition II	3
		Social Science Elective ²	3
	MTH	Mathematics Elective ¹	3
		Approved Transfer Elective ²	3
		Approved Transfer Elective ²	3
		Total	15

Third Semester

	ENG	Literature Elective ²	3
		Social Science Elective ²	3
		Approved Transfer Elective ²	3
	PED/HLT	Physical Education or Health ²	1
		Science with Laboratory Elective ^{2,3}	4
		Total	14

Fourth Semester

	CST	Communication Elective ²	3
		Science with Laboratory Elective ²	4
		Humanities Elective ²	3
		Approved Transfer Elective ²	3
		Approved Transfer Elective ²	3
		Total	16

	Program Total
	61

¹Approved math electives are listed on page 40. Students should check with the institution to which they will be transferring in order to determine the most appropriate math courses to take at LFCC.

²See the list of approved electives on page 40.

³A 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.

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

Associate of Arts and Sciences Degree in Liberal Arts

AREA: Liberal Arts

DEGREE: Associate of Arts and Sciences Degree

LENGTH: Four semesters (two-year) program

PURPOSE: The associate of arts and sciences degree program in liberal arts is designed for students who plan to transfer to a four-year college or university 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 science, literature, music, philosophy, pre-law, psychology, religion, sociology or theatre arts.

TRANSFER GUIDELINES: The associate of arts and sciences degrees (AA&S) offered by LFCC are designed to provide freshman and sophomore level course work toward the completion of a baccalaureate degree. The AA&S degree programs require students to take essentially the same courses as required by their university/four-year college counterparts in the areas of English, health/physical education, humanities, mathematics, science and social science.

To help facilitate the transfer process, each state-supported college and most private colleges in Virginia produce a Virginia Community College Transfer Guide. These transfer guides provide specific information about the transferability of courses and/or programs to their respective institutions. Transfer guides can be found at www.lfcc.edu/transfer. Students may also download many Virginia transfer guides online at the following address:
<http://www.myfuture.vccs.edu/transfer/>.

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 guides 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.

Course#	Title	Credits
First Semester		
ENG 111	College Composition I	3
HIS 111/121	History of World Civilization I or United States History I	3
MTH	Mathematics Elective ^{1,3}	3
SDV 100	College Success Skills	1
ITE 115	Introduction to Computer Applications and Concepts	3
	Foreign Language Elective ³	3-4
	Total	16-17
Second Semester		
ENG 112	College Composition II	3
HIS 112/122	History of World Civilization II or United States History II	3
MTH	Mathematics Elective ^{1,3}	3
	Fine Arts or Humanities Elective ³	3
	Foreign Language Elective ³	3-4
	Total	15-16
Third Semester		
ENG	Literature Elective ³	3
	Social Science Elective ³	3
PED/HLT	Physical Education or Health ³	1
	Science with Laboratory Elective ^{2,3}	4
	Humanities Elective ³	3
	Total	14
Fourth Semester		
CST	Communications Elective ³	3
	Science with Laboratory Elective ^{2,3}	4
	Global Studies Elective ³	3
	Humanities Elective ³	3
	Approved Transfer Elective ³	3
	Total	16
Program Total		61-63

¹ Approved math electives are listed on page 41. Students should check with the institution to which they will be transferring in order to determine the most appropriate math courses to take at LFCC.

² 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.

³ See the list of approved electives on page 41.

Associate of Arts and Sciences Degree in Liberal Arts: Communication Specialization

AREA: Liberal Arts:
Communication Specialization

DEGREE: Associate of Arts and Sciences Degree

LENGTH: Four semesters (two-year) program

PURPOSE: The associate of arts and sciences degree program in communication is designed for students who plan to transfer to a four-year college or university to complete a baccalaureate degree program, usually the bachelor of arts degree in communication 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.

TRANSFER GUIDELINES: The associate of arts and sciences degrees (AA&S) offered by LFCC provide freshman and sophomore level course work toward the completion of a baccalaureate degree. The AA&S degree programs require students to take essentially the same courses as required by their university/four-year college counterparts in the areas of English, health/physical education, humanities, mathematics, science and social science.

To help facilitate the transfer process, each state-supported college and most private colleges in Virginia produce a Virginia Community College Transfer Guide. These transfer guides provide specific information about the transferability of courses and/or programs to their respective institutions. Transfer guides can be found at www.lfcc.edu/transfer. Students may also download many Virginia transfer guides online at the following address:
<http://www.myfuture.vccs.edu/transfer/>.

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 guides and college catalogs, exploring Guaranteed Admission 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.

Course#	Title	Credits
First Semester		
ENG 111	College Composition I	3
HIS 111/121	History of World Civilization I or U.S. History I	3
MTH	Math Elective ¹	3
SDV 100	College Success Skills	1
ENG 120	Survey of Mass Media or Communication Elective ²	3
	Foreign Language Elective ¹	3-4
	Total	16-17
Second Semester		
ENG 112	College Composition II	3
HIS 112/122	History of World Civilization II or U.S. History II	3
MTH	Math Elective	3
CST 100	Principles of Public Speaking	3
	Foreign Language Elective ¹	3-4
	Total	15-16
Third Semester		
ENG, CST	Communication Elective ¹	3
	Social Science Elective ¹	3
PED/HLT	Physical Education or Health Science with Lab Elective ¹	1 4
ITE 115	Introduction to Computer Application and Concepts	3
	Total	14
Fourth Semester		
ENG	Literature Elective ¹	3
	Science with Lab Elective ¹	4
	Global Studies Elective ¹	3
ENG, CST	Communication Elective ²	3
ENG, CST	Communication Elective ²	3
	Total	16
	Program Total	61-63

¹ See the Approved Electives for the Liberal Arts Degree listed on page 41.

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

Associate of Arts and Sciences Degree in Liberal Arts: Fine Arts Specialization

AREA: Liberal Arts:
Fine Arts Specialization

DEGREE: Associate of Arts and Sciences Degree

LENGTH: Four semesters (two-year) program

PURPOSE: The associate of arts and sciences degree in liberal arts with a fine arts specialization is designed for students who plan to transfer to a four-year college or university 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.

TRANSFER GUIDELINES: The associate of arts and sciences degrees (AA&S) offered by LFCC provide freshman and sophomore level course work toward the completion of a baccalaureate degree. The AA&S degree programs require students to take essentially the same courses as required by their university/four-year college counterparts in the areas of English, health/physical education, humanities, mathematics, science and social science.

In addition to required course work, students seeking admission into a fine arts program prepare a portfolio of their work to showcase their artistic skills.

To help facilitate the transfer process, each state-supported college and most private colleges in Virginia produce a Virginia Community College Transfer Guide. These transfer guides provide specific information about the transferability of courses and/or programs to their respective institutions. Transfer guides can be found at www.lfcc.edu/transfer. Students may also download many Virginia transfer guides online at the following address:
<http://www.myfuture.vccs.edu/transfer/>.

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 guides and college catalogs, exploring Guaranteed Admission 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.

Course#	Title	Credits
First Semester		
ENG 111	College Composition I	3
HIS 111	History of World Civilization I	3
SDV 101/100	Orientation to the Visual Arts	1
ITE 115	Introduction to Computer Applications and Concepts	3
	Foreign Language Elective ¹	3-4
ART 121	Drawing I	3
	Total	16-17
Second Semester		
ENG 112	College Composition II	3
HIS 112	History of World Civilization II	3
	Foreign Language Elective ¹	3-4
ART 122	Drawing II	3
	Total	12-13
Third Semester		
CST	Communication Elective ²	3
MTH	Math Elective ¹	3
	Social Science Elective ¹	3
	Science with Lab Elective ¹	4
ART 131	Fundamentals of Design (with lab)	4
	Total	17
Fourth Semester		
PED/HLT	Physical Education or Health	1
	Science with Lab Elective ¹	4
MTH	Math Elective ¹	3
ART 132	Fundamentals of Design II (with lab)	4
ART 287	Portfolio and Resume Preparation	1
ART	Art Elective ²	3
	Total	16
	Program Total	61-63

¹ See the Approved Electives for the Liberal Arts Degree listed on page 41.

²The following courses may be used as art electives: ART 111, ART 125, ART 153, ART 231, ART 243, ART 283 ART 284,

Associate of Arts and Sciences Degree in Liberal Arts: Philosophy and Religion Specialization

AREA: Liberal Arts:
Philosophy and Religion Specialization

DEGREE: Associate of Arts and Sciences Degree

LENGTH: Four semesters (two-year) program

PURPOSE: The associate of arts and sciences degree in philosophy and religion is designed for students who plan to transfer to a four-year college, a university or a seminary for advanced studies. Philosophy and religion offers an excellent foundation as either a major (or a minor) concentration supporting a wide diversity of life career fields including: ethics, general philosophy, liberal studies, pre-theology and religious studies.

TRANSFER GUIDELINES: The associate of arts and sciences degrees (AA&S) offered by LFCC provide freshman and sophomore level course work toward the completion of a baccalaureate degree. The AA&S degree programs require students to take essentially the same courses as required by their university/four-year college counterparts in the areas of English, health/physical education, humanities, mathematics, science and social science.

To help facilitate the transfer process each state-supported college and most private colleges in Virginia produce a Virginia Community College Transfer Guide. These transfer guides provide specific information about the transferability of courses and/or programs to their respective institutions. Transfer guides can be obtained directly from the college of interest or can be referenced in the Office of Student Services on both the Fauquier and Middletown Campuses. Students may also download many Virginia transfer guides online at the following address:
<http://www.myfuture.vccs.edu/transfer/>.

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 programs of study, examining available transfer guides 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.

Course#	Title	Credits
First Semester		
ENG 111	College Composition I	3
HIS 111	History of World Civilization I	3
SDV 100	College Success Skills	1
ITE 115	Intro to Computer Applications and Concepts	3
	Foreign Language Elective ¹	3-4
PHI 112	Logic II	3
	Total	16-17
Second Semester		
ENG 112	College Composition II	3
HIS 112	History of World Civilization II	3
	Foreign Language Elective ¹	3-4
PHI 100	Intro to Philosophy ²	3
CST	Communication Elective ¹	3
	Total	15-16
Third Semester		
	Science with Lab Elective ¹	4
MTH	Math Elective ¹	3
	Social Science Elective ¹	3
PHI 200	History of Western Philosophy ³	3
PHI 220	Ethics	3
	Total	16
Fourth Semester		
PED/HLT	Physical Education or Health	1
	Science with Lab Elective ¹	4
MTH	Math Elective ¹	3
ENG	Literature Elective ¹	3
PHI/REL	Philosophy or Religion Elective ⁴	3
	Total	14
	Program Total	61-63

¹ See the list of Approved Electives for the Liberal Arts Degree on page 41.

² Students wishing to focus on religion may take REL 100, Introduction to the Study of Religion, instead.

³ Students wishing to focus on religion may take REL 230, World Religions, instead.

⁴ Any course with the prefix PHI or REL may be used as a philosophy or religion elective.

Associate of Arts and Sciences Degree in Science

AREA: Science

DEGREE: Associate of Arts and Sciences Degree

LENGTH:

Four semesters (two-year) program

PURPOSE:

With the tremendous emphasis on scientific discoveries and technological developments in today's society, great demand exists for scientists and scientifically-oriented persons in business, government, industry, and the medical and health professions. The associate of arts and sciences degree program in science is designed for persons interested in preprofessional scientific programs who plan to transfer to a four-year college or university to complete a baccalaureate or higher degree program with a 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, occupational therapy, nuclear science, nursing, pre-pharmacy, physical therapy, physics, respiratory therapy, science education, veterinary medicine, wildlife biology or zoology.

TRANSFER GUIDELINES:

The associate of arts and sciences degrees (AA&S) offered by LFCC provide freshman and sophomore level course work toward the completion of a baccalaureate degree. The AA&S degree programs require students to take essentially the same courses as required by their university/four-year college counterparts in the areas of English, health/physical education, humanities, mathematics, science and social science.

To help facilitate the transfer process each state-supported college and most private colleges in Virginia produce a Virginia Community College Transfer Guide. These transfer guides provide specific information about the transferability of courses and/or programs to their respective institutions. Transfer guides can be found at www.lfcc.edu/transfer. Students may also download many Virginia transfer guides online at the following address:
<http://www.myfuture.vccs.edu/transfer/>.

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 programs of study, examining available transfer guides and college catalogs, exploring Guaranteed Admission 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. 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.

Course #	Title	Credits
First Semester		
ENG 111	College Composition I	3
HIS 111	History of World Civilization I or U.S. History I	3
ITE 115	Introduction to Computer Application and Concepts	3
MTH	Math 163, 173, 240 or 271 ¹	3
SDV 100	College Success Skills	1
	Science with Laboratory ²	4
	Total	17
Second Semester		
ENG 112	College Composition II	3
HIS 112	History of World Civilization II or U. S. History II	3
MTH	Math 164, 174, 271 or 272 ¹	3
	Science with Laboratory ²	4
	Humanities/Fine Arts Elective ⁴	3
	Total	16
Third Semester		
ENG	Literature Elective ⁴	3
	Social Science Elective ⁴	3
PED/HLT	Physical Education or Health ³	1
	Approved Science, Math or Computer Science Elective ⁵	3-5
	Science with Lab Elective ²	4
	Total	14-16
Fourth Semester		
CST	Communication Elective ⁴	3
	Science with Lab Elective ²	4
	Approved Science, Math or Computer Science Elective ⁵	4-5
	Approved Transfer Elective ⁴	3
	Total	14-15
	Program Total	61-64

Associate of Arts and Sciences Degree in Science

¹Student should check with the institution to which they will be transferring to determine the most appropriate math courses to take at LFCC.

²A full-year sequence of science with lab is required each year, one of which must be chemistry or physics.

³Students are encouraged to determine, with advisor help, transferability of health/physical education courses to specific four-year institutions.

⁴See the list of electives on page 40.

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

Administrative Support Technology Degrees and Certificates

All information subject to change. For the latest course information, access MY LFCC online at <http://www.lfcc.edu>. Information contained in this publication is current as of March 29, 2013.

Lord Fairfax Community College • <http://www.lfcc.edu>

Associate of Applied Science Degree in Administrative Support Technology

AREA: Administrative Support Technology

DEGREE: Associate of Applied Science Degree

LENGTH: Four semesters (two-year) program

PURPOSE: With the dynamic changes within-business, industry and government in Virginia, there is growing demand for administrative support personnel who possess high-level technical, interpersonal and leadership skills. The associate of applied science degree curriculum in administrative support technology is designed to prepare individuals for full-time employment immediately upon completion of the community college program. This program is beneficial for individuals who are seeking first-time employment, career advancement, promotion or MOS and CAP certifications.

OCCUPATIONAL OBJECTIVES: administrative support specialist, customer service representative, executive assistant, marketing assistant or office manager

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

PROGRAM REQUIREMENTS. The two-year curriculum in administrative support technology includes instruction in administrative support technology, general education, computer skills and electives. Students are advised 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 in administrative support technology.

ADMISSION/COURSE PREREQUISITE REQUIREMENTS:

- AST courses in this program require placement into ENF2 or higher or successful completion of ENF1. Other courses may require placement readiness for ENG 111.
- Students without keyboarding skill (or limited skill below 25 words per minute) must complete the prerequisite course AST 101 Keyboarding I prior to enrolling in AST 102 or AST 141.

TEACHER CERTIFICATION/BUSINESS EDUCATION TRANSFER INFORMATION

Students planning to transfer into a business education specialization are encouraged to enroll in MTH 151 and MTH 152. In addition, these courses may be required: AST 102 Keyboarding II; AST 141 Word Processing I; AST 243

Office Administration or AST 135 Simulation in Office Procedures; and AST 236 Specialized Software Applications or AST 232 Microcomputer Office Applications. Contact the program advisor for additional information regarding secondary teacher education transfer requirements.

Course#	Title	Credits
First Semester		
AST 102/141	Keyboarding II ¹ or Word Processing I ¹	3
AST 107	Editing and Proofreading Skills ¹	3
ENG 111	College Composition I	3
ITE 115	Intro to Computer Apps & Concepts	3
MTH 120	Introduction to Mathematics	3
SDV 101/100	Orientation to Virtual Assistant or College Success Skills	1
Total		16
Second Semester		
AST 142	Word Processing II ²	3
CST 100/110	Principles of Public Speaking	3
ENG 112	College Composition II	3
PED/HLT	Physical Education or Health	1
	Approved Humanities Elective ³	3
	Approved Social Science Elective ³	3
Total		16
Third Semester		
ACC 211	Principles of Accounting I	3
AST 205	Business Communications ²	3
AST 234	Records and Database Management ²	3
AST 243	Office Administration I ²	3
BUS 100	Introduction to Business	3
BUS 241/242	Business Law I or Business Law II	3
Total		18
Fourth Semester		
AST 206	Professional Development ⁶	3
AST 230	Introduction to Office Technology ²	3
AST 244	Office Administration II ⁴	3
BUS 200	Principles of Management	3
	Approved AST Elective ⁵	3
Total		15
Program Total		65

¹ Students must have keyboarding skills. Bridge courses of AST 101 or AST 102 may be required or instructor approval.

² Prerequisite: AST 102 or AST 141 or instructor approval

³ Students may select social science and humanities electives from approved list on page 40.

⁴ Prerequisite: AST 243 or instructor approval

⁵ Approved AST electives include: AST 236, AST 253, AST 257, AST 260

⁶ Capstone Course: Internship project required

Associate of Applied Science Degree in Administrative Support Technology: Virtual Assistant Specialization

AREA: Administrative Support Technology:
Virtual Assistant Specialization

DEGREE: Associate of Applied Science Degree

LENGTH: Four semesters (two-year) program

PURPOSE: There is an increasing demand for the virtual assistant, who is generally a self-employed office professional supporting multiple clients in a variety of industries and providing administrative, creative, managerial, technical, office and/or personal administrative support services from a remote location, usually from a home office. The Associate of Applied Science Degree curriculum in Administrative Support Technology with the Virtual Assistant Specialization is designed to prepare individuals for employment immediately upon completion of the community college program. This program is beneficial to individuals who are seeking a career switch, career advancement, or national certifications such as Microsoft Office Specialist (MOS) and Certified Virtual Assistant (CVA),

OCCUPATIONAL OBJECTIVES: virtual assistant, Virtual office specialist

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

PROGRAM REQUIREMENTS. The two-year curriculum in Administrative Support Technology with the Virtual Assistant Specialization includes instruction in office administration, virtual technology equipment and software, print and online publishing and general education. Students are advised to consult with an 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 Administrative Support Technology with a Virtual Assistant Specialization.

ADMISSION/COURSE PREREQUISITE REQUIREMENTS:

- AST courses in the program require placement in ENF2 or higher or successful completion of ENF1. Other courses may require placement readiness for ENG 111.
- Students without keyboarding skill (or limited skill below 25 words per minute) must complete the prerequisite course AST 101 Keyboarding I, prior to enrolling in AST 102 or AST 141.

<u>Course#</u>	<u>Title</u>	<u>Credits</u>
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First Semester

AST	102/141 Keyboarding II ¹ or Word Processing I ¹	3
AST	107 Editing and Proofreading Skills ¹	3
ENG	111 College Composition I	3
ITE	115 Intro to Computer Apps & Concepts	3
MTH	120 Introduction to Mathematics	3
SDV	101 Orientation to Virtual Assistant	1
	Total	16

Second Semester

AST	142 Word Processing II ²	3
AST	230 Introduction to Office Technology ²	3
AST	234 Records and Database Management ²	3
CST	100/110 Principles of Public Speaking	3
ENG	115 Technical Writing	3
	Approved Social Science Elective ⁵	3
	Total	18

Third Semester

ACC	211 Principles of Account I	3
AST	243 Office Administration I ²	3
AST	253 Advanced Desktop Publishing I ²	3
BUS	241/242 Business Law I or Business Law II	3
PED/HLT	Physical Education or Health	1
	Approved AST Elective ⁶	3
	Total	16

Fourth Semester

AST	206 Professional Development ⁷	3
AST	244 Office Administration II ³	3
AST	254 Advanced Desktop Publishing II ⁴	3
AST	260 Presentation Software ²	3
	Approved Humanities Elective ⁵	3
	Total	15

Program Total	65
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¹ Students must have keyboarding skills. Bridge courses of AST 101 or AST 102 may be required to gain keyboarding skill levels required.

² Prerequisite: AST 102 or AST 141 or instructor approval

³ Prerequisite: AST 243 or instructor approval

⁴ Prerequisite: AST 253

⁵ Students may select social science and humanities electives from approved list on page 40.

⁶ Approved AST electives: AST 236, AST 257, BUS 165

⁷ Capstone Course: Internship project required

Associate of Applied Science Degree in Paralegal Studies

AREA: Paralegal Studies

DEGREE: Associate of Applied Science Degree

LENGTH: Five semesters (two-year program)

PURPOSE: The curriculum is designed to provide an individual with a sufficient level of knowledge, understanding, and proficiency to perform the tasks in meeting a client's needs which can be performed by a trained, non-lawyer assistant working under the direction and supervision of a lawyer. A legal assistant will have a basic understanding of the general processes of American law, and will have the knowledge and proficiency to perform specific tasks under the supervision of a lawyer in the fields of civil and criminal law. The occupational objectives include employment in public and private (individual and corporate) law-related activities, organizations, and agencies.

OCCUPATIONAL OBJECTIVES: Legal assistant, Paralegal, Legal Research Assistant

PROGRAM REQUIREMENTS. The two-year curriculum Paralegal Studies includes instruction in real estate law, family law, research and writing, and general education. Students are advised to consult with an advisor in planning their program and selecting electives. Upon satisfactory completion of the program, the graduate will be awarded the Associate of Applied Science Degree in Paralegal Studies.

ADMISSION/COURSE PREREQUISITE REQUIREMENTS:

- Courses in this program require placement tests indicating readiness to enroll in ENG 111.
- Students are willing to enroll in day and evening on-campus classes.
- Students enroll in required LGL prefix classes offered each semester (courses are offered once a year).
- Students without computer or keyboarding skills (below 25 words per minute) must complete the prerequisite course AST 101 Keyboarding I prior to enrolling in AST 102 or AST 141.

Course#	Title	Credits
First Semester (Fall)		
AST 102	Keyboarding II ² or AST 141 Word Processing I ²	3
LGL 115	Real Estate Law for Legal Assistants	3
LGL 117	Family Law	3
LGL 125	Legal Research	3
LGL 126	Legal Writing	3
PED/HLT	Physical education or Health	1
SDV 100	College Success Skills ¹	1
	Total	17
Second Semester (Spring)		
AST 142	Word Processing II ³	3
ENG 111	College Composition I	3
HIS 121	United States History I	3
LGL 130	Law Office Administration and Management	3
LGL 216	Trial Preparation & Discovery Practice	3
	Total	15
Third Semester (Fall)		
LGL 218	Criminal Law	3
LGL 235	Legal Aspects of Business Organizations	3
LGL	Elective 200 Level ⁵	3
LGL	Elective 200 Level ⁵	3
MTH 151	Mathematics for the Liberal Arts I	3
SOC 200	Principles of Sociology	3
	Total	18
Fourth Semester (Spring)		
AST 206	Professional Development ⁶	3
AST 265	Legal Office Procedures I or AST 243 Office Administration I ³ or AST 244 Office Administration II ³	3
HUM	Approved Elective ⁴	3
LGL	Elective 200 Level ⁵	3
LGL	Elective 200 Level ⁵	3
	Total	15
	Program Total	65

¹Transfer Students: See Advisor for approved substitution

²Prerequisite: AST 101 or AST 102. Readiness to enroll in ENG 111

³Prerequisite: AST 102 or AST 141

⁴Recommended: Foreign Language or Philosophy. Students may select humanities from approved list on page 40.

⁵LGL 200 Level Electives are offered each semester: summer, fall and spring.

⁶Capstone Course. Students complete internship project (20 to 40 hours).

Note: Internship opportunities and a national certification exam may be available to program students/graduates/

Certificate: Office Legal Assistant/Paralegal Studies

AREA: Office Legal Assistant/Paralegal Studies Certificate

LENGTH: Two semesters (one-year) program

PURPOSE: With an increasing demand for paralegals and office legal assistants in professional offices, corporations and businesses, this certificate will prepare individuals for full-time employment upon completion of the community college program. The program is beneficial for individuals who are seeking first-time employment, career advancement or paralegal certification.

OCCUPATIONAL OBJECTIVES: legal assistant or paralegal

PROGRAM REQUIREMENTS: This program prepares the student to fill legal assistant and paralegal positions and provides fundamental knowledge and skills associated with legal research and documentation of that research. The curriculum includes courses in family law, real estate law, civil and criminal law, legal ethics and legal research. Upon satisfactory completion of the program, the graduate will be awarded a certificate in office legal assistant/paralegal studies.

*This certificate can be completed in three semesters (one year) if the following conditions are met:

- Placement tests indicate readiness to enroll in ENG 111.
- Students are willing to enroll in day and evening classes.
- Students enroll in required LGL prefix classes offered each semester (courses are offered once a year).
- Students with no keyboarding skill or limited computer skill must enroll in AST 101 or AST 102 or AST 141 prior to admission to program.
- Grades of C or better are earned in each course completed.

Additional courses to enhance employment opportunities may include: (if 12 credits needed each semester)

BUS	241/242	Business Law I/II
LGL	130	Law Office Admin. & Management
LGL	216	Trial Prep. & Discovery Practice
LGL	218	Criminal Law
LGL	235	Legal Aspects of Business Organizations
LGL	223	Estate Planning
SPA	101/102	Spanish I/II

Course#	Title	Credits
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First Semester (Summer)

ENG	111	College Composition I	3
LGL	125	Legal Research	3
LGL	200	Ethics for the Legal Assistants	1
SDV	100	College Success Skills	1
Total			8

Second Semester (Fall)

LGL	115	Real Estate Law for Legal Assistants	3
LGL	117	Family Law	3
LGL	126	Legal Writing	3
LGL		LGL 200 Level Elective	3
Total			12

Third Semester (Spring)

AST	206	Professional Development	3
LGL	215	Torts	3
LGL	230	Legal Transactions	3
LGL	217	Trial Practice and the Law of Evidence	3
Total			12

Program Total **32**

Note: Internship opportunities and a national CPC certification exam may be available to certificate students/graduates.

Certificate: Office Systems Assistant

AREA: Office Systems Assistant
Certificate

LENGTH: Two semesters (one-year) program

PURPOSE: Commercial and industrial expansion in Virginia is steadily increasing the demand for qualified records management and word processing personnel. The Office Systems Assistant Program is designed to prepare graduates for full-time employment in a variety of office positions.

OCCUPATIONAL OBJECTIVES: data entry specialist, front desk coordinator, information processing specialist, office assistant, office support technician, proofreader/editor, receptionist or records clerk

PROGRAM REQUIREMENTS: The program prepares the student to fill clerical and word processing positions and provides fundamental knowledge and skills associated with general office work. The curriculum includes courses in keyboarding, math, business, word processing and business communications. Students who have satisfactorily completed high school courses in keyboarding with a grade of C or better may take word processing courses. (Proof by means of a high school transcript must be on file in the Admissions and Records Office.) Upon satisfactory completion of the program, the graduate will receive a certificate in office systems assistant.

ADMISSION/COURSE PREREQUISITE REQUIREMENTS:

- Most courses in this program require placement in to ENF2 or higher or successful completion of ENF1.
- Students without keyboarding skill (or limited skill below 25 words per minute) must complete the prerequisite course AST 101 Keyboarding I, prior to enrolling in AST 102 or AST 141.

<u>Course#</u>	<u>Title</u>	<u>Credits</u>
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First Semester (Fall)

AST	102	Keyboarding II ¹ or AST 141 Word Processing ¹	3
AST	107	Editing and Proofreading Skills ¹	3
AST	234	Records and Database Management ¹	3
BUS	100	Introduction to Business	3
ENG	111	College Composition I	3
SDV	100	College Success Skills	1
Total			16

Second Semester (Spring)

AST	141/142	Word Processing I ² or Word Processing II ³	3
AST	206	Professional Development	3
MTH	120	Introduction to Mathematics	3
		Approved Social Science Elective ⁴	3
		Approved Elective ⁵	3
Total			15

Program Total **31**

¹Keyboarding skill is required. Prerequisite AST 101 or instructor approval

²Prerequisite: AST 102 or instructor approval

³Prerequisite: AST 141 or instructor approval

⁴Students may select social science electives from approved list on page 40.

⁵Approved electives: AST 205, AST 230, AST 253, AST 257, AST 260

Recommendation: Career-seeking students are also encouraged to enroll in the administrative support technology associate degree or in the administrative support technology: virtual assistant specialization associate degree.

Career Studies Certificate: Information Processing Technician

AREA: Information Processing Technician

PURPOSE: To assist students in developing the basic software skills involved in information processing in the office environment and their applications for a range of office functions

OCCUPATIONAL OBJECTIVES: office assistant, office support technician, customer service care center, information technology assistant

ADMISSION/COURSE PREREQUISITE REQUIREMENTS:

1. Most courses in this program require placement in to ENF 2 or higher or successful completion of ENF1.
2. Students without keyboarding skill (or limited skill below 25 words per minute) must complete the prerequisite course AST 101 Keyboarding I, prior to enrolling in AST 102 or AST 141.
3. All courses completed require a grade of C or better.

Additional courses to enhance employment opportunities may include: (if 12 credits needed each semester)

AST	205	Business Communications
AST	234	Records & Database Management
ENG	111	College Composition I
ITE	115	Introduction to Computer Applications and Concepts
SPA	101/102	Spanish I & II

PROGRAM REQUIREMENTS:

Course#	Title	Credits
First Semester (Fall)		
AST 107	Editing and Proofreading Skills ¹	3
AST 102/141	Keyboarding II or Word Processing I ²	3
SDV 100	College Success Skills	1
Total		7
Second Semester (Spring)		
AST 142	Word Processing II ³	3
AST 206	Professional Development	3
AST 243	Office Administration I ² or AST 244 Administration II ²	3
Total		9
Program Total		16

¹Keyboarding skill is required. Co requisite: AST 101 or equivalent skill.

²Keyboarding skill and computer knowledge are required. Prerequisite: AST 101 or instructor approval

³Prerequisite: AST 102 or AST 141 or instructor approval
Recommendation: Career-seeking students are also encouraged to enroll in the office systems assistant one-year certificate and/or the administrative support technology or the administrative support technology: virtual assistant specialization associate degree program.

Business Degrees and Certificates

All information subject to change. For the latest course information, access MY LFCC online at <http://www.lfcc.edu>. Information contained in this publication is current as of March 29, 2013.

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Associate of Arts and Sciences Degree in Business Administration

AREA: Business Administration

DEGREE: Associate of Arts and Sciences Degree

LENGTH: Four semesters (two-year) program

PURPOSE: There is great demand for qualified personnel in business administration to promote leadership and to facilitate economic growth in Virginia business and industry. The associate of arts and sciences degree curriculum in business administration is 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.

TRANSFER GUIDELINES: The associate of arts and sciences degrees (AA&S) offered by LFCC are designed to provide freshman and sophomore level course work toward the completion of a bachelor's degree. The AA&S degree programs require students to take essentially the same courses as required by their university/four-year college counterparts in the areas of English, health/physical education, humanities, mathematics, science and social science.

To help facilitate the transfer process, each state-supported college and most private colleges in Virginia produce a Virginia Community College Transfer Guide. These transfer guides provide specific information about the transferability of courses and/or programs to their respective institutions. Transfer guides can be found at www.lfcc.edu/transfer. Students may also download many Virginia transfer guides online at the following address:
<http://www.myfuture.vccs.edu/transfer/>.

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 guides and college catalogs, exploring Guaranteed Admission 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.

Course #	Title	Credits
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First Semester

ENG	111	College Composition I	3
HIS	111	History of World Civilization I (or HIS 121) ¹	3
MTH	163	Pre-Calculus I ⁵ (or MTH 271)	3
SDV	100	College Success Skills	1
		Science with Laboratory ²	4
		Elective	3
		Total	17

Second Semester

ENG	112	College Composition II	3
HIS	112	History of World Civilization II (or HIS 122) ¹	3
MTH	271	Applied Calculus I ⁵ (or MTH 272 or 240)	3
PED/HLT		Physical Education or Health ⁶	1
		Science with Laboratory ²	4
		Total	14

Third Semester

ACC	211	Principles of Accounting I	3
CST	100/110	Principles of Public Speaking	3
ECO	201	Principles of Macroeconomics	3
ENG		Literature I ⁷ (ENG 241, 243 or 251)	3
		Approved Humanities Elective ³	3
		Total	15

Fourth Semester

ACC	212	Principles of Accounting II	3
ECO	202	Principles of Microeconomics	3
ENG		Literature II ⁷ (ENG 242, 244 or 252)	3
		Approved Elective ⁴	3
		Elective	3
		Total	15

Program Total **61**

¹ A full-year sequence of History of World Civilization or U.S. History is required.

² A one-year sequence of biology, chemistry, geology or physics is recommended; however, depending on the requirements of the four-year college two one-semester courses in different sciences may be substituted with advisor approval.

³ Students may select humanities electives from the approved list on page 40.

⁴ ITE 115 will satisfy this requirement. Students are required to 1) complete a computer course such as ITE 115, or equivalent or 2) demonstrate proficiency in using a Windows-based operating system along with word processing, spreadsheet, database management, presentation and communication software by passing an LFCC computer competency exam. Students eligible for

Associate of Arts and Sciences Degree in Business Administration

option two may select any appropriate elective. Please consult your academic advisor.

⁵Business administration students are advised to take MTH 240.

Approved math sequences are MTH 163-271, MTH 271-272 or MTH 271-240.

⁶Students are encouraged to determine, with advisor help, transferability of health courses to specific four-year colleges.

⁷A one-year sequence of literature is required.

Associate of Applied Science Degree in Accounting

AREA: Accounting

DEGREE: Associate of Applied Science Degree

LENGTH: Four semesters (two-year) program

PURPOSE: There is a great demand for qualified personnel to assist business management in dealing with the rapid development of business and industry in Virginia. The associate of applied science degree curriculum in accounting is designed for persons who seek full-time employment in the accounting field immediately upon completion of the community college curriculum. Persons who are seeking their first employment in an accounting position and those presently in accounting who are seeking a promotion may benefit from this curriculum.

OCCUPATIONAL OBJECTIVES: 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

TRANSFER GUIDELINES: Transfer opportunities for associate of 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.

PROGRAM REQUIREMENTS: The first two semesters of the accounting program are similar to other curricula in business. In the second year each student will pursue a specialty in accounting. The curriculum includes technical courses in accounting and related areas, general education and electives. Instruction includes both the theoretical concepts and practical and computer applications needed for future success in accounting. Students must consult with an advisor to plan their program and select electives. Upon satisfactory completion of the program, the graduate will be awarded the associate of applied science degree in accounting.

<u>Course#</u>	<u>Title</u>	<u>Credits</u>
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First Semester

ACC	211	Principles of Accounting I	3
ECO	201	Principles of Macroeconomics	3
ENG	111	College Composition I	3
ITE	115	Intro to Computer Apps & Concepts	3
MTH	120	Introduction to Mathematics	3
SDV	100	College Success Skills	1
Total			16

Second Semester

ACC	212	Principles of Accounting II	3
ACC	215	Computerized Accounting	3
CST 100/110		Principles of Public Speaking	3
ECO	202	Principles of Microeconomics	3
ENG	112	College Composition II	3
		Approved Elective ¹	3
Total			18

Third Semester

ACC	221	Intermediate Accounting I	3
ACC	231	Cost Accounting	3
ACC	261	Principles of Federal Taxation I	3
BUS	241	Business Law I	3
PED/HLT		Physical Education or Health	1
		Elective	3
Total			16

Fourth Semester

ACC	222	Intermediate Accounting II	3
ACC	225	Managerial Accounting	3
ACC	262	Principles of Federal Taxation II	3
ACC	298	Seminar and Project	3
BUS	242	Business Law II	3
Total			15

Program Total	65
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¹ Approved elective is to be selected from courses with the following prefixes ACC, BUS, ECO, FIN and ITE.

Associate of Applied Science Degree in Management

AREA: Management

DEGREE: Associate of Applied Science Degree

LENGTH: Four semesters (two-year) program

PURPOSE: There is great demand for qualified personnel to assist management in dealing with the rapid growth of Virginia business and industry. The associate of applied science degree in management is designed for persons who ultimately seek full-time employment in management. Persons who are seeking their first employment on the management ladder and those presently in management who are seeking promotion may benefit from this program.

OCCUPATIONAL OBJECTIVES: branch manager, management trainee, manager of small business, office manager or supervisor

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 their an advisor.

PROGRAM REQUIREMENTS: The first two semesters of the curriculum in management are similar to other curricula in business. However, in the second year each student will pursue her/his specialty in management. The curriculum includes technical courses in management, courses in related areas, general education and electives. Instruction consists of both the theoretical concepts and practical applications needed for future success in management. Students are urged to consult with an advisor to plan their program and select electives. Upon satisfactory completion of the program, the graduate will be awarded the associate of applied science degree in management.

Course#	Title	Credits
First Semester		
ACC 211	Principles of Accounting I	3
BUS 100	Introduction to Business	3
ENG 111	College Composition I	3
ITE 115	Intro to Computer Apps & Concepts	3
MTH 120	Introduction to Mathematics	3
SDV 100	College Success Skills	1
Total		16
Second Semester		
ACC 212	Principles of Accounting II	3
BUS 200	Principles of Management	3
BUS 205	Human Resource Management	3
ENG 112	College Composition II	3
FIN 107	Personal Finance	3
PED/HLT	Physical Education or Health	1
Total		16
Third Semester		
BUS 236	Communication in Management	3
BUS 241	Business Law I	3
ECO 201	Principles of Macroeconomics	3
FIN 215	Financial Management	3
MKT 100	Principles of Marketing	3
	Approved Humanities Elective ¹	3
Total		18
Fourth Semester		
BUS 111	Principles of Supervision I	3
BUS 285	Current Issues in Management	3
ECO 202	Principles of Microeconomics	3
MKT 282	Principles of E-Commerce	3
	Elective	3
Total		15
Program Total		65

¹ Students may select humanities electives from the approved list on page 40.

Recommendation: Students pursuing a two-year degree are encouraged to apply for the Career Studies Certificate in General Business, Sales, Management & Marketing, Small Business Management, or Supervision (as relevant to two-year degree). Completion of a certificate may provide opportunities for workplace advancement.

Career Studies Certificate: Entrepreneurship; General Business; Sales Management and Marketing; Small Business Management

AREA: Entrepreneurship

PURPOSE: The career studies certificate will provide students with foundation skills in finance, accounting, marketing, business law and human resources required to develop and open a business.

PROGRAM REQUIREMENTS:

Course #	Title	Credits
First Semester (fall)		
BUS 116	Entrepreneurship	3
BUS 241	Business Law	3
FIN 215	Financial Management	3
ITE 115	Introduction to Computer Applications and Concepts (ITE 115 may be taken either fall or spring)	3
	Total	12
Second Semester (spring)		
ACC 262	Federal Taxation II	3
BUS 205	Human Resources	3
MKT 100	Principles of Marketing	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 not a requirement.

AREA: General Business

PURPOSE: To introduce students to the essential dimensions of business operation and related concepts

PROGRAM REQUIREMENTS:

Course#	Title	Credits
ACC 211	Principles of Accounting I	3
BUS 100	Introduction to Business	3
BUS 205	Human Resource Management	3
BUS 241	Business Law I	3
ITE 115	Intro to Computer Apps & Concepts	3
MTH 120	Introduction to Mathematics	3
	Total	18

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

AREA: Sales Management and Marketing

PURPOSE: To introduce students to sales management and marketing principles and techniques

PROGRAM REQUIREMENTS:

Course#	Title	Credits
BUS 236	Communications in Management	3
MKT 100	Principles of Marketing	3
MKT 228	Promotion	3
MKT 271	Consumer Behavior	3
MKT 282	Principles of E-Commerce	3
	Total	15

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

AREA: Small Business Management

PURPOSE: To introduce students to small business management principles and techniques

PROGRAM REQUIREMENTS:

Course#	Title	Credits
ACC 211	Principles of Accounting I	3
ACC 262	Principles of Federal Taxation II	3
BUS 165	Small Business Management	3
BUS 236	Communication in Management	3
BUS 241	Business Law I	3
ITE 115	Intro to Computer Apps & Concepts	3
MKT 100	Principles of Marketing	3
	Total	21

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

Career Studies Certificate: Supervision

AREA: Supervision

PURPOSE: To introduce students to small business management principles and techniques

PROGRAM REQUIREMENTS:

<u>Course#</u>	<u>Title</u>	<u>Credits</u>
BUS 100	Introduction to Business	3
BUS 111	Principles of Supervision I	3
BUS 200	Principles of Management	3
BUS 205	Human Resource Management	3
BUS 236	Communication in Management	3
BUS 241	Business Law I	3
	Total	18

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

Education Degrees and Certificates

All information subject to change. For the latest course information, access MY LFCC online at <http://www.lfcc.edu>. Information contained in this publication is current as of March 29, 2013.

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Associate of Arts and Sciences Degree in Education

AREA: Education

DEGREE: Associate of Arts and Sciences Degree

LENGTH: Four semesters (two-year) program

PURPOSE: With the shortage of teachers in Virginia in some endorsement areas, the demand is growing for qualified, licensed teachers. The associate of arts and sciences degree program in education has been 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.

TRANSFER GUIDELINES: The program sequence listed is most accurate for students pursuing an endorsement in elementary education, middle grades, or special education. However, it is only a guide and additional coursework may be required. The AA&S degree in education is appropriate for students seeking a secondary level endorsement as well. Requirements vary based on the endorsement area (subject/grade level) you plan to teach and which institution to which you choose to transfer. Seeking academic advising early with your an advisor and the transfer institution is critical to plan a smooth transfer.

To help facilitate the transfer process, each state-supported college and most private colleges in Virginia produce a Virginia Community College Transfer Guide. These transfer guides provide specific information about the transferability of courses and/or programs to their respective institutions. Transfer guides can be found at www.lfcc.edu/transfer. Students may also download many Virginia transfer guides online at the following address:
<http://www.myfuture.vccs.edu/transfer/>.

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 guides and college catalogs, exploring Guaranteed Admission 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.

	Course#	Title	Credits
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First Semester

BIO	101	General Biology I	4
ENG	111	College Composition I	3
HIS		Approved History Elective ¹	3
MTH		Approved Math Elective ²	3
ITE	115	Introduction to Computer Applications and Concepts	3
SDV	101/ 100	Orientation to the Education Professions	1
Total			17

Second Semester

ENG	112	College Composition II	3
GEO	210	Cultural Geography	3
GOL		Approved GOL elective ⁹	4
HIS		Approved history elective ¹	3
MTH	240	Statistics I	3
Total			16

Third Semester

ENG	Lit	Literature Elective ³	3
EDU	200	Introduction to Teaching as a Profession ⁴	3
PLS	135	American National Politics	3
PED/ HLT		Physical Education or Health Elective ⁵	1
		Approved Humanities Elective ⁸	3-4
Total			14

Fourth Semester

CST 100/110		Principles of Public Speaking	3
PSY	230	Developmental Psychology	3
ECO		Economics Elective ⁶	3
		Elective ⁷	3
		Approved Humanities Elective ⁸	3-4
Total			16

Program Total	61-63
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¹Depending on the requirements of four-year institutions, two one-semester courses in different histories may be appropriate. Contact your advisor and four-year institution representative.

²Math elective should be selected based on the requirements of the transfer institution. Consult with your advisor and transfer institution representative.

³To be selected from the following: ENG 241, 242, 243, 244, or 255.

⁴This 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.

⁵Depending on the requirements of the transfer institutions, two (2) credits of an active PE or a specific Health course may be recommended. Consult with your transfer institution representative.

Associate of Arts and Sciences Degree in Education

⁶To be selected from the following: ECO 120, 201, or 202. Consult with an advisor and transfer institution representative.

⁷Electives should be selected based on requirements of the transfer institutions: EDU 254 is recommended for those pursuing an endorsement in Special Education; EDU 280 is also recommended for some transfer institutions. Consult with your advisor and transfer institution representative.

⁸Humanities electives should be selected based on the requirements of the transfer institutions. Consult with an advisor and transfer institution representative.

⁹To be selected from the following: GOL 105 or 106. Consult with an advisor and transfer institution representative.

Associate of Applied Science Degree in Early Childhood Education

AREA: Early Childhood Education

DEGREE: Associate of Applied Science Degree

LENGTH: Four semesters (two-year) program

PURPOSE: With the newest research on brain development in the early childhood years, there has been an increased focus on the need for qualified child care centers and child care teachers, assistants and directors. This program is designed for people seeking employment involving the care and education of young children, or for those people presently employed in these situations who wish to enhance and update their competencies.

OCCUPATIONAL OBJECTIVES: Occupational opportunities include program teachers and teaching assistants, leaders, supervisors or directors in child development programs.

TRANSFER GUIDELINES: The number of four-year colleges and universities with programs for a Baccalaureate degree in Early Childhood Education is increasing. Students enrolling in an applied science degree program with plans to transfer should explore opportunities with an advisor and transfer institution.

PROGRAM REQUIREMENTS: Each CHD course in the Early Childhood Education program will include an assignment or project that will be incorporated into a final portfolio required for graduation. Some CHD classes require a practicum experience in a child care facility. A background check, TB screening, fingerprinting and/or drug screening may be required at the student's expense.

Course#	Title	Credits
First Semester		
CHD 118	Language Arts for Young Children	3
CHD 120	Intro to Early Childhood Education	3
CHD 145	Teaching Art, Music, & Movement	3
ENG 111	College Composition I	3
PSY 235	Child Psychology	3
SDV100/101	College Success Skills	1
	Total	16

Second Semester

CHD 119	Intro to Reading Methods ¹	3
CHD 165	Observation & Participation in Early Childhood Settings ²	3
CHD 166	Infant & Toddler Programs	3
CHD 205	Guiding the Behavior of Young Children	3
ENG 112	College Composition II	3
	Math or Science with Lab Elective ³	3-4
	Total	18-19

Third Semester

CHD 146	Math, Science and Social Studies for Young Children	3
CHD 210	Intro to Exceptional Children	3
CHD 215	Models of Early Childhood Education Programs	3
CHD 216	Early Childhood Programs, School & Social Change	3
EDU 235	Health, Safety & Nutrition Education	3
	Humanities or Fine Arts Elective	3
	Total	18

Fourth Semester

CHD 265	Advanced Observation & Participation in Early Childhood/Primary Settings ²	3
CHD 270	Administration of Early Childhood Educational Programs	3
CHD 298	Seminars and Projects ⁴	1
CST 100/110	Principles of Public Speaking	3
PED/HLT	Physical Education or Health Elective	1
	Total	14

Program Total 65-67

¹CHD 118 must be completed before CHD 119.

²CHD 165 prerequisite for CHD 265. This is a practicum course where you will be placed in a child care setting. A background check, TB screening and/or drug screening may be required at the expense of the student.

³MTH 151 or higher is required for transfer.

⁴Co-requisite: CHD 265

Career Studies Certificate: Early Childhood Education

AREA: Early Childhood Education

PURPOSE: To prepare students for working in an early childhood educational setting

OCCUPATIONAL OBJECTIVES: instructional assistant or preschool and child care worker

PROGRAM REQUIREMENTS:

<u>Course#</u>	<u>Title</u>	<u>Credits</u>
First Semester		
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 Education	3
CHD 205	Guiding the Behavior of Children	3
EDU 235	Health, Safety, and Nutrition Education	3
SDV 101/100	College Success Skills	1
Total		16

*Engineering,
Industrial and Trade
Degrees and
Certificates*

Associate of Applied Science Degree in General Engineering Technology/Mechanical Engineering Technology

AREA: General Engineering Technology:
Mechanical Engineering Technology

DEGREE: Associate of Applied Science Degree

LENGTH: Four semesters (two-year) program

PURPOSE: This curriculum 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.

OCCUPATIONAL OBJECTIVES: draftsman/designer, engineer's aide, engineering technician, industrial test technician, maintenance technician or other related positions

TRANSFER GUIDELINES: Graduates with appropriate course selection may qualify to enter mechanical engineering technology programs at selected universities. Students preparing for transfer must consult with the program advisor. Course selection is very important to assure junior status upon transfer. Potential transfer institutions include East Tennessee State University, North Carolina State University, Old Dominion University, Rochester Institute of Technology, West Virginia Institute of Technology and West Virginia University. Students interested in transferring to other institutions, including Virginia Tech, must determine transfer requirements of their intended destination school.

PROGRAM REQUIREMENTS: The curriculum is designed to integrate courses in mechanical engineering technology, mechanics, physics, general education, drafting, computer information systems and technical electives. Students entering the program must have algebra I and geometry skills or be willing to improve those skills through developmental studies. The program may be completed on a part-time basis since courses are alternated between day and evening hours. Technical electives must be selected from an approved list available from the program advisor. Upon satisfactory completion of the four-semester program, the graduate will be awarded the associate of applied science degree in general engineering technology with a mechanical engineering technology specialization. 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.

Course#	Title	Credits
First Semester		
EGR 110	Engineering Graphics	3
ENG 111	College Composition I	3
MEC 111	Materials for Industry	3
MTH 115	Technical Math I or Approved Higher Level Math 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 158	College Algebra or Approved Higher Level Math	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 ⁴	3
	Total	16
	Program Total	67

¹ Approved higher level math courses include: MTH 163/164, MTH 271/272, MTH 173/174. Students should check with program faculty.

² Students may select social science elective from approved list on page 40.

³ An approved list of technical electives is available on page 42.

⁴ Students may select humanities elective from approved list on page 40.

Associate of Applied Science Degree in General Engineering Technology: Civil Engineering Technology Specialization

AREA: General Engineering Technology:
Civil Engineering Technology Specialization

DEGREE: Associate of Applied Science Degree

LENGTH: Four semesters (two-year) program

PURPOSE: This curriculum 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.

OCCUPATIONAL OBJECTIVES: construction/building inspector, construction estimator, draftsman/designer, engineer's aide, engineering technician or other related positions

TRANSFER GUIDELINES: Graduates with appropriate course selection may qualify to enter civil engineering technology programs at selected universities. Students preparing for transfer must consult with their program advisors. Course selection is very important to assure junior status upon transfer. Potential transfer institutions include East Tennessee State University, North Carolina State University, Old Dominion University, Rochester Institute of Technology, West Virginia Institute of Technology and West Virginia University. Students interested in transferring to other institutions, including Virginia Tech, must determine transfer requirements of their intended destination school.

PROGRAM REQUIREMENTS: The curriculum is designed to integrate courses in civil engineering technology, mechanics, physics, general education, drafting, computers and technical electives. Students entering the program must have algebra I and geometry skills or be willing to improve those skills through developmental studies. The program may be completed on a part-time basis since courses are alternated between day and evening hours. Technical electives must be selected from an approved list available from the program advisor. Upon satisfactory completion of the four-semester curriculum, the graduate will be awarded the associate of applied science degree in general engineering technology with a civil engineering technology specialization. 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.

Course#	Title	Credits
First Semester		
ARC 130	Materials and Methods of Construction	3
EGR 110	Engineering Graphics	3
ENG 111	College Composition I	3
MTH 115	Technical Math I or Approved Approved Higher Level Math ¹	3
SDV 100	College Success Skills	1
	Social Science Elective ²	3
	Total	16
Second Semester		
ARC 221	Architectural CAD Appl. Software I	3
ARC 240	Designing Sustainable Built Environments	3
EGR 216	Computer Methods in Engineering and Technology	3
ENG 112/115	College Composition II or Technical Writing	3
MTH 158	College Algebra or Approved Higher Level Math ¹	3
	Social Science 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 or 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
	Technical Elective ³	3
	Humanities Elective ⁴	3
	Total	16
	Program Total	67

¹ Approved higher level math courses include: MTH 163/164, MTH 271/272, MTH 173/174. Students should check with program faculty.

² Students may select social science electives from approved list on page 40.

³ An approved list of technical electives is available on page 42.

⁴ Students may select humanities electives from approved list on page 40.

Associate of Applied Science Degree in General Engineering Technology: Computer-Aided Drafting Specialization

AREA: General Engineering Technology:
Computer-Aided Drafting Specialization

DEGREE: Associate of Applied Science Degree

LENGTH: Four semesters (two-year) program

PURPOSE: Skills in computer-aided drafting (CAD) are increasingly valuable and sought in the workplace. This curriculum is designed to provide a thorough preparation in drafting, emphasizing the use of computers and, in particular, computer-aided design and drafting. Communication skills and problem-solving skills are also emphasized, both of which are critical to success in the workplace. This program is particularly valuable for those who wish to gain employment in technical support careers or for those who need to upgrade skills within their current fields.

OCCUPATIONAL OBJECTIVES: CAD operator, CAD technician, drafting technician, engineer's aid or other related positions

TRANSFER GUIDELINES: Although this program is not designed as a transfer program, it does include many courses which will transfer into engineering technology programs at select four-year institutions. This allows students who eventually develop a desire to transfer the opportunity to transfer about two-thirds or more of the credit earned. How much credit is actually transferable depends on the transfer institution selected. Students should work closely with an advisor if and when they develop an interest in transferring.

PROGRAM REQUIREMENTS: This curriculum integrates courses in civil engineering technology, mechanical engineering technology, drafting, architecture, computer programming and general education. Students entering the program must have algebra I and geometry skills, or be willing to improve those skills through developmental studies. Technical electives should be selected in consultation with an assigned advisor. Upon satisfactory completion of the curriculum, graduates will be awarded the associate of applied science degree in general engineering technology with a computer-aided drafting specialization. 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.

Course#	Title	Credits
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 115	Technical Math I or Approved Higher Level of Math ¹	3
SDV 100	College Success Skills	1
Total		16
Second Semester		
ARC 221	Architectural CAD Applications 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 158	College Algebra or Approved Higher Level Math ¹	3
	Technical Elective ³	3
Total		18
Third Semester		
ARC 222	Architectural CAD Applications Software II	3
CAD 242	Parametric Solid Modeling II	3
CIV 171	Surveying I	3
EGR 206	Engineering Economics	3
PED/HLT	Physical Education or Health	1
	Technical Elective ³	3
Total		16
Fourth Semester		
CIV 172	Surveying II	3
ENG 112/115	College Composition II or Technical Writing	3
IND 145	Introduction to Metrology	3
	Social Science Elective ²	3
	Humanities Elective ⁴	3
Total		15
Program Total		65

¹ Approved higher level math courses include: MTH 163/164, MTH 271/272, MTH 173/174. Students should check with program faculty.

² Students may select social science electives from approved list on page 40.

³ An approved list of Technical Electives is available on page 42.

⁴ Students may select humanities electives from approved list on page 40.

Associate of Applied Science Degree in General Engineering Technology: Industrial Electricity and Controls Technology Specialization

AREA: General Engineering Technology:
Industrial Electricity and Controls Technology
Specialization

DEGREE: Associate of Applied Science Degree

LENGTH: Four semesters (two-year) program

PURPOSE: This curriculum 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. This program can also provide critical education components to apprenticeship programs of various types. This program is not intended for transfer.

OCCUPATIONAL OBJECTIVES: electrical apprentice, electrician, electrician's helper, industrial electrician, journeyman or other related positions

PROGRAM REQUIREMENTS: This program is designed to integrate basic industrial electricity courses, basic machinery control courses, basic engineering technology courses and general education courses. Students entering the program should have basic arithmetic skills and must be willing to advance their math skills through required math courses. Most students should start with MTH 120 (Introduction to Math), but may select a higher-level math if they are prepared for it. All entering students must take a math placement test to determine their math skill level. Many of the electrical and control courses require the use of mathematics, and it is important for students to start with their math courses as early as possible in the program. The basic intent of this program is to produce technically skilled graduates, with a broad technical background and a well-rounded general education foundation. All electives, including technical electives, must come from an approved list or be approved by one of the full-time faculty members teaching technical courses in the program.

Course#	Title	Credits
First Semester		
EGR 110	Engineering Graphics	3
ELE 133	Practical Electricity I	3
ENG 111	English Composition I	3
MEC 111	Materials for Industry	3
MTH 115	Technical Math I or Approved Higher Level of Math 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 or Technical Writing	3
MEC 112	Processes of Industry	3
MTH 158	College Algebra or Approved Higher Level Math ¹	3
Total		18
Third Semester		
EGR 206	Engineering Economics	3
ELE 159	Electrical Motors	3
PED/HLT	Physical Education or Health	1
	Humanities Elective ²	3
	Social Science Elective ²	3
	Technical Elective ³	3
Total		16
Fourth Semester		
ELE 135/137	National or Residential Electric Code	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 163/164, MTH 271/272, MTH 173/174. Students should check with program faculty.

² Students may select social science and humanities electives from approved list on page 40.

³ An approved list of Technical Electives is available on page 42.

Associate of Applied Science Degree in General Engineering Technology: Technical Operations

AREA: General Engineering Technology:
Technical Operations

DEGREE: Associate of Applied Science Degree

LENGTH: Four semesters (two-year) program

PURPOSE: This curriculum provides educational opportunities for those who are or those who seek to be employed in a field that requires a substantial technical knowledge base. The curriculum also provides an opportunity to transfer and complete a bachelor of science degree in Technical Operations from Old Dominion University, which can be completed on the Middletown or Warrenton campus of Lord Fairfax Community College. This curriculum has extended technical and science electives to allow some customization for both employers and students.

OCCUPATIONAL OBJECTIVES: Engineering aid, production line lead, technical support technician, testing technician, technical sales, production support technician, or other related positions.

TRANSFER GUIDELINES: Graduates with appropriate course selection may qualify to enter the General Engineering Technology, Technical Operations Specialization at Old Dominion University. This Bachelor of Science program can be completed at the ODU site on either the Middletown campus or the Warrenton campus of Lord Fairfax Community College. Course selection is very important to insure a smooth transfer process, and students must work closely with an advisor. Transfer to other universities must be explored by the student on a case by case basis.

PROGRAM REQUIREMENTS: This curriculum is designed to integrate a variety of required technical courses, substantial technical electives, science electives, and required general education courses. Students entering the program must have algebra 1 and geometry skills or be willing to improve those skills through developmental studies. Additionally, students must take courses in the proper order so that prerequisite courses are completed as appropriate. The program may be completed on a part-time basis since courses are alternated between day and evening hours. Technical electives must be approved by the program advisor. Student can work with their employers to identify the type of technical and science electives to best suit their employment advancement goals. Employers are also encouraged to work with Lord Fairfax Community College for consideration of special courses or possible work experience (typically by internship) as technical electives. Students who intend to transfer will have specific

course requirements for technical electives and should consult with their program advisor about those requirements.

Course#	Title	Credits
First Semester		
EGR 110	Engineering Graphics	3
ENG 111	English Composition I	3
MEC 111	Materials for Industry	3
MTH 115	Technical Math I or approved Higher Level Math 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 or Technical Writing	3
MEC 112	Processes of Industry	3
MTH 158	College Algebra or Approved Higher Level Math 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 or 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	4
	Technical Elective ³	3
	Technical Elective ³	3-4
	Humanities Elective ⁴	3
	Total	15-16
	Program Total	65-67

¹ Approved higher level math courses include: MTH 163/164, MTH 271/272, MTH 173/174. Students should check with program faculty.

²Students may select social science electives from approved list on page 40.

³An approved list of Technical Electives is available on page 42.

⁴Students may select humanities from approved list on page 40.

Career Studies Certificates

AREA: Basic Electrical Technician

PURPOSE: To expose students to theory and applications related to electrical systems

OCCUPATIONAL OBJECTIVES: 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

PROGRAM REQUIREMENTS:

Course#	Title	Credits
Fall Semester		
ELE 133	Practical Electricity I	3
ELE 135	National Electrical Code Residential	3
SDV 101/100	Introduction to the Trades Profession	1
Spring Semester		
ELE 134	Practical Electricity II	3
ELE 137	National Electrical Code Industrial	3
ELE 190	Coordinated Internship or Technical elective (WEL, AIR, ELE or ITE 115)	3
Total		16

AREA: Drafting

PURPOSE: To enable students to develop drafting graphics skills related to architecture, machine design, and using specialized computer software in the drafting field

PROGRAM REQUIREMENTS:

Course#	Title	Credits
ARC 130	Introduction to Materials and Methods of Construction	3
ARC 221	Architectural CAD Applications Software I	3
ARC 222	Architectural CAD Applications Software II	3
CAD 241	Parametric Solid Modeling I	3
CAD 242	Parametric Solid Modeling II	3
EGR 110	Engineering Graphics ¹	3
MEC 113	Materials and Processing of Industry	3
Total		21

¹ Prerequisite for ARC 221, CAD 241

AREA: Electrical Control Technician Intermediate

PURPOSE: To obtain a second career studies certificate, complimenting the first CSC Electrical Technician Basic, thus enabling student to become more employable

PROGRAM REQUIREMENTS:

Course#	Title	Credits
ELE 159*	Electrical Motors	3
ELE 156	Electrical Control Systems	3
AIR 134	Circuit and Controls I or ELE 134 Practical Electricity II	3
ELE 290	Coordinated Internship or Approved Elective	1
ELE 239	Programmable Controllers	3
ELE 240	Advanced Programmable Logic Controllers	3
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 126 or ELE 134.

Career Studies Certificates

AREA: HVAC

PURPOSE: To expose students to theory and application related to HVAC

OCCUPATIONAL OBJECTIVES: To prepare students for entry-level positions in heating, ventilation and air conditioning

This certificate can be completed in three 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

PROGRAM REQUIREMENTS:

Course#	Title	Credits
---------	-------	---------

Fall Semester

AIR	121	Air Conditioning and Refrigeration I	3
AIR	154	Heating Systems I	3
AIR	134	Circuits and Controls	3

Spring Semester

AIR	122	Air Conditioning and Refrigeration II	3
AIR	155	Heating Systems II	3
ELE	133	Electricity I	3
Total			18

AREA: Industrial Design

PURPOSE: To introduce students to the principles of sound industrial design, including related mathematics and concepts

PROGRAM REQUIREMENTS:

Course#	Title	Credits	
EGR	135 Statics for Engineering Technology ¹	3	
EGR	136 Strength of Materials for Engineering Technology ²	3	
EGR	247 Mechanics Laboratory ³	1	
MEC	113 Materials and Processes of Industry	3	
or			
ARC	130 Materials and Methods of Construction		
MTH	115 Technical Mathematics I	3	
MTH	116 Technical Mathematics II	3	
Total			16

¹Prerequisite for EGR 135 is MTH 115.

²Prerequisites for EGR 136 are EGR 135 and MTH 116.

³Prerequisite for EGR 247 is EGR 136.

Career Studies Certificates

AREA: Industrial Maintenance Technician Basic

PURPOSE: To expose students to theory and application related to the maintenance of heating, air conditioning, electrical systems and motors and welding

OCCUPATIONAL OBJECTIVES: To prepare students for entry-level positions in industrial maintenance

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

PROGRAM REQUIREMENTS:

Course#	Title	Credits
Fall Semester		
ELE 133	Practical Electricity I	3
SDV 101/100	Orientation to the Trades Profession	1
WEL 120	Introduction to Welding	3
Spring Semester		
MEC 120	Principles of Machine Technology	3
Internship	Internship or COOP	6
Total		16

AREA: Industrial Maintenance Technician Intermediate

PURPOSE: To expose students to theory and application related to the maintenance of heating, air conditioning, electrical systems and motors and welding

OCCUPATIONAL OBJECTIVES: To prepare students for entry-level positions in industrial manufacturing or small business and commercial support companies

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

PROGRAM REQUIREMENTS:

Course#	Title	Credits
Fall Semester		
AIR 121	Air Conditioning and Refrigeration I	3
ELE 159	Electrical Motors	3
	Approved Tech Elective (AIR 122, ITE 115, or as approved by advisor)	3
Spring Semester		
ELE 134	Practical Electricity II	3
WEL 130	Inert Gas Welding	3
	Internship	1
Total		16

*It is recommended that students complete the Industrial Technician Basic Certificate prior to starting the Maintenance Technician Intermediate Certificate.

Career Studies Certificates

AREA: Sustainability and Green Construction

PURPOSE: This career studies certificate (CSC) provides instruction in sustainable building materials, construction methods, and design along with instruction in solar energy usage especially photovoltaic grid direct systems. Successful students completing this curriculum will be prepared to take both the L.E.E.D (Leadership in Energy and Environmental Design) entry level certification test and the NABCEP (North American Board of Certified Energy Practitioners) entry level certification test. This CSC, along with the two certifications, will give students a substantial edge when applying for jobs with architectural firms, engineering firms, and construction companies involved with green building design and construction. This CSC is ideally suited for students who have previous technical skills/degrees and want to update their education or are currently in a degree program and want to have additional knowledge and certification to target the green jobs market.

OCCUPATIONAL OBJECTIVES:

Engineering Technician, Engineers Aide, Civil Engineering Technician, Energy Technician, Solar Systems Installer or any occupation that has a new green/sustainable focus including technical sales and project management.

PROGRAM REQUIREMENTS:

<u>Course#</u>	<u>Title</u>	<u>Credits</u>
MTH 115	Technical Math I	3
ARC 130	Materials and Methods of Construction	3
CIV 295	Sustainable Building and Site Design	3
CIV 295B	Solar Energy Fundamentals	3
CIV 295C	Solar Energy Installations	2
CIV 295D	Solar Energy Installation Lab	1
	Approved Technical Elective	1-3
	Total	16-18

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Fine Arts Degrees and Certificates

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Lord Fairfax Community College • <http://www.lfcc.edu>

Associate of Arts and Sciences Degree in Liberal Arts: Fine Arts Specialization

AREA: Liberal Arts:
Fine Arts Specialization

DEGREE: Associate of Arts and Sciences Degree

LENGTH: Four semesters (two-year) program

PURPOSE: The associate of arts and sciences degree in liberal arts with a fine arts specialization is designed for students who plan to transfer to a four-year college or university 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.

TRANSFER GUIDELINES: The associate of arts and sciences degrees (AA&S) offered by LFCC provide freshman and sophomore level course work toward the completion of a baccalaureate degree. The AA&S degree programs require students to take essentially the same courses as required by their university/four-year college counterparts in the areas of English, health/physical education, humanities, mathematics, science and social science.

In addition to required course work, students seeking admission into a fine arts program prepare a portfolio of their work to showcase their artistic skills.

To help facilitate the transfer process, each state-supported college and most private colleges in Virginia produce a Virginia Community College Transfer Guide. These transfer guides provide specific information about the transferability of courses and/or programs to their respective institutions. Transfer guides can be found at www.lfcc.edu/transfer. Students may also download many Virginia transfer guides online at the following address:
<http://www.myfuture.vccs.edu/transfer/>.

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 guides and college catalogs, exploring Guaranteed Admission 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.

Course#	Title	Credits
First Semester		
ENG 111	College Composition I	3
HIS 111	History of World Civilization I	3
SDV 101/100	Orientation to the Visual Arts	1
ITE 115	Introduction to Computer Applications and Concepts	3
	Foreign Language Elective ¹	3-4
ART 121	Drawing I	3
	Total	16-17
Second Semester		
ENG 112	College Composition II	3
HIS 112	History of World Civilization II	3
	Foreign Language Elective ¹	3-4
ART 122	Drawing II	3
	Total	12-13
Third Semester		
CST	Communication Elective ¹	3
MTH	Math Elective ¹	3
	Social Science Elective ¹	3
	Science with Lab Elective ¹	4
ART 131	Fundamentals of Design (with lab)	4
	Total	17
Fourth Semester		
PED/HLT	Physical Education or Health	1
	Science with Lab Elective ¹	4
MTH	Math Elective ¹	3
ART 132	Fundamentals of Design II (with lab)	4
ART 287	Portfolio and Resume Preparation	1
ART	Art Elective ²	3
	Total	16
	Program Total	61-63

¹ See the Approved Electives for the Liberal Arts Degree listed on page 42.

²The following courses may be used as art electives: ART 111, ART 125, ART 153, ART 231, ART 243, ART 283 ART 284,

Career Studies Certificates in Fine Arts; Nature and Outdoor Photography

AREA: Fine Arts

PURPOSE: To introduce students to foundation drawing and painting skills for personal enrichment and preparation for future study

OCCUPATIONAL OBJECTIVES: portfolio enhancement and personal enrichment

PROGRAM REQUIREMENTS:

Course#	Title	Credits
ART 121	Drawing I	3
ART 122	Drawing II	3
ART 131	Fundamentals of Design I	4
ART 241	Painting I ¹	3
ART 242	Painting II ²	3
ART	Approved Elective ³	3
	Total	19

¹Prerequisite for ART 241 is ART 121 or instructor approval.

²Prerequisite for ART 242 is ART 241 or instructor approval.

³Approved electives: ART 132, ART 138, ART 153

AREA: Nature and Outdoor Photography

PURPOSE: To introduce students to the skills and camera techniques appropriate for photographing nature and wildlife

OCCUPATIONAL OBJECTIVES: photographer's assistant and/or portfolio enhancement

PROGRAM REQUIREMENTS:

Course#	Title	Credits
PHT 107	Nature Photography	3
PHT 216	Wildlife Photography ¹	3
PHT 227	Photographic Careers	3
	Approved Electives ²	6
	Total	15

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

²Approved electives from courses with ART, BIO, FOR or PHT prefixes

Health Information Management Degree and Certificates

All information subject to change. For the latest course information, access MY LFCC online at <http://www.lfcc.edu>. Information contained in this publication is current as of March 29, 2013.

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Associate of Applied Science Degree in Health Information Management

AREA: Health Information Management

DEGREE: Associate of Applied Science Degree

LENGTH: Four semesters (two-year program)

PURPOSE: The curriculum is 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 these functions. The curriculum provides students with a unique blend of courses in administrative technology, information management, and health care services. Students who possess an interest in medical services, medical coding, health information regulations, and computer applications to manage will find this career rewarding. This program is beneficial to individuals who are seeking career advancement and eligibility for the national certifying examination-Registered Health Information Technician (RHIT).

Special Accreditation Status: (In process) Lord Fairfax Community College is in the process of applying for certification by the Commission on Accreditation for Health Informatics and Information Management Education (CAHIIM), in association with the American Health Information Management Association (AHIMA).

Certification Eligibility: Upon accreditation by CAHIIM (though accreditation is not guaranteed) students in their final semester and graduates of the program are eligible to take a national certifying examination. The Registered Health Information Technician (RHIT) Certification is recognized nationwide as proof of proficiency in Health Information Management.

OCCUPATIONAL OBJECTIVES: 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.

Employment opportunities exist in all types of healthcare delivery organizations (hospitals, ambulatory care centers, home health services and long term care facilities) plus managed care, consulting firms, claims and reimbursement companies, software service providers, and research firms.

PROGRAM REQUIREMENTS. The two-year curriculum in Health Information Management includes instruction in administrative management, medical coding, medical administrative technology, and general education. Students are advised to check with an 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 Health Information Management.

The associate degree may be completed in four semesters if the following conditions are met:

- Placement tests indicating readiness to enroll in ENG 111.
- Students without computer or keyboarding skill (below 25 words per minute) must complete the prerequisite course AST 101 or below 45 wpm) AST 102 prior to enrolling in ITE 115.
- Students are willing to enroll in day and evening classes

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

Course#	Title	Credits
First Semester (Fall)		
BIO 145	Human Anatomy and Physiology for the Health Sciences	4
ENG 111	College Composition I	3
HIM 111	Medical Terminology I	3
HIM 226	Legal Aspects of Health Record Documentation or MDA 207 Medical Law and Ethics	2
SDV 101	Orientation to Health Information Management ¹	1
ITE 115	Introduction to Computer Applications	3
	Total	16
Second Semester (Spring)		
HIM 112	Medical Terminology II ²	3
HIM 130	Healthcare Information Systems ³	3
HIM 141	Fundamentals of Health Information Systems I	3
HIM 250	Health Data Classification Systems I (ICD-9-CM) ^{4,5}	4
HIM 110	Introduction to Human Pathology ⁴	3
	Total	16
Third Semester (Fall)		
HIM 249	Supervision & Management Practices	3
HIM 230	Information Systems & Technology in Health Care ³	3
HIM 255	Health Data Classification Systems II (CPT) ⁶	2
HIM 231	Health Records Applications I ^{6,7}	3
PED/HLT	Physical Education or Health Social Science Elective ⁸	1 3
	Total	15

Associate of Applied Science Degree in Health Information Management

Fourth Semester (Spring)

AST	206	Professional Development ⁹	3
HIM	229	Performance Improvement in Health Care Settings	2
HIM	260	Pharmacology for HIT ¹⁰	2
HIM	232	Health Records Application II: Advanced Coding ¹¹	3
HIM	220	Health Statistics ⁷	2
HIM	290	Coordinated Internship ¹²	3
		Humanities Elective ⁸	3
		Total	18
		Program Total	65

¹Prerequisite: Course MUST be taken in the first semester

²Prerequisite: HIM 111

³Prerequisite: ITE 115

⁴Prerequisite: BIO 145 or BIO 141/142

⁵Pre-or-co-requisite: HIM 112

⁶Prerequisite: BIO 145 or BIO 141/142, HIM 112, HIM 250

⁷Prerequisite: HIM 141

⁸Student may select from elective list on page 40

⁹Prerequisite: Capstone course. Students complete internship
Project (20-40 hours)

¹⁰Prerequisite: HIM 110

¹¹Prerequisite: HIM 231

¹²Prerequisite: Instructor permission required

Certificate in Medical Administrative Assistant/Transcription

AREA: Medical Administrative Assistant/Transcription Certificate

LENGTH: Three semesters (one-year) program

PURPOSE: With an increasing demand for medical office assistants in Virginia, this certificate will prepare individuals for full-time employment upon completion of the community college program. The program is beneficial for individuals who are seeking first-time employment, career advancement or national certification.

OCCUPATIONAL OBJECTIVES: medical office assistant, medical reception, medical secretary, medical transcription or ward clerk

PROGRAM REQUIREMENTS: This program prepares the student to fill medical office assistant, medical secretary and medical transcription positions, and provides fundamental knowledge and skills associated with these medical careers. The curriculum includes courses in transcription, office technology, body structure and function and bio-ethics. Upon satisfactory completion of the program, the graduate is awarded a certificate in medical administrative assistant/transcription.

This certificate can be completed in three semesters (one year) if the following conditions are met:

- Placement tests indicate readiness to enroll in ENG 111.
- Students without keyboarding skill (or limited skill below 25 words per minute or computer skill) must enroll in AST 101 prior to entry in the program.
- Students are willing to enroll in day and evening classes.
- Grades of C or better are met in each required course.

Additional courses to enhance employment opportunities may include: (if 12 credits needed each semester)

ASL	101/102	American Sign Language I and II
AST	107	Editing and Proofreading
AST	205	Business Communications
HLT	215	Personal Stress/Stress Management
ITE	115	Computer Applications & Concepts
MDA	207	Medical Law & Ethics
SPA	101/102	Spanish I & II

Course#	Title	Credits
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First Semester (Summer)

BIO	145	Human Anatomy and Physiology for Health Sciences ¹	4
ENG	111	College Composition I	3
HIM	111	Medical Terminology I	3
SDV	101/100	Orientation to Health Professions	1
Total			11

Second Semester (Fall)

AST	102	Keyboarding II ² or AST 141 Word Processing I ³ or AST 215 Medical Keyboarding ³	3
AST	271	Medical Office Procedures I ³ or AST 243 Office Administration I ³ or AST 244 Office Administration II ³	3
HIM	112	Medical Terminology II ⁴	3
Total			9

Third Semester (Spring)

AST	142	Word Processing II ³	3
AST	206	Professional Development ³	3
AST	245	Medical Machine Transcription ⁵	3
HIM	230	Information Systems and Technology in Health Care ³ or AST 230 Introduction to Office Technology ³	3
Total			12

Program Total **32**

¹Equivalent: Completion of BIO 141 and BIO 142

²Prerequisite: AST 101 or equivalent skill

³Prerequisite: AST 102 or equivalent skill

⁴Prerequisite: HIM 111

⁵Prerequisite: HIM 111, HIM 112, BIO 145 (or BIO 141 & BIO 142)

*Note: MDA 203 Medical Office Procedures may be substituted for AST 171 Medical Office Procedures I

Internship opportunities and national certification exams may be available to certificate students/graduates.

Certificate in Medical Billing/Coding

AREA: Medical Billing/Coding
Certificate

LENGTH: Three semesters (one-year) program

PURPOSE: With an increasing demand for medical insurance billing and coding workers in professional offices in Virginia, this certificate will prepare individuals for full-time employment upon completion of the program. The program is beneficial for individuals who are seeking first-time employment, career advancement or national coding certification.

OCCUPATIONAL OBJECTIVES: medical billing assistant, medical coder or medical insurance specialist

PROGRAM REQUIREMENTS: The program prepares the student to fill medical billing and coding positions and provides fundamental knowledge and skills associated with insurance billing and coding. The curriculum includes courses in college composition, medical coding and reimbursement, and medical office bookkeeping and insurance. Prior to internships or student employment, satisfactory completion of criminal background search and drug screen may be required. Upon satisfactory completion of the program, the graduate will be awarded a certificate in medical billing/coding.

The certificate may be completed in three semesters (one year) if the following conditions are met:

- Placement tests indicate readiness to enroll in ENG 111.
- Students without keyboarding skill (or limited skill below 25 words per minute) must complete the prerequisite class AST 101 prior to enrolling AST 102 and AST 141.
- Students are willing to enroll in day and evening classes.
- Grades of C or better are met in each course completed.

Additional courses to enhance employment opportunities may include:

AST	142	Word Processing II
AST	205	Business Communications
MDA	207	Medical Law and Ethics
SPA	101/102	Spanish I & II

Course#	Title	Credits
First Semester (Fall)		
AST 102	Keyboarding II ¹ or AST 141 Word Processing I ²	3
BIO 145	Human Anatomy and Physiology for the Health Sciences ³	4
HIM 111	Medical Terminology I	3
SDV 101/100	Orientation to Health Professions	1
Total		11
Second Semester (Spring)		
ENG 111	College Composition I	3
HIM 112	Medical Terminology II ⁴	3
HIM 253	Health Records Coding ⁵	4
Total		10
Third Semester (Summer)		
AST 206	Professional Development ²	3
HIM 143	Managing Electronic Billing ⁶	3
HIM 254	Advanced Coding & Reimbursement ⁷	4
Total		10
Program Total		31

¹Keyboarding skill is required. Prerequisite: AST 101 or equivalent skill

²Prerequisite: AST 101 or AST 102 or equivalent skill

³Equivalent: Completion of BIO 141 and BIO 142

⁴Prerequisite: HIM 111

⁵Prerequisite: HIM 111 and BIO 145 or BIO 141 and BIO 142

⁶Prerequisite: HIM 253

⁷Prerequisite: HIM 112 and HIM 253

Internship opportunities and a national CPC certification exam may be available to certificate students/graduates.

Career Studies Certificate in Hospital Facility Coding

AREA: Hospital Facility Coding*

PURPOSE: To prepare individuals for full-time employment upon completion of the community college program. The program is beneficial for individuals seeking career advancement and the Certified Coding Specialist (CCS) national coding certification sponsored by American Health Information Management Association (AHIMA).

OCCUPATIONAL OBJECTIVES: Hospital facility coding specialist, medical coding assistant, medical billing specialist or medical insurance coding specialist.

PROGRAM REQUIREMENTS: This program prepares the student for inpatient and ambulatory surgery coding positions and provides course preparation for the CCS national certification. Prior to non-clinical internships or student employment, satisfactory completion of criminal background search and drug screen may be required. Upon satisfactory completion of the program, the graduate will be awarded a Career Studies Certificate in Hospital Facility Coding.

ACCEPTANCE PREREQUISITE:).*Must have completed the Medical Billing/Coding One Year Certificate program and/or have an active CPC certification or CPC or CPC-H (AAPC) certification or CCA certification (AHIMA).

ACCEPTANCE REQUIREMENTS: Requirements for admissions to the Hospital Facility Coding are specific and admission is selective and competitive. All admission requirements must be completed in order to be 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. Current information may be obtained from the Business and Technology Division.

1. Completion of LFCC application for admission
2. Completion of LFCC placement (ENG 111 eligibility required) and any recommended developmental course work
3. Completion of the following: Medical Billing/Coding One Year Certificate (graduate of the program); Active CPC or CPC-H certification (AAPC) or CCA (AHIMA) certification
4. Completion of the required OPAC assessments (Keyboarding, Ten-Key Pad and Computer Competency). If OPAC scores are below required skill levels, students will be required to successfully complete AST 101 Keyboarding I with a minimum of C prior to selection consideration for the program
5. Completion of application for admission to the

Hospital Facility Coding career studies certificate program

6. Submission to the Admissions and Records Office official transcripts of all postsecondary courses attempted or completed
7. Completion of criminal background search, fingerprinting and drug screen. Students are responsible for all costs of these requirements.
8. Documentation and proof of immunization record
9. Upon acceptance to the program, membership to AHIMA is recommended. Students are expected to take the CCS examination within six months of graduation (approximate \$325, subject to change)
10. Upon admission (acceptance) to the program, applicant understands that class tuition payments and textbook purchases are due prior to the first day of class each semester. Financial aid is not available for this program.

PROGRAM REQUIREMENTS:

Course#	Title	Credits
First Semester (fall)		
HIM 115	Ambulatory Coding and Classification	3
HIM 141	Fundamentals of Health Information Systems	3
HIM 260	Pharmacology for HIT	2
SDV 101	Orientation to Health Information Management ³	1
Total		9
Second Semester (spring)		
HIM 130	Health Information Systems ¹	3
HIM 265	Facility Based Medical Coding ²	3
HIM 290	Coordinated Internship ³ or HIM 296 On-Site Training ³	1
Total		7
Program Total		16

¹Prerequisite: AST 101 or AST 102 or instructor permission

²Prerequisite: HIM 115

³Instructor permission required

Recommendation: Career-seeking students are also encouraged to enroll in the medical administrative assistant/transcription one-year certificate and/or the health information management associate degree program.

Health Professions Degree and Certificates

All information subject to change. For the latest course information, access MY LFCC online at <http://www.lfcc.edu>. Information contained in this publication is current as of March 29, 2013.

Lord Fairfax Community College • <http://www.lfcc.edu>

Associate of Applied Science Degree in Emergency Medical Services

AREA: Emergency Medical Services

DEGREE: Associate of Applied Science Degree

LENGTH: Five semesters (two-year program)

PURPOSE: The 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 Paramedic exam. Purchase of clinical scheduling and skills tracking account through FISDAP.net (\$80) is required.

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

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 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 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 1-6 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.

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

Course#	Title	Credits
First Semester (Summer)		
EMS 111	Emergency Medical Technician Basic ¹	7
EMS 120	EMT-Basic Clinical ¹	1
BIO 145	Human Anatomy & Physiology for the Health Sciences ²	4
SDV 101/100	Orientation to Health Professions	1
Total		13

Second Semester (Fall)		
EMS 151	Intro to Advanced Life Support	4
EMS 153	Basic ECG Recognition	2
EMS 157	ALS – Trauma Care	3
EMS 170	ALS Internship	1
ENG 111	College Composition I	3
Total		13

Third Semester (Spring)		
EMS 155	ALS Medical Care	4
EMS 159	EMT-Special Populations	3
EMS 172	ALS Clinical Internship II	1
EMS 173	ALS Field Internship II	1
ITE 115	Intro to Computer Apps & Concepts ³	3
Total		12

Fourth Semester (Fall)		
EMS 201	EMS Professional Development	3
EMS 209	Advanced Pharmacology	4
EMS 211	EMS Operations	2
EMS 242	ALS Clinical Internship III	1
EMS 243	ALS Field Internship III	1
SOC	Social Science Elective ⁴	3
Total		14

Fifth Semester (Spring)		
EMS 205	Advanced Pathophysiology	4
EMS 207	Advanced Patient Assessment	3
EMS 244	ALS Clinical Internship IV	1
EMS 245	ALS Field Internship	1
HUM	Humanities Elective ⁵	3
	Health/Physical Education Elective ⁶	1
Total		13
Program Total		65

¹EMS 111 & 120 are not currently offered at LFCC. Contact the Lord Fairfax EMS Council for information regarding courses offered in the region. 540-665-0014.

²Student must complete BIO 145 or an equivalent (e.g. college level A & P with a lab) prior to enrolling in the 200 level EMS courses

³Student can also meet this requirement by passing the College's

Associate of Applied Science Degree in Emergency Medical Services

computer competency exam that is administered through the testing center.

⁴Recommended electives are courses with the following prefixes:

ECO, HIS, PLS, PSY, SOC

⁵Recommended electives are courses with the following prefixes:

ENG, HIS, and any language

⁶Can be met with any course with a HLT prefix

RN to Paramedic Bridge

AREA: RN to Paramedic Bridge

PURPOSE: This RN to Paramedic bridge curriculum does not involve a certificate or degree and is non-transferrable.

<u>Course#</u>	<u>Title</u>	<u>Credits</u>
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First Semester

EMS	201	EMS Professional Development	3
EMS	211	EMS Operations	2
EMS	242	ALS Clinical Internship II	1
EMS	243	ALS Field Internship III	1
		Total	7

Second Semester

EMS	207	Advanced Patient Assessment	3
EMS	244	ALS Clinical Internship IV	1
EMS	245	ALS Field Internship IV	1
		Total	5

		Program Total	12
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Associate of Applied Science Degree in Nursing

AREA: Nursing

DEGREE: Associate of Applied Science Degree

LENGTH: Four semesters

PURPOSE: The two-year Associate of Applied Science Degree Program in nursing is designed to prepare selected students to function as contributing members of the health care team, providing direct patient care as beginning practitioners of nursing in a variety of health care environments. Students who successfully complete the curriculum are awarded the Associate of Applied Science degree in nursing and are eligible to apply to take the National Council Licensure Examination (NCLEX-RN) leading to licensure as a registered nurse (RN). The Board of Nursing can deny licensure to any applicant who has filed false information and/or who has committed a felony/misdemeanor. (Certain health care facilities may not employ individuals who have committed certain criminal acts and may conduct criminal background checks before hiring potential employees).

The Associate Degree in Nursing (ADN) Program is designed to provide a base of general education from which the graduate will grow and develop as a contributing member of society. The curriculum also provides a background for maximum transfer opportunities to baccalaureate or masters programs. The ADN Program is an academically challenging program. The program is open to men and women who provide evidence of interest, motivation and aptitude in the area of health care. Students shall be selected on the basis of established criteria and without regard to age, race, creed, sex, or national origin. Students with disabilities, who meet the admission requirements, pass the physical exam and submit the physical examination form signed by their health care provider stating that they are able to perform as student nurses in the clinical setting are eligible for admission. It is the responsibility of the student to meet the physical requirements for state licensure. Lord Fairfax Community College does not discriminate on the basis of race, color, creed, religion, national origin, disability, age, or gender in their admission procedures.

OCCUPATIONAL OBJECTIVES: Employment opportunities for the graduate nurse include, but are not limited to, hospitals, long-term-care facilities, clinics, home health, health departments, primary care offices, day-care centers, civil service, military service, industry, private duty and community health services.

ADMISSION REQUIREMENTS: Requirements for admissions to the ADN Program are specific and admission is selective and competitive. All admission

requirements

must be completed by the fall prior to applying to the nursing program in order to be considered in the selection process. In all cases, the recommendation of the selection committee is the final determinant for admission to the nursing program. Current information may be obtained from the Division of Science and Health Professions or the LFCC Web site. All nursing applicants are strongly encouraged to attend a Nursing Application Information Sessions in order to receive the most up to date information.

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 competency in MTE 1-6 and place into ENG 111 to satisfy requirements without taking remediation.
3. Completion of:
 - a. Evidence of high school diploma or equivalent
 - b. High school chemistry or CHM 110 or CHM 101 with a minimum grade of C
 - c. High school biology or BIO 101 with a minimum grade of C
 - d. High school algebra or MTH 158 or higher with a minimum grade of C
 - e. Evidence of ITE 115 or computer competency IC3
 - f. Completion of Test of Essential Academic Skills (TEAS) admission examination (only available mid-November through the third week of March)
 - g. Completion of Nursing Program application with all required transcripts
 - h. Minimum grade point average of 2.5

PROGRAM REQUIREMENTS: Failure to meet requirements will be cause for administrative withdrawal of the student from the ADN Program.

1. Upon admission to the program a physical history and examination is required.
2. Completion of all required immunizations
3. American Heart Association CPR Certification as a Health Care Provider (to include adult, infant, and child).
4. Completion of criminal background search, fingerprinting and drug screen as required by the Virginia State Board of Nursing and affiliated clinical agencies.
http://www.dhp.virginia.gov/nursing/nursing_laws_regs.htm (54.1-3007. Refusal, revocation or suspension, censure or probation by VBON).
5. Completion of 68 credits with a minimum grade of C in all general education and nursing courses including a required preceptorship during NUR 222.

Associate of Applied Science Degree in Nursing

6. Transportation to and from the College and agencies used for clinical experiences.
7. Student is responsible for all fees charged for required testing, uniforms, books and criminal background search/drug screen.
8. Strict adherence to attendance and performance policies for classroom and clinical courses as outlined in the Nursing Student handbook and College catalog.
9. 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 her/his property arising out of agreement of use of facilities associated with the nursing program

ACCREDITATION: The Associate Degree Program is approved by the State Board for Community Colleges, the State Council of Higher Education for Virginia and the Virginia Board of Nursing.

First Semester (Acceptance into the ADN Program and prerequisite to NUR courses)

BIO 141	Anatomy and Physiology I	4
(must be completed within past 8 years, at the time of the application cycle)		
ENG 111	College Composition I	3
NUR 105	Nursing Skills	3
NUR 136	Principles of Pharmacology	2
HLT 130	Nutrition and Diet Therapy	2
PSY 230	Developmental Psychology	3
SDV 101	Orientation to the Health Professions	1
Total		18

Second Semester (Completion of all First Semester courses with grade of C or better prerequisite to NUR courses)

BIO 142	Anatomy and Physiology II	4
(must be completed within past 8 years, at the time of the application cycle)		
NUR 108	Nursing Principles and Concepts I	5
NUR 200	Essentials of Mental Health Nursing	3
NUR 226	Health Assessment	2
SOC 200/207	Principles of Sociology	3
Total		17

Summer Suggested Courses (may be taken earlier)

BIO 150	Introduction to Microbiology	4
(must be completed within past 8 years, at the time of the application cycle)		
Total		4

Third Semester (Completion of all Second Semester and summer courses with grade of C or better prerequisite to NUR courses)

CST 100/110	Principles of Public Speaking	3
NUR 180	Essentials of Maternal/Newborn Nursing	3
NUR 221	Second Level Nursing Principles & Concepts I	9
Total		15

Fourth Semester (Completion of all courses above and prerequisite to NUR courses)

NUR 222	Second Level Nursing Principles & Concepts II	9
NUR 255	Nursing Organizations and Management	2
PHI 220/227	Ethics /Bio-Medical Ethics	3
Total		14

Program Total **68**

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

TRANSFER STUDENTS: Students who wish to transfer into the LFCC Associate Degree Nursing Program are considered on a space-available basis. The following requirements must be satisfied in order for a student to be eligible for transfer into the program:

- Student must be in good standing with the current nursing program, eligible to continue during the next academic semester without any open issues of clinical competency, academic performance or student conduct.
- LFCC ADN general education requirements must be satisfied to the point of the curriculum at which the student requests transfers (e.g., third semester, fourth semester, etc.).
- Transfer and substitutions of nursing courses are subject to faculty evaluation of course syllabi and approval by the program leader; a minimum of 80% content overlap is required. The student must then validate knowledge retention with a grade of 80% or better on a faculty constructed comprehensive exam, and clinical competencies via laboratory and/or clinical experience. Other forms of evaluation (as deemed appropriate by the program lead) may be required prior to transferring.

Associate of Applied Science Degree: LPN Transition

AREA: Nursing

DEGREE: Associate of Applied Science Degree:
LPN Transition

LENGTH: Three semesters following completion of all prerequisite courses

PURPOSE: The LPN to ADN Transition is designed to prepare LPNs, with a current unrestricted license in the Commonwealth of Virginia, the opportunity to pursue a curriculum which will provide them with an Associate of Applied Science Degree and eligibility to take the National Council Licensure Examination (NCLEX-RN).

The LPN to ADN Transition is an academically challenging program. The program is open to men and women who provide evidence of interest, motivation and aptitude in the area of health care. Students shall be selected on the basis of established criteria and without regard to race, sex, color, national origin, religion, age, veteran status, political affiliation or disability. Students with disabilities, who meet admission requirements, pass the physical exam, submit the physical examination and are able to perform as student nurses in the clinical setting are eligible for admission. It is the responsibility of the student to meet the physical requirements for state licensure. Satisfactory background search, drug screen and fingerprinting are also required.

OCCUPATIONAL OBJECTIVES: Employment opportunities for the graduate nurse include, but are not limited to hospitals, long-term facilities, clinics, home health, health departments, physicians' offices, day care centers, civil service, military service, industry, private duty and community health services.

ADMISSION REQUIREMENTS: Requirements for admissions to the LPN to ADN Transition are specific and admission is selective and competitive. All admission requirements must be completed in order to be considered in the selection process. In all cases, the recommendation of the selection committee is the final determinant for admission to the nursing program.

1. Application to Lord Fairfax Community College
2. High school diploma or GED – Official transcripts must be forwarded to the Office of Health Professions
3. LFCC placement tests and completion of any developmental work that may be identified by the placement test. Must show competency in MTE 1-6 and ENG 111 to satisfy requirements without taking remediation.
4. Completion of:
 - STEP test

- High School chemistry or CHM 110 or CHM 101 with a minimum grade of C
 - High school biology or BIO 101 with a minimum grade of C
 - Minimum GPA 2.5
5. Completion of application for admission to the Associate Degree Nursing Program
 6. Official transcripts documenting graduation from an approved practical nursing program and evidence of a current unrestricted license in the Commonwealth of Virginia
 7. Completion of admission requirements with a grade of C or better by the fall prior to applying to the nursing program.
 8. Evident of computer competency exam, completion of ITE 115 or IC³ test and must be passed with a minimum of a C grade

PREREQUISITE COURSES

Course#	Title	Credits
SDV 101/100	College Success Skills for Health Professions	1
ENG 111	College Composition	3
CST 100	Principles of Public Speaking	3
PSY 230	Developmental Psychology	3
SOC 200	Principles of Sociology	3
PHI 220/227	Ethics/Bio-Medical Ethics	3
BIO 141	Anatomy & Physiology I	4
BIO 142	Anatomy & Physiology II	4
BIO 150	Microbiology	4
NUR 115**	LPN to ADN Transition	2
NUR 226**	Health Assessment	3

**Students must enroll in NUR 115 (LPN Transition) and NUR 226 (Health Assessment) during the summer semester prior to enrolling into the transition nursing program.

PROGRAM REQUIREMENTS:

Failure to meet requirements will be cause for administrative withdrawal of the student from the nursing program.

1. Completion of LFCC placement/diagnostic tests in math, reading and writing. Must demonstrate competency in MTE 1-6.
2. Physical history and examination – upon admission to the ADN Program.
3. Completion of all required immunizations
4. American Heart Association CPR Certification as a Health Care Provider (to include adult, infant, and child)
5. Completion of criminal background search, fingerprinting and drug screen as required and to the satisfaction of affiliating clinical agencies

Associate of Applied Science Degree: LPN Transition

6. Completion of all program requirements with a minimum grade of C in all general education and nursing courses including a required preceptorship during NUR 222
7. Transportation to and from the College and agencies used for clinical experiences
8. Student is responsible for all fees charged for required testing, uniforms, books and criminal background search and drug screen.
9. Strict adherence to attendance and performance policies for classroom and clinical courses
10. NUR 115 (2 credits) and NUR 226 (2 credits) are required of all Transition students the semester prior to entering the program.
11. 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 her/his property arising out of agreement of use of facilities associated with a nursing program
12. Upon acceptance into the Nursing program, the LPN to ADN Transition student receives 150 clinical hours per the licensure by credit agreement.

Third Semester (Spring)

NUR	222	Second Level Nursing Principles& Concepts II	9
NUR	255	Nursing Organization Management	2
NUR	200	Essentials of Mental Health Nursing	3
Total			14
Program Total			30

FULL-TIME VERSUS PART-TIME: The LPN to ADN Transition Program may be taken on a part-time basis. Students who must work or manage other responsibilities are encouraged to consider this option. All students have a total of two years to complete the program, which begins from the date of curricular enrollment. All part-time students must be enrolled in one course per semester to remain part time.

ACCREDITATION STATUS: The Associate Degree Nursing Program is approved by the Virginia Community College System and the Virginia Board of Nursing.

Course#	Title	Credits
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First Semester (Summer)

NUR	115	LPN Transition	2
NUR	226	Health Assessment	2
Total			4

Second Semester (Fall)

NUR	221	Second Level Nursing Principles & Concepts	9
NUR	180	Essentials of Maternal/Newborn Nursing	3
Total			12

Associate of Applied Science Degree in Dental Hygiene (VWCC)

AREA: Dental Hygiene

DEGREE: Associate of Applied Science Degree in Dental Hygiene (VWCC)

LENGTH: Five semesters program

PURPOSE: The curriculum 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.

Occupational objectives: A dental hygienist may practice in any of the following settings:

- Dental offices and dental clinics
- Federal, state, and local health departments
- Hospitals and nursing homes/home health organizations
- School districts or departments of education
- Educational programs for dental, dental hygiene, and dental assisting students
- Correctional facilities
- Private and public facilities for pediatric, geriatric, and other individuals/groups with special needs
- Health maintenance organization/managed care organizations.

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 our Health Technology Web site at: www.virginiawestern.edu/academics/SMH/Health/Dental In addition to the general admission requirements established for the College, entry into the Dental Hygiene Program requires:

1. Graduation from high school (HS) or satisfactory completion of the General Education Diploma (GED).

2. One unit each of high school or college biology and chemistry with a "C" or better.
3. Completion of BIO 141-142, Anatomy and Physiology with a grade of "C" or better by the end of the spring 2014 semester.
4. Applicants must receive an ENF 3 or English 111 placement recommendation is not achieved, applicants must 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: MTE 1, 2, 3, 4, 5, 6, 7, 8 and 9.
5. A grade of "C" or better is necessary in required high school/college units of math and science. (The applicant's high school or college (if applicable) cumulative grade point average (GPA) must be at least 2.5 and is based on at least 12 credit hours of college credit in a 12-month timeframe. The GPA is determined at the end of fall semester prior to admission. Priority consideration will be given to applicants with a cumulative high school and/or college grade point average of 3.0 or above.
6. Post-admission observation in a dental office or clinic.
7. Two letters of recommendation using VWCC format.
8. Completed Dental Hygiene Program application
9. Take the HOBET tests.

Prerequisites must be completed by the end of the Spring semester prior to beginning the program.

Admission to the Dental Hygiene Program is on a selective basis. All admission requirements must be completed prior to the selection process. In all cases, the recommendation of the Dental Hygiene Admissions Committee is the final determinant for admission to the program.

Admission Procedures: The Dental Hygiene program is open to qualified male or female applicants. Admission to the VWCC-LFCC joint venture distance program site in Middletown is offered to qualified applicants on a biennial basis during even-numbered years. Deadline for submitting complete application materials is February 15 for the upcoming academic year. If the number of qualified applicants falls below the maximum enrollment, the application deadline may be extended. Applicants should be aware that meeting the curriculum admission standards does not guarantee program admission. Applicants will be notified in writing of the action taken by the Dental Hygiene Admissions Committee in May. To qualify for consideration by the Dental Hygiene Admissions Committee, the applicant must submit a complete application which includes the following:

Associate of Applied Science Degree in Dental Hygiene (VWCC)

- Application to VWCC and, if applicable, the Joint Venture College;
- Dental Hygiene Program Application;
- Official transcripts of high school and all colleges attended. (Transcripts from VWCC and other Virginia community colleges are not required);
- Official record showing completion of GED, SAT/ACT scores (if applicable as noted above);
- Two letters of recommendation and two forms of evaluation from employers/former teachers using the format provided by VWCC. See the Web site at: <http://www.virginiawestern.edu/academics/SMH/health/dental>

It is required that applicants submit official high school transcripts, GED with scores, and all official college transcripts in one envelope to the VWCC Health Technology Information Office along with the VWCC application. Applicants are encouraged to apply early and see the VWCC Web site for information, evaluation, and advising regarding the program. Qualified applicants must complete the HOBET (Health Occupation Basic Entrance Test) at their own expense, which is nonrefundable, and be interviewed by the Dental Hygiene faculty.

It is strongly recommended that applicants with no dental assisting experience observe a dental hygienist for a minimum of one full workday to obtain a realistic view of the profession prior to application.

When enrollments must be limited for any curriculum (because the number of applicants exceeds 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.

In addition to normal student expenses (tuition, books, etc.) the Dental Hygiene Program requires an expenditure of over \$4,900 during the two-year program for uniforms, instruments, and special supplies. More than \$3,500 will be needed at the beginning of the first semester.

VWCC-LFCC Policy on infectious disease status:

Applicants who believe they are at risk of contracting an infectious disease should seek testing and counseling prior to making application to the dental hygiene program. Students engaged in patient care activities are encouraged to know their HIV and HBV status. Applicants who are HIV or HBV positive may wish to reconsider their career goals. They must consider:

1. The possibility they may become disabled during their dental education or early in their career;
2. The infectious hazards that certain aspects of dental practice may pose;
3. The possibility of barriers to training in certain invasive clinical activities that may be imposed while in dental hygiene school because of possible hazards to patients;
4. The cost of dental education given personal health and career uncertainties.

CURRICULAR ADMISSIONS STANDARDS

Applicants to the Dental Hygiene Program must have completed the following:

*Four units of high school English

*One unit each of high school or college biology and chemistry

*Algebra II or college equivalent

**A grade of C or better is necessary in required high school/college units of math and science.

The applicant's high school or college (if applicable) cumulative GPA must be at least 2.5 and is based on 12 credit hours of college credit in a 12-month timeframe. The GPA is determined at the end of the fall semester. Priority consideration will be given to applicants with a cumulative high school and/or college GPA of 3.0 or above. Applicants who are currently enrolled in high school must submit SAT or ACT scores. Priority consideration will be given to applicants with a combined (total) score of 900 on the SAT or a composite score of 18 or above on the ACT. Applicants who graduated from high school more than five years prior to date of application who have not attempted any college work will not be required to submit SAT/ACT scores. All applicants must take the health occupations basic entrance test (HOBET).

ESSENTIAL DENTAL HYGIENE FUNCTIONS

To successfully complete the clinical component of the program, the student must be able to perform all of the essential functions of a dental hygienist:

1. Communicate satisfactorily with clients, physicians, peers, family members and the health care team
2. See and hear adequately to note slight changes in the client's condition
3. Hear adequately to perceive and interpret various equipment signals
4. Demonstrate adequate eye/hand coordination for dexterity in manipulation of hand instruments and other equipment used in clinical practice
5. Use hands for fine manipulation
6. Manage the care of a client in a sudden emergency, including one-man CPR when necessary

Associate of Applied Science Degree in Dental Hygiene (VWCC)

7. Possess the visual acuity to correctly read handwritten orders, medication records, chart contents and provide safety for clients
8. Read, comprehend and apply knowledge from complex science and dental science texts

Despite the foregoing, a qualified person with a disability who can perform these essential functions with reasonable accommodation will be considered for admission along with other qualified applicants.

CLINICAL ENVIRONMENT: The applicants should realize that student dental hygienists are, by nature of the profession, exposed regularly to highly stressful and demanding situations, and organizational and time pressures in a variety of client care settings. In addition, student and practicing dental hygienists are routinely exposed to blood and body fluids.

ACADEMIC ENVIRONMENT: The academic environment is focused heavily on the sciences. Extensive reading is required in all classes, and courses are science based and academically challenging. Ability to apply knowledge and concepts across courses and the curriculum is necessary to master material. The ability to read and understand complex/scientific material is crucial to success, as is the ability to analyze written matter and express yourself coherently in written form. Applicants with weaknesses in reading, vocabulary, written expression and conceptualization are strongly urged to strengthen these areas prior to seeking admission. It is recommended that a medical terminology course be taken prior to admission.

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 tests are the responsibility of the student.
8. Consideration will be given to qualified LFCC applicants from the LFCC Service region for admission into the Virginia Western-Lord Fairfax Community College dental hygiene program.

POLICY FOR ACADEMIC RETENTION:

Continuation in the program: Satisfactory progress is demonstrated by achieving a grade of "C" or better in required dental hygiene and natural science courses. Students must satisfactorily complete NAS 185/BIO 150 with a grade of C or above before progressing to the second year of the program. Students must complete required dental hygiene courses in sequence. Should a student receive a grade of "D" in any dental hygiene didactic course or didactic component of a clinical or laboratory course, or the laboratory component of a preclinical or didactic course, the student will be dropped from the program and must reapply for admission. Should a student receive a grade of "D" in the clinical component of DNH 142, 190, 244 or 245 due to failure to meet minimum clinical requirements for the semester, the student may progress to the next semester of the program with faculty approval and will have additional patient requirements for graduation added. Two

Associate of Applied Science Degree in Dental Hygiene (VWCC)

consecutive “D” grades in these clinical courses may result in the student being dropped from the program.

READMISSION: Readmission to the program will be based upon academic performance and adherence to the program policies regarding attendance and professionalism and will be contingent upon available laboratory/clinical space.

Readmission is not guaranteed. Students who have been dropped must submit a written application for readmission to the program head no later than January 1 for the following fall semester, no later than April 1 for the following spring semester and no later than August 1 for the following summer session. The program head will present the readmission request to the faculty for consideration. Students applying for readmission will be notified of their admission status in writing.

Students readmitted to the program are eligible to repeat a course only once, and a dental hygiene course must be repeated during the semester in which it is offered. The student may not continue with other required dental hygiene courses until the course is repeated. Students earning a grade of “F” in any dental hygiene course will be dropped from the program and are ineligible for readmission unless there are extenuating circumstances (serious illness or death of an immediate family member).

CURRICULUM AND OTHER REQUIREMENTS GENERAL EDUCATION CORE COURSES

BIO 141-142*	Human Anatomy & Physiology I-II	8
ENG 111*	College Composition I	3
NAS 185*	Microbiology	4
PSY 230	Developmental Psychology	3
SDV 100/101	College Success Skills	1
E ³	Humanities/Fine Arts Elective	3

DENTAL HYGIENE COURSES

DNH 111	Oral Anatomy	2
DNH 115	Histology/Head & Neck Anatomy	3
DNH 120	Management of Emergencies	2
DNH 130	Oral Radiography for Dental Hygienist	2
DNH 141-142*	Dental Hygiene I-II	10
DNH 145*	General and Oral Pathology	2
DNH 146	Periodontics for the Dental Hygiene	2
DNH 1501	Nutrition	2
DHN 190*	Coordinated Practice	3
DNH 2142	Practical Materials for Dental Hygienist	2
DNH 216	Pharmacology	2
DNH 226-227 ²	Public Health Dental Hygiene I-II	3
DNH 230	Office Practice and Ethics	1
DNH 235*	Manage of Dental Pain & Anxiety	2
DNH 244-245*	Dental Hygiene IV-V	10
Total Minimum Credits for Degree		70

¹Health and wellness are emphasized throughout the dental hygiene program, but specifically in DNH 150 Nutrition.

²Includes instruction in fundamental mathematical skills.

³Humanities/Fine Arts elective must be chosen from the “Approved List of Humanities Transfer Courses.” If planning on transfer, contact the four-year institution for requirements.

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

SUGGESTED SCHEDULE

FIRST YEAR

FALL	SPRING	SUMMER
DNH 111	DNH 142	DNH 150
DNH 115	DNH 145	DNH 190
DNH 120	DNH 146	ENG 111
DNH 130	NAS 185 (or BIO 150)	DNH 235
DNH 141		
SDV 100 or SDV 101		

SECOND YEAR

FALL	SPRING
DNH 214	DNH 227
DNH 226	DNH 230
DNH 244	DNH 245
PSY 230	Humanities/Fine Arts Elective

NOTE: BIO 141 and BIO 142 must be completed by the spring semester prior to program entry. Support courses (non-DNH courses) may be taken prior to entry. BIO 141, BIO 142, and NAS 185/BIO 150 must be repeated if they were completed more than five years prior to the date of admission into the program.

Course#	Title	Credits
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First Semester

DHN 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	2
DNH 141	Dental Hygiene I	5
SDV 100	College Success Skills (or SDV 108)	1
Total		15

Second Semester

DNH 142	Dental Hygiene II	5
DNH 145	General and Oral Pathology	2
DNH 146	Periodontics for the Dental Hygienist	2
DNH 216	Pharmacology	2
NAS 185	Human Biology	4
	or	
BIO 150	Introductory Microbiology	
Total		15

Associate of Applied Science Degree in Dental Hygiene (VWCC)

Third Semester

DNH	150	Nutrition ¹	2
DNH	190	Coordinated Practice	3
ENG	111	College Composition I	3
DNH	235	Management of Dental Pain and Anxiety in the Dental Office	2
		Total	10

Fourth Semester

DNH	214	Practical Materials for Dental Hygiene ²	2
DNH	226	Public Health Dental Hygiene I	2
DNH	244	Dental Hygiene IV	5
PSY	230	Developmental Psychology ³	3
		Total	12

Fifth Semester

DNH	227	Public Health Dental Hygiene II	1
DNH	245	Dental Hygiene V	5
		Humanities/Fine Arts Elective ⁴	3
DNH	230	Office Practice and Ethics	1
		Total	10

Program Total 70*

*Includes BIO 141 and BIO 142 which must be completed prior to program entry.

¹Health and Wellness are emphasized throughout the dental hygiene program but specifically in DNH 150 nutrition.

²Includes instruction in fundamental mathematical skills.

³PSY 231 and PSY 232 may be substituted for PSY 230.

⁴Humanities/Fine Arts elective must be chosen from the "Approved List of Humanities Transfer Courses" on page 39.

*Support courses (non-DNH courses) may be taken prior to entry

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

Certificate in Health Science

AREA: Health Science
Certificate

LENGTH: Two semesters (30 credits)

PURPOSE: The Health Science Certificate is designed to create a pathway into a Health related Profession. Successful completion of this certificate will strengthen the academic record of students applying for the nursing program, dental hygiene program, surgical technology, practical nursing as well as future health related programs.

OCCUPATIONAL OBJECTIVES: creates a pathway into a health related profession; such as, nursing, dental hygiene, emergency medical services, phlebotomy, surgical technology, medical billing and coding or medical secretary.

PROGRAM REQUIREMENTS: The Health Science Certificate consists of 30 credits and serves as a guide for preparing the student to enter a health professions program.

Course#	Title	Credits
SDV 101/100	Orientation to Health Professions	1
ENG 111	College Composition I	3
BIO 141	Anatomy and Physiology I	4
BIO 142	Anatomy and Physiology II	4
BIO 150	Microbiology	4
HIM 111/	Medical Terminology I 1 st 8 weeks *	6
112	Medical Terminology II 2 nd 8 weeks*	
	Electives ¹	8
	Total	30

¹Electives: select from PSY 230, PSY 200, SOC 200, SOC 207, MTH 126, PHI 227, CST 100, HLT 130.

HLT 140* is a DE course and may be selected as an elective for the Health and Science Certificate.

*May also be taken as a 16-week course.

Certificate in Practical Nursing

AREA: Practical Nursing
Certificate

LENGTH: Three semesters (one-year) program.

PURPOSE:

The Practical Nursing curriculum 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.

Practical Nursing is an academically rigorous program. The Practical Nursing Program is open to men and women who provide evidence of interest, motivation, and aptitude in the area of health care. Students shall be selected on the basis of established criteria and without regard to age, race, creed, sex, or national origin. Students with disabilities who meet the admission requirements, including a medical history and physical examination signed by a physician stating that the student is able to perform as a student nurse in a clinical setting are eligible for admission.

OCCUPATIONAL OBJECTIVES: Opportunities for the Licensed Practical Nurse (L.P.N.) include employment in hospitals, nursing homes, clinics, day-care centers, Civil Service, doctors' offices, rehabilitation facilities, industry, the military, home health, and private duty nursing.

ADMISSION REQUIREMENTS:

Requirements for admission into the PN Program are specific and admission is selective and competitive. All admission requirements **must be completed by the Fall semester, prior to the application period, which occurs in the Spring of each year**, to be considered in the selection process. In all cases, the recommendation of the selection committee is the final determinant for admission to the Nursing program. All nursing applicants are strongly encouraged to attend a Nursing Application Information Session to receive the most up to date information regarding the program and changes in requirements.

In addition to the general admission requirements established for the College, entry into the Practical Nursing program requires:

1. Application to Lord Fairfax Community College (LFCC)
2. LFCC placement tests and completion of any developmental work that may be identified by the placement tests. Applicant must show competency in

MTE 1-6 and readiness for ENG 111 to satisfy requirements without taking remediation.

3. Completion of specific Practical Nursing Program admission requirements
 - a. High school Algebra or MTE 158 or higher with a minimum grade of C
 - b. High school Biology or BIO 101 with a minimum grade of C
 - c. Completion of the Test of Essential Academic Skills (TEAS). Only available mid-November thru the third week of March
 - d. Completion of ITE 115, with a grade of C or higher, or evidence of successful completion of computer competency IC3.
 - e. Students must have a GPA of 2.5 to be considered for admission
 - f. High school diploma or GED-official transcripts must be submitted with the nursing application

The nursing law of Virginia addresses criteria for application for licensure. The Virginia Board of Nursing has the power to deny opportunity to procure license through testing if the applicant has willfully committed a felony/misdemeanor under the laws of the Commonwealth of Virginia or of the United States. Additional information regarding the Virginia Board of Nursing and its licensure requirements can be found at www.VBON.com. Any student entering the nursing program who has committed any illegal offenses other than minor traffic violations is encouraged to discuss these matters with the Virginia Board of Nursing for clarification prior to admission. Some health care facilities may not employ individuals who have committed certain criminal acts and may conduct criminal background checks before hiring potential employees.

PROGRAM REQUIREMENTS:

Failure to meet all requirements will result in administrative withdrawal of the student from the Practical Nursing program. Upon acceptance into the PN Program, the following requirements are the responsibility of the student:

1. Completion of a physical examination and all required immunizations. Applicants must be free of any physical and/or mental condition which might adversely affect their performance as nurses
2. Current certification in CPR (American Heart Association CPR for Health Care Provider (adult, infant and child))
3. Completion of criminal background search, fingerprinting, and drug screen as required and to the satisfaction of affiliating clinical agencies

Certificate in Practical Nursing

4. Complete a minimum of 48 credits with a C average or better in all courses
5. Completion of a minimum of 48 credits with a C average or better in all general education and nursing courses, to include the Preceptorship clinical experience in PNE 164.
6. 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 C or better.
7. Transportation to and from classes and to agencies used for clinical experiences
8. Student is responsible for all fees charged to required testing, liability insurance, uniforms, books, criminal background search, drug screen.
9. 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 her/his property arising out of agreement or use of facilities associated with the Practical Nursing Program
10. Strict adherence to attendance and performance policies for classroom and clinical courses as outlined in the Nursing Student Handbook and College Catalog.

Program of Study

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

Course#	Title	Credits
First Semester (Fall)		
BIO 145	Human Anatomy and Physiology for the Health Sciences **	4
ENG 111	College Composition I**	3
PNE 161	Nursing in Health Changes I*	6
PNE 174	Applied Pharmacology for Nurses*	2
PSY 230	Developmental Psychology**	3
SDV 101/100	Orientation to Health Professions	1
Total		19

* Formal Acceptance into the Practical Nursing Program is required before registering for PNE classes

**ENG 111, BIO 145 or BIO 141 & BIO 142 (BIO 141 & BIO 142 are strongly encouraged for nursing students and are required for continuing nursing education) and PSY 230 must be completed with a "C" or better before enrolling in the Spring Semester PNE Courses

Second Semester (Spring)

HLT 130	Nutrition and Diet Therapy	2
PNE 136	Care of Maternal Newborn and Pediatric Patients	4
PNE 162	Nursing in Health Changes II***	11
Total		17

***PNE 162 is a Prerequisite for PNE 145, 158, 164, & 175

Third Semester (Summer)

PNE 145	Trends in Practical Nursing	1
PNE 158	Mental Health/Psychiatric Nursing	1
PNE 164	Nursing in Health Changes IV	10
PNE 175	Introduction to Supervision & Management for Practical Nurses	1
Total		13

Program Total 49

*The following courses may be completed prior to acceptance into the Practical Nursing Program: SDV 101/100, ENG 111, BIO 145 or BIO 141 & BIO 142 (BIO 141 & BIO 142 are strongly encouraged for nursing students and are required for continuing nursing education), PSY 230, HLT 130. All Science courses must be completed within the last 8 years of applying to the program.

TRANSFER STUDENTS

Students who wish to transfer into the LFCC Practical Nursing Program are considered on a space-available basis. The following requirements must be satisfied in order for a student to be eligible for transfer into the program:

- Student must be in good standing with the current nursing program and eligible to continue during the next academic semester without any open issues of clinical competency, academic performance or student conduct.
- LFCC Practical Nursing Program entrance requirements must be satisfied.
- LFCC Practical Nursing general education requirements must be satisfied to the point of the curriculum at which the student requests transfers (e.g., second semester, third semester, etc.).
- Transfer and substitutions of nursing courses are subject to faculty evaluation of course syllabi and approval by the program leader; a minimum of 80% content overlap is required. The student must then validate knowledge retention with a grade of 80% or better on a faculty constructed comprehensive exam, and clinical competencies via laboratory and/or clinical experiences.

Certificate: Surgical Technology

AREA: Surgical Technology Certificate

LENGTH: Three semesters (one year)

PURPOSE:

The Surgical Technology Program of 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.

Surgical technologists are integral members of the surgical team who work closely with surgeons, anesthesiologists, registered nurses and other personnel delivering patient care before, during and after surgery. 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 setting 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 regards 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 LFCC application for admission
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 1-6 and readiness for ENG 111 to satisfy requirements without taking remediation.
4. Completion of high school Biology with a grade of C or better
5. Completion of a Surgical Technology Program application
6. Completion of an operating room observational experience as scheduled by the Surgical Technology clinical instructor
7. Completion of Physical exam and CPR certification after accepted into the program
8. Completion of HOBET test
9. Completion of criminal background search, finger printing, drug screen, and physical screening as required to the satisfaction of affiliating clinical agencies
10. 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:

1. Completion of all admission requirements listed above
2. Consideration of the following factors in order of priority

For 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.

For 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)

Certificate: Surgical Technology

For applicants with no previous college 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 a science 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

ACCREDITATION STATUS: Attention: LFCC is applying for accreditation; however, this does not guarantee accreditation will be awarded.

Course#	Title	Credits
First Semester		
HIM 111	Medical Terminology	3
BIO 141	Anatomy & Physiology I	4
SUR 140	Introduction to Surgical Care	4
SUR 145	Fundamentals of Surgical Care I	4
Total		15
Second Semester		
BIO 142	Anatomy & Physiology II	4
SUR 250	Surgical Pharmacology	2
SUR 210	Surgical Procedures	8
SDV 101	Orientation for Health Professions ¹	1
Total		15
Third Semester		
ENG 111	College Composition I	3
BIO 150	Microbiology	4
SUR 260	Surgical Technology Clinical Practicum	6
SUR 296	On-Site Training *	3
Total		16
Program Total		46

¹SDV 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 cases in the second scrub role.

Career Studies Certificate: Central Service Technology

AREA: Central Service Technology

Central Service technicians are trained in principles, methods and control of sterilization processes; and the cleaning, processing, packaging, distributing, storing and inventory of sterile goods, instruments, trays and equipment.

LENGTH: Two semesters (Fall and Spring)

PURPOSE: The central service technology program is designed to prepare students to provide support to all patient care services in the health care facility. They are responsible for decontaminating, cleaning, processing, assembling, sterilizing, storing and distributing the medical devices and supplies needed in patient care, especially during surgery.

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 competency in MTE 1-3 and ENG 111 to satisfy requirements without taking remediation.
3. High school diploma or GED official transcripts must be forwarded to the Health Career Office (Room 107 – Tina Putman)
4. Students must have a minimum GPA of 2.5 to be considered for admission.
5. Completion of physical examination, including an eye examination and all required immunizations. Applicants must be free from physical or mental conditions which might adversely affect their performance.
6. Current certification in CPR (American Heart Association CPR for Health Care Provider –Adult, infant, and child
7. Return completed and signed Central Service Technology Career Studies Certificate application to the Health Science Division office.
8. An interview will be scheduled with the Central Service Technology instructor after the May 1 application deadline.
9. Completion of criminal background search, finger printing, drug screen, and physical screening as required to the satisfaction of affiliating clinical agencies.
10. All fees charged for required testing, liability insurance, books, uniforms, criminal background search, drug screen, and physical screen are the responsibility of the students.

PROGRAM REQUIREMENTS:

<u>Course#</u>	<u>Title</u>	<u>Credits</u>
First Semester (Fall)		
SUR 130	Introduction to Central Services	3
SUR 135	Infection Control	2
HIM 111	Medical Terminology I	3
	Total	8
Second Semester (Spring)		
SUR 235	Fundamentals of Central Services	3
SUR 230	Clinical Applications*	5
	Total	8
	Program Total	16

*Clinical Applications: 100 clinical hours needed which will be applied to the required 400 clinical hours required to take the certification examination for CRST Certification.

Career Studies Certificate: Emergency Medical Technician-Advanced EMT (AEMT)

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. 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 1-6 and readiness for 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.

AREA: Advanced EMT (AEMT)

EMT certificate courses must be taken in the prescribed sequence, which begins in the fall semesters. Interested students should apply to the Division of Science and Health Professions at the Middletown Campus prior to the April 30 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.

Course#	Title	Credits
First Semester		
EMS 111*	Emergency Medical Technician	7
EMS 120*	EMT-Basic Clinical	1
	Total	8
Second Semester		
EMS 151	Introduction to Advanced Life	4
EMS 170	ALS Internship	1
	Total	5
	Program Total	13

*EMS 111 and EMS 120 are not currently offered at LFCC. Contact the Lord Fairfax EMS Council for information regarding courses in the region 540-665-0014.

Career Studies Certificate: Emergency Medical Technician-Intermediate

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. 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 1-6 and readiness for 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.

AREA: Emergency Medical Technician-Intermediate

EMT certificate courses must be taken in the prescribed sequence, which begins in the fall semesters. Interested students should apply to the Division of Science and Health Professions at the Middletown Campus prior to the April 30 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.

Course#	Title	Credits
First Semester		
EMS 111*	Emergency Medical Technician	7
EMS 120*	EMT-Basic Clinical	1
	Total	8
Second Semester		
EMS 151	Introduction to Advanced Life	4
EMS 170	ALS Internship	1
EMS 153	Basic ECG Recognition	2
EMS 157	ALS-Trauma Care	3
	Total	10
Third Semester		
EMS 155	ALS-Medical Care	4
EMS 159	ALS-Special Populations	3
EMS 172	ALS- Clinical Internship II	1
EMS 173	ALS-Field Internship II	1
	Total	9
	Program Total	27

*EMS 111 and EMS 120 are not currently offered at LFCC. Contact the Lord Fairfax EMS Council for information regarding courses in the region 540-665-0014.

Career Studies Certificate: Home Health Technician

AREA: Home Health Technician

PURPOSE: The Career Studies Certificate in Home Health Technician is designed to enhance skills of Certified Nurse Assistants for the specific demands of home health assistance. Students that possess a CNA license will be awarded four credits for their licensure

Admission Requirements:

1. Students should be 18 years of age to register
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. Must show competence in MTE 1-3 and readiness for ENG 111 to satisfy requirement without taking remediation.
4. Must be a currently certified CNA.
5. Students required to have a background check and a drug screen. Must complete health and physical forms. Failure to pass either will prevent student from clinical requirements which may prevent student from continuing course.

<u>Course#</u>	<u>Title</u>	<u>Credits</u>
First Semester		
NUR 27	Nurse Aide	4
Second Semester		
NUR 29	Home Health Aide	3
NUR 31	Advanced Skills for Nurse Aide	3
Total		10

Career Studies Certificate: Personal Training and Group Exercise Leadership

AREA: Personal Training and Group Exercise Leadership

PURPOSE: The Career Studies Certificate in Personal Training and Group Exercise Leadership is to 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.

Course#	Title	Credits
First Semester		
BIO 145	Anatomy/Physiology for the Health Sciences	4
PED 101	Fundamentals of Physical Activity	2
HLT 116	Introduction to Personal Wellness Concepts	2
PED	PED Elective(s)*	1
	Total	9
Second Semester		
HLT 130	Nutrition and Diet Therapy	2
HLT 206	Exercise Science	3
PED 298	Seminar and Project	1
PED	PED Elective(s)*	1
	Total	7
	Program Total	16

*Student may choose to take 2-1 credit PED courses or 1-2 credit PED course to fulfill elective requirements.

Career Studies Certificate: Phlebotomy

AREA: Phlebotomy

Phlebotomy certificate courses must be taken in the prescribed sequence. Interested student should apply to the Division of Business, Technology, Science and Health Professions at the Middletown campus, at least six weeks before classes start in order to complete required background screening, health forms, and program application. Students must have current certification in Cardiopulmonary Resuscitation (American Heart Association Health Care Provider Course). A copy of the CPR card must be approved by program faculty at the start of the fall term.

LENGTH: Two semesters (Fall and Spring)

PURPOSE: The phlebotomy program is designed to prepare students to work as entry-level phlebotomists. The curriculum includes learning experiences in both on-campus and College-affiliated clinical laboratories. The program includes student participation in over 100 hours of supervised, clinical experience in various health care settings. Lectures and laboratory courses are offered at the Middletown Campus only. Students complete clinical rotations in a variety of clinical facilities located throughout the College's service region. Phlebotomists work 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
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. Must show competence in MTE 1-6 and readiness for ENG 111 to satisfy requirement without taking remediation.
4. Graduation from high school or satisfactory completion of general education development (GED); official copy required
5. Students will need to complete and pay for background screen
6. Students need to complete health forms which include a physical, proof of various immunizations and a TB skin test
7. Students must have current CPR from American Heart Association Health Care provider
8. Must be accepted in Phlebotomy program

PROGRAM REQUIREMENTS:

Course#	Title	Credits
First Semester (Prior to taking MDL 105)		
BIO 145	Basic Anatomy and Physiology for the Health Sciences	4
HIM 111	Medical Terminology I	3
ITE 115	Introduction to Computer Applications and Concepts	3
Second Semester (Summer or Fall only)		
MDL 105	Phlebotomy	3
Third Semester (Fall or Spring only)		
MDL 106	Clinical Phlebotomy	4
Program Total		17

Nursing Assistant

AREA: Nursing Assistant

The nursing assistant curriculum is designed to prepare individuals with the knowledge and skills to care for patients of all age groups and to qualify as contributing members of the health care team. Upon completion of the course, graduates are eligible to apply to take National Nurse Aide Assessment Program (NNAAP). This course includes 3 credits of lecture and 1 credit of lab.

Course#	Title	Credits
NUR 27	Nurse Aide	4
	Total	4

LENGTH: One semester

OCCUPATIONAL OPPORTUNITIES: Opportunities for the Certified Nurse Aide (CNA) include employment in hospitals, nursing homes, clinics, day-care centers, doctors' offices, rehabilitation facilities, industry and private duty nursing.

CLASS STRUCTURE: The course includes both class-room 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 course of study 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.

APPLICATION PROCESS:

1. Students must be 18 years of age
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. Must show competence in MTE 1-3 and readiness for ENG 111 to satisfy requirement without remediation.
4. Must attend a NEW student registration
5. Register for NUR 27 class
6. Required to have a background and a drug screen. Must complete a health and physical form. Failure to pass either will prevent student from clinical requirements which may prevent student from continuing this course.

Information Systems Technology Degrees and Certificates

All information subject to change. For the latest course information, access MY LFCC online at <http://www.lfcc.edu>. Information contained in this publication is current as of March 29, 2013.

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Associate of Applied Science Degree in Information Systems Technology

AREA: Information Systems Technology

DEGREE: Associate of Applied Science Degree

LENGTH: Four semesters (two-year) program

PURPOSE: The associate of applied science degree program (AAS) in (IST) is designed for students who seek employment or professional development as a generalist in the area of information technology (IT), with specific knowledge in various areas such as Web design/development, computer network design and administration and database administration. These specialized areas are gained by completing one or more career studies certificates which can be applied as the approved IT electives in the IST degree program.

OCCUPATIONAL OBJECTIVES: The associate of applied science degree curriculum in prepares students for employment with business, industry and government organizations as entry-level Web applications developers, network engineers or database administrators, depending on degree specialization.

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 to a four-year college or university should explore opportunities with their advisor.

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 one or more of the following:

AST 101	Keyboarding	3 credits
ITE 115	Intro to Computer Applications and Concepts	3 credits

Course#	Title	Credits
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First Semester

ENG 111	College Composition I	3
ITD 110	Web Page Design I	3
ITD 130	Database Fundamentals	3
ITN 109	Internet and Network Foundations	3
MTH 151/152	Math for Liberal Arts (or MTH 163 or 271) ¹	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 106	Microcomputer Operating Systems	3
ITP 100	Software Design	3
MTH 151/152	Math for Liberals Arts (or MTH 271 or 272) ¹	3
ECO 201/202	Principles of Macro/Microeconomics	3
Total		18

Third Semester

	Approved Social Science Elective ²	3
CST 100/110	Principles of Public Speaking/Intro to Speech Communication/ or	3
ENG 115	Technical Writing ³	
	Approved IT Elective ⁴	3
	Approved IT Elective ⁴	3
	Approved IT Elective ⁵	3
PED/HLT	Physical Education or Health	1
Total		16

Fourth Semester

	Approved IT Elective ⁴	3
	Approved IT Elective ⁴	3
	Approved IT Elective ⁴	3
ITP 251	Systems Analysis and Design	4
	Approved Humanities Elective ⁶	3
Total		16

Program Total **66**

¹Students planning to transfer to a four-year college are encouraged to take MTH 163 or MTH 271/272.

Associate of Applied Science Degree in Information Systems Technology

²Students may select social science elective from approved list on Page 40. *Students pursuing the Bachelor of Applied Science degree at George Mason University are encouraged to take HIS 112 as their LFCC social science elective.*

³Students pursuing the Bachelor of Applied Science degree at George Mason University are encouraged to take CST 100 or CST 110 to satisfy the Oral Communications requirement at GMU. ENG 115 will satisfy the IST degree requirement for LFCC.

⁴Students are encouraged to satisfy the Approved IT Electives by completing one or more Career Studies Certificates (CSC). Students are encouraged to select courses within the "Specialist" CSC and then, when appropriate continue within the "Professional" CSC for a specific area. The following Career Studies Certificates are available: Cyber Security, Database Administration Specialist, Networking Specialist, Networking Engineering Professional, Software Development, Web Design Specialist and Web Applications Development Professional. 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.*

⁵Suggested courses for this IT elective: ITD 112, ITD 132, ITN 107, ITP 112, ITP 120 or other IT course with advisor approval.

⁶Students may select humanities elective from approved list on page 40.

Career Studies Certificates

The IST Program consists of a number of career studies options that focus on a specific career field in information technology (IT). These programs are appropriate for students earning the IST degree as a means of satisfying the IT electives to obtain a specialized, focus area of expertise.

The career studies certificates listed here provide students with opportunities to gain skills in designing, building, testing and maintaining Web pages, links and interfaces to Web-enabled applications; designing, implementing, troubleshooting and maintaining databases; and/or designing, installing, administering and repairing computer networks; explore the various aspects of cyber security; and to develop and enhance their software development skills.

Before entering a career studies program, students should have a strong foundation in using computer applications (ITE 115 course description in the back of this catalog). Students should also have a strong foundation in computer concepts to include database fundamentals, Internet and networking fundamentals, operating systems, software design and computer hardware troubleshooting prior to beginning the program. The "Information Technology Foundations" career studies certificate is designed to provide this fundamental background. Students that already have prior experience or coursework in the related IT field should consult with an academic advisor for possible waiver or advanced placement.

Courses in a career studies certificate program that are not already required in the IST degree can be applied as "Approved IT Electives" in the degree program in consultation with your advisor.

To satisfy the IST degree requirements, students are encouraged to select courses within the "Specialist" career studies certificate and then, when appropriate, continue within the "Professional" career studies certificate for a specific area. Students must also formally complete an "Application for Graduation" for both the Career Studies Certificates and the degree upon completion of the courses required for the CSC and the degree upon graduation.

The courses in the Career Studies Certificate programs are directly related to the IST degree. Students should refer to semester in which a particular course is offered in the degree curriculum for guidance as to when courses are generally offered. Courses appearing in either the first or third semester are typically offered in the fall semester. Courses appearing in either the second or fourth semesters are typically offered in the spring semester.

AREA: Cyber Security

ITN	260	Network Security Basics	3
ITN	261	Network Attacks, Computer Crime, and Hacking	3
ITN	262	Security Communication, Security, and Authentication	3
ITN	263	Internet/Intranet Firewalls and E-Commerce Security	3
ITN	267	Legal Topics in Network Security	3
SDV	101	Orientation to the IT Professions	1
Total			16

AREA: Database Administration Specialist

ITD	130	Database Fundamentals	3
ITD	132	Structured Query Language	3
ITD	134	PL/SQL Programming	3
ITD	250	Database Architecture and Administration	3
ITP	100	Software Design	3
SDV	101	Orientation to IT Professions	1
Total			16

AREA: Information Technology Foundations

ITE	120	Principles of Information Systems	3
ITP	100	Software Design	3
ITD	130	Database Fundamentals	3
ITN	109	Internet and Network Foundations	3
ITD	110	Web Page Design I	3
ITN	106	Microcomputer Operating Systems	3
ITP	160	Introduction to Game Design and Development	3
SDV	101	Orientation to the IT Professions	1
Total			22

AREA: Networking Specialist

ITN	106	Microcomputer Operating Systems	3
ITN	107	Personal Computer Hardware and Troubleshooting	3
ITN	109	Internet and Network Foundations	3
ITN	200	Administration of Network Resources	3
ITN	260	Network Security Basics	3
SDV	101	Orientation to the IT Professions	1
Total			16

AREA: Networking Engineering Professional*

ITN	120	Wireless Network Administration	3
ITN	170	Linux System Administration	3
ITN	201	Network Infrastructure Administration, Management and Planning	3
Total			9

***NOTE:** Students should complete the course work in the networking specialist career studies certificate or have equivalent job-related experience before entering into the networking engineering professional career studies certificate program.

Career Studies Certificates

AREA: Software Development

ITP	100	Software Design	3
ITP	112	Visual Basic. NET 1	4
ITP	120	Java Programming I	4
		Programming elective (Choose from: ITD 134, ITP 160, ITP 225)	3
		Advanced Programming Elective (Choose from: ITP 212, ITP 220)	4
SDV	101	Orientation to the IT Professions	1
		Total	19

AREA: Web Design Specialist

ITD	110	Web Page Design I	3
ITD	112	Designing Web Page Graphics	3
ITD	130	Database Fundamentals	3
ITD	210	Web Page Design II	3
ITN	109	Internet and Network Foundations	3
SDV	101	Orientation to the IT Professions	1
		Total	16

AREA: Web Applications Development Professional*

ITD	132	Structured Query Language	3
ITD	220	E-Commerce Administration	3
ITN	224	Web Server Management	3
ITN	260	Network Security Basics	3
ITP	225	Web Scripting Languages	4
		Total	16

***NOTE:** Students should complete the course work in the Web design specialist career studies certificate or have equivalent job-related experience before entering into the Web application development professional career studies certificate program.

Other Certificates

All information subject to change. For the latest course information, access MY LFCC online at <http://www.lfcc.edu>

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Certificate in Administration of Justice

AREA: Administration of Justice

DEGREE: Certificate

LENGTH: Two semesters (one-year) program

PURPOSE: This certificate program incorporates a broad scope of classes which focus on the criminal justice system as a whole and includes pertinent general education classes. The Administration of Justice certificate program opens multiple career paths in the criminal justice 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.

OCCUPATIONAL OBJECTIVES: Students completing The Administration of Justice 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.

TRANSFER GUIDELINES: Students completing this program may choose to transfer to another community college to complete an Associate's degree or transfer to a four-year college for a Bachelor's degree, having taken core general education classes and electives in Administration of Justice.

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

¹Suggested social science electives: SOC 200 Principles of Sociology, SOC 268 Social Problems, PSY 200 Principles of Psychology, PSY 215 Abnormal Psychology, PSY 255 Criminal Behavior

²Suggested ADJ electives: ADJ 171/172, Forensic Science I & II, ADJ 133 Ethics and the Criminal Justice Professional or other ADJ courses.

Course #	Title	Credits
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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	115	Introduction to Computer Applications and Concepts	3
Total			16

Certificate in General Education

AREA: General Education

DEGREE: Certificate

LENGTH: Two semesters (one-year) program

PURPOSE: First-time job seekers who come to their employers with basic writing, analytical reasoning, and computing skills find they can be more competitive in the job market and more valuable in the workplace. Counter and retail clerks, administrative support, social and human service assistants, and customer service positions, as well as a variety of other fields, allow individuals to apply their entry-level knowledge and skills while exploring the world of work and relevant career opportunities as well as identifying more specific career and educational goals. For those employees who wish to pursue their education, the general education certificate provides foundational courses that allow students to progress toward the associate degree or to transfer to a senior institution.

TRANSFER GUIDELINES: Students in the General Education certificate program take courses which are the core of Liberal Arts and General Studies associate degree programs at Lord Fairfax Community College. Successful completion of the certificate will place students well on their way toward attainment of an Associate of Arts and Sciences Degree and transfer to a four-year institution. The General Education Certificate program contains courses most often encountered in the first year of liberal arts college studies. Students are advised to become acquainted with the requirements of an associate degree program, as well as Requirements of a four-year transfer institution, and consult with their advisor to make careful selection of program courses and electives.

Second Semester

ENG	112	College Composition II	3
HIS	112	History of World Civilization II ¹	3
HUM		Humanities Elective*	3
		Transferable Science with Laboratory ⁴	4
		Transferable Humanities Elective ³	3
		Total	16
		Program Total	33

¹Students may choose HIS 121/HIS 122

²Students may choose MTH 151 or higher mathematics course

³Students may select humanities and social science electives from approved lists.

⁴Students may select a lab science sequence in biology, chemistry, geology or physics.

*Humanities can be selected from approved electives. CST 100 can be used to fulfill one of the humanities electives.

Course #	Title	Credits
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First Semester

ENG	111	College Composition I	3
HIS	111	History of World Civilization I ¹	3
MTH	151	Mathematics for Liberal Arts I or higher math ²	3
		Transferable Social Science Elective ³	3
SDV	100	College Success Skills	1
		Transferable Science with Laboratory ⁴	4
		Total	17

Career Studies Certificate

AREA: American Sign Language

PURPOSE: To introduce students to sign language: basic vocabulary, finger spelling and an understanding of deaf culture

OCCUPATIONAL OBJECTIVES: 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

PROGRAM REQUIREMENTS:

<u>Course#</u>	<u>Title</u>	<u>Credits</u>
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 & Culture of the Deaf Community	3
ASL	Elective ¹	3
	Total	18

¹Students can choose elective from any ASL or INT course.

Course Descriptions

All information subject to change. For the latest course information, access MY LFCC online at <http://www.lfcc.edu>

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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/mcf/>), 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. One hour of lecture (including lecture, seminar, discussion, or other similar experiences) per week for 15 weeks plus an examination period + 1 collegiate semester-hour credit.
2. Two or three hours, depending on the academic discipline, of laboratory (including laboratory, clinical training, supervised work experience, coordinated internship, or other similar experience) per week for 15 weeks plus an examination period (1 hour) = 1 collegiate semester-hour credit.
3. One to five credits, with variable hours of attendance, may be earned in general usage 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
95, 195, and 295	Topics
93, 193, 293	Studies
96, 196, and 296	On-Site Training
98, 198, and 298	Seminar and Project
99, 199, and 299	Supervised Study

Course Descriptions

ACC 211 Principles of Accounting I (3 Cr.)

Presents accounting principles and their application to various businesses. Covers the accounting cycle, income determination and financial reporting. Studies services, merchandising and includes internal controls. Lecture 3 hours per week. Generally offered all semesters.

ACC 212 Principles of Accounting II (3 Cr.)

Continues Principles of Accounting I (ACC 211) with emphasis on the application to partnerships, corporations and the study of financial analysis. Includes an introduction to cost and managerial accounting. *Prerequisite:* ACC 211. Lecture 3 hours per week. Generally offered all semesters.

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:* ACC 211. Lecture 3 hours per week. Generally offered spring and summer.

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:* ACC 212 or equivalent. Lecture 3 hours per week. Generally offered fall.

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:* ACC 221 or equivalent. Lecture 3 hours per week. Generally offered spring.

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. *Prerequisite:* ACC 212 or equivalent. Lecture 3 hours per week. Generally offered spring.

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:* ACC 212 or equivalent. Lecture 3 hours per week. Generally offered fall.

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. Generally offered fall.

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. Generally offered spring.

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. Generally offered spring.

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. Generally offered fall and spring.

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. Lecture 3 hours per week. Generally offered fall and spring.

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. Lecture 3 hours per week. Generally offered fall and spring.

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. Offered periodically.

ADJ 133 Ethics and the Criminal Justice Professional (3 Cr.)

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

Course Descriptions

ADJ 140 Introduction to Corrections (3 Cr.)

Focuses on societal responses to the offender. Traces the evolution of practices based on philosophies of retribution, deterrence and rehabilitation. Reviews contemporary correctional activities and their relationships to other aspects of the criminal justice system. Lecture 3 hours per week. Generally offered fall and spring.

ADJ 145 Corrections and the Community (3 Cr.)

Studies and evaluates the relationships and interactions between correctional organizations and free society. Focuses on the shared responsibility of the community and corrections agencies to develop effective programs for management and treatment of criminal offenders. Lecture 3 hours per week. Offered periodically.

ADJ 146 Adult Correctional Institutions (3 Cr.)

Describes the structures, functions, and goals of state and federal correctional institutions (prisons, farms, community-based units, etc.) for adult inmates. Lecture 3 hours per week. Offered periodically.

ADJ 161 Introduction to Computer Crime (3 Cr.)

Provides a basic introduction to the nature of computer crimes, computer criminals, relevant law investigative techniques, and emerging trends. Lecture 3 hours per week. Offered periodically.

ADJ 162 Introduction to Sex Crimes (3 Cr.)

Provides a basic introduction to sex crimes. Covers relevant law, investigative techniques, cybersex crimes and criminals, application of criminal investigative analysis, and future trends. Lecture 3 hours per week. Offered periodically.

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, local case files, includes methodology, strategy and tactics, analysis, relevant law, and future trends. Covers evidentiary techniques and technologies with a primary focus on how critical thinking is applied to serious violent crime. Lecture 3 hours were week. Offered periodically.

ADJ 171 Forensic Science I (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 I of II. Lecture 3-4 hours. Laboratory 0-3 hours. Total 3-6 hours per week. Generally offered fall.

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. Lecture 3-4 hours. Laboratory 0-3 hours. Total 3-6 hours per week. Generally offered spring.

ADJ 186 Forensic Psychology (3 Cr.)

Introduces student to the constructs of criminal psychology. Introduces the student to the exploration of criminal investigative analysis. VI-CAP, mental disorders and the etiology of certain criminal behaviors. Lecture 3 hours per week. Offered periodically.

ADJ 195 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.

ADJ 232 Domestic Violence (3 Cr.)

Surveys historical issues that have affected family violence. Examines current trends in the context of the criminal justice system. Lecture 3 hours per week. Offered periodically.

ADJ 247 Criminal Behavior (3 Cr.)

Introduces and evaluates the concepts of normal and abnormal behavior. Focuses on the psychological and sociological aspects of criminal and other deviant behavior patterns. Lecture 3 hours per week. Offered periodically.

Administrative Support Technology (AST)

AST 101 Keyboarding I (3 Cr.)

Teaches the alpha/numeric keyboard with emphasis on correct techniques, speed and accuracy. Teaches formatting of basic personal and business correspondence, reports and tabulation *Prerequisite: Placement into ENF2 or higher or successful completion of ENF1.* Lecture 3 hours per week. Generally offered all semesters.

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. *Prerequisites: Placement into ENF2 or higher or successful completion of ENF1 and AST 101 or instructor permission.* Lecture 3 hours per week. Generally offered all semesters.

Course Descriptions

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. *Prerequisites:* Placement into ENF2 or higher or successful completion of ENF1 and AST 101, AST 102 or AST 141. Lecture 3 hours per week. Generally offered fall.

AST 141 Word Processing I (3 Cr.)

Teaches creating and editing documents, including line and page layouts, columns, fonts, search/replace, cut/paste, spell/thesaurus and advanced editing and formatting features of word processing software. *Prerequisites:* Placement into ENF2 or higher or successful completion of ENF1 and AST 101 or AST 102. Lecture 3 hours per week. Generally offered summer and fall.

AST 142 Word Processing II (3 Cr.)

Teaches advanced software applications. *Prerequisites:* Placement into ENF2 or higher or successful completion of ENF1 and AST 102 or AST 141. Lecture 3 hours per week. Generally offered spring.

AST 205 Business Communications (3 Cr.)

Teaches techniques of oral and written communications. Emphasizes writing and presenting business-related materials. *Prerequisites:* Placement into ENF2 or higher or successful completion of ENF1 and AST 102, AST 141 or AST 142. Lecture 3 hours per week. Generally offered fall

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. *Prerequisites:* Readiness to enroll in ENF 2 or above and AST 102, AST 141 or AST 142. Lecture 3 hours per week. Generally offered spring and summer.

AST 215 Medical Keyboarding (3 Cr.)

Develops decision-making skills, speed and accuracy in preparation of medical documents with emphasis on meeting office requirements. *Prerequisites:* Placement into ENF2 or higher or successful completion of ENF1 and AST 102. Lecture 3 hours per week. Generally offered summer.

AST 230 Introduction to Office Technology (3 Cr.)

Introduces principles, methods and techniques involved in office technology. Emphasizes word processing, microcomputer equipment and software. *Prerequisites:* Placement into ENF2 or higher or successful completion of ENF1 and AST 102, AST 141 or AST 142. Lecture 3 hours per week. Generally offered spring.

AST 232 Microcomputer Office Applications (3 Cr.)

Teaches production of business documents using word processing, databases and spreadsheets. Emphasizes document production to meet business and industry standards. *Prerequisites:* Placement into ENF2 or higher or successful completion of ENF1 and AST 101, AST 102, AST 141 or AST 142. Lecture 3 hours per week. Generally offered summer.

AST 234 Records and Database Management (3 Cr.)

Teaches filing and records management procedures using microcomputer database software. Incorporates both manual and electronic methods for managing information. *Prerequisites:* Placement into ENF2 or higher or successful completion of ENF1 and AST 101, AST 102, AST 141 or AST 142. Lecture 3 hours per week. Generally offered fall.

AST 236 Specialized Software Applications (3 Cr.)

Teaches specialized integrated software applications on the microcomputer. Emphasizes document production to meet business and industry standards. *Prerequisites:* Placement into ENF2 or higher or successful completion of ENF1 and AST 101, AST 102, AST 141 or AST 142. Lecture 3 hours per week. Generally offered summer.

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. *Prerequisites:* Placement into ENF2 or higher or successful completion of ENF1 and AST 101, AST 102, AST 141 or AST 142. Lecture 3 hours per week. Generally offered fall.

AST 244 Office Administration II (3 Cr.)

Enhances skills necessary to provide organizational and technical support in a contemporary office setting. Emphasizes administrative and supervisory role of the office professional. Includes travel and meeting planning, office budgeting and financial procedures, international issues and career development. *Prerequisites:* Placement into ENF2 or higher or successful completion of ENF1 and AST 243, AST 102, AST 141 or AST 142. Lecture 3 hours per week. Generally offered spring.

Course Descriptions

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.

Prerequisites: Placement into ENF2 or higher or successful completion of ENF1 and AST 102 or AST 144, and BIO 141 & 142 or BIO 145 and HIM 111. Recommend HIM 112. Lecture 3 hours per week. Generally offered spring.

AST 253 Advanced Desktop Publishing I (3 Cr.)

Introduces specific desktop publishing software. Teaches document layout and design, fonts, typestyles, style sheets and graphics. *Prerequisites:* Placement into ENF2 or higher or successful completion of ENF1 and AST 101, AST 102 or AST 141. Lecture 3 hours per week. Generally offered fall.

AST 254 Advanced Desktop Publishing II (3 Cr.)

Presents advanced features of desktop publishing software, culminating in the layout and design of complex multi-page documents. *Prerequisites:* Placement into ENF2 or higher or successful completion of ENF1 and AST 253. Lecture 3 hours per week. Generally offered spring.

AST 257 WP Desktop Publishing (3 Cr.)

Uses word processing software to teach advanced document preparation. *Prerequisites:* Placement into ENF2 or higher or successful completion of ENF1 and AST 101, AST 102 or AST 141. Lecture 3 hours per week. Generally offered fall.

AST 260 Presentation Software (3 Cr.)

Teaches creation of slides including use of text, clip art and graphs. Includes techniques for enhancing presentations with on-screen slide shows as well as printing to transparencies and handouts. Incorporates use of sound and video clips *Prerequisite:* Placement into ENF2 or higher or successful completion of ENF1 and AST 102 or AST 141. Lecture 3 hours per week. Generally offered spring.

AST 265 Legal Office Procedures I (3 Cr.)

Introduces general office procedures used in law offices and courts *Prerequisites:* Placement into ENF2 or higher or successful completion of ENF1 and AST 102 or AST 141. Lecture 3 hours per week. Occasionally offered summer.

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 *Prerequisites:* Placement into ENF2 or higher or successful completion of ENF1 and AST 265. Lecture 3 hours per week. Occasionally offered summer.

AST 271 Medical Office Procedures I (3 Cr.)

Covers medical office procedures, records management, preparation of medical reports, and other medical documents. *Prerequisite:* Placement into ENF2 or higher or successful completion of ENF1 and AST 102 or AST 141. Lecture 3 hours per week. Occasionally offered summer.

Agriculture (AGR)

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. Generally offered fall.

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. Generally offered fall.

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* AIR 121. Lecture 2 hours per week. Laboratory 2 hours per week. Total 4 hours per week. Generally offered spring.

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 2-3 hours per week. Laboratory 2-6 hours per week. Total 4-9 hours per week. Generally offered fall.

Course Descriptions

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 2-3 hours per week. Laboratory 2-6 hours per week. Total 4-8 hours per week. Generally offered spring.

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:* AIR 154. Lecture 2-3 hours per week. Laboratory 2-6 hours per week. Total 4-8 hours per week. Generally offered summer.

American Sign Language (ASL)

ASL 101-102 American Sign Language I-II (3 Cr.) (3 Cr.)

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. Laboratory 0-2 hours. Total 3-5 hours per week. ASL 101 generally offered fall; ASL 102 generally offered spring.

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:* ASL 101 or permission of instructor. Lecture 2 hours per week. Offered periodically.

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:* ENG 111. Lecture 3 hours per week. Offered periodically.

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. Offered periodically.

ASL 201-202 American Sign Language III-IV (3 Cr.) (3 Cr.)

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 201 generally offered fall; ASL 202 generally offered spring.

ASL 220 Comparative Linguistics: ASL & English (3 Cr.)

Describes spoken English and ASL (American Sign Language) on five levels: phonological, morphological, lexical, syntactic, and discourse. Compares and contrasts the two languages on all five levels using real-world examples. Documents similarities between signed languages and spoken languages in general. Describes the major linguistic components and processes of English and ASL. Introduces basic theories regarding ASL structure. Emphasizes ASL's status as a natural language by comparing and contrasting similarities and unique differences between the two languages. *Prerequisite:* ASL 201. Lecture 3 hours per week. Generally offered spring.

Architecture (ARC)

ARC 130 Introduction to Materials and 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. Generally offered fall.

Course Descriptions

ARC 221 Architectural CAD Applications 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. Prerequisite: EGR 110.* Lecture 2 hours. Laboratory 2 hours. Total 4 hours per week. Generally offered spring.

ARC 222 Architectural CAD Applications 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. Laboratory 2 hours. Total 4 hours per week. Generally offered fall.

ARC 240 Designing Sustainable Built Environments (3 Cr.)

Introduces students to ethics, ideas, technologies, methods and current practices in designing sustainable environments. *Prerequisites: ARC 123 and ARC 133.* Lecture 3 hours per week.

Art (ART)

ART 100 Art Appreciation (3 Cr.)

Introduces art from prehistoric times to the present day. Describes architectural styles, sculpture, photography, printmaking, and painting techniques. Lecture 3 hours per week. Offered periodically.

ART 101-102 History and Appreciation of Art I-II (3 Cr.) (3 Cr.)

Presents the history and interpretation of architecture, sculpture and painting. Begins with prehistoric art and follows the development of western civilization to the present. *Prerequisite: Readiness to enroll in ENG 111.* Lecture 3 hours per week. Generally offered all semesters.

ART 103 History of Far Eastern Art I (3 Cr.)

Surveys the history of Far Eastern art from the prehistoric period to the present. Part I focuses on the art of India and Southeast Asia. Part II focuses on the art of China, Japan, and Korea. Emphasizes architecture, painting and sculpture with some instruction in printmaking and decorative arts. Lecture 3 hours per week. Offered periodically.

ART 114 General Art (3 Cr.)

Introduces art to the student without previous training. Provides studio exercises in drawing, painting, and two- and three-dimensional design. Lecture 2 hours. Laboratory 3 hours. Total 5 hours per week. Generally offered fall and spring.

ART 121-122 Drawing I-II (3 Cr.) (3 Cr.)

Develops basic drawing skills and understanding of visual language through studio instruction/lecture. Introduces concepts such as proportion, space, perspective, tone and composition as applied to still life, landscape and the figure. Uses drawing media such as pencil, charcoal, ink wash and color media. Includes field trips and gallery assignments as appropriate. *ART 121 is a prerequisite for ART 122.* Lecture 2 hours per week. Studio instruction 4 hours per week. Total 5 hours per week. Generally offered all semesters.

ART 131-132 Fundamentals of Design I-II (4 Cr.) (4 Cr.)

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. Generally offered fall and spring.

ART 138 Figure Drawing (3 Cr.)

Develops drawing skills for the beginning and experienced students. Explores a broad range of drawing problems dealing with the human figure in costume using various media and techniques. *Prerequisite: ART 121 or divisional approval.* Lecture 2 hours per week. Studio instruction 3 hours per week. Total 5 hours per week. Offered periodically.

ART 153-154 Ceramics I-II (3 Cr.) (3 Cr.)

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. Generally offered fall and spring.

ART 235 Functional Ceramics (3 Cr.)

Explores the design and production of functional ceramics, including hand building and use of the wheel. *Prerequisite: ART 154 or instructor approval.* Lecture 2 hours per week. Studio instruction 4 hours per week. Total 6 hours per week. Offered periodically.

ART 236 Sculptural Ceramics (3 Cr.)

Explores the design and production of sculptural ceramics, including hand building and use of the wheel. *Prerequisite: ART 154 or instructor approval.* Lecture 2 hours per week. Studio instruction 4 hours per week. Total 6 hours per week. Offered periodically.

Course Descriptions

ART 241-242 Painting I-II (3 Cr.) (3 Cr.)

Introduces abstract and representational painting in acrylic and/or oil with emphasis on color composition and value. *Prerequisite:* ART 122 or instructor approval. Lecture 2 hours per week. Studio instruction 4 hours per week. Total 5 hours per week. Offered periodically.

ART 243-244 Watercolor I-II (3 Cr.) (3 Cr.)

Presents abstract and representational painting in watercolor with emphasis on design, color, composition, technique and value. *Prerequisite:* ART 131 or instructor approval. Lecture 2 hours per week. Studio instruction 2 hours per week. Total 4 hours per week. Generally offered fall and spring.

ART 271-272 Printmaking I-II (3 Cr.) (3 Cr.)

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. Offered periodically.

ART 283-284 Computer Graphics I-II (3 Cr.) (3 Cr.)

Utilizes microcomputers and software to produce computer graphics. Employs techniques learned to solve studio projects which reinforce instruction and are appropriate for portfolio use. *Prerequisite:* Readiness to enroll in ENG 111. Lecture 1 hour per week. Studio instruction 4 hours per week. Total 5 hours per week. Generally offered fall and spring.

ART 287 Portfolio and Resume Preparation (1-4 Cr.)

Focuses on portfolio preparation, resume writing and job interviewing for students. Recommended for final semester program students. *Requires instructor's approval.* Lecture 1 hour. Studio instruction 0-4 hours. Total 1-6 hours per week. Generally offered fall and spring.

ART 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. Offered periodically.

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:* Readiness to enroll in ENG 111. Lecture 3 hours per week. Generally offered all semesters.

BIO 101-102 General Biology I-II (4 Cr.) (4 Cr.)

Explores fundamental characteristics of living matter from the molecular level to the ecological community with emphasis on general biological principles. Introduces the diversity of living organisms, their structure, function and evolution. *Prerequisite:* Readiness to enroll in ENG 111. BIO 101 prerequisite to BIO 102. Lecture 3 hours per week. Recitation and laboratory 3 hours per week. Total 6 hours per week. Generally offered fall and spring and occasionally summer.

BIO 141-142 Human Anatomy and Physiology I-II (4 Cr.) (4 Cr.)

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:* Readiness to enroll in ENG 111. Lecture 3 hours per week. Laboratory 3 hours per week. Total 6 hours per week. Generally offered all semesters.

BIO 145 Human Anatomy and Physiology for the Health Sciences (4-5 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. Lecture 3-4 hours. Laboratory 3 hours. Total 6-7 hours per week. Generally offered all semesters.

BIO 150 Introductory Microbiology (4 Cr.)

Studies the general characteristics of microorganisms. Emphasizes their relationships to individual and community health. *Prerequisite:* Readiness to enroll in ENG 111. Lecture 3 hours per week. Recitation and laboratory 3 hours per week. Total 6 hours per week. Generally offered all semesters.

BIO 206 Cell Biology (4 Cr.)

Introduces the ultrastructure and functions of cells. Emphasizes cell metabolism, cell division, and control of gene expression. *Prerequisite:* BIO 101 and CHM 111. Lecture 3 hours. Recitation and laboratory 3 hours. Total 6 hours per week.

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. Generally offered spring.

Course Descriptions

Business Management and Administration (BUS)

BUS 100 Introduction to Business (3 Cr.)

Presents a broad introduction to the functioning of business enterprise within the U.S. economic framework. Introduces economic systems, essential elements of business organization, production, human resource management, marketing, finance and risk management. Lecture 3 hours per week. Generally offered fall and spring.

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. Generally offered spring.

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. Generally offered fall.

BUS 165 Small Business Management (3 Cr.)

Identifies management concerns unique to small businesses. Introduces the requirements necessary to initiate a small business and identifies the elements comprising a business plan. Presents information establishing financial and administrative controls, developing a marketing strategy, managing business operations and the legal and government relationships specific to small businesses. Lecture 3 hours per week. Generally offered spring.

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. Generally offered spring.

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. Generally offered spring.

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. Generally offered fall.

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. Generally offered fall.

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. Generally offered spring. Lecture 3 hours per week. Generally offered spring.

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. Generally offered spring.

Chemistry (CHM)

CHM 101-102 General Chemistry I-II (4 Cr.) (4 Cr.)

Emphasizes experimental and theoretical aspects of inorganic, organic and biological chemistry. Discusses general chemistry concepts as they apply to issues within our society and environment. Designed for the non-science major. *Prerequisite: Readiness to enroll in ENG 111. Prerequisite for CHM 101 is competence in MTE 1-6. CHM 101 prerequisite to CHM 102.* Lecture 3 hours per week. Laboratory 3 hours per week. Total 6 hours per week. Generally offered all semesters.

Course Descriptions

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: Readiness to enroll in ENG 111.* Lecture 3 hours per week. Generally offered all semesters.

CHM 111-112 College Chemistry I-II (4 Cr.) (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: Readiness to enroll in ENG 111. Prerequisite for CHM 111 is competence in MTE 1-6. CHM 111 prerequisite to CHM 112.* Lecture 3 hours per week. Laboratory 3 hours per week. Total 6 hours per week. Generally offered fall and spring.

CHM 241-242 Organic Chemistry I-II (3 Cr.) (3 Cr.)

Introduces fundamental chemistry of carbon compounds, including structures, physical properties, syntheses and typical reactions. Emphasizes reaction mechanisms. *Prerequisite: CHM 111-112. CHM 241 prerequisite to CHM 242. Recommended co-requisite: CHM 243-244.* Lecture 3 hours per week. CHM 241 generally offered fall and spring; CHM 242 generally offered spring.

CHM 245-246 Organic Chem. Lab. I-II (2 Cr.) (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 245 generally offered fall; CHM 246 generally offered spring.

CHM 260 Introductory Biochemistry (3 Cr.)

Explores fundamentals of biological chemistry. Includes study of macromolecules, metabolic pathways, and biochemical genetics. *Prerequisite: CHM 112 or divisional approval.* Lecture 3 hours per week. Generally offered spring.

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. Generally offered spring.

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. Lecture 2 hours. Laboratory 2 hours. Total 4 hours per week. Generally offered fall.

CHD 119 Introduction to Reading Methods (3 Cr.)

Focuses on promoting language and literacy skills as the foundation for emergent reading. Emphasizes phonetic awareness and alphabetic principles, print awareness and concepts, comprehension and early reading and writing. Addresses strategies for intervention and support for exceptional children and English Language Learners. NOTE: This course replaces CHD 117. *Placement test recommendation for ENG 111 required. Prerequisite: CHD 118.* Lecture 2 hours. Laboratory 2 hours. Total 4 hours per week. Generally offered spring.

CHD 120 Intro. 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. Generally offered fall and spring, periodically summer.

CHD 145 Teaching Art, Music and Movement to Children (3 Cr.)

Focuses on children's exploration, play, and creative expression in the areas of art, music, and movement. Emphasis will be on developing strategies for using various open-ended media representing a range of approaches in creative thinking. Addresses strategies for intervention and support for exceptional children and English Language Learners. Lecture 2 hours. Laboratory 2 hours. Total 4 hours per week. Generally offered fall.

Course Descriptions

CHD 146 Math, Science, and Social Studies for Children (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. Lecture 2 hours. Laboratory 2 hours. Total 4 hours per week. Generally offered fall.

CHD 165 Observation and Participation in Early Ch/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. Generally offered spring, periodically fall.

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. Lecture 3 hours per week. Generally offered spring.

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. Lecture 2-3 hours per week. Generally offered spring.

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. Generally offered spring and summer.

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. Lecture 3 hours per week. Generally offered fall and spring.

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. Lecture 3 hours per week. Generally offered fall.

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. Lecture 3 hours per week. Generally offered fall.

CHD 265 Adv. Observation and Participation, in Early Ch/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. 4 hours field placement. Total 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. Generally offered spring, periodically fall.

CHD 270 Admin. 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. Lecture 3 hours per week. Generally offered spring.

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. Generally offered spring.

Course Descriptions

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. Generally offered fall.

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: CIV 171.* Lecture 2 hours per week. Laboratory 3 hours per week. Total 5 hours per week. Generally offered spring.

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. Generally offered spring.

CIV 295 Sustainable Building and Site Design (3 Cr.)

Introduces basic concepts and approaches to sustainable design of both structures and building sites. Focuses on LEED (Leadership in Energy and Environmental Design) criteria for green buildings and sites. Covers energy, hydrological, material selection/use/disposal, and environment (indoor and outdoor) quality aspects of designing for sustainability. Specific topics may include site selection and development, water use reduction, energy use reduction, green power, material reuse and recycling, material emissions, lighting issues, thermal comfort and control among others. *Prerequisites are ARC 130 and MTH 115 or equivalents.* Lecture 3 hours per week. Generally offered spring.

CIV 295B Solar Energy Fundamentals (3 Cr.)

Presents the fundamental concepts that establish solar energy as a viable energy source. Includes heat flow concepts such as radiation, convection, and conduction heat transfer and basic fluid flow concepts. Covers material characteristics that allow for storage of solar energy and basic electrical concepts that allow for direct conversion of solar energy to electricity. Relates these fundamental concepts to actual products in solar energy systems. Incorporates relevant demonstrations into a lecture format. *Prerequisites/corequisites MTH 115 and ARC 130 or equivalents.* Lecture 3 hours per week. Generally offered fall.

CIV 295C Solar Energy Installations (2 Cr.)

Focuses on installations of photovoltaic panels primarily for grid direct solar energy systems. Covers proper site location, sizing, and selection of system components including panel selection, panel orientation, proper wiring, proper grounding, electrical disconnects, inverters, and mounting systems. Electrical codes will be discussed as appropriate and battery based storage systems will be introduced. Incorporates relevant demonstrations into a lecture format. *Prerequisites: MTH 115 and CIV 295B.* Lecture 2 hours per week. Generally offered spring.

CIV 295D Solar Energy Installation Lab (1 Cr.)

Covers the installation of several photovoltaic grid direct systems including mounting PV panels, wiring the system (including grounding), and commissioning and decommissioning the system. Safety issues and code issues will be included. Rack mounted, ballast, and pole mount systems will be installed. A pre-laboratory sizing exercise and other pre-lab work may be required. *Prerequisite: CIV 295C.* Laboratory hours equivalent to 3 hours per week. Generally offered spring.

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: placement testing approval for ENG 111.* Lecture 3 hours per week. Generally offered all semesters.

CST 110 Intro 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: placement testing approval for ENG 111.* Lecture 3 hours per week. Generally offered all semesters.

CST 116 Speech Workshop (1-6 Cr.)

Enables work in competitive speech activities such as debate, oratory, impromptu speaking, prose and poetry reading and rhetorical criticism. *Prerequisite: placement testing approval for ENG 111.* May be repeated for credit. Variable hours per week. Generally offered fall and spring.

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. Offered periodically.

Course Descriptions

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. Offered periodically.

CST 131-132 Acting I-II (3 Cr.) (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. Lab 3 hour per week. Total 5 hours per week. Offered periodically.

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. Generally offered fall and spring.

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. Offered periodically.

CST 229 Intercultural Communication (3 Cr.)

Emphasizes the influence of culture on the communication process including differences in values, message systems, and communication rules. Lecture 3 hours per week. Offered periodically.

Computer Aid 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. Generally offered spring every other year.

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. Course generally offered fall semester. Generally offered summer.

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. Prerequisite: EGR 110.* Lecture 2-3 hours. Laboratory 2-3 hours. Total 4-6 hours per week. Generally offered spring.

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. Lecture 2-3 hours. Laboratory 2-3 hours. Total 4-6 hours per week. Generally offered fall.

CAD 280 Design Capstone Project (3 Cr.)

Focuses on design projects developed in independently and in consultation with the Instructor. Topics covered but not limited to, parametric modeling, civil, mechanical piping, architectural applications, structural, electro-mechanical, 3-D Solids, exploration of application software and the integration of CAD/CAM. *Prerequisites: CAD 233, MEC 116 and ARC 122, or CAD 211 or 212 and CAD 201 or 199.* Lecture 3 hours per week. Offered occasionally, as needed.

Computer Science (CSC)

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: Readiness to enroll in ENG 111.* Lecture 4 hours per week. Offered occasionally, as needed.

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. Generally offered fall.

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. Generally offered fall.

Course Descriptions

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 1-2 hours per week. Generally offered fall.

DNH 130 Oral Radiography for the Dental Hygienist (2 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 1-2 hours per week. Laboratory 3 hours per week. Total 4-5 hours per week. Generally offered fall.

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. Generally offered fall.

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: DNH 141.* Lecture 1-2 hours per week. Clinical 9-12 hours per week. Total 11-13 hours per week. Generally offered spring.

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: DNH 113, 114, or 115.* Lecture 2 hours per week. Generally offered spring.

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. Generally offered spring.

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. Generally offered summer.

DNH 190 Coordinated Practice (3 Cr.)

Continues supervised clinical practice in the dental hygiene clinic with emphasis on coordinating didactic and clinical skills, and refining client treatment skills. Introduces special needs clients and treatment modifications. Lecture 2 hours per week. Generally offered summer.

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. Generally offered fall.

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. Generally offered spring.

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. Generally offered fall.

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: DNH 226.* Laboratory 3 hours per week. Generally offered spring.

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. Generally offered spring.

Course Descriptions

DHN 235 Management of Dental Pain and 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. *Prerequisites:* DHN 115, DHN 120 and DHN 216. Lecture 1 hour. Laboratory 2 hours. Total 3 hours per week. Generally offered fall.

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:* DNH 143 or DNH 190. Lecture 1 hour per week. Clinic 12 hours per week. Total 13 hours per week. Generally offered fall.

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:* DNH 244. Lecture 1 hour per week. Clinic 12 hours per week. Total 13 hours per week. Generally offered spring.

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:* Readiness to enroll in ENG 111 and competence in MTE 1-3, or completion of MTH 120 or MTH 126. Lecture 3 hours per week. Generally offered all semesters.

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. *Prerequisites:* Readiness to enroll in ENG 111 and competence in MTE 1-3, or completion of MTH 120 or MTH 126. Lecture 3 hours per week. Generally offered all semesters.

Education (EDU)

EDU 200 Intro. to Teaching as a Profession (3 Cr.)

Provides an orientation to the teaching profession in Virginia, including historical perspectives, current issues and future trends in education on the national and state levels. Emphasizes information about teacher licensure examinations, steps to certification, teacher preparation and induction programs and attention to critical shortage areas in Virginia. Includes supervised field placement (recommended: 40 clock hours) in a K-12 school. *Prerequisite:* successful completion of 24 credits of transfer courses. Lecture 2 hours per week. Laboratory 2 hours per week. Total 4 hours per week. Generally offered fall and spring.

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. Generally offered fall and spring.

EDU 254 Teaching Basic Academic Skills to Exceptional Children (3 Cr.)

Develops competencies required to teach readiness and basic skills to children with special needs in private or public school settings. Includes the preparation of lesson plans, instructional units, and individualized Education Programs (IEP's). Includes child abuse recognition and intervention training. Emphasizes exceptionalities for students ages 2-21 under Public Law 94-142. Familiarizes students with the indicators of effective teaching. Lecture 3 hours per week. Offered periodically.

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.

Course Descriptions

Electrical Technology (ELE)

ELE 126 Electricity and Shop Power Distribution (2 Cr.)

Teaches basic electricity and shop power distribution systems to acquaint the industrial machine mechanic with the nature and requirements of electrical power and machinery. Includes the nature of electricity, basic DC and AC circuits, power requirements, protection systems, basic measurements and safety precautions. Lecture 1 hour per week. Laboratory 2 hours per week. Total 3 hours per week. Generally offered spring.

ELE 133-134 Practical Electricity I-II (3 Cr.) (3 Cr.)

Teaches the fundamentals of electricity, terminology, symbols and diagrams. Includes the principles essential to the understanding of general practices, safety and 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 133 generally offered fall and spring; ELE 134 generally offered spring.

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. Generally offered fall.

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. Generally offered spring.

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: ELE 159.* Lecture 2 hours per week. Laboratory 2 hours per week. Total 4 hours per week. Generally offered spring.

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. *Prerequisite: ELE 126 or 134 or instructor approval.* Lecture 2 hours per week. Laboratory 2 hours per week. Total 4 hours per week. Generally offered fall.

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. Generally offered all semesters.

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. Generally offered spring.

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: ELE 239.* Lecture 2 hours. Total 4 hours per week.

ELE 290 Coordinated Internship (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.

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. Generally offered spring.

Emergency Medical Services (EMS)

EMS 151 Intro. to Advanced Life Support (4 Cr.)

Prepares the student for Virginia Enhanced certification eligibility and begins the sequence for National Registry Intermediate and/or Paramedic certification. Includes the theory and application of the following: foundations, human systems, pharmacology, overview of shock, venous access, airway management, patient assessment, respiratory emergencies, allergic reaction and assessment based management. Conforms at a minimum to the Virginia Office of Emergency Medical Services curriculum. *Corequisite: EMS 170.* Lecture 3 hours per week. Laboratory 2 hours per week. Total 5 hours per week. Generally offered fall.

Course Descriptions

EMS 153 Basic ECG Recognition (2 Cr.)

Focuses on the interpretation of basic electrocardiograms (ECG) and their significance. Includes an overview of anatomy and physiology of the cardiovascular system including structure, function and electrical conduction in the heart. Covers advanced concepts that build on the knowledge and skills of basic dysrhythmia determination and introduction to 12 lead ECG. Lecture 2 hours per week. Generally offered fall.

EMS 155 ALS Medical Care (4 Cr.)

Continues the Virginia Office of Emergency Medical Services Intermediate and/or Paramedic curricula. Includes ALS pharmacology, drug and fluid administration with emphasis on patient assessment, differential diagnosis and management of multiple medical complaints. Includes, but are not limited to conditions relating to cardiac, diabetic, neurological, nontraumatic abdominal pain, environmental, behavioral, gynecology and toxicological disease conditions. *Prerequisites: current EMT-B certification, EMS 151 and EMS 153.* Lecture 3 hours per week. Laboratory 2 hours per week. Total 5 hours per week. Generally offered spring.

EMS 157 ALS Trauma Care (3 Cr.)

Continues the Virginia Office of Emergency Medical Services Intermediate and/or Paramedic curricula. Utilizes techniques which will allow the student to utilize the assessment findings to formulate a field impression and implement the treatment plan for the trauma patient. *Prerequisites: current EMT-B certification and EMS 151.* Lecture 2 hours per week. Laboratory 2 hours per week. Total 4 hours per week. Generally offered fall.

EMS 159 ALS Special Populations (3 Cr.)

Continues the Virginia Office of Emergency Medical Services Intermediate and/or Paramedic curricula. Focuses on the assessment and management of specialty patients including obstetrical, neonates, pediatric and geriatrics. *Prerequisites: EMS 151 and EMS 153. Pre or Corequisite EMS 155.* Lecture 2 hours per week. Laboratory 2 hours per week. Total 4 hours per week. Generally offered spring.

EMS 170 ALS Internship I (1-2 Cr.)

Begins the first in a series of clinical experiences providing supervised direct patient contact in appropriate patient care facilities in and out of hospitals. Includes but not limited to patient care units such as the emergency department, critical care units, pediatric, labor and delivery, operating room, trauma centers and various advanced life support units. Laboratory 3-6 hours per week. Generally offered fall.

EMS 172 ALS Clinical Internship II (1 Cr.)

Continues with the second in a series of clinical experiences providing supervised direct patient contact in appropriate patient care facilities in and out of hospitals. Includes but not limited to patient care units such as the emergency department, critical care units, pediatric, labor and delivery, operating room and trauma centers. *Corequisite: EMS 151.* Laboratory 3-6 hours per week. Generally offered spring.

EMS 173 ALS Field Internship II (1 Cr.)

Continues with the second in a series of field experiences providing supervised direct patient care in out-of-hospital advanced life support units. Laboratory 3 hours per week. Generally offered spring.

EMS 196 On-Site Training (1 Cr.)

Specializes in career orientation and training program without pay in selected businesses and industry, supervised and coordinated by the college. Lecture 1 hour per week. Generally offered summer, if needed.

EMS 201 EMS Professional Development (3 Cr.)

The purpose of this course is to prepare the EMS student to use community resources to facilitate personal and community wellness and fulfills the wellness and resource objectives of the Virginia Office of Emergency Medical Services Intermediate curriculum. Lecture 3 hours. Total 3 hours per week. *Prerequisite: EMT/B Certification.* Generally offered fall.

EMS 205 Advanced Pathophysiology (4 Cr.)

Focuses on the pathological processes of disease with emphasis on the anatomical and physiological alterations of the human body by systems. Includes diagnosis and management appropriate to the advanced health care provider in and out of the hospital environment. Lecture 4 hours. Total 4 hours per week. *Prerequisite: EMT/B Certification.* Generally offered spring.

EMS 207 Advanced Patient Assessment (3 Cr.)

Focuses on the principles of normal and abnormal physical exam. Emphasizes the analysis and interpretation of physiological data to assist in patient assessment and management. Applies principles during the assessment and management of trauma, medical, and specialty patients in laboratory environment. Lecture 2 hours. Laboratory 2 hours. Total 4 hours per week. Generally offered spring.

Course Descriptions

EMS 209 Advanced Pharmacology (4 Cr.)

Focuses on the principles of pharmacokinetics, pharmacodynamics and drug administration. Includes drug legislation, techniques of medication administration, and principles of math calculations. Emphasizes drugs used to manage respiratory, cardiac, neurological, gastrointestinal, fluid and electrolyte and endocrine disorders and includes classification, mechanism of action, indications, contraindications, precautions, and patient education. Incorporates principles related to substance abuse and hazardous materials. Applies principles during the assessment and management of trauma, medical, and specialty patients in a laboratory environment. Lecture 3 hours. Laboratory 2 hours. Total 5 hours per week. Generally offered fall.

EMS 211 Operations (2 Cr.)

Prepares the student in the theory and application of the following: medical incident command, rescue awareness and operations, hazardous materials incidents, and crime scene awareness. (Conforms to the current Virginia Office of Emergency Medical Services curriculum for EMT-Paramedics.) Lecture 1 hour. Laboratory 2 hours. Total 3 hours per week. Generally offered fall.

EMS 242 ALS Clinical Internship III (1 Cr.)

Continues with the third in a series of clinical experiences providing supervised direct patient contact in appropriate patient care facilities in-and-out of hospitals. Includes but not limited to patient care units such as the Emergency Department, Critical Care units, Pediatric, Labor and Delivery, Operating Room, Trauma Centers and various advanced life support units. Laboratory 3-6 hours per week. Generally offered fall.

EMS 243 ALS Field Internship III (1 Cr.)

Continues with the third in a series of field experiences providing supervised direct patient care in out-of-hospital advanced life support units. Laboratory 3-6 hours per week. Generally offered fall.

EMS 244 ALS Clinical Internship IV (1 Cr.)

The fourth in a series of clinical experiences providing direct patient contact in appropriate patient care facilities in-and-out of hospitals. Includes, but not limited to patient care units such as the Emergency Department, Critical Care units, Pediatric, Labor and Delivery, Operating Room and Trauma Centers. May be repeated as necessary. Laboratory 3-6 hours per week. Generally offered spring.

EMS 245 ALS Field Internship IV (1 Cr.)

Continues with the fourth in a series of field experiences providing supervised direct patient care in out-of-hospital advanced life support units. May be repeated as necessary. Laboratory 3-6 hours per week. Generally offered spring.

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. Generally offered fall and spring.

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:* MTH 115. Lecture 3 hours per week. Generally offered fall.

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:* EGR 135. Lecture 3 hours per week. Generally offered spring.

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. Generally offered fall.

EGR 216 Computer Methods in Engineering and Technology (3 Cr.)

Provides advanced level experience in using a computer as a tool for solving technical problems and performing office functions. Includes computer hardware and operating system usage, structured programming in a selected high level language, use of word processing software, computer graphics and spreadsheets. Focuses on the analysis and solution of problems in engineering and technology. Lecture 2 hours. Laboratory 2 hours. Total 4 hours per week. Generally offered spring.

Course Descriptions

EGR 247 Mechanics of Materials Laboratory (1 Cr.)

Examines mechanical behavior of bars, rods, shafts, tubes and beams subjected to various types of loading. Introduces experimental stress analysis techniques, such as the use of strain gages and data reduction. Laboratory 2 hours per week. Generally offered spring.

English (ENF and ENG)

ENF 1 (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. Generally offered all semesters.

ENF 2 (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. Generally offered all semesters.

ENF 3 (2 credits)

Provides integrated reading and writing instruction for students who require minimal preparation for college-level English but still need some preparation to succeed. Students in this course will be co-enrolled in college-level English. Students will place into this course based on placement test score. Credit is not applicable toward graduation. Generally offered all semesters.

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: Satisfactory score on the VPT-English or satisfactory completion of ENF 1 or ENF 2. Lecture 3 hours per week. Generally offered all semesters.

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: ENG 111.* Lecture 3 hours per week. Generally offered all semesters.

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: placement testing approval for ENG 111 or instructor approval.* Lecture 3 hours per week. Generally offered fall and spring.

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. Offered periodically.

ENG 120 Survey of Mass Media (3 Cr.)

Examines radio, television, newspapers, magazines, books and motion pictures. Emphasizes the nature of change in and the social implications of, communications media today. Lecture 3 hours per week. Offered periodically.

ENG 139 College Grammar (3 Cr.)

Studies formal English grammar and effective expression with attention to recognizing and employing appropriately the various levels of English usage, thinking logically, speaking and writing effectively, editing, evaluating content and intent of both spoken and written English, and punctuating correctly. Lecture 3 hours per week. Offered periodically.

ENG 195 English Honors Seminar (1 Cr.)

Explores works on an annual theme selected by the English faculty. Presents varied faculty and student viewpoints and encourages students to research and present individual aspects of theme. Offered for honors credit. Students may enroll more than once. *Instructor approval required.* Offered periodically.

Course Descriptions

ENG 210 Advanced Composition (3 Cr.)

Helps students refine skills in writing non-fiction prose. Guides development of individual voice and style. Introduces procedures for publication. *Prerequisite: ENG 112.* Lecture 3 hours per week. Offered periodically.

ENG 211-212 Creative Writing I-II (3 Cr.) (3 Cr.)

Introduces the student to the fundamentals of writing imaginatively. Students write in forms to be selected from poetry, fiction, drama and essays. *Prerequisite: ENG 112.* Lecture 3 hours per week. Offered periodically.

ENG 215-216 Creative Writing – Fiction I-II (3 Cr.) (3 Cr.)

Introduces the fundamentals and techniques of writing short and long fiction. *Prerequisite: ENG 112.* Lecture 3 hours per week. Offered periodically.

ENG 217 Creative Writing Poetry I (3 Cr.)

Introduces the fundamentals and techniques of writing poetry. Lecture 3 hours per week. Offered periodically.

ENG 218 Creative Writing Poetry II (3 Cr.)

Introduces the fundamentals and techniques of writing poetry. *Prerequisite: ENG 217 or instructor's approval.* 3 hours per week. Offered periodically.

ENG 236 Introduction to the Short Story (3 Cr.)

Examines selected short stories emphasizing the history of the genre. Involves critical reading and writing. *Prerequisite: ENG 112.* Lecture 3 hours per week. Offered periodically.

ENG 241-242 Survey of American Literature I-II (3 Cr.) (3 Cr.)

Examines American literary works from colonial times to the present, emphasizing the ideas and characteristics of our national literature. Involves critical reading and writing. *Prerequisite: ENG 112.* Lecture 3 hours per week. Generally offered all semesters.

ENG 243-244 Survey of English Literature I-II (3 Cr.) (3 Cr.)

Studies major English works from the Anglo-Saxon period to the present, emphasizing ideas and characteristics of the British literary tradition. Involves critical reading and writing. *Prerequisite: ENG 112.* Lecture 3 hours per week. Generally offered all semesters.

ENG 245 Major English Writers (3 Cr.)

Examines major writers in English literary history. Involves critical reading and writing. *Prerequisite: ENG 112 or divisional approval.* Lecture 3 hours per week. Offered periodically.

ENG 246 Major American Writers (3 Cr.)

Examines major writers of American literary history. Involves critical reading and writing. *Prerequisite: ENG 112.* Lecture 3 hours per week. Offered periodically.

ENG 251-252 Survey of World Literature I-II (3 Cr.) (3 Cr.)

Examines major works of world literature. Involves critical reading and writing. *Prerequisite: ENG 112.* Lecture 3 hours per week. Generally offered fall and spring.

ENG 255 Major Writers in World Literature (3 Cr.)

Examines major writers selected from a variety of literary traditions. Involves critical reading and writing. *Prerequisite: ENG 112.* Lecture 3 hours per week. Offered periodically.

ENG 261-262 Advanced Creative Writing I-II (3 Cr.) (3 Cr.)

Guides the student in imaginative writing in selected genres on an advanced level. *Prerequisites: ENG 112 and ENG 211 or 212.* Lecture 3 hours per week. Offered periodically.

ENG 270 Non-Western Literature in Global Context (3)

Examines non-western popular culture, written texts, film and mythology through the lens of comparative literature and the shifting horizons brought on by dynamic changes in global social and cultural values. *Prerequisite: ENG 112.* 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: ENG 112.* Lecture 3 hours per week. Offered periodically.

ENG 278 Appalachian Literature (3 Cr.)

Examines selected works of outstanding authors of the Appalachian region. Involves critical reading and writing. Lecture 3 hours per week. Offered periodically.

ENG 279 Film and Literature (3 Cr.)

Examines the translation of literature into film viewing and writing. *Prerequisite: ENG 112 or divisional approval.* Lecture 3 hours per week. Offered periodically.

ENG 280 Writing User Manuals (3 Cr.)

Provides instruction on how to design, write and test a manual. Focuses on the principles used in writing technical manuals, the document process, design and drafting procedures and finally, testing and revising the manual. *Prerequisite: ENG 112 or division approval.* Lecture 3 hours per week. Offered periodically.

Course Descriptions

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. Generally offered fall and spring.

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. Variable hours per week. Generally offered fall and spring.

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. Generally offered fall and spring.

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. Generally offered fall.

French (FRE)

FRE 101-102 Beginning French I-II (4 Cr.) (4 Cr.)

Introduces understanding, speaking, reading and writing skills and emphasizes basic French sentence structure.

Prerequisite: FRE 101 for FRE 102. Lecture 4 hours per week. Generally offered fall and spring.

FRE 201-202 Intermediate French I-II (3 Cr.) (3 Cr.)

Continues to develop understanding, speaking, reading and writing skills. French used in the classroom. *Prerequisite:* FRE 102 for FRE 201; FRE 201 for FRE 202. Lecture 3 hours per week. Generally offered fall and spring.

FRE 233-234 - Introduction to French Civilization and Literature I-II (3 Cr.) (3 Cr.)

Introduces the student to French culture and literature.

Readings and discussions conducted in French. *Prerequisite:* FRE 201-202 or equivalent. Offered periodically.

Geography (GEO)

GEO 210 People and the Land: Intro to Cultural Geography (3 Cr.)

Focuses on the relationship between culture and geography. Presents a survey of modern demographics, landscape modification, material and non-material culture, language, race and ethnicity, religion, politics and economic activities. Introduces the student to types and uses of maps.

Prerequisite: Readiness to enroll in ENG 111. Lecture 3 hours per week. Generally offered all semesters.

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. Generally offered all semesters.

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:* Readiness to enroll in ENG 111. Lecture 3 hours per week. Laboratory 3 hours per week. Total 6 hours per week. Generally offered all semesters.

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:* Readiness to enroll in ENG 111. Lecture 3 hours per week. Laboratory 3 hours per week. Total 6 hours per week. Generally offered all semesters.

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. Generally offered fall.

Course Descriptions

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. Generally offered spring.

GER 201 Intermediate German I (3-4 Cr.)

Continues to develop understanding, speaking, reading, and writing skills. German is used in the classroom.

Prerequisite GER 102 or equivalent. Part I of II. Lecture 3-4 hours per week. May include one additional hour oral practice per week. Offered periodically.

GER 202 - Intermediate German II (3-4 Cr.)

Continues to develop understanding, speaking, reading, and writing skills. German is used in the classroom.

Prerequisite GER 102 or equivalent. Part II of II. Lecture 3-4 hours per week. May include one additional hour oral practice per week. Offered periodically.

Health (HLT)

HLT 100 First Aid and Cardiopulmonary Resuscitation (2 Cr.)

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

HLT 106 First Aid Safety (2 Cr.)

Focuses on the principles and techniques of safety and first aid. Lecture 2 hours per week. Generally offered spring.

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. Generally offered fall and spring.

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. Generally offered fall and spring.

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. Generally offered all semesters.

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. Generally offered fall and spring.

HLT 208 Fitness and Exercise Training (3 Cr.)

Introduces techniques for conducting physical fitness assessments and includes an introduction to electrocardiography. Emphasizes tests of Cardio respiratory fitness, muscular strength and endurance, joint flexibility, body composition, and pulmonary capacity. Emphasizes the safety guidelines and precautions used in testing. Covers equipment use and maintenance. *Prerequisite:* HLT 100. Lecture 2 hours. Laboratory 2-3 hours. Total 4-5 hours per week. Generally offered fall and spring.

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. Generally offered fall and spring.

Health Information Management (HIM)

HIM 110 Introduction to Human Pathology (3 Cr.)

Introduces the basic concepts, terminology, etiology, and characteristics of pathological processes. *Prerequisite:* *Readiness to enroll in ENG 111.* Lecture 3 hours per week.

HIM 111-112 Medical Terminology I-II (3 Cr.) (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. *Prerequisites:* *Readiness to enroll in ENG 111. HIM 111 for HIM 112.* Lecture 3 hours per week. Generally offered all semesters.

HIM 115 Ambulatory Coding and Classification (3 Cr.)

Focuses on disease and procedure classification in the ambulatory care environment. Develops basic coding and classification knowledge using ICD-9-CM and CPT. Not Intended for HIT majors. *Prerequisite:* *Readiness to enroll in ENG 111.* Lecture 3 hours per week. Generally offered fall.

Course Descriptions

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: Readiness to enroll in ENG 111. Lecture 3 hours per week. Generally offered spring.

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:* Readiness to enroll in ENG 111. Lecture 3 hours per week. Generally offered spring.

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. *Prerequisites:* Readiness to enroll in ENG 111, HIM 253 and AST 101, AST 102 or AST 141. Lecture 3 hours per week. Generally offered summer.

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:* Readiness to enroll in ENG 111. Lecture 2 hours per week. Generally offered spring.

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:* Readiness to enroll in ENG 111. Lecture 2 hours per week. Offered periodically fall.

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:* ENG 111 placement required. Lecture 1 hour. Laboratory 2 hours. Total 3 hours per week. Generally offered spring.

HIM 230 Information Systems and Technology in Health Care (3 Cr.)

Explores computer technology and systems application in health care. Introduces the information system life cycle.

Prerequisite: Readiness to enroll in ENG 111. Lecture 2 hours per week. Laboratory 2 hours per week. Total 4 hours per week. Generally offered fall.

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:* Readiness to enroll in ENG 111 and HIM 111, HIM 112, HIM 250 and BIO 141 and BIO 142 or BIO 145 or NAS 150. Laboratory 6 hours per week. Generally offered fall.

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. *Prerequisites:* Readiness to enroll in ENG 111 and HIM 231. Part II of II. Laboratory 6 hours per week. Generally offered spring.

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. *Prerequisite:* Readiness to enroll in ENG 111. Lecture 3 hours per week. Generally offered fall.

HIM 250 Health Data Classification Systems I: ICD-9-CM (4 Cr.)

Focuses on diagnosis and procedure classification using ICD-9-CM. This system is currently utilized for collecting health data for the purposes of statistical research and financial reporting. *Prerequisites:* Readiness to enroll in ENG 111 and BIO 145 and HIM 112. Lecture 4 hours per week. Generally offered spring.

HIM 253 Health Records Coding (4 Cr.)

Examines the development of coding classification systems. Introduces ICD-9-CM coding classification system, its format and conventions. Stresses basic coding steps and guidelines according to body systems. Provides actual coding exercises in relation to each system covered. *Prerequisites:* Readiness to enroll in ENG 111, HIM 111 and BIO 145 or BIO 141 and BIO 142. Lecture 4 hours per week. Generally offered spring.

Course Descriptions

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-9-CM coding. *Prerequisites:* HIM 253 and HIM 112. Lecture 4 hours per week. Generally offered summer.

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. *Prerequisites:* Readiness to enroll in ENG 111 and HIM 112, BIO 145, and HIM 25. Lecture 2 hours per week. Generally offered fall.

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:* Readiness to enroll in ENG 111. Lecture 2-3 hours per week. Generally offered spring and summer.

HIM 265 Facility Based Medical Coding (3 Cr.)

Students will learn to accurately assign CPT, ICD-9 Level 1, 2 and 3, in addition to HCPCS codes for inpatient, outpatient facility, and ambulatory surgical centers according to guidelines and rules set forth by the cooperating parties. Students will apply the theory and regulations concerning prospective payments systems (in and out of the facility setting) APC and DRG assignment. *Prerequisite:* Readiness to enroll in ENG 111. *Instructor permission required.* Lecture 3 hours per week. Generally offered spring.

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. May be repeated for credit. 3 credits. Generally offered spring and summer.

HIM 296 On-Site Training (1 Cr.)

Specializes in career orientation and training program without pay in selected businesses and industry, supervised and coordinated by the college. Credit/work ratio not to exceed 1:5 hours. May be repeated for credit. 1-5 credits. Generally offered spring and summer.

History (HIS)

HIS 111-112 History of World Civilization I-II (3 Cr.) (3 Cr.)

Surveys Asian, African, Latin American and European civilizations from the ancient period to the present. *Prerequisite:* Readiness to enroll in ENG 111. Lecture 3 hours per week. Generally offered all semesters.

HIS 121-122 United States History I-II (3 Cr.)

Surveys United States history from its beginning to the present. *Prerequisite:* Readiness to enroll in ENG 111. Lecture 3 hours per week. Generally offered all semesters.

HIS 141-142 African-American History I-II (3 Cr.) (3 Cr.)

Surveys the history of black Americans from their African origins to the present. *Prerequisite:* Readiness to enroll in ENG 111. Lecture 3 hours per week. Offered periodically.

HIS 193 Studies In (1-5 Cr.)

Covers new content not covered in existing courses in the discipline. Allows instructor to explore content and instructional methods to assess the course's viability as a permanent offering. Variable hours per week. Offered periodically.

HIS 251-252 History of Middle East Civilization I-II (3 Cr.) (3 Cr.)

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:* Readiness to enroll in ENG 111. Lecture 3 hours per week. Offered alternate two year cycle with HIS 253.

HIS 253 -254 History of Asian Civilizations I-II (3 Cr.) (3 Cr.)

Surveys the civilizations of Asia from their origins to the present. *Prerequisite:* Readiness to enroll in ENG 111. Lecture 3 hours per week. Offered alternate two year cycle with HIS 251-252.

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:* Readiness to enroll in ENG 111. Lecture 3 hours per week. Offered periodically.

Course Descriptions

HIS 268 The American Constitution (3 Cr.)

Analyzes the origin and development of the United States Constitution. Includes the evolution of civil liberties, property rights, contracts, due process, judicial review, federal-state relationships, and corporate-government relations. *Prerequisite: Readiness to enroll in ENG 111.* Lecture 3 hours per week. Offered periodically.

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: Readiness to enroll in ENG 111.* Lecture 3 hours per week. Course generally offered spring.

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: Readiness to enroll in ENG 111.* Lecture 3 hours per week. Offered periodically.

Humanities (HUM)

HUM 100 Survey of the Humanities (3 Cr.)

Introduces the humanities through art, literature, music and philosophy of various cultures and historical periods. *Prerequisite: Readiness to enroll in ENG 111.* Lecture 3 hours per week. Offered periodically.

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: Readiness to enroll in ENG 111.* Lecture 3 hours per week. Offered periodically.

HUM 195 Cultural Literacy (3 Cr.)

Develops in students a broader knowledge of the people, places, and events necessary for an educated understanding of allusions. The focus will be on the wider comprehension of all college material with the emphasis on critical reading to the goal of effective understanding of orally presented class material. Content learned will serve as a road base of understanding that should precede all Humanities classes. The use of allusions in these classes is a viable teaching strategy that enables a deeper, clearer understanding of contexts. *Prerequisite: 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: Readiness to enroll in ENG 111.* Lecture 3 hours per week. Generally offered all semesters.

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: Readiness to enroll in ENG 111.* Lecture 3 hours per week. Generally offered all semesters.

HUM 211-212 Survey of American Culture I-II (3 Cr.) (3 Cr.)

Examines elements of our national culture as they evolved from the first European explorations through colonization and independence to the present day. *Prerequisite: Readiness to enroll in ENG 111.* Lecture 3 hours per week. Offered periodically.

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: Readiness to enroll in ENG 111.* Lecture 3 hours per week. Offered periodically.

HUM 218 Survey of Horror (3 Cr.)

Surveys and analyzes the horror genre, focusing on the psychological, anthropological, and historical background of monsters. Acquaints students with recurring horror themes in literature, art, and popular culture from around the world. Fluency in Standard American English. *Prerequisite: Readiness to enroll in ENG 111.* Lecture 3 hours per week. Offered periodically.

HUM 241-242 Interdisciplinary Principles of the Humanities I-II (3 Cr.) (3 Cr.)

Integrates unifying principles of the humanities and related fields of study. Emphasizes the expansion of student's intellectual perspective and development of concepts enabling the integration of knowledge from diverse fields into a unified whole. *Prerequisite: Readiness to enroll in ENG 111.* Lecture 3 hours per week. Offered periodically.

Course Descriptions

HUM 260 Survey of Twentieth-Century Culture (3 Cr.)

Explores literature, visual arts, philosophy, music and history of our time from an interdisciplinary perspective. *Prerequisite: Readiness to enroll in ENG 111.* Lecture 3 hours per week. Offered periodically.

HUM 295 Topics In (3 Cr.)

Provides an opportunity to explore topical areas of interest to or needed by students. May be used also for special honors course. *Prerequisite: Readiness to enroll in ENG 111.* May be repeated for credit. Variable hours 1-5 credits. Offered periodically.

HUM 295 Phi Theta Kappa Honors Seminar (1 Cr.)

Explores honors topic selected annually by Phi Theta Kappa, the national honor society for two-year colleges. Presents varied faculty viewpoints and encourages students to research and present individual aspects of a topic. Offered for honors credit. Students may enroll more than once. *Reading prerequisite required.* Faculty permission required. Lecture 2 hours per week. Laboratory 3 hours per week. Total 5 hours per week. Generally offered fall and spring. Generally offered fall and spring.

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. Lecture 2 hours. Laboratory 2 hours. Total 4 hours per week. Generally offered spring.

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: Readiness to enroll in ENG 111. ITE 115 (or equivalent) strongly recommended.* Lecture 3 hours per week. Generally offered fall.

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: Readiness to enroll in ENG 111. ITD 110 (or equivalent) strongly recommended.* Lecture 3 hours per week. Generally offered fall.

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: Readiness to enroll in ENG 111. ITE 115 (or equivalent) strongly recommended.* Lecture 3 hours per week. Generally offered fall; occasionally summer.

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: Readiness to enroll in ENG 111 and ITD 130.* Lecture 3 hours per week. Generally offered fall.

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. *Prerequisites: Readiness to enroll in ENG 111, ITP 100 and ITD 130.* Lecture 3 hours per week. Generally offered fall or spring.

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). *Prerequisites: Readiness to enroll in ENG 111 and ITD 110.* Lecture 3 hours per week. Generally offered spring.

ITD 220 e-Commerce Administration (3 Cr.)

Emphasizes techniques to plan and to design a platform-independent commerce Web site. Focuses on Web business strategies and the hardware and software tools necessary for Internet commerce, including comparison and selection of commerce architecture, installation and configuration, security considerations and planning of a complete business-to-consumer and a business-to-business site. *Prerequisite: Readiness to enroll in ENG 111. ITD 110 (or equivalent) strongly recommended.* Lecture 3 hours per week. Generally offered fall.

ITD 250 Database Architecture and Administration (3 Cr.)

Involves in-depth instruction about the underlying architecture of databases and the handling of database administration. *Prerequisites: Readiness to enroll in ENG 111, ITD 130 and ITD 132 or ITD 134.* Lecture 3 hours per week. Generally offered fall or spring.

Course Descriptions

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. *Prerequisites: Readiness to enroll in ENG 111 and AST 101 or equivalent highly recommended.* Lecture 3 hours per week. Generally offered all semesters.

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: Readiness to enroll in ENG 111. ITE 115 recommended.* Lecture 3 hours per week. Generally offered spring; occasionally summer.

Information Technology Networking (ITN)

ITN 106 Microcomputer Operating Systems (3 Cr.)

Teaches use of operating system utilities and multiple-level directory structures, creation of batch files and configuration of microcomputer environments. May include a study of graphical user interfaces. Maps to A+ Software Certification. *Prerequisite: Readiness to enroll in ENG 111.* Lecture 3 hours per week. Generally offered spring.

ITN 107 Personal Computer Hardware and 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: Readiness to enroll in ENG 111.* Lecture 3 hours per week. Generally offered fall.

ITN 109 Internet and Network Foundations (3 Cr.)

Provides a basic comprehension of Internet and network technologies including IT job roles, connection methods, TCP/IP functionality and DNS. Explores Web server technologies with security and project management concepts. Introduces network creation, physical and logical topologies including media properties, server types, IP addressing and network security. *Prerequisite: Readiness to enroll in ENG 111.* Lecture 3 hours per week. Generally offered fall; occasionally summer.

ITN 120 Wireless – Network Administration (WNA) (3 Cr.)

Provides instruction in fundamentals of wireless information systems. Course content includes terms, standards, components and operating requirements in the design and implementation of wireless networks. *Prerequisite: Readiness to enroll in ENG 111. ITN 109 strongly recommended.* Lecture 3 hours per week. Generally offered spring.

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. *Prerequisites: Readiness to enroll in ENG 111 and ITN 106.* Lecture 3 hours per week. Generally offered spring.

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. *Prerequisites: Readiness to enroll in ENG 111, ITN 106 and ITN 109.* Lecture 3 hours per week. Generally offered fall.

ITN 201 Administration & Management of Network Infrastructures (3 Cr.)

Focuses on the administration and management of network infrastructures. Covers network addressing of clients and servers, naming resolution, remote access, security, printing services, and troubleshooting. Uses network operating system as the delivery tools. *Prerequisites: Readiness to enroll in ENG 111 and ITN 200.* Lecture 3 hours per week. Generally offered spring.

ITN 224 Web Server Management (3 Cr.)

Focuses on the Web Server as a workhorse of the World Wide Web (WWW). Teaches how to set up and maintain a Web server and provides in-depth instruction in Web server operations and provides hands-on experience in installation and maintenance of a Web server. *Prerequisites: Readiness to enroll in ENG 111, ITD 110 and ITN 109.* Lecture 3 hours per week. Generally offered spring.

Course Descriptions

ITN 260 Network 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. *Prerequisites: Readiness to enroll in ENG 111 and ITN 109. Networking background highly recommended.* Lecture 3 hours per week. Generally offered fall or spring; occasionally summer.

ITN 261 Network Attacks, Computer Crime and Hacking (4 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. *Prerequisites: Readiness to enroll in ENG 111 and ITN 260. Networking background required.* Lecture 3 hours per week. Generally offered fall.

ITN 262 Network Communication, Security and Authentication (4 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. *Prerequisites: Readiness to enroll in ENG 111, ITN 106 (or equivalent) and ITN 260. Networking background highly recommended.* Lecture 3 hours per week. Generally offered fall.

ITN 263 Internet/Intranet Firewalls and E-Commerce Security (4 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). *Prerequisites: Readiness to enroll in ENG 111, ITN 106 (or equivalent) and ITN 260. Networking background highly recommended.* Lecture 3 hours per week. Generally offered spring.

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: 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: ITN 260.* Lecture 3 hours per week. Generally offered spring; occasionally summer.

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: ITN 106, ITN 107 or instructor permission. Co-requisite: ITN 260.* Lecture 3 hours per week. Generally offered spring; occasionally summer.

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: Readiness to enroll in ENG 111.* Lecture 3 hours per week. Generally offered spring; occasionally fall and summer.

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. *Prerequisites: Readiness to enroll in ENG 111 and ITP 100.* Lecture 3 hours per week. Generally offered fall.

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: Readiness to enroll in ENG 111 and ITP 100.* Lecture 4 hours per week. Generally offered fall.

Course Descriptions

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. *Prerequisites:* Readiness to enroll in ENG 111 and ITP 100. Lecture 3 hours per week. Generally offered fall or spring.

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. *Prerequisites:* Readiness to enroll in ENG 111 and ITP 112. Lecture 4 hours per week. Generally offered spring.

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. Lecture 4 hours per week. Generally offered spring.

ITP 225 Web Scripting Languages (4 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. *Prerequisites:* Readiness to enroll in ENG 111, ITD 110 and ITP 100. A semester of high-level programming language (e.g., ITP 120) is strongly recommended. Lecture 4 hours per week. Generally offered spring.

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:* 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:* Readiness to enroll in ENG 111. Lecture 3 hours per week. Generally offered spring.

Interpreter Education (INT)

INT 105-106 Interpreter Education (3 Cr.) (3 Cr.)

Develops fundamental skills of interpreting, including cognitive processes and intralingual 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. Generally offered summer.

INT 130 Interpreting: An Introduction 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. Generally offered fall.

Legal Administration (LGL)

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:* Readiness to enroll in ENG 111. Lecture 3 hours per week. Generally offered fall.

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:* Readiness to enroll in ENG 111. Lecture 3 hours per week. Generally offered fall.

Course Descriptions

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: Readiness to enroll in ENG 111. Lecture 3 hours per week. Generally offered summer and fall.

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: Readiness to enroll in ENG 111.* Lecture 3 hours per week.

Generally offered fall.

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: Readiness to enroll in ENG 111.* Lecture 3 hours per week. Generally offered spring

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: Readiness to enroll in ENG 111.* Lecture 1 hour per week. Generally offered summer and fall.

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: Readiness to enroll in ENG 111.* Lecture 3 hours per week. Generally offered spring.

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: Readiness to enroll in ENG 111.* Lecture 3 hours per week. Generally offered spring.

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: Readiness to enroll in ENG 111. Lecture 3 hours per week. Generally offered spring.

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: Readiness to enroll in ENG 111.*

Lecture 3 hours per week. Generally offered summer.

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: Readiness to enroll in ENG 111. Lecture 3 hours per week. Generally offered spring.

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: Readiness to enroll in ENG 111.* Lecture 3 hours per week. Generally offered spring

LGL 234 Intellectual Property Law (3 Cr.)

Presents outline of federal copyright and federal and state trademark law. Examines the functions of legal assistants in preparing registrations as well as infringement litigation. Covers related areas of law including trade secrecy and differences between various types of intellectual property. Examines the basics of patent law. *Prerequisite: Readiness to enroll in ENG 111.* Lecture 3 hours per week. Occasionally offered summer.

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: Readiness to enroll in ENG 111.* Lecture 3 hours per week. Generally offered fall.

Course Descriptions

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: Readiness to enroll in ENG 111.* Lecture 3 hours per week. Occasionally offered summer or fall.

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: Readiness to enroll in ENG 111.* Lecture 3 hours per week. Generally offered summer; occasionally offered fall.

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: Readiness to enroll in ENG 111.* Lecture 3 hours per week. Occasionally offered summer or fall.

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. Generally offered fall and spring.

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. Generally offered spring.

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. Generally offered summer.

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. Generally offered fall and spring.

Mathematics (MTE and MTH)

MTE 1 Operations-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: Qualifying placement score.* Lecture 1 hour per week. Generally offered all semesters.

MTE 2 Operations-Positive Dec & 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. Generally offered all semesters.

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. Generally offered all semesters.

Course Descriptions

MTE 4 First Degree Equations and Inequalities in One Variable (1 Cr.)

Includes solving first degree equations and inequalities containing one variable, and using them to solve application problems. Emphasizes applications and problem solving. Credit is not applicable toward graduation. *Prerequisite(s): MTE 3 or qualifying placement score.* Lecture 1 hour per week. Generally offered all semesters.

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. Generally offered all semesters.

MTE 6 Exponents, Factoring and Polynomial Equations (1 Cr.)

The student will learn to perform operations on exponential expressions and polynomials. Students will also learn techniques to factor polynomials and use these techniques to solve polynomial equations. Emphasis should be on learning all the different factoring methods, and solving application problems using polynomial equations. Credit is not applicable toward graduation. *Prerequisite(s): MTE 5 or qualifying placement score.* Lecture 1 hour per week. Generally offered all semesters.

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. Generally offered all semesters.

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. Generally offered all semesters.

MTE 9 Functions, Quadratic Equations and Parabolas (1 Cr.)

Includes an introduction to functions in ordered pair, graph, and equation form. Also introduces quadratic functions, their properties and their graphs. Credit is not applicable toward graduation. *Prerequisite(s): MTE 8 or qualifying placement score.* Lecture 1 hour per week. Generally offered all semesters.

MTH 103-104 Applied Technical Mathematics I-II (3 Cr.) (3 Cr.)

Presents a review of arithmetic, elements of algebra, geometry and trigonometry. Directs applications to specialty areas. *Prerequisites: Competency in Math Essentials MTE 1-3 as demonstrated through the placement and diagnostic tests, or by satisfactorily completing the required MTE units or equivalent.* Lecture 3 hours per week. Offered periodically.

MTH 115-116 Technical Mathematics I- II (3 Cr.) (3 Cr.)

Presents algebra through exponential and logarithmic functions, trigonometry, vectors, analytic geometry and complex numbers. *Prerequisites: Competency in Math Essentials MTE 1-6 as demonstrated through the placement and diagnostic tests, or by satisfactorily completing the required MTE units or equivalent.* Lecture 3 hours per week. Generally offered fall.

MTH 120 Introduction to Mathematics (3 Cr.)

Introduces number systems, logic, basic algebra, systems of equations and descriptive statistics. *Prerequisites: Competency in Basic Skills BSK 1 as demonstrated through the placement and diagnostic tests, or by satisfactorily completing the required BSK unit or equivalent.* (Intended for occupational/ technical programs.) Lecture 3 hours per week. Generally offered all semesters.

MTH 126 Mathematics for Allied Health (3 Cr.)

Presents scientific notation, precision and accuracy, decimals and percents, ratio and proportion, variation, simple equations, techniques of graphing, use of charts and tables, logarithms and the metric system. *Prerequisites: Competency in Basic Skills BSK 1 as demonstrated through the placement and diagnostic tests, or by satisfactorily completing the required BSK unit or equivalent.* Lecture 3 hours per week. Generally offered all semesters.

MTH 150 Topics in Geometry (3 Cr.)

Presents the fundamentals of plane and solid geometry and introduces non-Euclidean geometries and current topics. *Prerequisites: Competency in Math Essentials MTE 1-5 as demonstrated through the placement and diagnostic tests, or by satisfactorily completing the required MTE units or equivalent.* Lecture 3 hours per week. Offered periodically.

Course Descriptions

MTH 151 Mathematics for the Liberal Arts I (3 Cr.)

Presents topics in sets, logic, numeration systems, geometric systems and elementary computer concepts. *Prerequisites: Competency in Math Essentials MTE 1-5 as demonstrated through the placement and diagnostic tests, or by satisfactorily completing the required MTE units or equivalent.* Lecture 3 hours per week. Generally offered all semesters.

MTH 152 Mathematics for the Liberal Arts II (3 Cr.)

Presents topics in functions, combinations, probability, statistics and algebraic systems. *Prerequisites: Competency in Math Essentials MTE 1-5 as demonstrated through the placement and diagnostic tests, or by satisfactorily completing the required MTE units or equivalent.* Lecture 3 hours per week. Generally offered all semesters.

MTH 158 College Algebra (3 Cr.)

Covers the structure of complex number systems, polynomials, rational expressions, graphing, systems of equations and inequalities and functions, quadratic and rational equations and inequalities. *Prerequisites: Competency in Math Essentials MTE 1-6 as demonstrated through the placement and diagnostic tests, or by satisfactorily completing the required MTE units or equivalent.* Lecture 3 hours per week. Generally offered all semesters.

MTH 163 Precalculus I (3 Cr.)

Presents college algebra, matrices and algebraic, exponential and logarithmic functions. *Prerequisites: Competency in Math Essentials MTE 1-9 as demonstrated through the placement and diagnostic tests, or by satisfactorily completing the required MTE units or MTE 1-6 and MTH 158.* Lecture 3 hours per week. Generally offered all semesters.

MTH 164 Precalculus II (3 Cr.)

Presents trigonometry, analytic geometry and sequences and series. *Prerequisite: MTH 163 or equivalent.* Lecture 3 hours per week. Generally offered all semesters.

MTH 173 Calculus with Analytic Geometry I (5 Cr.)

Presents analytic geometry and the calculus of algebraic and transcendental functions including the study of limits, derivatives, differentials and introduction to integration along with their applications. Designed for mathematical, physical and engineering science programs. *Prerequisites: Placement recommendation for MTH 173 and four units of high school mathematics including Algebra I, Algebra II, Geometry and Trigonometry or equivalent.* Lecture 5 hours per week. Generally offered fall and spring.

MTH 174 Calculus with Analytic Geometry II (5 Cr.)

Continues the study of analytic geometry and the calculus of algebraic and transcendental functions including rectangular, polar and parametric graphing, indefinite and definite integrals, methods of integration and power series along with applications. Designed for mathematical, physical and engineering science programs. *Prerequisite: MTH 173 or equivalent.* Lecture 5 hours per week. Generally offered spring.

MTH 240 Statistics (3 Cr.)

Presents an overview of statistics, including descriptive statistics, elementary probability, probability distributions, estimation, hypothesis testing, and correlation and regression. *Prerequisites: Competency in Math Essentials MTE 1-9 as demonstrated through the placement and diagnostic tests, or by satisfactorily completing the required MTE units or MTE 1-6 and MTH 158.* Lecture 3 hours per week. Generally offered all semesters.

MTH 271 Applied Calculus I (3 Cr.)

Presents limits, continuity, differentiation of algebraic and transcendental functions with applications and an introduction to integration. *Prerequisite: MTH 163 or MTH 166 or equivalent.* Lecture 3 hours per week. Generally offered all semesters.

MTH 272 Applied Calculus II (3 Cr.)

Covers techniques of integration; multivariable calculus and an introduction to differential equations. *Prerequisite: MTH 271 or equivalent.* Lecture 3 hours per week. Generally offered spring.

MTH 275 Multivariable Calculus and Linear Algebra (4 Cr.)

Presents vector valued functions, partial derivatives, multiple integrals, matrices, vector spaces, determinants, solutions of systems of linear equations, basis and dimension eigenvalues and eigenvectors. Designed for mathematical, physical and engineering science programs. *Prerequisite: MTH 174 or equivalent.* Lecture 4 hours per week. Generally offered all semesters.

MTH 277 Vector Calculus (4 Cr.)

Presents vector valued functions, partial derivatives, multiple integrals and topics from the calculus of vectors. Designed for mathematical, physical and engineering science programs. *Prerequisite: MTH 174 or equivalent.* Lecture 4 hours per week. Generally offered all semesters.

Course Descriptions

MTH 285 Linear Algebra (3 Cr.)

Covers matrices, vector spaces, determinants, solutions of systems of linear equations, basic and dimension, eigenvalues and eigenvectors. Designed for mathematical, physical and engineering science programs. *Prerequisite:* MTH 174 or equivalent. Lecture 3 hours per week. Generally offered all semesters.

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. Generally offered fall.

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. Generally offered spring.

MEC 113 Materials and Processes of Industry (3 Cr.)

Studies industrial/engineering materials and accompanying industrial processes. Investigates nature of materials structure and properties from a design standpoint, leading to a more intelligent selection of a material to fit the requirements of a part or product. Analyzes the effects of the various processes on materials, as well as the processes themselves to ensure a logical and systematic procedure for selection of materials. Lecture 3 hours per week. Generally offered fall.

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 hours per week. Total 4 hours per week. Offered occasionally, as needed.

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:* Readiness to enroll in ENG 111. Lecture 3 hours per week. Generally offered spring.

MDA 206 Medical Office Bookkeeping and Insurance (4 Cr.)

Instructs the student in the practice of bookkeeping and insurance programs, laws, and the processing of claim forms. *Prerequisite:* Readiness to enroll in ENG 111. Lecture 3 hours. Laboratory 3 hours. Total 6 hours per week. Generally offered summer.

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:* Readiness to enroll in ENG 111. Lecture 2 hours per week. Generally offered fall and spring.

Medical Laboratory (MDL)

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. *Prerequisite:* MDL 105. Lecture 3 hours. Generally offered summer and fall.

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. Lecture 2 hours. Laboratory 6 hours. Total 8 hours per week. Generally offered fall and spring.

Course Descriptions

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. Laboratory 2 hours. Total 5 hours per week. Generally offered fall.

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. Laboratory 2 hours. Total 5 hours per week. Generally offered spring.

MUS 121-122 Music Appreciation I-II (3 Cr.) (3 Cr.)

Increases the variety and depth of the student's interest, knowledge, and involvement in music and related cultural activities. Acquaints the student with traditional and twentieth century music literature, emphasizing the relationship music has as an art form with man and society. Increased the student's awareness of the composers and performers of all eras through listening and concert experiences. Lecture 3 hours per week. Generally offered fall and spring.

MUS 136 Applied Music-Voice (1-2 Cr.)

Teaches singing, proper breath control, diction, and development of tone. Studies the standard vocal repertoire. Prerequisite 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. One or two half-hour lessons per week. Four to eight hours practice required. Laboratory 4-8 hours per week. Generally offered fall and spring.

MUS 137 Chorus Ensemble (1-2 Cr.)

Ensemble consists of performance from the standard repertoires, including study of ensemble techniques and interpretation. *Divisional approval required.* May be repeated for credit. Laboratory 3-6 hours per week. Generally offered fall and spring.

MUS 145 Applied Music - Keyboard (1-2 Cr.)

Teaches piano, organ, harpsichord, or synthesizer. Studies the standard repertoire. Prerequisite 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) required. Laboratory 4-8 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. Laboratory 3 hours. Total 5 hours per week. Generally offered fall and spring.

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. Laboratory 3 hours. Total 5 hours per week. Generally offered spring.

MUS 165 Applied Music - Strings (1-2 Cr.)

Teaches fundamentals of string instruments, harp, or guitar. Studies the standard repertoire. *Prerequisite: 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) required. Laboratory 4-8 hours per week. Generally offered fall and spring; periodically summer.

MUS 185 Applied Music - Percussion (1-2 Cr.)

Teaches fundamentals of percussion instruments. Studies the standard repertoire. Prerequisite divisional permission. 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) required. Laboratory 4-8 hours per week. Offered fall and spring.

Course Descriptions

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. Generally offered all semesters.

NAS 130 - 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. Total 6 hours per week. Generally offered all semesters.

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. Offered fall and spring.

Nursing (NUR)

NUR 27 Nurse Aide I (4 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 patient feeding; and death and dying. May include laboratory or clinical hours per week. Lecture 2 hours per week. Laboratory 4 hours per week. Total 6 hours per week. Generally offered fall.

NUR 29 Home Health Aide (3 Cr.)

Emphasizes caring for older patients; includes social, emotional and spiritual needs; procedures; communication; charting; reporting; infection control; safety; anatomy and physiology, nutrition; personal care; death and dying. Provides clinicals in nursing home/patient's residence. Lecture 1-2 hours. Laboratory 3 hours. Total 4-5 hours per week. Generally offered fall.

NUR 31 Advanced Skills for Nurse Aides (3 Cr.)

Teaches advanced level skills for Certified Nurse Aides. Lecture 1-2 hours. Laboratory 3-6 hours. Total 4-7 hours per week. Generally offered fall.

NUR 105 Nursing Skills (3 Cr.)

Develops nursing skills for the basic needs of individuals and introduces related theory. Provides supervised learning experiences in college nursing laboratories and/or cooperating agencies. Lecture 0-2 hours. Laboratory 2-9 hours per week. Total 7 hours per week. Generally offered fall.

NUR 108 Nursing Principles and Concepts I (5 Cr.)

Introduces principles of nursing, health and wellness concepts, and the nursing process. Identifies nursing strategies to meet the multidimensional needs of individuals. Includes math computational skills, basic computer instruction related to the delivery of nursing care, introduction to the profession of nursing, nursing process, documentation; basic needs related to integumentary system, teaching/learning, stress, psychosocial, safety, nourishment, elimination, oxygenation, circulation, rest, comfort, sensory, fluid and electrolyte and mobility needs in adult clients. Also includes care of the pre/post-operative client. Provides supervised learning experience in college nursing laboratories and/or cooperating agencies. Lecture 1-5 hours per week. Laboratory 2-15 hours per week. Total 7-16 hours per week. Generally offered spring.

NUR 115 LPN Transition (2 Cr.)

Introduces the role of the registered nurse through concepts and skill development in the discipline of professional nursing. This course serves as a bridge course for licensed practical nurses and is based upon individualized articulation agreements, mobility exams or other assessment criteria as they relate to local programs and service areas. Includes math computational skills and basic computer instruction related to the delivery of nursing care. (This course has been approved by the vice chancellor as an exception to the variable credit policy.) Lecture 1-7 hours per week. Laboratory 0-18 hours per week. Total 2-19 hours per week. Generally offered summer.

NUR 116 Selected Nursing Concepts (2 Cr.)

Introduces selected basic skills and concepts in the discipline of nursing and their incorporation into care to meet the changing standards of nursing practice. Intended as a transition/refresher course for transfer and returning students. Lecture 0-2 hour per week. Laboratory 2 hours per week. Laboratory 0-6 hours per week. Total 1-6 hours per week. Generally offered summer and fall.

NUR 136 Principles of Pharmacology I (2 Cr.)

Teaches principles of medication administration which include dosage calculations, major drug classifications, drug legislation, legal aspects of medication administration, drug action on specific body systems and basic computer applications. Lecture 1-2 hours per week. Generally offered fall.

Course Descriptions

NUR 180 Essentials of Maternal/Newborn Nursing (3 Cr.)

Utilizes the concepts of the nursing process in caring for families in the antepartum, intrapartum and postpartum periods. Includes math computational skills and basic computer instruction related to the delivery of nursing care. Provides supervised learning experiences in college nursing laboratories and/or cooperating agencies. Lecture 2-3 hours per week. Laboratory 2-6 hours per week. Total 2-8 hours per week. Generally offered fall.

NUR 199 Supervised Study (1 Cr.)

Assigns problems for independent study incorporating previous instruction and supervised by the instructor. May be repeated for credit. Occasionally offered spring.

NUR 200 Essentials of Mental Health Nursing (3 Cr.)

Utilizes the concepts of the nursing process in caring for individuals, families, and/or groups with mental health needs across the life span. Includes math computational skills and basic computer instruction related to the delivery of nursing care. Provides supervised learning experiences in college nursing laboratories and/or cooperating agencies. Prerequisites to be determined by local college. Lecture 2 hours. Laboratory 2-3 hours. Total 4-5 hours per week. Generally offered spring semester.

NUR 221-222 Second Level Nursing Principles and Concepts I-II (9 Cr.) (9 Cr.)

Focuses on nursing care of individuals, families and/or groups with multidimensional needs in a variety of settings. Uses all components of the nursing process with increasing degrees of skill. Includes math computational skills and basic computer instruction related to the delivery of nursing care. Provides supervised learning experiences in college nursing laboratories and/or cooperating agencies. Lecture 1-9 hours per week. Laboratory 2-27 hours per week. Total 11-27 hours per week. NUR 221 generally offered fall; NUR 222 generally offered spring.

NUR 226 Health Assessment (2-3 Cr.)

Teaches the systematic approach to obtaining a health history and performing a physical assessment. Lecture 1 hour. Laboratory 0-2 hours per week. Laboratory 2-9 hours per week. Total 3 hours per week. Generally offered spring.

NUR 255 Nursing Organization and Management (2 Cr.)

Addresses management and organizational skills as they relate to nursing. Emphasizes group dynamics, resolution of conflicts and leadership styles. Lecture 2-3 hours per week. Generally offered spring.

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: Readiness to enroll in ENG 111.* Lecture 3 hours per week. Generally offered all semesters.

PHI 112 Logic II (3 Cr.)

Evaluates deductive arguments utilizing methods of symbolic logic. Lecture 3 hours.

PHI 115 - Practical Reasoning (3 Cr.)

Studies informal logic and language techniques as they relate to reasoning and argument. Provides practice in analyzing arguments and constructing sound arguments. Lecture 3 hours per week. Generally offered all semesters.

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: Readiness to enroll in ENG 111.* Lecture 3 hours per week. Generally offered all semesters.

PHI 227 Bio-Medical Ethics (3 Cr.)

Examines the ethical implications of specific biomedical issues in the context of major ethical systems. *Prerequisite: Readiness to enroll in ENG 111.* Lecture 3 hours per week. Generally offered spring.

Photography (PHT)

PHT 101-102 Photography I-II (3 Cr.) (3 Cr.)

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. Generally offered fall and spring.

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. Total 4 hours per week. Generally offered fall and spring.

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. Laboratory 4 hours. Total 5 hours per week. Offered periodically.

Course Descriptions

PHT 201-202 Advanced Photography I-II (3 Cr.) (3 Cr.)

Provides weekly critiques of students' work. Centers on specific problems found in critiques. Includes working procedures and critical skills in looking at photographs. *Prerequisite: PHT 102 or equivalent.* Lecture 2 hours per week. Laboratory 3 hours per week. Total 5 hours per week. Offered periodically.

PHT 211-212 Color Photography I-II (3 Cr.) (3 Cr.)

Introduces theory, materials and processes of modern color images. Includes additive and subtractive theory, color filtration and negative and positive printing techniques. *Prerequisite: PHT 101 or equivalent. Prerequisite for 212: PHT 211.* Lecture 2 hours per week. Laboratory 3 hours per week. Total 5 hours per week. Offered periodically.

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: PHT 107 or instructor approval.* Lecture 2 hours per week. Laboratory 2 hours per week. Total 4 hours per week. Offered periodically.

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. Offered periodically.

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. *Prerequisites: PHT 101 and ART 283.* Lecture 2 hours per week. Laboratory 3 hours per week. Total 5 hours per week. Offered periodically.

Physical Education and Recreation (PED)

PED 100 Pilates (1 Cr.)

Provides a method of mind-body exercise and physical movement designed to stretch, strengthen, balance the body, and improve posture and core stabilization while increasing body awareness. Lecture 0 hours. Laboratory 2 hours. Total 2 hours per week. Generally offers all semesters.

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. Laboratory 2 hours. Total 3 hours per week. Generally offers all semesters.

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. Lecture 0 hours. Laboratory 2 hours per week. Total 2 hours per week. Generally offered all semesters.

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. Laboratory 2 hours. Total 3 hours per week. Generally offered all semesters.

PED 109 Yoga (2 Cr.)

Focuses on the forms of yoga training emphasizing flexibility. Lecture 1 hour. Laboratory 2 hours. Total 3 hours per week. Generally offered all semesters.

PED 111-112 Weight Training I-II (2 Cr.) (2 Cr.)

Focuses on muscular strength and endurance training through individualized workout programs. Teaches appropriate use of weight training equipment. Lecture 1 hour. Laboratory 2 hours. Total 3 hours per week. Generally offered fall and spring.

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. Lecture 0 hours. Laboratory 2 hours per week. Total 2 hours per week. Generally offered all semesters.

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. Generally offered all semesters.

Course Descriptions

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. Generally offered fall and spring.

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. Offered summer at Fauquier.

PED 133-134 Golf I-II (1 Cr.) (1 Cr.)

Teaches basic skills of golf, rules, etiquette, scoring, terminology, equipment selection and use and strategy. Lecture 0 hours. Laboratory 2 hours per week. Total 2 hours per week. Generally offered fall and spring.

PED 135-136 Bowling I-II (1 Cr.) (1 Cr.)

Teaches basic bowling skills and techniques, scoring, rules, etiquette and terminology. Lecture 0 hours. Laboratory 2 hours per week. Total 2 hours per week. Generally offered fall and spring.

PED 141 Swimming I (1 Cr.)

Introduces skills and methods of swimming strokes. Focuses on safety and physical conditioning. Part I of II. Lecture 0 hours. Laboratory 2 hours. Total 2 hours per week. Generally offers all semesters.

PED 142 Swimming II (1 Cr.)

Introduces skills and methods of swimming strokes. Focuses on safety and physical conditioning. Part II of II. Lecture 0 hours. Laboratory 2 hours per week. Total 2 hours per week. Generally offers all semesters.

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. Lecture 0 hours. Laboratory 2 hours per week. Total 2 hours per week. Generally offered spring.

PED 149 Cardio Sculpt I (1 Cr.)

Combines strength training and cardiovascular workouts that strengthen the major muscle groups as well as developing endurance. Utilizes the use of weights, balls and bands, fitness equipment or a combination thereof that promote cardiovascular endurance and develops muscle strength. Benefits all levels of participation. Lecture 0 hours. Laboratory 2 hours per week. Total 2 hours per week. Generally offered fall and spring.

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. Part I of II. Lecture 0 hours. 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. 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. 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. Generally offered fall and spring.

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.

Physics (PHY)

PHY 101-102 Introduction to Physics I-II (4 Cr.) (4 Cr.)

Surveys general principles of physics. Includes topics such as force and motion, energy, heat, sound, light, electricity and magnetism and modern physics. *Prerequisite: 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. Generally offered all semesters.

Course Descriptions

PHY 201-202 General College Physics I-II (4 Cr.) (4 Cr.)

Teaches fundamental principles of physics. Covers mechanics, thermodynamics, wave phenomena, electricity and magnetism and selected topics in modern physics.

Prerequisites: Readiness to enroll in ENG 111, MTH 163 or equivalent. PHY 201 prerequisite to PHY 202. Lecture 3 hours per week. Laboratory 3 hours per week. Total 6 hours per week. Generally offered fall and spring.

PHY 241-242 University Physics I-II (4 Cr.) (4 Cr.)

Teaches principles of classical and modern physics. Includes mechanics, wave phenomena, heat, electricity, magnetism, relativity and nuclear physics. *Prerequisite: Readiness to enroll in ENG 111. Prerequisite or corequisite for PHY 241 is MTH 173. Prerequisite or corequisite for PHY 242 is MTH 174. PHY 241 prerequisite to PHY 242.* Lecture 3 hours per week. Laboratory 3 hours per week. Total 6 hours per week. Generally offered fall and spring.

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. *Prerequisites: Readiness to enroll in ENG 111, PHY 241-242 or equivalent.* Lecture 3 hours per week. Laboratory 2-3 hours per week. Total 5-6 hours per week. Generally offered fall and spring.

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: Readiness to enroll in ENG 111.* Lecture 3 hours per week. Offered periodically.

PLS 211-212 U.S. Government I-II (3 Cr.) (3 Cr.)

Teaches structure, operation and process of national, state and local governments. Includes in-depth study of the three branches of the government and of public policy. *Prerequisite: Readiness to enroll in ENG 111.* Lecture 3 hours per week. Offered periodically.

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: Readiness to enroll in ENG 111.* Lecture 3 hours per week. Offered periodically.

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: Readiness to enroll in ENG 111.* Lecture 3 hours per week. Offered periodically.

Practical Nursing (PNE)

PNE 136 Care of Maternal Newborn and Pediatric Patients (4 Cr.)

Uses a family-centered approach; studies normal and common complications in pregnancy, childbirth, postpartum, 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. Generally offered spring.

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.* Generally offered fall.

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: PNE 162.* Lecture 1 hour per week. Generally offered summer.

PNE 158 Mental Health and Psychiatric Nursing (1 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: PNE 162.* Lecture 1 hour per week. Generally offered summer.

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: Admission to Practical Nursing Program.* Lecture 3 hours per week. Laboratory 9 hours per week. Total 12 hours per week. Generally offered fall.

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. *Prerequisites: 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. Generally offered spring.

Course Descriptions

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:* PNE 162. Lecture 6 hours per week. Laboratory 12 hours per week. Total 18 hours per week. Generally offered summer.

PNE 174 Applied Pharmacology for Practical Nurses (2 Cr.)

Applies problem-solving skills in preparing and administering medications. *Prerequisite:* Admission to Practical Nursing Program. Lecture 1 hour per week. Laboratory 3 hours per week. Total 4 hours per week. Generally offered fall.

PNE 175 Introduction to Supervision and 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:* PNE 162. Lecture 15 hours per semester. Generally offered summer.

Psychology (PSY)

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:* Readiness to enroll in ENG 111. Lecture 3 hours per week. Generally offered all semesters.

PSY 205 Personal Conflict and Crisis Management (3 Cr.)

Studies the effective recognition and handling of personal and interpersonal conflicts. Discusses cooperative roles of public and private agencies, management of family disturbances, child abuse, rape, suicide and related cases. *Prerequisite:* Readiness to enroll in ENG 111. Lecture 3 hours per week. Offered periodically.

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. *Prerequisites:* Readiness to enroll in ENG 111, PSY 200, 201, or 202. Lecture 3 hours per week. Generally offered all semesters.

PSY 216 Social Psychology (3 Cr.)

Examines individuals in social contexts, their social roles, group processes and intergroup relations. Includes topics such as small group behavior, social behavior, social cognition, conformity, attitudes and motivation. *Prerequisites:* Readiness to enroll in ENG 111, PSY 200, 201, or 202. Lecture 3 hours per week. Offered periodically.

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:* Readiness to enroll in ENG 111. Lecture 3 hours per week. Generally offered all semesters.

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:* Readiness to enroll in ENG 111. Lecture 3 hours per week. Offered periodically.

PSY 236 Adolescent Psychology (3 Cr.)

Studies development of the adolescent. Investigates physical, intellectual, social and emotional factors of the individual from late childhood to early adulthood. *Prerequisite:* Readiness to enroll in ENG 111. Lecture 3 hours per week. Offered periodically.

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:* PSY 200. Lecture 3 hours per week. Offered periodically.

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. *Prerequisites:* Readiness to enroll in ENG 111, PSY 200 or instructor approval. Lecture 3 hours per week. Offered periodically.

PSY 265 Psychology of Men and Women (3 Cr.)

Examines the major determinants of sex differences. Emphasizes psychosexual differentiation and gender identity from theoretical, biological, interpersonal, and sociocultural perspectives. Includes topics such as sex roles, socialization, rape, abuse, and androgyny. *Prerequisite:* PSY 200. Lecture 3 hours per week. Offered periodically.

Course Descriptions

PSY 270 Psychology of Human Sexuality (3 Cr.)

Focuses on scientific investigation of human sexuality and psychological and social implications of such research. Considers socio-cultural influences, the physiology and psychology of sexual response patterns, sexual dysfunctions, and development of relationships. *Prerequisite: PSY 200.* Lecture 3 hours per week. Generally offered fall and spring.

Real Estate (REA)

REA 100 Principles of Real Estate (4 Cr.)

Examines practical applications of real estate principles. Includes a study of titles, estates, land descriptions, contracts, legal instruments, financing and management of real estate. Lecture 4 hours per week. Generally offered fall.

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: Readiness to enroll in ENG 111.* Lecture 3 hours per week. Generally 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: Readiness to enroll in ENG 111.* Lecture 3 hours per week. Offered periodically.

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: Readiness to enroll in ENG 111.* Lecture 3 hours per week. Offered periodically.

REL 215 New Testament and Early Christianity (3 Cr.)

Surveys the history, literature and theology of early Christianity in the light of the New Testament. *Prerequisite: Readiness to enroll in ENG 111.* Lecture 3 hours per week. Offered periodically.

REL 217 Life and Letters of Paul (3 Cr.)

Studies the journeys and religious thought of the apostle Paul. *Prerequisite: Readiness to enroll in ENG 111.* Lecture 3 hours per week. Offered periodically.

REL 230 Religions of the World (3 Cr.)

Introduces the religions of the world with attention to origin, history and doctrine. *Prerequisite: Readiness to enroll in ENG 111.* Lecture 3 hours per week. Generally offered all semesters.

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. Offered periodically.

REL 240 Religions in American (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. Offered periodically.

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: Readiness to enroll in ENG 111.* Lecture 3 hours per week. Generally offered all semesters.

SOC 207 Medical Sociology (3 Cr.)

Surveys the social, economic, cultural and individual factors in health and illness. Examines issues of wellness, health-care systems, physician-nurse-patient relationships, medical costs, ethics and policy. *Prerequisite: Readiness to enroll in ENG 111.* Lecture 3 hours per week. Offered periodically.

SOC 210 Survey of Physical and Cultural Anthropology (3 Cr.)

Examines physical characteristics and lifestyles of human ancestors and present populations. Explores cultures from around the world to study diverse adaptations made by humans. *Prerequisite: Readiness to enroll in ENG 111.* Lecture 3 hours per week. Offered periodically.

SOC 211-212 Principles of Anthropology I-II (3 Cr.) (3 Cr.)

Inquires into the origins, development, and diversification of human biology and human cultures. Includes fossil records, physical origins of human development, human population genetics, linguistics, cultures' origins and variation, and historical and contemporary analysis of human societies. *Prerequisite: Readiness to enroll in ENG 111.* Lecture 3 hours per week. Generally offered fall and spring.

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 and alternative lifestyles. *Prerequisite: Readiness to enroll in ENG 111.* Lecture 3 hours per week. Offered periodically.

Course Descriptions

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. Lecture 3 hours per week. Offered periodically.

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: Readiness to enroll in ENG 111.* Lecture 3 hours per week. Offered periodically.

Spanish (SPA)

SPA 16 Spanish for Business (2 Cr.)

Introduces the student to Spanish used in business transactions. Lecture 2 hours per week. Offered periodically.

SPA 101-102 Beginning Spanish I-II (4 Cr.) (4 Cr.)

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: SPA 101 for SPA 102.* Lecture 4 hours per week. Generally offered all semesters.

SPA 201-202 Intermediate Spanish I-II (3 Cr.) (3 Cr.)

Continues to develop understanding, speaking, reading and writing skills. May include oral drill and practice. *Prerequisite: SPA 102 or equivalent for SPA 201, SPA 201 for SPA 202.* Lecture 3 hours per week. Generally offered all semesters.

SPA 271-272 Intro to Latin American Civ. Literature I-II (3 Cr.) (3 Cr.)

Introduces the student to Latin American culture and literature. Readings and discussions conducted in Spanish. *Prerequisites: Readiness to enroll in ENG 111, SPA 202 or equivalent.* Lecture 3 hours per week. Offered periodically.

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. Generally offered all semesters.

SDV 101 Orientation to the 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. Generally offered fall and spring.

SDV 101 Orientation to the 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. Generally offered fall.

SDV 101 Orientation to the Virtual Assistant (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. Generally offered fall.

SDV 101 Orientation to the 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. Generally offered all semesters.

Course Descriptions

SDV 101 Orientation to the 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. Lecture 1 hour per week. Generally offered all semesters.

SDV 101 Orientation to the 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. Generally offered all semesters.

SDV 101 Orientation to the Visual Arts (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. Generally offered fall and spring.

SDV 298 PLACE Portfolio Development (3 Cr.)

Portfolio development course designed to assist students in the process of synthesizing and organizing life experience with the objectives of specific other courses. Generally offered all semesters.

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: Qualifying Placement Test scores* Lecture 2 hours. Lab 3 hours. Total 5 hours per week. Generally offered fall.

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. *Prerequisites: Admission into the program; SUR 93.* Lecture 2 hours per week. Generally offered fall.

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: Admission into the program. Corequisite: BIO 141.* Lecture 2 hours per week. Laboratory 3-6 hours per week. Total 5-6 hours per week. Generally offered fall.

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: NUR 140. Co-requisite: BIO 141.* Lecture 2 hours. Laboratory 3-6 hours. Total 5-8 hours per week. Generally offered fall.

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: SUR 140, SUR 145. Corequisites: BIO 141, BIO 142.* Lecture 4 hours per week. Laboratory 12-15 hours per week. Total 16-19 hours per week. Generally offered spring.

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. Lab 12 hours. Total 13 hours per week.

Course Descriptions

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: Admission into the program.* Lecture 2 hours. Lab 3 hours. Total 5 hours per week. Generally offered spring.

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: SUR 140.* Lecture 2-3 hours per week. Generally offered spring.

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: SUR 140, SUR 145, SUR 210. Corequisite: BIO 141-142, HIM 111.* Laboratory 18 hours per week. Generally offered summer.

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. Generally offered spring.

Welding (WEL)

WEL 120 Introduction to Welding (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 per week. Laboratory 2-3 hours per week. Total 3-5 hours per week. Generally offered fall semester.

WEL 130 Inert Gas Welding (3 Cr.)

Introduces practical operations in use of inert gas shielded arc welding. Studies equipment operation, setup, safety and practice of Gmaw (Mig) and Gtaw (Tig). Lecture 1 hour per week. Laboratory 3 hours per week. Total 4 hours per week. Generally offered spring semester.

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A.A.S., Lord Fairfax Community College
B.S., Eastern Mennonite University

Karen Goulbourne
Education Support Specialist II
A.A.S., Lord Fairfax Community College
B. A., Old Dominion University

Chris Grabenstein
Information Technology Specialist II
A.A.S., Lord Fairfax Community College
B.S., Strayer University

Jim Graham
Education Support Specialist III
B.A., State University of New York at Buffalo
M.S.Ed., St. Bonaventure University

Stephanie Gray
Administrative Office Specialist III, Workforce
Solutions and Continuing Education
A.A.S., Lord Fairfax Community College

Andrew Gyurisn
Administrative and Office Specialist III
B.B.A., Roanoke College

Tammy Haire
Public Relations & Marketing Specialist III
B.A., George Mason University

Ashley Hansen
General Administrative Superv/Coordinator I
B.A., Metropolitan State University

Karen Hodges
Laboratory & Research Specialist II
B.S., Shepherd University

Emma Hott
Administrative Office Specialist III, Science and
Health Professions
A.A.S., Lord Fairfax Community College

Winona Jenkins
Administrative Office Specialist III, TRIO
A.A.S., Lord Fairfax Community College

Patricia Jennings
Administrative Office Specialist II, Workforce
Solutions and Continuing Education

Jimmy Johannsen
Information Technology Specialist II

Sherry Johnson
Information Technology Specialist II
B.S., Old Dominion University

Amy Judd
Program Administrative Manager II
B.A., Virginia Tech

Seretha Judy
Educational Support Specialist III
B.A., West Virginia University

Angie Kaylor
Printing Technician III
A.A.S., Lord Fairfax Community College

Deborah Keller
Human Resource Analyst I
B.S., University of Phoenix
M.S., American Public University

Catherine Kelley
Program Administrative Specialist I
B.S., East Carolina University

Leslie Kelley
Public Relations & Marketing Specialist III
B.S., Virginia Tech
M.B.A., Shenandoah University

Sarah Kibler
Trades Technician I

Kathleen Knight
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B.S., Old Dominion University

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B.S., Old Dominion University

Larry Lambert
Trades Technician I

Pat Leister
Administrative Office Specialist II, Workforce
Solutions and Continuing Education

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Library Specialist I
A.A.S., Lord Fairfax Community College

Scott Luttrell
Trades Technician I

Nellie Manning
Administrative Office Specialist III, Student Services
A.A.S., Lord Fairfax Community College

Amy Maphis
Financial Services Specialist I
B.S., Virginia Tech

Robert Marshall
Chief of Police

Elizabeth Martini
Trainer Instructor, Testing Center
A.A.S., Lord Fairfax Community College
B.S., Old Dominion University

Rebecca McKee
Education Support Specialist III
B.S., M.S., Longwood University

Brian Miller
Law Enforcement Officer I
Certified Law Enforcement Officer
Certified Bike Patrol Officer

Whitney Miller
Administrative and Office Specialist III
B.S., Radford University
M.S., Radford University

Sarah Murphy
Administrative and Office Specialist III
B.A., James Madison University

Brenda Nordgren
Information Technology Specialist II

Elizabeth Nugent
Financial Services Specialist I

Barry Orndorff
Financial Services Specialist I
B.A., Longwood University

Joette Ours
Education Support Specialist II
A.A.S., Lord Fairfax Community College

John Owens
Library Specialist I
A.A.S., Lord Fairfax Community College

Aaron Painter
Education Support Specialist III
B.A., Virginia Polytechnic Institute and State
University
M.B.A., Saint Leo University

Suzanne Park
Trainer Instructor I, Testing Center
A.A.S., Lord Fairfax Community College

Janet Ping
Trainer Instructor II, Technology Services
B.A., Xinjiang University
M.S., Marshall University

Eileen Rexrode
Administrative Office Specialist III, Humanities,
Mathematics and Social Sciences

Aaron Riddle
Technology Specialist II
B.A., University of Maryland, Baltimore County

Marie Rutz
Education Support Specialist II, High School Outreach
AA&S., Lord Fairfax Community College
B.S., Old Dominion University

Bruce Ryker
Trades Technician I

Sarah Ryker
Education Support Specialist II
B.S., Radford University

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Program Administrative Specialist II
A.S., Youngstown State University
B.S., Towson University

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Trades Technician I

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B.A., University of Mary Washington
M.A., George Mason University

Steve Smith
Trades Technician II

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A.A.S., Lord Fairfax Community College
B.S., Liberty University
M.S. Shenandoah University

Erin Stevenson
Library Specialist II
B.A., James Madison University

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A.A., Lord Fairfax Community College
B.A., American Public University System

Judith Suddith
General Administrative Supervisor/Coordinator I
A.A.S., Allegheny Community College
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Dale Swatlowksi
Trades Technician III

Deb Teates
Education Support Specialist II, High School Outreach
B.A., Carson-Newman College

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Procurement Officer I
A.A.S., Lord Fairfax Community College
B.S., Shepherd University
M.B.A., Shenandoah University

Deborah Vogel
Administrative and Office Specialist II, Student
Services-Fauquier
A.A.S., Lord Fairfax Community College

Michelle Wassam
Administrative and Office Specialist III

Jacob Wiles
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Karen Wisecarver
Library Specialist I
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Barbara Woods
Human Resource Analyst I
A.A.S., Potomac State
Professional in Human Resource (PHR)

Celia "Caz" Zuckerman
Administrative Office Specialist III, Office of Learning
A.A.S., Lord Fairfax Community College

Emeriti

Richard E. Dovell, M.Ed.
Professor Emeritus and Associate Professor of
Agricultural/Natural Science, (1972–1992);
Adjunct (1992–2005)

Maurice Duffey, Ed.S.
Professor Emeritus and Professor of Business
Management, (1970–1990)

Arlene L. Keifer, M.B.A.
Professor Emeritus and Assistant Professor of
Business and Office Systems Technology, (1983-
1997); Adjunct (1998-present)

Reginald Male, M.Ed.

Professor Emeritus and Associate Professor of
Drafting, (1972–1983; Adjunct 1983–1987)

James T. Markley, M.S.
Professor Emeritus and Associate Professor of Social
Science and Geography, (1970–1993; Adjunct
1993–1995)

Matthew M. Neely II, Ph.D.
Professor Emeritus and Professor of History, (1970-
1998)

Russell H. Riley, Ed.D.
Professor Emeritus and Professor of Psychology,
(1984–1995)

Dave M. Powell, M.A.
Professor Emeritus and Professor of Information
Technology (1987-2004), Adjunct (2008-present)

Annetta Richardson, M.S.
Professor Emeritus and Professor of Administrative
Support Program (1971-2000)

Gary L. Tusing, M.S.
Professor Emeritus and Professor of Business (1971-
2008) Adjunct (2009- present)

Anne Legge, M.A
Professor Emeritus and Associate Professor of
English, (1978-86)

Harry G. Papagan, M.A.
Professor Emeritus and Associate Professor of
English, (1988-2001); Dean of Humanities,
Mathematics and Social Sciences, (2001-05)

Ann R. Currie, M.F.A.
Professor Emeritus and Associate Professor of Art,
(2000-10); Adjunct (2012-present)

Joseph W. Whitehorne, D.A.
Professor Emeritus and Professor of History,
(1993-2010); Adjunct (1989-1993)

Roger L. Milburn, M.S.
Professor Emeritus and Associate Professor of
Accounting (1970-2010); Adjunct (2011-present)

William R. Warren, M.S.
Professor Emeritus and Associate Professor of Science
(1984-2010)

Handbook

COLLEGE POLICIES

NONDISCRIMINATION STATEMENT

Lord Fairfax Community College does not discriminate on the basis of race, sex, color, national origin, religion, age, veteran status, political affiliation or disability in its programs or activities. For more information, please contact: Karen Foreman, Human Resource Manager, 173 Skirmisher Lane, Middletown, VA 22645-1745, kforeman@lfcc.edu.

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. A student who has a concern 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 complain form. By doing so, the issue becomes a formal complaint.

Formal Complaint

The student must complete and submit a complaint form (available in the Student Services Office and electronically at the College's official website) within ten (10) business days of his/her initial attempt to resolve the matter. The College will neither entertain complaints that are not in writing or which are anonymous, nor will it consider complaints sent electronically or through facsimile transmission. Formal complaints will be logged and forwarded to the appropriate respondent for further action.

1. For academic matters, the formal complaint will be reviewed and addressed by the Dean of the division involved in the complaint. Complaints regarding student service issues, such as

admissions and financial aid, will be reviewed and addressed by the Dean of Students at the respective campus where the complaint was lodged. Complaints about a Dean or Associate Vice President should be made directly to the Vice President of Academic and Student Affairs.

2. Upon receiving the complaint form, the appropriate Dean will arrange a conference with the student to discuss the issue within ten (10) business days. After the conference, the Dean 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 Vice President of Academic and Student Affairs. The Vice President of Academic and Student Affairs will review the complaint form and any supporting documentation and render a decision, in writing, within five (5) business days. If the student is not satisfied with the Vice President's decision, he/she may request that the President review the findings.
4. The President maintains the right to refuse any request for appeal for insufficient cause. The decision of the President shall be final.

A student dissatisfied with any aspect of the College should send direct correspondence to the vice president of academic and student affairs. 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. These publications are available at <http://www.lfcc.edu>. Procedures for other student grievances are provided at <http://www.lfcc.edu/grievance-procedures>.

CODE OF STUDENT RIGHTS, RESPONSIBILITIES, AND 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:

- A. Free inquiry, expression, and assembly are guaranteed to all students consistent with the First Amendment to the United States Constitution.
- B. 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.
- C. 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.
- D. 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:

- A. The term "institution" means Lord Fairfax Community College and, collectively, those responsible for its control and operation.
- B. The term "student" includes all persons taking courses at the institution both full-time and part-time.
- C. 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.
- D. The term "legal compulsion" means a judicial or legislative order which requires some action by the person to whom it is directed.
- E. The term "organization" means a number of persons who have complied with the formal requirements of institution recognition as provided in number 10.
- F. The term "group" means a number of persons who have not yet complied with the formal requirements for becoming an organization.

G. 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.

H. The term "administrator" shall refer to any designated employee who has the authority to act on the behalf of the College on the whole.

I. The term "College official" shall refer to any designated employee who has the authority to enforce the parameters of the student code of conduct.

J. The term "vice president" shall mean the vice president of academic and student affairs unless otherwise indicated.

K. The term "shall" is used in the imperative sense.

L. The term "may" is used in the permissive sense.

M. All other terms may have their natural meaning unless the context dictates otherwise.

Access to Higher Education

Within the limits of its facilities, the institution shall be open to all applicants who are qualified according to its admission requirements. Under no circumstances may an applicant be denied admission because of race, ethnicity, religion, sex, age, veteran status, political affiliation, disability or any other irrelevant criterion as defined by case law.

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.)

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.

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.

Protest

The right of peaceful assembly is granted within the institutional community, so long as law and policy are observed and the educational process is not adversely affected.

Orderly assembly and other forms of peaceful gatherings are permitted on institution premises provided that the following stipulations are met:

- A. Interference with ingress to and egress from institution facilities, interruption of classes, or damage to property.
- B. No assembly or demonstration is held in the College building so as to disrupt educational activities.
- C. Demonstrations or assemblies held outside the building, but on College property, are registered with the Vice president of financial and administrative services 48 hours prior to the assembly or demonstration.
- D. All students are restricted from an area within 100 feet of each fire hydrant on the College property during the time of the assembly or demonstration.

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.

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 vice president (or designee).

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.

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.

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 purposed 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. Students will not disclose any information concerning any access control mechanism unless properly authorized to do so by their enrolling college. Students will not use any access mechanism that the College has not expressly assigned to you. Students will treat all information maintained on the College computer systems as strictly confidential and will not release information to any unauthorized person. Computer software, databases, and electronic documents are protected by copyright law. A copyright is a work of authorship in a tangible medium. Copyright owners have the sole right to reproduce their work, prepare derivatives or adaptations of it, distribute it for sale, rent, license lease, or lending and/or to perform or display it. A student must either have an express or implied license to use copyrighted material or data, or be able to prove fair use. Students and other users of College computers are responsible for understanding how copyright law applies to their electronic transactions. Students may not violate the copyright protection of any information, software, or data with which they come into contact through the College computing

resources. Downloading or distributing copyrighted materials such as documents, movies, music, etc. without the permission of the rightful owner may be considered copyright infringement, which is illegal under federal and state copyright law. Use of the College's network resources to commit acts of copyright infringement may be subject to prosecution and disciplinary action.

The penalties for infringing copyright law can be found under the U.S. Copyright Act, 17 U.S.C. §§ 501-513 (<http://www.copyright.gov/title17/92chap5.html>) and in the US Copyright Office's summary of the Digital Millennium Copyright Act

(<http://www.copyright.gov/legislation/dmca.pdf>). Students must agree to abide by all applicable state, federal, VCCS, and College policies, procedures and standards that relate to the Virginia Department of Human Resource Management Policy 1.75—Use of Internet and Electronic Communication Systems, VCCS Information Security Standard and the VCCS Information Technology Acceptable Use Standard.

These include, but are not limited to:

- Attempting to gain access to information owned by the College or by its authorized users without the permission of the owners of that information;
- Accessing, downloading, printing, or storing information with sexually explicit content as prohibited by law or policy;
- Downloading or transmitting fraudulent, threatening, obscene, intimidating, defamatory, harassing, discriminatory, or otherwise unlawful messages or images;
- Installing or downloading copyrighted materials or proprietary agency information contrary to policy;
- Sending e-mail using another's identity, an assumed name, or anonymously;
- Attempting to intercept or read messages not intended for them;
- Intentionally developing or experimenting with malicious programs (viruses, worms, spy-ware, keystroke loggers, phishing software, Trojan horses, etc.) on any College-owned computer;
- Knowingly propagating malicious programs;
- Changing administrator rights on any College-owned computer, or the equivalent on non-Microsoft Windows based systems;

- Using College computing resources to support any commercial venture or for personal financial gain.

Students must follow any special rules that are posted or communicated to them by responsible staff members, whenever they use the College computing laboratories, classrooms, and computers in the Learning Resource Centers. They shall do nothing intentionally that degrades or disrupts the computer systems or interferes with systems and equipment that support the work of others. Problems with College computing resources should be reported to the staff in charge or to the Information Technology Help Desk.

If students observe any incidents of non-compliance with the terms of this agreement, they are responsible for reporting them to the Information Security Office and/or management of the College.

Students must understand that they must use only those computer resources that they have the authority to use. They must not provide false or misleading information to gain access to computing resources. The VCCS may regard these actions as criminal acts and may treat them accordingly. Students must not use VCCS IT resources to gain unauthorized access to computing resources of other institutions, organizations, individuals, etc.

The Systems Office and colleges reserve the right (with or without cause) to monitor, access, and disclose all data created, sent, received, processed, or stored on VCCS systems to ensure compliance with VCCS policies and federal, state, or local regulations, College or System Office officials will have the right to review and/or confiscate (as needed) any equipment (COV owned or personal) connected to a COV owned device or network.

Students must understand that it is their responsibility to read and abide by this agreement, even if they do not agree with it. If you have any questions about the VCCS Information Technology Acceptable Use Agreement, you need to contact the College Information Security Officer or appropriate College official.

By acknowledging this agreement you hereby certify that you understand the preceding terms and provisions and that you accept responsibility of adhering to the same. You further acknowledge that should you violate this agreement, you will be subject to disciplinary action.

Dangerous Practices

Use of fireworks or firecrackers on campus is prohibited. Candles and other forms of fire are also prohibited. (Cigarettes 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 any conduct prohibited herein may also be punishable by relevant law enforcement authorities.

Disorderly Conduct

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.

Disruption of Educational Process

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:

- A. 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.
- B. Intentional disruption or obstruction of teaching, research, administration, disciplinary proceedings, or other College activities.
- C. Damaging, defacing, stealing, or destroying College property or property of a member of the College community or campus visitor.
- D. 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.
- E. Violation of law on institutional premises in a way that affects the institutional community's pursuit of its proper educational purposes.

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. 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.

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.

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.

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.

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>.

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:

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.”)

Violent Behavior (including but not limited to):

- 1. Intentionally acting in a manner that in any way endangers the safety of others
- 2. Any physical assault, with or without weapons
- 3. 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)
- 4. Specific threats to inflict harm (e.g. a threat to shoot a named individual)
- 5. Use of any object to attack or intimidate another person
- 6. Interfering with an individual’s legal rights of movement or expression

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

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.

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.

Disciplinary Procedures

All students are afforded the right to due process for any violation. This process is defined below:

A. 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.

B. When the vice president (or designee) receives information that a student has allegedly violated a rule, regulation, policy, or procedure, the vice

president (or designee) shall investigate the alleged violation. After completing the preliminary investigation, the vice president (or designee) may:

1. Dismiss the allegation as unfounded or
2. 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.

C. The president of the College, vice president (or designee), 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 vice president (or designee) may select one of the following as a course of action:

- A. Proceed administratively if it is determined that facts of the alleged violation are not in dispute.
- B. Proceed administratively if it is determined that the facts of the alleged violation are in dispute and must be further probed by the vice president (or designee); or
- C. 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).

A. When the facts are not in dispute, the vice president (or designee) may administratively dispose of any violation.

1. In administratively disposing of a violation, the vice president (or designee) 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 vice president (or designee) 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.
- B. If the facts of the alleged violation are in dispute and require additional probing, the vice president (or designee) may elect to gather additional information concerning the allegation or to administratively dispose of the violation.
1. If the vice president (or designee) 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 right to appeal.
 3. The vice president (or designee) 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.
 4. 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.
- C. The vice president (or designee) 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

- A. A written request for a hearing must be made to the vice president (or designee) within five (5) calendar days following the administrative disposition.
- B. 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 vice president (or designee) from a list of faculty, staff, administrators and students who have volunteered to serve on the committee.
 - 1. The committee will consist of five (5) members (one full-time faculty member, one classified staff representative, one administrator, one student success representative and one student).
 - 2. 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.
 - 3. 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.
 - 4. 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.
- C. The student discipline ad hoc committee will elect a chairperson. The chairperson will set the date, time and place for the hearing.
 - 1. The vice president (or designee) 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.
 - 2. The hearing will take place within ten (10) calendar days of the establishment of the student discipline committee.
 - 3. The vice-president (or designee) will have discretion to alter the arrangements of the hearing for good cause.
- D. 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.
- E. 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.
- F. 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:
 - 1. The vice president (or designee) reads the complaint.
 - 2. The vice president (or designee) presents the College's case. Any person giving testimony may be questioned, at the completion of the witness's testimony, by the student. The vice president (or designee) has the right to follow up and/or recall witnesses as necessary.
 - 3. 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 vice president (or designee).
 - 4. The vice president (or designee) and the student may present rebuttal evidence and argument.
 - 5. 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.

The committee chairperson will complete and submit the Committee Findings Form to the vice president (or designee) the same day as the conclusion of the hearing.

The vice president (or designee) 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

- A. All evidence will be offered to the committee during the hearing and made part of the hearing record. The hearing record will include
 - 1. A copy of the notice provided to the student;
 - 2. All documentary and other evidence offered or admitted in evidence;
 - 3. Written motions, pleas, and any other materials considered by the committee; and
 - 4. The Committee Findings Form.
- B. The hearing record will be forwarded to the vice president (or designee) where it will be securely maintained.

Appeal

- A. The president of the College will automatically review every penalty of expulsion.
- B. A student is entitled to 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.
- C. If a notice of appeal is given, the vice president (or designee) 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.
 - 1. If an in-person meeting is deemed necessary, the president will set the date, time and place for the appeal and the vice president (or designee) 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.

- 2. If an in-person meeting is not deemed necessary, the president will move forward with resolution of the appeal as detailed below.
- D. 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.
- E. The vice president (or designee) will notify the student the result of the appeal via certified letter.
- F. 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 vice president (or designee) 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.

All information within the Student Code of Conduct is updated as needed. The most current information pertaining to the Student Code of Conduct can be found on the LFCC Web site at <http://www.lfcc.edu/student-handbook>.

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.
- 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.
- taking an exam or completing an assignment for another student.

PROCEDURES IN CASES OF ACADEMIC DISHONESTY

COMMUNICATION OF THE CHARGE OF ACADEMIC DISHONESTY TO THE STUDENT

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:
 - Reprimand the student.
 - Require that the work in question be done over.
 - Assign a grade of zero on the work involved.
 - Assign a grade of F for the course.
 - 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 an 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 BY THE ASSOCIATE VICE PRESIDENT OF INSTRUCTION

1. The faculty member must complete an LFCC Report of Academic Dishonesty Form and give the student the opportunity to read and sign the form, indicating that the student is aware of the report and of the right to appeal. (For Web-based courses, the faculty member may find it necessary to share the report with the student as an email attachment.)
2. The faculty member must send the completed LFCC Report of Academic Dishonesty Form to the Associate vice president of instruction (Fauquier Campus or the Middletown Campus, as appropriate, based on where the student is enrolled).
3. The Associate vice president of instruction will also inform the student in writing that the student is on disciplinary probation and

that future violations may result in more severe sanctions as described below.

4. A student has the right to appeal the faculty member's decision to the Dean of students in accordance with the process explained under Appeal to the Dean of students. If the faculty member's decision is reversed on appeal, the Associate vice president of instruction will remove the report of academic dishonesty from the student's disciplinary record.
5. If the Associate vice president of instruction receives a report of academic dishonesty on a student who already has such a notice on file and neither case is reversed on appeal, the student may be suspended for one semester.
6. A third violation of academic honesty by a student may result in expulsion from the College. The Vice president of academic and student affairs will automatically review every penalty of expulsion.

APPEAL TO THE DEAN OF STUDENTS

- A. A student may appeal the faculty member's decision by submitting a written request to the Dean of students (or designee) within five (5) business days following the administrative disposition by the Associate vice president of instruction.
- B. 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 Vice president of academic and student affairs (or designee) from a list of faculty, staff, administrators and students who have volunteered to serve on the committee.
 1. The committee will consist of five (5) members (one full-time faculty member, one classified staff representative, one administrator, one student success representative, and one student).
 2. 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.
 3. If the student requesting the hearing believes one of the selectees will not fairly judge the merits of the alleged violation, the student may request that another person be chosen from the list in

that same category. Only one requested substitution, with written justification, is permitted.

4. 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.
- C. The Student Discipline Ad Hoc Committee will elect a chairperson who will set the date, time and place for the hearing.
1. The Dean of Students (or designee) 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) business days following confirmation of the hearing committee membership.
 2. The hearing will take place within ten (10) business days of the establishment of the student discipline committee.
 3. The Dean of Students (or designee) will have discretion to alter the arrangements of the hearing for documented extenuating circumstances.
- D. 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.
- E. 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 participation to advising the accused and may not participate in the actual proceedings of the hearing such as discussion or cross-examination of the witnesses.
- F. 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 preponderance of the evidence indicates that the student has violated the College's Academic Honesty policy. Committee members may freely

question witnesses at any time. The committee will proceed as follows during the hearing:

1. The Dean of students (or designee) reads the complaint.
 2. The Dean of students (or designee) presents the College's case. Any person giving testimony may be questioned, at the completion of the witness's testimony, by the student. The Dean of students (or designee) has the right to follow up and/or recall witnesses as necessary.
 3. 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 Dean of students (or designee).
 4. The Dean of students (or designee) and the student may present rebuttal evidence and argument.
 5. In closed session, the committee will discuss the issue and vote whether or not there has been a violation of the Academic Honesty Policy. If the majority of the committee (at least 3 out of 5 voting members) finds the student violated the Academic Honesty Policy, the committee will sustain the faculty member's decision.
- G. The committee chairperson will complete and submit the Committee Findings Form to the Dean of students (or designee) the same day as the conclusion of the hearing.
- H. The Dean of students (or designee) will inform the student of the committee's findings 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) business days of the conclusion of the hearing.

Hearing Records

- A. All evidence will be offered to the committee during the hearing and made part of the hearing record. The hearing record will include:
1. A copy of the notice provided to the student;
 2. All documentary and other evidence offered or admitted in evidence;
 3. Any other materials considered by the committee; and

4. The Committee Findings Form.
- B. The hearing record must be forwarded to the vice president of academic and student affairs (or designee) where it will be securely maintained.

FINAL APPEAL TO THE VICE PRESIDENT OF ACADEMIC AND STUDENT AFFAIRS

- A. The Vice president of academic and student affairs will automatically review every penalty of expulsion.
- B. A student is entitled to an appeal to the Vice president of academic and student affairs. To do so, a student must file a written request (via post marked certified letter) for appeal to the Vice president of academic and student affairs within ten (10) business 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 Vice president of academic and student affairs maintains the right to refuse any request for appeal for insufficient cause.
- C. If a notice of appeal is given, the Dean of students (or designee) will send the hearing record to the Vice president of academic and student affairs, within five (5) business days after the notice is given. The Vice president of academic and student affairs will review the record and determine whether an in-person meeting is necessary to resolve the appeal.

1. If an in-person meeting is deemed necessary, the Vice president of academic and student affairs (or designee) will set the date, time and place for the appeal and the Vice president of academic and student affairs (or designee) 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 but no later than ten (10) business days after the appeal request is received. The Vice president of academic and student affairs will have the discretion to alter the arrangements of the hearing for good cause.

2. If an in-person meeting is not deemed necessary, the Vice president of academic and student affairs will move forward with resolution of the appeal as detailed below.

- D. After consideration of the appeal, the Vice president of academic and student affairs will complete the appeal section on the Committee Findings Form, either sustaining or overturning the Committee finding.
- E. The Vice president of academic and student affairs (or designee) will notify the student the results of the appeal via certified letter.
- F. The decision of the Vice president of academic and student affairs is final.

Impact of Academic Dishonesty on Academic Honors

- A. 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.

DOMICILE APPEALS PROCESS

Any student who had applied for admission to the College and is denied in-state tuition has a right to appeal according to the following process.

Initial determination – The Admissions and Records Office staff is responsible for making an initial determination of eligibility for in-state tuition rates. The decisions shall be based on information provided on the application for Virginia in-state tuition rates, supporting documents and statements made by the student. The Admissions and Records Office shall follow guidelines issued by the State Council of Higher Education for Virginia in making determinations of eligibility for in-state tuition rates. The initial determination made by the Admissions and Records Office shall be an oral communication. All documents needed to support determination of domicile must be submitted to the Admissions and Records Office prior to the first day of semester classes.

Intermediate review – A student who is aggrieved by an eligibility determination made by the Admissions and Records Office staff may appeal the decision to the registrar. The student must file a written appeal within ten (10) calendar days of initial determination.

A supplemental application for Virginia in-state tuition rates may be required if the registrar determines that additional domicile information is necessary. Within ten (10) calendar days of receipt of an appeal, the registrar will review the initial determination. The student shall be provided with the opportunity to present information either in person or in writing. In reviewing the initial determination, guidelines issued by the State Council of Higher Education for Virginia shall be followed. The registrar will notify the student in writing of the review outcome. Notification shall be within twenty (20) calendar days of receipt of the appeal.

Final administrative review – A student who is not satisfied with the outcome of the review by the registrar may appeal to the domicile appeals committee. The student must file a written appeal to the domicile appeals committee within ten (10) calendar days of notification. Within ten (10) calendar days of receipt of an appeal, the chair of the committee shall schedule a meeting to review the initial determination and intermediate review. A supplemental application for Virginia in-state tuition rates may be required if the committee determines that additional domicile information is necessary. The student shall be provided the opportunity to present information to the domicile appeals committee, either in person, or in writing. In reviewing the initial determination, the domicile appeals committee shall follow guidelines issued by the State Council of Higher Education. The decision of the domicile appeals committee shall be in writing and a copy of the decision shall be sent to the student. Notification shall be within twenty (20) calendar days of receipt of the appeal. The letter shall clearly explain that the decision is final.

HIV/AIDS POLICY

Educational Program

Lord Fairfax Community College takes an active role in making available to all students, faculty and staff information about the transmission of HIV and the means of minimizing the risk of developing AIDS to the members of the community. Through a variety of educational programs, LFCC strives for an educated constituency that is aware and supportive of the prevention, risk behaviors, coping strategies and other related issues surrounding HIV/AIDS.

An HIV/AIDS advisory committee composed of students, faculty, staff and a community member has been established to develop and implement an HIV/AIDS educational program. The primary purpose of the advisory committee is to provide outreach through the educational arena to three groups: faculty/staff, students and the community. The comprehensive education program includes information distribution regarding prevention and risk reduction of HIV/AIDS and the development of the skills and support needed to change risk behaviors.

Protection of Individual Rights

In addition, Lord Fairfax Community College ensures the protection of the individual rights of all members of the College community and the preparation of individuals to act in a responsible manner. Discrimination of persons who are HIV positive or who may have AIDS will not be tolerated.

Confidentiality

Members of the LFCC community who need assistance in dealing with HIV/AIDS issues are encouraged to seek the confidential services of the College's Office of Student Services staff and a variety of community agencies. Students, faculty and staff who are HIV positive or who live with AIDS will be able to remain at Lord Fairfax Community College as long as they are physically and mentally able to perform their role. Confidentiality of any person with HIV or AIDS will be protected. The status of an HIV/AIDS infected individual will not be provided to faculty, administration or family without expressed written permission of the infected individual.

ETHICAL STANDARDS FOR PROFESSIONAL RELATIONSHIPS AND SEXUAL MISCONDUCT POLICY AND PROCEDURES

The purpose of this policy is to provide all Lord Fairfax Community College students, administrators, faculty and classified staff with a method for addressing complaints of sexual harassment and sexual assault. A further purpose is to communicate the intent of the College to create a campus environment free of such behavior. A college is a

community of learners in which strong emphasis is placed on self-awareness and consideration for the lives and feelings of others. In a setting of this kind, there is no place for conduct that diminishes, humiliates or abuses another person. Such conduct subverts the mission of the College and threatens the careers, the quality of educational experience and the well-being of students, faculty and staff. For these reasons sexual harassment of any kind is unacceptable at Lord Fairfax Community College.

The policy applies to all members of the College community; specifically, administration, faculty, classified staff and students and includes mechanisms for addressing student-to-student problems, employee-to-employee problems and employee-to-student or student-to-employee problems.

Ethical Standards

Lord Fairfax Community College endorses in principle the American Association of University Professors (AAUP) Statement on Professional Ethics as an appropriate basis for general norms of professional conduct. Part II of the ethics statement relates to avoidance of exploitation, harassment or discriminatory treatment of students. Sexual relationships that might be appropriate in their circumstances are inappropriate when they occur between a faculty member/administrator and a student or a supervisor and an employee with whom that person has an authority relationship. Because of the difference in power between professors and students and supervisors and employees, all faculty, administrators and staff are expected to maintain appropriate professional boundaries at all times. In addition, consenting romantic and sexual relationships between faculty and any student are deemed very unwise and are not encouraged. A faculty member who enters into a sexual relationship with a student or a supervisor who does so with an employee where a professional power differential exists must realize that, if a charge of sexual harassment is subsequently lodged, it may prove difficult to successfully claim consent as a defense. To implement the general norms of the Statement of Professional Ethics, the related standards and procedures shall be operable within the institution. Unethical conduct may be subject to sanctions which range from a warning to dismissal depending upon the severity and/or frequency of the conduct.

This policy is in accordance with VCCS policy for employees and students.

Committee on Sexual Misconduct

A committee on sexual misconduct is appointed by the president or the president's designated official. The committee is charged with advising the president or the designated official on matters covered by the policies and procedures governing adjudication of cases of alleged sexual harassment and with assisting both alleged victims of sexual harassment and those accused to deal with College procedures and to locate appropriate resources, while protecting the rights of individuals alleged to have violated the College policy. Members of the committee receive training regarding the College's sexual misconduct policy and complaint procedures to enable them to carry out their duties and responsibilities.

SEXUAL HARASSMENT POLICY

Sexual harassment in any situation is reprehensible and will not be tolerated. Sexual harassment is a form of sex discrimination prohibited by Title IX (students) of the Educational Amendments of 1972 and Title VII (employees) of the Civil Rights Act of 1964. Sexual harassment of employees and students at Lord Fairfax Community College is defined as any unwelcome sexual advances, unwelcome requests for sexual favors or other unwelcome verbal or physical conduct of a sexual nature. It takes two legal shapes:

Quid pro quo

1. Submission to such conduct is either explicitly or implicitly made a term or condition of an individual's employment or academic performance.
2. Submission to or rejection of such conduct is used as a basis for an employment decision, performance evaluation or academic performance evaluation concerning a member of the College community

Hostile Environment

Hostile environment harassment differs from "quid pro quo" harassment in that no discriminatory effect on grades, wages, job assignments or other tangible benefits is required. Instead, such unwelcome sexist or sexual conduct has one of these purposes or effects:

1. It unreasonably interferes with an individual's work or academic performance.
2. It creates an intimidating, hostile or offensive work or academic environment.

Direct propositions of a sexual nature, subtle and/or persistent pressure for sexual activity, conversations of a sexist or sexual nature or similar jokes and stories, sexual remarks about a person's clothing, body or sexual relations or the display of sexually explicit materials may constitute harassment if shown to be unwelcome and sufficiently pervasive or severe. Nothing in this policy precludes academically relevant discussions or presentations concerning gender or sex. The fact that such discussions or presentations may cause some students discomfort does not in itself indicate hostile environment harassment. If relevant to course content, gender and sex are legitimate areas of inquiry. It is important to realize that some physical acts that constitute sexual harassment may also constitute criminal offenses that may be separately prosecuted in court. It is a violation of College policy for any faculty member, administrator, student or staff employee, hereafter referred to as members of the College community, to seek or offer gain, advancement or consideration in return for sexual favors.

It is a violation of College policy for any member of the College community to make an intentionally false accusation of sexual harassment. Any deliberately false accusations may be subject to the following: warning, probation, suspension, dismissal or other actions deemed appropriate by the committee, (i.e., counseling, education, referral and also including prosecution for libel or slander in the court systems). It is a violation of College policy for any member of the College community to initiate a negative personnel or academic action against an individual in retaliation for reporting an incident or allegation of sexual harassment, except in cases of intentionally false accusations of sexual harassment. In determining whether the alleged conduct constitutes sexual harassment, those charged with such determinations will consider all relevant information including the nature of the alleged sexual conduct and the context in which the alleged conduct occurred. Such determinations will be based on fact and will be made on a case-by-case basis.

Process Governing Cases of Alleged Sexual Harassment

This process is to be used by any member of Lord Fairfax Community College to address complaints alleging sexual harassment where a member of the administration, faculty, classified staff or a student is a party as complainant or accused.

The accuser and the accused have a right not to have his or her unrelated past sexual history discussed as part of these proceedings. A member of the College community who believes that he or she is or has been the victim of sexual harassment, as defined by College policy and who wishes to seek a remedy by using the informal or formal procedures discussed below, must contact a member of the sexual misconduct committee as soon as possible, preferably within thirty (30) days from the end of the semester or term during which the alleged sexual harassment occurred.

Consistent with Lord Fairfax Community College's *Code of Student Rights, Responsibilities and Conduct*, the rights of the accused will include the right to an explanation of the charges; the right to be accompanied by a person of his/her choice at the hearing; the right to remain silent; the right to testify on his/her own behalf; the right to be informed in a timely manner of the finding and outcome of the proceedings; and the right to an appeal.

This process is not intended to impair or to limit the right of anyone to seek remedies available under state or federal law. Since federal and state procedures require that complaints be filed within specific deadlines from the onset of the behavior construed as sexual harassment, individuals who pursue the internal complaint procedures described below may fail to meet state and federal guidelines for filing a complaint. A complaint may be filed with an external agency in order to meet state and federal agency deadlines without jeopardizing one's right to a College hearing. However, if relief is sought outside the College, the College is not obliged to continue processing a grievance while the case is being considered by an outside agency or civil or criminal court.

Step 1 – COMPLAINT AND INFORMAL RESOLUTION PROCEDURES

The purpose of this informal procedure is to provide assistance and guidance to both the individual complaining of sexual harassment and the accused in

the functioning of the College's procedures. It provides an opportunity for the complainant and the individual accused of harassment to resolve the problem in an informal manner, without the necessity of disciplinary action or the more formal procedure for processing a complaint. However, use of the informal procedure shall not impair the right of a complainant not satisfied by this procedure to utilize the formal procedure described below.

When a complaint has been initiated, the chair of the sexual misconduct committee or a committee member designated by the chair meets with the complainant to discuss that individual's concern and to clarify the College's policy and internal complaint procedures. Additional information about federal and state complaint procedures is available from the chair of the sexual misconduct committee. The committee member prepares a brief summary of the meeting. The summary is forwarded to the chair of the committee, or designee, in order for the chair, or designee, to assess the effectiveness of the policy and complaint procedures to this point in the case. The resolution procedure followed from this point depends upon the complainant's willingness to have her or his identity disclosed to the individual alleged to have committed the unwelcome behavior covered by these procedures.

- A. If the complainant does not agree to the disclosure of her or his identity, the committee member, within a two-week period and with the consent of the complainant, meets with the individual alleged to have harassed the complainant. The committee member advises the accused of the College's sexual harassment policy and complaint procedures and affords the accused an opportunity to respond to the allegation. The committee member subsequently contacts the complainant to confirm that the meeting was held and to describe the response of the individual accused of violating College policy. The committee member prepares a written summary report of the complaint procedure followed, without disclosing the identities of the parties involved and files the report with the chair of the committee, or designee, within ten (10) working days after the meeting with the individual accused of violating College policy. The accused may demand the "right to know" his/her accuser in which case

Step B, below, may be followed to informally resolve the case or Step 2 may be followed to formally resolve the case, or the accusation(s) may be dropped by the accused at this point, thereby bringing the case to resolution.

- B. If the complainant agrees to the disclosure of his or her identity, the committee member, within a two-week period and with the consent of the complainant, meets with the accused to discuss the allegations raised by the complainant. The committee member advises the accused of the College's sexual harassment policy and complaint procedures. Based on the information obtained from the complainant and the accused, the committee member prepares a written resolution agreement believed to be acceptable to both parties. The resolution agreement releases the College and all parties from any claims arising from the specific incident or behavior which prompted the initiation of the complaint procedure. Each party receives a copy of the resolution agreement. A copy is also filed with the chair of the committee, or designee, not later than three working days after the resolution agreement has been signed by both parties.
- C. If the resolution agreement proposed by the committee member is unacceptable to the complainant or to the accused each is advised in writing of that fact by the committee member and of the formal internal procedure for addressing sexual harassment complaints. A copy of this letter is sent also to the chair of the committee, or designee. Upon request, the committee member may assist the complainant in drafting a formal complaint as provided for in the following section.
- D. The written reports and resolution agreements described in this section are not released to any individual or administrative authority at the college, other than the complainant, the accused and the chair of the sexual misconduct committee, or designee. In the event that formal litigation or external complaint procedures require disclosure; however, it may be necessary for the College to comply with formal requests for such records under subpoena. Records will be kept for five years.

Step 2 – COMPLAINT AND FORMAL RESOLUTION PROCEDURES

The purpose of this formal procedure is to provide assistance and guidance to individuals complaining of sexual harassment regarding the formal complaint and resolution procedures governing cases of alleged sexual harassment where a member of the administration, faculty, classified staff or a student is a party. This formal procedure may also be initiated by an individual accused of sexual harassment.

Any member of the College community who believes that she or he is or has been the victim of sexual harassment, as defined by the College policy and who elects to seek a remedy through formal College procedures must file a written statement with the chair of the sexual misconduct committee within thirty (30) days after the end of the semester or term during which the incident or behavior occurred, or within thirty (30) days after the unsatisfactory outcome of the informal resolution procedure described above, whichever is later. Provisions to safeguard the identity of the complainant outside of the confidential proceedings of the College's disciplinary process will be addressed as outlined and presented in the *Complaint and Informal Resolution Procedures* sections A and B.

Within two weeks of receipt of the complaint, the chair or a committee member designated by the chair meets separately with the complainant and the accused to advise them of the College's policy on sexual harassment and the complaint procedures and to determine the facts relevant to the complaint. The committee member then presents a written statement of findings to the chair, or designee, together with a recommended resolution agreement, within ten (10) working days after the meeting with the individual accused of violating College policy. A copy of the committee member's report with the recommended resolution agreement is sent by the chair to the complainant and to the accused with an invitation to comment in writing within five (5) days on the committee member's statement of findings.

Within ten (10) working days after receipt of notification of a request for a formal hearing, the chair, or designee, convenes a meeting of the sexual misconduct committee, except for the student member, to consider the report of the investigator and any written comments offered by the complainant or the accused. The committee may supplement the

substance or procedures of the initial investigation to ensure adequate consideration of the matter and adequate protection of the legal rights of the accused. A written summary report of the committee's deliberations, together with the chair's, or designee's, initial report, is then transmitted by the chair, or designee, to the appropriate senior level administrator. In matters involving students, the appropriate administrator is the vice president. At the same time, a copy of the summary report of the committee's deliberations is sent to the complainant and to the accused.

In findings of fault, sanctions may include warning, probation, suspension, dismissal, expulsion or other actions deemed appropriate by the committee, (i.e., counseling, education or personal/professional development). When the matter has been resolved, the accuser's supervisor, senior level administrator or the vice president informs the chair, or designee, of the final outcome of the complaint. The chair, or designee, advises the complainant and the accuser. The written complaint and the statement of findings and recommendations are maintained by the EEO/AA for a period of five years from the date received. These records may be considered in the event that other formal complaints are filed against the same individual during that period.

SEXUAL ASSAULT POLICY

Sexual assault includes sexual intercourse or assault without consent. A person's mental or physical helplessness or impairment shall constitute evidence of the person's inability to give consent. Sexual assault includes (but is not limited to) any intentional touching by the accused, either directly or through the clothing, of the victim's genitals, breasts, thighs or buttocks without the victim's consent. Sexual assault also includes touching or fondling of the accused by the victim when the victim is forced to do so against his or her will. Sexual assault is punishable by penalties ranging from probation to dismissal. Sexual intercourse without consent, including rape (whether by acquaintance or stranger), sodomy or other forms of sexual penetration is prohibited and is punishable by either suspension or permanent dismissal.

Verbal conduct, without accompanying physical contact as described above, is not defined as sexual assault. Verbal conduct may constitute sexual

harassment, which is also prohibited under College regulations.

Procedures for Violations of the Sexual Assault Policy

Alleged incidents of sexual assault will be adjudicated according to the standards set forth in the College's student code of conduct with the following special procedures:

1. Both the accuser and the accused are each entitled to declare whether the hearing will be by the entire sexual misconduct committee (hereafter referred to as the committee) or by two hearing officers. Each will be consulted individually about the preferred type of hearing. If the accuser and the accused do not select the same type of hearing, the vice president, or designee, will determine the type of hearing to be held. The administrator who makes this decision will not hear the case.
2. If the hearing officers' option is selected, the hearing will be conducted by two members of the committee, one male and one female, appointed by the committee chair.
3. The accuser and the accused may have present at the hearing a personal advisor of his/her choosing. The advisor will not participate in the hearing process and will be bound by the rules of confidentiality governing the hearing.
4. The accuser is permitted but not required to be present throughout the hearing. The accuser may present the case in whole or in part, in lieu of the College presenter (vice president or designee). The accuser and College presenter may not ask repetitive questions of any witness. Upon prior consultation, either the accuser or the presenter may make summary comments in the hearing.
5. The accuser and the accused have a right not to have his or her unrelated past sexual history discussed in the hearing. The hearing officers or chair of the committee will make the determination.
6. The accuser and the accused will receive written notification of the verdict of the hearing and any penalty imposed.

ADDITIONAL COLLEGE POLICIES AND PROCEDURES

ANIMALS ON CAMPUS

No animals are allowed on College grounds or in College buildings with the exception of service animals trained to perform tasks for people with disabilities. Exceptions for extenuating circumstances must be approved in advance by the vice president of financial and administrative services or designee.

GUESTS AND CHILDREN ON CAMPUS

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 nor 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.

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 and Security upon payment of parking maintenance fees.

Parking Violations and Fines

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|---|---------------------|
| 1. Parking in handicap space | \$100 |
| 2. Parking in fire lane | \$100 |
| 3. Parking along or adjacent to yellow curb | \$25 |
| 4. Parking on grass | \$25 |
| 5. Parking in reserved/restricted space | \$25 |
| 6. Failure to display parking permit | \$25 |
| | (secondary offense) |
| 7. Blocking vehicles | \$25 |
| 8. Improper parking | \$25 |

- | | |
|-------------------------------|----------------------|
| 9. Blocking flow of traffic | \$25 |
| | (with vehicle towed) |
| 10. Tampering with wheel lock | \$50 |
| 11. Wheel lock removal fee | \$50 |

Payments of Fines

1. Tickets must be paid within 30 days of issuance.
 - a. Payments not made with 30 days will result in a hold being placed on the violator's account until the obligation is paid.
 - b. Fines in excess of \$200 and/or 4 unpaid violations will result in a wheel lock being attached to the vehicle until payment is made
2. Payment must be made to the Business Office.

Appeal Process

1. All appeals shall be made in writing to the College Chief of Police or designee within 7 business days of issuance. No appeal will be considered beyond 7 business days.
2. A formal response to the appeal will be made within 7 business days. All decisions on appeal are final.

Towed Vehicles

1. Vehicles may be towed, if blocking traffic, parked in a fire lane, handicap spaces, parked in the motorcycle lot after posted hours or whenever deemed necessary for the safe and orderly flow of traffic.
2. Lord Fairfax Community College is not responsible for fees or damage incurred during towing.

SMOKING POLICY

Smoking or use of tobacco products 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.

STUDENT IDENTIFICATION CARD POLICY

The student identification card is a student's official LFCC identification. All credit students are required to have an ID card. Students can apply for an ID card with Campus Police and Security. Student activity fees cover the first card issued; however, there is a \$20

charge for a replacement card. IDs are intended for the sole and exclusive use of the student to whom the ID is issued for purposes of identification as a member of the College community and qualification for College services, i.e., use of computer labs and student activities. ID cards are not transferable (to another person) and must be returned upon request. Policy and details regarding the student identification card program are available at <http://www.lfcc.edu>.

ADDITIONAL COLLEGE INFORMATION

Announcement Boards, Official Notices, College Information

Announcement boards are located throughout the College and official notices are posted on them. Students are expected to read all posted official notices. Each student has an individual e-mail address through the College and the College will also use this e-mail address to provide important and timely communications to students.

The Student Life Office publishes a student newsletter on the 1st and 15th of each month. The newsletter, called the *LFCC Focus*, is posted on the student activities Web site. Any member of the College community may place an announcement in the *LFCC Focus* by submitting it in writing to the Student Life Office. All announcements must be received by 4 p.m. ten (10) days prior to publication. No telephone messages will be printed. If space is limited, preference will be given to announcements dealing with College matters. All announcements are subject to the approval of the dean of student success at the appropriate campus.

Emergency Closing Alerts

For the latest emergency closing information, please sign up for LFCC Alert at <http://alert.lfcc.edu>, visit the College's Web site or call the emergency closing announcement telephone lines at 540-351-1565 (Fauquier Campus) or 540-868-7230 (Middletown Campus). 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.

When the College issues a delayed opening or day class cancelation announcement, please check the Web site or call the emergency closing announcement telephone lines 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.

Emergency Information

Fire/Ambulance—Local Volunteer Fire and Rescue Company—911.

Campus Bookstore

Textbook purchases in resalable condition will be fully refunded with receipt within seven (7) calendar days from the start of classes or within two (2) days of purchase thereafter, including during the summer term. Textbooks purchased during the last week of classes or during exams may be sold back under the book buyback policy. Computer software may be returned if it is unopened and shrink wrapped. In addition, upon proof of drop/add, the bookstore will accept textbook returns from students who have dropped a course up to thirty (30) days from the start of classes or until the end of the official drop/add period, whichever occurs first.

Non-textbook items in resalable condition may be refunded or exchanged at any time with original receipt. All major credit cards are accepted. Personal checks need the following information: address, phone number and ID or driver's license number.

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.

Campus Police and Security

The Campus Police and Security team 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. Police and Security Officers assist with emergencies, evacuations, drills, as well as vehicle batter 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).

Lost and Found/Assistance

Campus Police and Security is responsible for all items turned into Lost and Found. If you locate an item or misplace one of your own, stop by Campus Police and Security. All items turned into Lost Found will be kept for 120 days. At that time, all unclaimed property will be disposed of according to established procedures.

SOLICITING, PROMOTING, OR SELLING

Soliciting, promoting, or selling to the College community is not permitted without the prior *written* consent of the student activities office or the vice-president of administration and finance.

*Students' selling used textbooks to one another is permitted.

*Posting flyers with items for rent or for sale on authorized public bulletin boards is acceptable with approval from the student activities office.

STUDENT ACTIVITIES

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

program 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. Following are clubs and organizations currently active at the College. To see a list of active clubs and organizations at LFCC, please visit the student activities Web site at <http://www.lfcc.edu/studentactivities>.

STUDENT GOVERNMENT ASSOCIATION

An integral part of the student activities program at each campus is the Student Government Association (SGA). Each year, the student body elects a president, vice president, secretary and treasurer. 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. For more information, see the campus student activities coordinator located in the Student Life Office.

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:

- Include as participants only currently enrolled LFCC students, LFCC alumni and LFCC faculty/staff members.
- Have at least five students who are currently enrolled on the campus that is filing the charter.
- Have a full or part-time faculty/staff advisor who will participate actively.

All organizations and clubs must:

- 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.

- Submit an initial recognition application 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.
- Be approved by the coordinator of student activities, SGA, Student Life committee and the president of Lord Fairfax Community College.
- Be in compliance with the LFCC nondiscrimination policy.
- Have the advisor or another member of the LFCC faculty or staff accompany the group on all trips and events held off campus.
- Establish and maintain a financial account in the Business Office.
- Deposit revenue from all sources into that account.
- Purchase items in accordance with College procurement guidelines in order to protect tax-exempt status.
- Recharter by the last day of September each year.
- Submit a budget proposal for funds to Student Activities and the Student Government Association for consideration and recommendation if seeking funding.

After these items have been reviewed and approved by the coordinator of student activities, the information will be submitted to the SGA. Once the SGA recommends approval of the petitioning club or organization, the documents will be forwarded to the Student Life committee. 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 Activities Coordinator. The Student Activities 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 a higher GPA if required by an affiliated national organization.

Source of Funds for Clubs and Organizations

There are four sources of funds for the student activities budget. They are student activities fees,

vending revenue, ID card replacement fees and College-wide event sales. Individual clubs and organizations may receive additional funding through fund-raising efforts. Fund-raising efforts must follow LFCC guidelines.

Purpose of the Student Activities Fee

The student activities budget, which is approved by the Lord Fairfax Community College Board prior to the beginning of each fiscal year, is largely funded from student activities fees. The fund accounts are for transactions related to student functions. These functions include intramurals and club sports teams; campus, community and cultural events; social activities; organization support; College-wide activities; student government associations and performing arts activities. Funds are also provided for additional student activities staffing needs and the student ID program.

General Standards

Student organizations and clubs that receive financial support from the College must stipulate in their constitutions or bylaws the following:

- The primary purpose of the organization/club is educational or service, or both.
- The group permits expression of a wide range of views among its members.
- Currently enrolled students' lives will be enriched by their events and activities.

The following general guidelines are applicable to all College-recognized organizations and clubs that receive any type of funding from the student activities fee. These guidelines determine whether a student group is eligible to receive funding consideration.

Student Organizations

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 to the College, community and individual students. These organizations benefit all LFCC students. The coordinators of student activities, Coordinator of Student Life and the Dean of Student Services at the appropriate campus will review organization eligibility annually. Student organizations may apply for funding through the Student Activities Office on their campus. This process will occur during the

College budget process in the spring semester. Any organizational funding must be used to enrich the lives of currently enrolled students in their organization or College-wide. Funding may not be used for service projects outside of the College. The College encourages organizations to use other means to fund service-oriented projects.

Organizations may also request additional funding for unanticipated needs under the same guidelines set for student clubs. The Student Activities Budget Review Board may take into consideration funding that has already been allocated to the organization, the use of those funds to date and the intended use of any remaining funds that have been allocated.

Student Clubs

Recognized student clubs that have been approved through the College's annual recognition process are

eligible to be considered for financial support. Student clubs are not guaranteed financial support from the student activity fund (SAF). Funding is based upon the availability of funds. Clubs should not plan to have SAF as their primary source of revenue. Fundraising and/or the collection of dues are highly recommended.

Criteria for Funding Clubs

Events and Activities Funding

- Clubs will be funded only for those events that maintain the purposeful functions of the group, as stated in its constitution.
- Funds are ordinarily allocated to recognized clubs whose programs will directly benefit or serve a large segment of the student body.
 - Programs and activities funded in whole or in part by the SAF must be open to any interested student.

Unanticipated Needs

- Emergency funding may be available if an unanticipated need arises that requires immediate attention for which event/activities or travel funding could not have been planned or applied for during the regular process.

Travel Funding

- Funding may be requested for student travel to conventions, conferences, performances and competitive events. All travel requests are subject to the College's travel policies and procedures. Travel must also be related to the club's primary purpose as stated in its constitution.

All club funding requests must comply with the following criteria:

- Clubs requesting funding must comply with the College's request procedures.
- Clubs may only maintain a College account. Clubs must deposit all receipts and make all expenditures through their campus Business Office.
- Requests for checks and purchases must be approved by the club's advisor.
- All purchase requests must fully comply with College procurement procedures.

Funding Guidelines

- Clubs must submit a budget request within twenty-one (21) calendar days from the first day of classes in the fall, for fall semester funding. All requests for the spring semester must be received by 4:30 p.m. on the last day of business in November.
- Written justification and oral presentation at a budget hearing must support budget requests.
- Clubs must demonstrate stability and fiscal responsibility by submitting budget records from the previous year, including all self-generating revenue.
- The request must state the number of students that will benefit from the event.
- The club must be supported, in part, by self-generating monies.
- The club must certify that its members approved the budget request at an open meeting and that it has consulted with the club advisor.
- The club must be active in at least one approved College event per semester.
- Funding is provided for all or any part of specific club events, activities and travel, but not for general club support.
- Funding may be used to pay off-campus vendors, as necessary, to support club activities.

Student Activities Budget Review Board

The Student Activities Coordinator, Coordinator of Student Life and the Student Government Association

president will make up the Student Activities Budget Review Board.

The Student Activities Budget Review Board will hold a budget hearing within seven days after the semester's budget request submission deadline. Clubs that have submitted requests will be notified when and where the hearing will be held. A representative of the club or organization should be present to field any questions and discuss the club's request. The Student Activities Budget Review Board will evaluate each request for funding upon completion of the budget hearing. Each request will be decided by a majority vote of the board.

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:
 - Programs sponsored by the club in the past 12 months were successful.
 - Program has an educational value.
 - Program encourages interaction among students.
 - Program supports student commitment and loyalty to the College community.
 - Program will be visible and accessible to all students.
 - Program is designed to promote a diversity of student interests.
3. Club has shown past fiscal responsibility. Were forms turned in on time? Were proper procedures followed? Were SAF funds granted in the last 12 months used in the correct manner? If all funds were not used or used correctly, has the club provided an explanation?
4. Research and planning has taken place to ensure feasibility of the event.
5. College policies will not be violated by the program or event.
6. Estimates of expenses and revenues are reasonable and have been researched.
7. Overall level of detail provided in the request and budget hearing.

The following items will not be funded for any activity:

- 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 vice president or his/her designee. The appeal must be submitted in writing within five business days of the funding allocation decision by the Student Activities Budget Review Board. The vice president or his/her designee may request the Student Activities Budget Review Board to reconsider the request and any additional information provided, or may decide to grant the appeal decision without further Student Activities Review Board 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 coordinator of student activities. The club or organization shall not allow any funds in their account to remain inactive (i.e., no deposits or withdrawals), for a period of nine months in any academic year. Failure to spend these monies shall result in funds being refunded to the student activities fund by the end of the fiscal year in which the club was declared to be inactive.

The club or organization must assure that their president or designee regularly attends SGA Senate meetings. If a president of an official club or organization is unable to be the Senate member, each

semester the club or organization must select a member of their organization to represent them in the Senate. The club or organization president must provide the SGA secretary written notification of the designee for the person to officially receive voting rights and be counted as present. If any club or organization misses more than 30 percent of the meetings during a particular semester, the SGA may recommend that the club or organization be declared inactive.

VCCS Requirements for Student Activities

The State Board for Community Colleges encourages the development of a student activities program designed to promote educational and cultural experiences. The State Board shall recognize and encourage honorary, scholastic, service organizations and sports clubs that do not restrict membership based on race, color, gender, age, religion, disability, national origin, or other nonmerit factors. Private clubs, private associations, social fraternities and social sororities shall not be authorized or recognized by the VCCS. The following regulations and procedures apply to all student activity programs in the community colleges of the VCCS.

- a. The entire program of student activities shall be under College supervision.
- b. There shall be a faculty or staff sponsor for each student organization.
- c. All student activity funds shall be deposited with and expended through the College's Business Office, subject to State Board policies, procedures and regulations pertaining to such funds.
- d. Each college, with the approval of its local board, shall adopt its own regulations and procedures to implement the above policy.
- e. All student activity programs and organizations must comply with the VCCS's nondiscrimination policy.