



NASHUA
COMMUNITY COLLEGE

▶ **Catalog 18/19**

2018-2019 Table of Contents

| | | | |
|-----------------------------|----|--|----|
| Mission Statement..... | 1 | Academic Requirements & Policies..... | 30 |
| Admissions..... | 4 | Student Services..... | 38 |
| Expenses for 2018-2019..... | 7 | General Education Requirements..... | 41 |
| Financial Aid..... | 10 | Honors Program..... | 48 |
| Veterans' Assistance..... | 28 | Department of Multicultural Engagement | 49 |

Associate Degrees

| | | | |
|---|-------|--|-----|
| Automotive Technology..... | 50 | General Studies..... | 77 |
| Aviation Technology..... | 52 | General Studies Health..... | 78 |
| Biological Sciences | 54 | History & Political Science | 79 |
| Business Administration: Accounting | 55 | Honda Automotive Technology | 80 |
| Business Administration: Management | 56 | Hospitality & Restaurant Management..... | 82 |
| Business Administration: Marketing..... | 57 | Humanities | 83 |
| Business Administration: Small Business Entrepreneurship .. | 58 | Human Services..... | 84 |
| Collision Repair Technology | 60 | Holistic Massage Therapy..... | 86 |
| Communications | 62 | Liberal Arts | 89 |
| Computer Networking..... | 63 | Mathematics..... | 90 |
| Criminal Justice..... | 65 | Mechanical Design Technology..... | 91 |
| Culinary Arts..... | 66-67 | Nursing..... | 92 |
| Cybersecurity Networking..... | 68 | Paralegal Studies | 96 |
| Early Childhood Education..... | 69 | Precision Manufacturing..... | 98 |
| Educator Preparation | 72 | Psychology | 100 |
| Electronic Engineering Technology..... | 74 | Software Development..... | 101 |
| English..... | 75 | Speech-Language Pathology Assistant..... | 102 |
| Foundations in Data Analytics..... | 76 | Web Application Development | 104 |

Certificates

| | | | |
|---|-----|---|-----|
| Sign Language..... | 44 | Internet Developer | 64 |
| Automotive Service and Repair | 51 | Website Design..... | 64 |
| Aviation..... | 53 | Criminal Justice..... | 66 |
| Accounting Certificate I | 59 | Early Childhood Education..... | 71 |
| Accounting Certificate II | 59 | Early Childhood Para Educator II | 71 |
| Accounting Certificate III..... | 59 | School Aged Para Educator II | 71 |
| Computer Information Systems. | 59 | Human Services..... | 85 |
| Marketing | 59 | Massage Therapy..... | 88 |
| Small Business Management | 59 | Paralegal..... | 97 |
| Spreadsheet | 59 | Machine Tool Technology CNC Programming..... | 99 |
| Collision Repair Technology | 61 | Metrology & Quality Control for Precision Manufacturing..... | 99 |
| Computer Networking..... | 64 | Precision Manufacturing CNC Operator | 99 |
| Cybersecurity Networking..... | 64 | | |
| Industry & Transportation Department General Education Policies..... | 45 | Course Descriptions..... | 109 |
| Technical Standards..... | 105 | Nashua Community College Personnel..... | 151 |
| | | Student Calendar..... | 155 |

Course Catalog 2018 - 2019

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www.nashuacc.edu

Nashua Community College (NCC) is one of the seven colleges in the Community College System of New Hampshire. For more information about CCSNH, call 800.247.3420.

This catalog is a guide to NCC and its contents are subject to revision at any time. The College reserves the right to change tuition, fees, courses, policies, programs, services and personnel as required. *A matriculated student must follow the curriculum of the program at the time of matriculation.*

Nashua Community College is a smoke-free campus.

This catalog is current as of September 1, 2018

President's Message



Lucille A. Jordan
President

Welcome!

Welcome to Nashua Community College! Whether you are preparing for a four-year program, the workforce, or gaining new skills to further your career; NCC has what you need to reach your goals. Our dedicated faculty and staff are here to help you every step of the way, while the student life and sense of community will help you feel at home.

Student Life

Dozens of student clubs, activities, and the Student Senate keep campus lively throughout the year. Students who don't see the perfect club for them are encouraged to create their own. The Student Services department and faculty and staff advisors are here to help students get the most out of their extracurricular activities.

We are also truly a community college: Beyond campus life, students benefit from NCC's engagement with the outside community. NCC keeps a close relationship with the United Way of Greater Nashua, hosting United Way events throughout the year such as food packing events to help food-insecure families, and overnight rallies to address homelessness in Nashua. On-campus AmeriCorps VISTA staff help NCC students organize community service projects. Recent community service projects include a week-long trip to Houston in March 2018 to assist victims of Hurricane Harvey.

Access & Affordability

We are sensitive to the financial burden higher education can be on students and families. While maintaining quality faculty and programs, NCC has worked to maintain the lowest tuition rate possible. The NCC Advisory Board is also dedicated to raising scholarship funds for students in need, culminating in an annual scholarship gala every spring. We encourage any student in need of assistance managing college-related costs to visit the Financial Aid Office.

Through our Purpose First mission, we will guide your academic plan toward the most efficient pathway, saving you money and assisting you in the transition to a career or higher education beyond NCC. Our new structured schedules will help you maximize your time at NCC, and maintain a comfortable work-life-school balance.

We also work to ensure the value and integrity of your education. The NCC Career Coach resource will help you both gauge your academic interests, and provide a constantly updating list of salaries and job availability for your career path. The Gainful Employment statements posted on our Certification Program web pages also provide tuition costs alongside employment statistics.

Part of a Thriving Community

Our students are the heart of the college community, and I am confident that with NCC, you will have the education and training you need to succeed, as well as the enrichment that comes from a thriving college community.

NCC alumni are entrepreneurs, writers, teachers, scientists, nurses, and engineers. They have gone on to open their own auto shops, daycares, and restaurants, joined the booming advanced manufacturing industry in New Hampshire, or transferred to more than 500 four-year-colleges and universities nationwide.

Where will your education at NCC take you?

My best,

A handwritten signature in black ink that reads "Lucille Jordan". The signature is written in a cursive, flowing style.

Lucille A. Jordan

Mission

Nashua Community College provides quality, academically rigorous, higher-education programs focused on the diverse needs of students and the community.

Vision

Nashua Community College (NCC) will continue to be the preferred provider of two-year, post-secondary education in the Nashua Region and evolve with the educational needs for lifelong learning.

Educated Person

Nashua Community College helps students improve their lives and become more responsible as informed citizens and educated persons. The college community has defined a set of essential skills to maximize one's role as a contributing member of society. Among those skills are communications, information literacy, scientific reasoning, quantitative analysis, ethical responsibility, critical thinking, global connectedness, and tolerance for ambiguity.

Core Values

The college community endeavors to guide and inspire a mindset of success in our students. Our core values help students to:

Commit to the successful completion of a program at NCC;

Communicate effectively in writing and speaking;

Collaborate with others in group projects;

Create new ideas and works;

Challenge themselves to ask questions and to think critically.

The College fulfills its mission as determined by the extent to which the institution:

1. Engages in programs and activities that expand access to higher education for all members of the community
 2. Provides students with a full range of student development and academic support services
 3. Offers students the opportunity to contribute to the well-being of others through service learning and volunteerism
 4. Prepares individuals for employment in a variety of careers in business, the health sciences, and public service
 5. Serves as an entry-point for bachelor degree programs by providing the first two years of a four-year program
 6. Provides economic development and continuing education activities to meet the needs of business, industry, and government
 7. Collaborates with visual and performing arts organizations in the community to elevate the human spirit.
-

History

Since 1970, Nashua Community College has been successfully meeting the educational needs of the Greater Nashua area. In 1976, the College expanded its facilities to include a separate automotive building. A \$3.6 million addition to the main building was completed in June 1986. This addition featured an expanded science area, general classrooms, a hydraulics/pneumatics/robotics laboratory, photography laboratory and studio, microcomputer laboratories, and an expanded cafeteria. In 1990, renovations were completed to accommodate a new program in Aviation Technology (Airframe and Powerplant). To address regional employment demands, the College implemented new programs such as Human Services, Early Childhood Education, and Computer Science.

Funds were approved in Spring 1999 to build a new library and to upgrade science laboratories. The Walter R. Peterson Library & Media Center opened in December 2000. In 2001, the Claremont Nursing Program was brought as a satellite to the Nashua Campus. The College received accreditation through the Commission on Institutions of Higher Education in 2002. Renovations to the main building and to the automotive building were undertaken in 2004 and 2005. In 2004, the Speech Language Pathology Assistant Program was added to address regional employment demands, and in 2005, the College was chosen to be the site for the Honda PACT Program. That same year, a bond was approved to build a Wellness Center.

The New Hampshire Board of Nursing gave approval to the Nashua Nursing Program in 2006, and the program received National League of Nursing initial accreditation in 2007. Ground was broken in April 2007 for the Wellness Center. In 2007, the New Hampshire Legislature approved money to plan a new health and science academic building. An addition to the Automotive Building was completed in Fall 2012. In January 2008, the New Hampshire Legislature approved a name change to Nashua Community College. The Wellness Center opened in Fall 2008. In June 2009, the New Hampshire Legislature approved capital improvement funds to construct a new health, sciences, and humanities academic building which opened Fall 2010. In July 2011, the HSH building was named Judd Gregg Hall to honor the U.S. Senator's devotion to education reform in New Hampshire. A \$2 million, 17,000 square foot addition to the automotive facility was completed in fall 2012. This expansion was paid for by State Capital funds. In January 2013, the Advanced Machine Tool laboratory renovation was completed. This \$1.6 million project was funded from the U.S. Department of Labor, Employment and Training administration TAACCCT grant. In 2016, a second TAACCCT grant of \$2.5 million enabled the College to expand the lab by an additional 3000 square feet, further enhancing the students' abilities to compete for future careers in manufacturing-related industries. In 2018, Nashua Community College and Community College System of New Hampshire leadership announced that the main building will be renamed "Bernie Streeter Hall" in honor of former Executive Councilor and Mayor of Nashua, Bernie Streeter. Streeter has been a long time advocate for Nashua Community College since its founding.

Throughout its history, Nashua Community College has continually assessed its academic programs and instructional facilities in order to achieve its mission of "providing quality, academically rigorous, higher-education programs focused on the diverse needs of students and the community."

Campus Setting

The four buildings contain general and program-specific classrooms and laboratories, student support services, the Wellness Center, the Walter R. Peterson Library & Media Center, the Judd Gregg Hall Auditorium, administrative and faculty offices, Café 505, the bookstore, and more. Spaces for more than 500 vehicles offer convenient, free parking including designated spaces for people with disabilities. The College is located on the city bus line and Nashua Community College offers free public transportation to students.

Regional Accreditation

Nashua Community College is accredited by the New England Association of Schools and Colleges, Inc. through its Commission on Institutions of Higher Education.

Accreditation of an institution of higher education by the New England Association indicates that it meets or exceeds criteria for the assessment of institutional quality periodically applied through a peer review process. An accredited college or university is one which has available the necessary resources to achieve its stated purposes through appropriate educational programs, is substantially doing so, and gives reasonable evidence that it will continue to do so in the foreseeable future. Institutional integrity is also addressed through accreditation.

Accreditation by the New England Association is not partial but applies to the institution as a whole. As such, it is not a guarantee of every course or program offered, or the competence of individual graduates. Rather, it provides reasonable assurance about the quality of opportunities available to students who attend the institution.

Inquiries regarding the accreditation status by the New England Association should be directed to the administrative staff of the institution. Individuals may also contact:

**Commission on Institutions of Higher Education, New England Association of Schools and Colleges
209 Burlington Road, Bedford, MA 01730-1433 • phone: 781.271.0022 • email: cihe@neasc.org**

Specialized Accreditations

Automotive Technology and Honda Automotive Technology – The programs are certified by the National Automotive Technicians Education Foundation (NATEF) and the instructors are certified by the National Institute for Automotive Service Excellence (ASE) Certifications, 101 Blue Seal Drive, Suite 100, Leesburg, VA 20175.

Aviation Technology – FAA approval (FAA certificate number NSUTO25K)

Business Administration Programs including Accounting, Management, Marketing, and Small Business Entrepreneurship are accredited by the Accreditation Council for Business Schools & Programs (ACBSP), 11520 West 119th Street, Overland Park, KS 66213



Electronic Engineering Technology – Accredited by the Engineering Technology Accreditation Commission of ABET, <http://www.abet.org>.

Nursing – The program has Approval of the New Hampshire Board of Nursing and is accredited by the

Accreditation Commission for Education in Nursing (ACEN)

3343 Peachtree Road, Suite 850

Atlanta, GA 30326

404-975-5000

www.acenursing.org

CCSNH Disabilities Services Mission Statement

It is the mission of CCSNH Disabilities Services to provide equal educational access, opportunities, and experiences to all qualified students with documented disabilities who register with the College's Disabilities Services Office. Reasonable accommodations are provided to students to allow them to achieve at a level limited only by their abilities and not by their disabilities. Assistance is provided in a collaborative way to help students develop strong and effective independent learning and self-advocacy skills, as they assume responsibility for reaching their academic goals.

Students requesting accommodations for disabilities must register with the Disabilities Support Coordinator, located in the Academic Success Center, and provide documentation to support the request. In order to receive classroom accommodations a student must meet eligibility requirements and complete the RAP application process. Forms and instructions are available on the NCC website and in the Academic Success Center.

Notice of Nondiscrimination

Nashua Community College does not discriminate in the administration of its admissions and educational programs, activities, or employment practices on the basis of race, color, religion, national or ethnic origin, age, sex, sexual orientation, marital status, disability, gender identity or expression, genetic information, or veteran status. This statement is a reflection of the mission of the Community College System of New Hampshire and Nashua Community College and refers to, but is not limited to, the provisions of the following laws: Title VI and VII of the Civil Rights Act of 1964, The Age Discrimination Act of 1967, Title IX of the Education Amendment of 1972, Section 504 of the Rehabilitation Act of 1973, The Americans with Disabilities Act of 1990, Section 402 of the Vietnam Era Readjustment Assistance Act of 1974, and the NH Law Against Discrimination (RSA 354-A).

Inquiries regarding discrimination may be directed to the Equity/Human Rights Committee, Title IX Coordinator, or Human Resources office at Nashua Community College at 603.578.8900 or to the Director of Human Resources for the Community College System of New Hampshire, 26 College Drive, Concord, NH 03301, 603.230.3503. Inquiries may also be directed to the Office for Civil Rights, Boston Office, US Department of Education, 33 Arch Street, Suite 900, Boston, MA 02110 Tel: 617.289.0222, FAX: 617.289.0150, TDD 617.223.9695, e-mail OCRBoston@ed.gov; the Equal Employment Commission, John F. Kennedy Federal Building, Government Center, 4th Floor, Room 475, Boston, MA 02203, 617.565.3200, TTY 617.565.3204.

To be automatically connected with the nearest EEOC field office, call 1.800.669.6820, TTY 1.800.669.6820; and/or the New Hampshire Commission for Human Rights, 2 Chennell Drive, Concord, NH 03301, 603.271.2767.

Admissions

Admission to Nashua Community College is open to all applicants who are qualified according to the admissions standards of respective programs, and applicants will not be barred from admission because of race, color, religion, national or ethnic origin, age, sex, sexual orientation, marital status, disability, gender identity or expression, genetic information, or veteran status. First priority for admission will be given to New Hampshire residents, second priority will be given to students qualifying under the New England Regional Student Program (NERSP) and third priority will be given to students not qualifying under the New England Regional Student Program or those not domiciled in the state of New Hampshire. However, in highly competitive programs with limited enrollment, the Admissions Office, while working as much as possible within the above parameters, may exercise discretion in admitting those applicants who best fit the needs and expectations of the department, the College and the local community.

In an effort to assist students on reaching their educational goals, NCC has partnered with the Adult Learning Center (ALC) to offer the preparatory coursework not offered by the College through a College Transitions Program at NCC. Students whose college placement test results indicate enrollment in these preparatory courses is necessary will be referred to the College Transitions Coordinator.

The facilities and services of the College will be available to all enrolled students, day and evening (except when restricted by judicial action).

Admissions Procedures

Applications for admission can be completed [online](#), downloaded as a [PDF](#) from our website or obtained from the Admissions Office. The application can be mailed to: Admissions Office, Nashua Community College, 505 Amherst Street, Nashua, NH 03063.

Once applications are received, the applicant will be informed of any additional information or procedures necessary for acceptance to Nashua Community College. Some programs will require additional items such as letters of reference, driving records or an entrance exam. Please see program descriptions for details. It is the responsibility of the applicant to ensure that all documents requested by the College are received. **All documents submitted to the College become the property of NCC and will not be returned or sent to other organizations.**

General Admissions Requirements

1. File a Nashua Community College Application for Admission. Students will need to reapply after non-attendance to start in a new academic year. If reapplication is necessary, the applicant must submit a new application.
2. Present evidence of graduation from an approved high school (transcript with date of graduation or high school diploma) or possess a General Equivalency Diploma (GED), High School Equivalency Test (HiSET) or satisfactory equivalent. Transcripts and any satisfactory equivalents must be submitted in a sealed envelope.
3. Students applying to a degree program or certificate program that require math and/or English may be required to take the ACCUPLACER college placement test (see College Placement Test section). Students who have successfully completed College Composition and a college-level math course may waive the ACCUPLACER exam.
4. Transfer students may submit official transcripts of all previous college work. Courses successfully completed prior to admission will be considered for transfer.

Students applying to a degree program or certificate program that require math and/or English may be required to take the ACCUPLACER college placement test. SAT scores are not required for admissions however, scores may be used to waive the ACCUPLACER exam. Students who have successfully completed College Composition and a college-level math course may waive the ACCUPLACER exam (see College Placement Test section).

Nashua Community College encourages students to apply for Federal Student Aid by completing the Free Application for Federal Student Aid (FAFSA) online at fafsa.gov. NCC school code is 009236. See Financial Aid section for additional information.

Homeschooled Students

Nashua Community College encourages applications from students who are homeschooled. While the nature of home schooling is inherently unique to each student, the College requires appropriate documentation to determine admission. Applicants are expected to meet the same general and specific admission requirements (or their equivalent) as other applicants and to document the academic work they have accomplished. Documents to be submitted may include one of the following:

1. A letter or other documentation from the student's local school district stating the student has completed a home school program at the high school level.
2. A list of courses taken and grades earned.
3. GED or other testing, if applicable.
4. A letter or other appropriate record indicating the student has completed a home school program in accordance with their State regulations.

International Students: Application Material Required

In addition to the admissions requirements, international students must submit the following:

1. A \$100 non-refundable International Admissions fee.
2. Official English translation of all secondary and postsecondary academic records.
3. If your native language is not English, you must take the Test of English as a Foreign Language (TOEFL) exam and earn a score of 500 or higher; a score of 173 or higher on the computer-based test; or a score of 61 or higher on the internet-based TOEFL. Please visit the Education Testing Service website. For inquiries, contact TOEFL Services at [Education Testing Service](#) website for more information on the exam and where the TOEFL exam is given in your country. For inquiries, contact TOEFL Services at Education Testing Service (ETS) by phone at 877.863.3546 or by mail at ETS Ewing Office; 225 Phillips Boulevard Ewing, NJ 08618. If you are currently in the United States seeking a student visa, NCC may waive the TOEFL requirement and administer the Accuplacer Placement Test.
4. An Affidavit of Financial Support form from the person(s) who will be financially responsible for the student. Forms and instructions can be printed from our website. Please follow instructions for the form and state all funds in US dollars. All supporting documentation must be included.
5. Copies of current passport and immigration documents including current visa and Duration of Status (D/S) card.

Dollar amounts promised by the sponsor and available in the sponsor's bank account should be sufficient to cover a minimum of two years expenses (out-of-state tuition, fees, room and board, books, and miscellaneous expenses). Before a Certificate of Eligibility for an F-1 visa (I-20) can be issued, applicants must have submitted all documents required and be accepted into a full-time program (12 credits or more per semester).

Please note: On-campus housing is not available.

Early College

The Early College Program provides a pathway for current New Hampshire high school students to take college courses at NCC while still in high school. Early College students pay 50 percent of the cost of the NCC tuition until high school graduation. High school students have the opportunity to start college core curriculum, start courses in a major, and request dual credit with their high school. Early College students are welcomed into the NCC community and the student body as a whole, offering the high school student a full and authentic college experience. The reduced tuition for high school students offers an incentive to start college in high school for a fraction of the tuition compared with post high school graduation. Early College is designed for juniors and seniors, although exceptions are made in unique circumstances. Contact the Early College Enrollment Specialist for further information.

Residency Status

A student will be classified as in-state or out-of-state for tuition purposes at the time of admission. The Admissions Office will make the decision based on information furnished by the student's application and other relevant and available information. To qualify for in-state tuition, a student must have been domiciled in New Hampshire continuously for at least 12 months immediately prior to registration for the term for which in-state status is claimed. Students living within a 50-mile radius of the NCC campus also qualify for in-state tuition.

A member of the active duty U.S. Armed Forces stationed in this state under military orders, or stationed in a contiguous state but temporarily living in New Hampshire, shall be entitled to classification for himself/herself, spouse and dependent children as "in-state" for tuition purposes so long as said orders remain in effect and residence in this state is continued. Also, military personnel who are residents of another state but choose this state as their residence within 90 days of being discharged from the military will be considered residents and charged in-state tuition. Refer to the "Veterans' Assistance" Section in this catalog for more information.

Residents of the other five New England states are eligible to pay a lower, regional tuition (instead of the out-of-state) when enrolled in associate degree programs approved under the New England Regional Student Program (NERSP). The College allows additional eligibility to include all associate degree and certificate programs.

International Students are not eligible for in-state or New England Regional tuition rates for day courses at any time while enrolled at NCC.

Any student who has, on his/her first admission to the College, been classified as New England Regional or out-of-state for tuition purposes, may apply to the Admissions Office for a change of status on or before September 1 for the subsequent fall semester, on or before January 1 for the subsequent spring semester, and on or before June 1 for the subsequent summer term.

Any student who is aggrieved by the decision of the Admissions Office may appeal in writing to the Vice President of Student and Community Affairs. In all cases of application for in-state status for tuition purposes, the burden of proof shall be on the applicant.

College Placement Test

The college placement test utilized is Accuplacer. Accuplacer is a set of computerized tests that determines a student's skill level in math and/or English. Accuplacer testing is required for all associate degree programs and certificate programs that require math and/or English. The results of the assessment enable us to provide students with crucial early guidance in course placement/selection. Students can schedule the Accuplacer assessment and access the practice materials online. There is a \$20 fee for the Accuplacer Assessment test which must be paid in the NCC Business Office prior to testing.

Please note that SAT scores are not required. However, if a student has SAT scores obtained within the past three years, they may be used for placement instead of the Accuplacer test. If SAT scores were obtained before March, 2016, a Math SAT score of 520 or higher is required for placement in college level math and a Critical Reading score of 550 or higher and an Essay score of 8 or higher is required for placement in college level English. If SAT scores were obtained on or after March, 2016, a Math SAT score of 550 or higher is required for placement in college level math (a score of 480-549 can be used for placement in college level math with a co-requisite workshop) and a Critical Reading and Writing score of 500 or higher is required for placement in college-level English (a score of 430-499 can be used for placement in college level English with a co-requisite workshop). See Admissions for course placement information.

Academic Amnesty

A student who has previously attended NCC and is admitted at a later time, may be eligible for Academic Amnesty, which provides for the following:

1. All grades taken during the student's previous time at the College will no longer be used to calculate the student's new cumulative GPA. However, grades C- and above taken during the student's previous time at the Institute/College will be used to meet course requirements (where appropriate), subject to the approval of the Vice President of Academic Affairs.
2. Even though previous grades will not be used to calculate the new cumulative GPA, all previous grades will remain on the student's transcript.

In order to be eligible for Academic Amnesty, a student must meet all of the following conditions:

1. The student has not taken any courses at NCC for a period of at least three years from the last semester of attendance.
2. The student applies for Academic Amnesty before the start of his/her second semester after readmission.
3. The student has never before received Academic Amnesty.
4. The student achieved a cumulative GPA below 1.7 during previous attendance.

Insurance

We encourage students needing health insurance to review the Companies licensed to sell health insurance in NH at <http://www.nh.gov/insurance/consumers/healthinscos.htm> to identify a provider that best meets their needs. The list includes companies that could provide either individual health insurance or short term (six months) health insurance. Please note that NCC is providing this link as a resource to our students and it should not be viewed as an endorsement of any of the companies or their plans. Government information on health insurance can be found at www.healthcare.gov.

Proof of health insurance is required for students enrolled in the Nursing Program and those who participate in athletic activities. Some additional College related activities may require proof of health insurance, which will be requested as needed.

Expenses for 2018-2019

Students will pay tuition on a per credit basis:

| RESIDENT STATUS | PER CREDIT |
|--|-------------------|
| NH Resident | \$215.00 |
| New England Regional Student Program | \$323.00 |
| Nonresident | \$490.00 |
| Comprehensive Fee (per credit)* | \$23.00 |
| Academic Instruction Fee (per Lab credit)** | \$110.00 |
| Diploma Replacement Fee | \$20.00 |
| ACCUPLACER® Placement Test Fee | \$20.00 |
| ACCUPLACER® Placement Test Re-take Fee | \$20.00 |
| Mechanical Aptitude Test Fee (for Automotive majors only, beginning Fall 2019) | \$30.00 |
| Tuition Deposit: Day matriculated nursing students*** (non refundable) | \$100.00 |
| Culinary Arts - Sanitation Course Fee | \$39 |

Individual course fees for the following programs:

| | |
|---|-------|
| Automotive Technology, Aviation Technology, Collision Repair Technology, Electronic Engineering, Honda Automotive Technology, Mechanical Design Technology, cybersecurity & networking, Precision Manufacturing | \$50 |
| Culinary Arts - Food Preparation fee | \$100 |

* Supports Student Activities and the Wellness Center.

**An Academic Instruction Fee will be charged for all Laboratory or other similar experiences. This fee will be calculated by subtracting the number of lecture hours from the number of credit hours and multiplying the remainder by \$110 for each course. This will be added to the normal tuition charge for that course

Example:

| | | | |
|-----------------------|--------------------------------|-----|----|
| | CL | LAB | CR |
| BIOL215N Microbiology | 3 | 3 | 4 |
| | <hr/> | | |
| | $4 - 3 = 1 \times 110 = \$110$ | | |

This fee will be charged to all students with no exceptions. No other academic instruction fees are permitted without the written authorization of the Chancellor of the Community College System of New Hampshire.

***A non-refundable tuition deposit of \$100 will be required from all students matriculated in Nursing. A matriculated student is defined as one who has been formally accepted into a degree or certificate program. The President or his/her designee reserves the right to waive the fee in circumstances where the collection of the deposit is not feasible (e.g., late admits, financial hardship, obstacle to disbursing financial aid).

The deposit will be applied to the tuition for the semester immediately following the student's matriculation and will not be refunded even if the student withdraws during the

designated full refund period or if the student fails to attend. The tuition deposit is not transferable to another semester unless an exception is made by the President or his/her designee.

Some programs at NCC require the use of equipment and supplies which must be purchased by the student. These materials are necessary for career entry upon graduation and are important for the student to receive a high quality, hands on college education.

For information regarding estimated costs and requirements, please refer to the desired degree program within this publication.

Nursing Clinical Fee

All nursing students taking clinical courses will be charged a nursing clinical surcharge of \$500 per semester. This surcharge is designed to assist in covering the increased expenses associated with clinical classes. This fee is in addition to the academic instruction fee and comprehensive fee.

Tuition

Tuition is due two weeks prior to the start of the semester and can be paid in the Business Office, by mail, or online by accessing QuickPay through the Student Information System (SIS) at www.nashuacc.edu.

When tuition is not fully covered by financial aid and/or a payment plan, it is the student's responsibility to pay the difference two weeks prior to the start of classes. A \$50 late fee will be charged to students who do not comply.

Students who have not accepted their financial aid award (signed and returned the award letter to financial aid), established a payment plan, or paid in full two weeks prior to the start of classes could be in jeopardy of being deregistered from classes.

Students will not receive bills in the mail; all billing statements will be viewable in the Student Information System (SIS). Students will receive an e-mail notification (sent to their @students.ccsnh.edu e-mail address) advising them that their current billing statement is available for viewing on the SIS. The statements can be printed or downloaded to PDF format. After viewing their statements online; students may choose to pay online, via phone 603.578.8902 or by visiting the Business Office. If the student would like someone else to receive or pay the bill, the student must designate this person as an "Authorized Payer".

Monthly Payment Plan

To assist students with tuition charges, the College offers an interest-free monthly payment plan administered by Nelnet Business Solutions. The plan allows students to fulfill their financial obligation to the College by automatic electronic processing of installment payments. There is a per semester enrollment fee for this program. More information can be obtained from the Business Office or on our website by accessing the "Pay for College" tab.

Delinquent Account Collection Process

The following collection clause will be listed on all forms requiring the student's signature:

"I agree that by registering for courses within the Community College System of New Hampshire (CCSNH), I am financially obligated for ALL costs related to the registered course(s). Upon a drop or withdrawal, I agree that I will be responsible for all charges as noted in the student catalog and handbook. I further understand that if I do not make payment in full, my account may be reported to the credit bureau and/or turned over to an outside collection agency. I also agree to pay for the fees of any collection agency, which may be based on a percentage of the debt up to a maximum of 35%, and all additional costs and expenses, including any protested check fees, court filing costs and reasonable attorney's fees, which will add significant costs to my account balance."

Refund Policy

Students who officially withdraw from the College or an individual course by the end of

the fourteenth (14th) calendar day of the semester will receive a 100% refund of tuition, less non-refundable fees. Classes that meet in a shorter format than the traditional semester will have 7 calendar days from the designated start of the alternative semester to withdraw for a full refund. If the seventh (7th) or fourteenth (14th) calendar day falls on a weekend or holiday, the drop refund date will be the first business day following the holiday or weekend. Exception: Students in courses that meet for two weeks or fewer must drop by the end of the first day of the class in order to get a 100% refund.

All Federal Title IV funds (i.e. Pell, SEOG, Perkins Loans, Stafford Loans) are returned to the federal programs according to the rules and regulations mandated by the Department of Education. For more information on Return of Title IV Funds for Financial Aid Recipients, go to <http://www.nashuacc.edu/student-services/financial-aid>.

Students registered for non-credit workshops must withdraw in writing at least three days prior to the first workshop session to receive a full refund of tuition and fees. In extenuating circumstances, the President (or designee) is authorized to offer alternative compensation in the form of tuition credits to students on a case-by-case basis. Tuition credit on a student account must be used within one calendar year from the date of authorization. All refunds require that students complete an official withdrawal form.

In accordance with Federal regulations, refunds for an amount less than \$1 (\$0.99 or less) will be forfeited.

Employee Reimbursement

Where the employer, the Veterans Administration, or other agency is guaranteeing both tuition and fees, such guarantee must be in writing and signed by an authorized representative of the company or agency.

Financial Aid

Please review your rights and responsibilities as a financial aid recipient in the CCSNH Student Financial Aid Handbook at (<http://www.ccsnh.edu/sites/default/files/CCSNH%202017-2018%20Student%20Financial%20Aid%20Handbook.pdf>).

What Is Financial Aid?

Financial aid consists of grants, scholarships, loans, and work study and can be from the federal government, the state government, the college, or a nonprofit or private organization. Financial aid assists students and their families in paying for college expenses. Such expenses may be direct, such as those directly charged to your college student account (ie: tuition and fees), and indirect, which include but are not limited to books, supplies, and transportation to/from college. A student's financial aid award may include a combination of various types of aid.

Who Is Eligible for Financial Aid?

To receive federal student aid, a student must meet basic eligibility criteria described at <https://studentaid.ed.gov/eligibility#basic-criteria> and summarized below:

- Qualify to obtain a college education, either by having a high school diploma or General Educational Development (GED) certificate, or by completing a high school education in a homeschool setting approved under state law (or—if state law does not require a homeschooled student to obtain a completion credential—completing a high school education in a homeschool setting that qualifies as an exemption from compulsory attendance requirements under state law); or enrolling in an eligible career pathway program and meeting one of the "ability-to-benefit" alternatives described at <https://studentaid.ed.gov/eligibility#basic-criteria>; and
- Be a U.S. Citizen or U.S. National (for requirements to be a U.S. Citizen or U.S. National please see <https://www.uscis.gov/us-citizenship>) and
- Be enrolled or accepted for enrollment as a regular student in an eligible degree or certificate program; and
- Be registered with Selective Service, if you are a male (you must register between the ages of 18 and 25); and
- Have a valid Social Security number unless you are from the Republic of the Marshall Islands, Federated States of Micronesia, or the Republic of Palau; and
- Sign certifying statements on the Free Application for Federal Student Aid (FAFSA) stating that you are not in default on a federal student loan and do not owe a refund on a federal grant and you will use federal student aid only for educational purposes; and
- Not be in default on a federal student loan and not owe a refund on a federal grant; and
- Maintain satisfactory academic progress in college; and
- Not have aid eligibility suspended or terminated due to a drug-related conviction that occurred while receiving Title IV assistance; and
- Not be receiving federal or state financial aid from another institution for the same enrollment period.

In addition:

- Students must be attending a minimum of six (6) eligible credits for federal loans (Audited courses, Transfer Credits, Credit by Exam, Experiential Learning Credits, and some repeat courses do not count towards eligibility);
- Students must not be receiving federal or state financial aid from another institution for the same enrollment period;
- Students with prior baccalaureates are not eligible to receive Pell or SEOG grants.
- Federal loans must be prorated for certificate programs consisting of 16 to 23 credits.
- Financial aid must be prorated for programs that are less than 30 weeks in any academic year.
- A Consortium Agreement is required when a student is enrolled at more than one CCSNH College and wishes to use financial aid at both colleges.
- Pell eligible students must be registered for any course(s) that does not span the entire length of the semester prior to the primary census date within that semester.

How and When to Apply for Federal Student Aid

Students must complete the FAFSA (Free Application for Federal Student Aid) at www.fafsa.ed.gov to apply for federal student aid. The FAFSA is available October 1st of each year and must be completed annually for each year the student will be attending college. Students attending Summer 2018, Fall 2018, and Spring 2019 should complete the 2018-2019 FAFSA. Students must also complete the appropriate financial aid forms, as requested by the NCC Financial Aid Office. Some aid is limited and is awarded on a first-come, first-served basis; those students who apply early will receive priority.

To help you in the application process please see the Financial Aid Application Checklist below:

- Complete the 2018-2019 FAFSA at www.FAFSA.ed.gov and submit all verification documentation to NCC Financial Aid Office by the NCC Priority Deadline (see the NCC Priority Deadlines below) (NCC school code: 009236).
- You can still apply for financial aid after the NCC Priority Deadline but NCC cannot guarantee that your financial aid will be available by payment deadline.
- Review the Student Aid Report (SAR) sent to you by the Department of Education to determine if additional steps are required and to confirm your FAFSA is complete and successfully submitted.
- Make sure you have completed the NCC Admissions process and are accepted into a financial aid eligible program. (NCC Admissions Office: nashua@ccsnh.edu or 578.8908). NCC will receive your FAFSA 7 to 10 days after it has been processed and will contact you by regular mail.
- Respond to all correspondence from NCC Financial Aid Office and provide all information requested. (Financial aid forms are available on the NCC website under 'Download Forms.')
- Receive a Financial Aid Award Letter listing the aid you are eligible to receive.

If you accept Direct Loans, then you must:

- Be registered for six (6) eligible credits minimum and Complete Loan Entrance Counseling and Master Promissory Note at www.studentloans.gov

Complete and return the signed Award Letter to NCC Financial Aid Office indicating the aid you will accept or accept your aid online through the Student Information System (SIS). Accepting your aid and completing the loan requirements gives you a payment deferment of the accepted amounts.

We strongly suggest you register for classes before accepting aid so you will be able to accurately determine how much aid you need. Class registration can be completed with your advisor.

NCC Financial Aid Priority Deadlines

| | |
|--------------|-------------------|
| Summer 2018: | April 17, 2018 |
| Fall 2018: | July 16, 2018 |
| Spring 2019: | December 11, 2018 |

Tuition payment deadline is two (2) weeks before the start of each semester. If the financial aid process is not complete at that time (complete means aid has been accepted either through a signed award letter having been returned to the NCC Financial Aid Office or aid accepted through the SIS and, if accepting loans, the loan requirements have been completed) you will need to make payment arrangements with the Business Office for any classes for which you are registered. Please be aware that the financial aid process can take up to 4 to 6 weeks and an incomplete financial aid process can prevent some/all disbursement.

How and When to Apply for State, College, and Nonprofit or Private Student Aid

Please see your state's student aid web page to for information on state aid. Please note that NH does not offer a state grant. For information on college, and nonprofit or private student aid, please see the NCC Financial Aid page at <http://www.nashuacc.edu/student-services/financial-aid>.

Determining Your Eligibility

The following equation is used in determining your financial aid eligibility (an explanation of terms follows):

$$\text{Cost of Attendance (COA)} - \text{Expected Family Contribution (EFC)} = \text{Financial Need}$$

The Cost of Attendance (COA) is an estimate of the cost for you to attend NCC, including tuition and fees, room and board, books and supplies, personal/miscellaneous expenses, and transportation. The following is a sample COA constructed for a 9 month academic year with full time attendance (24 credit hours for the year) for a student living off campus. Although this is a sample COA, and as such will not be the final COA used to award student aid, students can use these figures as a guide for planning the academic year. For more information regarding COA, contact the Financial Aid Office

| | |
|---------------------------------|-----------|
| Tuition (24 credit hours) | \$ 4,800 |
| Room and Board | \$ 13,329 |
| Fees | \$ 624 |
| Books and Supplies | \$ 1,400 |
| Transportation | \$ 2,467 |
| Personal Expenses | \$ 1,800 |
| Total Sample Cost of Attendance | \$ 24,420 |

Note: A student's COA must be reviewed each semester. Generally speaking, the student's enrollment level during the Fall Semester dictates the student's COA for the year. Student enrollment level is defined according to the number of credits for which the student is enrolled:

- Full-time: 12 or more credits in a semester
- $\frac{3}{4}$ time: 9 - 11 credits in a semester
- $\frac{1}{2}$ time: 6 - 8 credits in a semester
- Less than $\frac{1}{2}$ time: Less than 6 credits in a semester*

*However, if a student is enrolled for less than half time in a semester, the COA must be adjusted for that semester to exclude Personal Expenses and Room and Board.

Your Expected Family Contribution (EFC) reflects your (and, if you are categorized as a dependent student, your family's) ability to contribute to the Cost of Attendance. The calculations used to determine the EFC are based on the United States Department of Education's mandated formula known as the federal methodology. The Department of Education applies the formula to the information you have provided on the FAFSA application and computes a figure for your Expected Family Contribution.

Your Financial Need and the availability of funds determines your financial aid award.

Awarding of Aid

Verification

All students are subject to Verification. Students whose applications for federal student aid (FAFSA) have been selected for verification will be required to submit documentation necessary to complete the verification process. Students will be notified by the college financial aid office as to what documentation is required. The documentation may include some or all of the following:

- 2018-2019 Verification Worksheet
- 2016 IRS Tax Return Transcripts of the applicant
- 2016 IRS Tax Return Transcripts of the applicant's parents (if the student is considered dependent for financial aid purposes)
- 2016 IRS Statement of Nonfiling
- 2016 W2 forms
- 2018-2019 Verification of Untaxed Income
- 2018-2019 Verification of Identity/Statement of Educational Purpose
- Proof of High School completion or its equivalent

Applicants should be aware that, until all required documentation has been received and reviewed by the Financial Aid Office, no federal student aid will be awarded and/or disbursed. The documentation must be submitted within fourteen days of request or by the end of the academic year, whichever comes first. If documentation verifies the information submitted on the original application, financial aid will be awarded and disbursed as soon as admission, registration and class attendance can be confirmed. If the documentation indicates the need for corrections, the corrections will be submitted electronically to the Department of Education by the Financial Aid Office. The student will receive a revised Student Aid Report from the Department of Education.

Pell Grant

All students are first considered for the Federal Pell Grant. The Federal Pell Grant Program provides need-based grants to low-income students. Federal Pell Grants usually are awarded only to undergraduate students who have not earned a bachelor's or a professional degree to aid them with the actual costs of attending college. A Federal Pell Grant, unlike a loan, does not have to be repaid. Amounts can change yearly. The amounts for 2018-2019 range from \$305 to \$6,095. The amount a student receives depends on the student's expected family contribution (EFC); the student's enrollment level; and whether the student attends for a full academic year or less. In certain situations, an eligible student can receive up to a 150% of his/her scheduled Pell Grant award for an award year. NCC credits the Federal Pell Grant funds to the student's school account at least once per eligible semester. Students may not receive Federal Pell Grant funds from more than one school at a time. Students can receive the Federal Pell Grant for no more than 12 full-time semesters or the equivalent. Students will receive a notice if they are getting close to their limit.

Pell Grant and Iraq and Afghanistan Service Grant

You may be eligible to receive the Iraq and Afghanistan Service Grant if you are not eligible for a Federal Pell Grant on the basis of your expected family contribution but meet the remaining Federal Pell Grant eligibility requirements, and your parent or guardian was a member of the U.S. armed forces and died as a result of military service performed in Iraq or Afghanistan after the events of 9/11, and you were under 24 years old or enrolled in college at least part-time at the time of your parent's or guardian's death. The grant award is equal to the amount of a maximum Federal Pell Grant for the award year but cannot exceed your cost of attendance for that award year. As required by the Budget Control Act of 2011 (the sequester law), award amounts for any Iraq and Afghanistan Service Grant that is first disbursed on or after Oct. 1, 2017, and before Oct. 1, 2018, must be reduced by 6.6 percent from the award amount for which a recipient would otherwise have been entitled. The payment procedures are the same as those for the Federal Pell Grant.

Federal Supplemental Educational Opportunity Grant (FSEOG)

FSEOG is a grant for undergraduate students with exceptional financial need and does not need to be repaid. The NCC Financial Aid Office will award students that have the most financial need. Each participating school receives a set amount of FSEOG funds each year from the U.S. Department of Education. Once the full amount of FSEOG funds have been awarded to students, no more FSEOG awards can be made for that year. The amounts for 2018-2019 at NCC range from \$200 to \$600. NCC gives priority to students with a zero expected family contribution (EFC) and students must be attending at least six credits. NCC credits the Federal Supplemental Educational Opportunity Grant funds to the student's school account at least once per eligible semester.

Federal Work Study Program

Federal Work-Study provides part-time jobs for undergraduate full-time or part-time students with financial need, allowing them to earn money to help pay education expenses. The Federal Work-Study program award funds on a first come, first served basis. The hourly wages for 2018-2019 at NCC range from \$10.00 to \$11.00 per hour. On campus jobs are available throughout the campus. Off-campus jobs are available throughout the local Nashua area in non-profit agencies. Students must provide their own transportation. Additional information is available through the Financial Aid Office.

Vermont and Rhode Island State Grant

The Vermont (www.vsac.org) and Rhode Island (www.riheaa.org) State Grants provides grants for their residents attending a college in his/her state or another state. Please see the respective state's website for more specific information on the state grant program.

State, College, and Nonprofit or Private Student Aid

Please check NCC's financial aid webpage (<http://www.nashuacc.edu/student-services/financial-aid>) for information about State, College, and Nonprofit or Private Student Aid.

Direct Loan Program

The U.S. Department of Education offers eligible students at participating schools Direct Subsidized Loans and Direct Unsubsidized Loans. Students must be enrolled in a minimum of six (6) eligible credits to be eligible for these programs. The amount a student may borrow may not exceed the cost of attendance minus other assistance (or, for subsidized loans, other assistance plus the expected family contribution or EFC). All students borrowing must complete a Master Promissory Note at <https://studentloans.gov>. First time borrowers at the College must also complete Loan Entrance Counseling at <https://studentloans.gov>. Fiscal Year origination fees and interest rates are listed below. Fiscal Year 19 origination fees and 2018-2019 interest rates were not available at time of this publication.

Fiscal Year 18 Origination Fees for Federal Direct Loans first disbursed on or after 10/1/17 and before 10/1/18

| | |
|----------------------------------|--------|
| Direct Subsidized Student Loan | 1.066% |
| Direct Unsubsidized Student Loan | 1.066% |
| Direct Parent Plus Loan | 4.264% |

Direct Subsidized Loans are subsidized by the federal government for students who demonstrate financial need. Subsidized means the student is not responsible for payment of interest during periods of at least half time enrollment (six (6) credits or more)*. Repayment begins six (6) months after graduation, withdrawal, or when enrollment drops below six (6) credits. If you are a first-time borrower on or after July 1, 2013, there is a limit on the maximum period of time (measured in academic years) that you can receive Direct Subsidized Loans. This time limit does not apply to Direct Unsubsidized Loans or Direct PLUS Loans. If this limit applies to you, you may not receive Direct Subsidized Loans for more than 150 percent of the published length of your program. This is called your "maximum eligibility period." Your maximum eligibility period is based on the published length of your current program. You can usually find the published length of any program of study in the school's catalog. For example, if you are enrolled in a two-year associate degree program, the maximum period for which you can receive Direct Subsidized Loans is three years (150 percent of 2 years = 3 years). For more detailed information please see www.StudentAid.gov/types/loans/subsidized-unsubsidized.

*Note: If you receive a Direct Subsidized Loan that is first disbursed between July 1, 2012, and July 1, 2014, you will be responsible for paying any interest that accrues during your grace period. If you choose not to pay the interest that accrues during your grace period, the interest will be added to your principal balance.

Direct Unsubsidized Loans are not subsidized by the federal government and are not based on financial need. Unsubsidized means the student is responsible for payment of interest during periods of enrollment although actual payment can be deferred. Repayment begins six (6) months after graduation, withdrawal, or when enrollment drops below six (6) credits.

Direct Subsidized and Unsubsidized Annual Loan Limits

Dependent Students (except students whose parents cannot borrow a PLUS loan) who qualify may borrow the following per academic year:

- Freshmen (0-31 credits earned*) up to \$5,500 of which only \$3,500 can be subsidized; Sophomore (32+ credits earned*) up to \$6,500 of which only \$4,500 can be subsidized.

Independent Students and Dependent Students whose parents cannot borrow PLUS who qualify may borrow the following per academic year:

- Freshmen (0-31 credits earned) up to \$9,500 of which only \$3,500 can be subsidized; Sophomore (32+ credits earned) up to \$10,500 of which only \$4,500 can be subsidized.

*Grade Level. A student's grade level is determined by the number of credits successfully completed, accepted and recorded by the Registrar's office.

Direct Subsidized and Unsubsidized Aggregate Loan Limits

There are aggregate loan limits. Students who qualify may borrow the following to complete an undergraduate degree:

- Dependent Students up to \$31,000 of which only \$23,000 can be subsidized
- Independent Students up to \$57,500 of which only \$23,000 can be subsidized
- If the total loan amount you receive over the course of your education reaches the aggregate loan limit, you are not eligible to receive additional loans. However, if you repay some of your loans to bring your outstanding loan debt below the aggregate loan limit, you could then borrow again, up to the amount of your remaining eligibility under the aggregate loan limit. For information on the aggregate loan limits for graduate or professional students, visit [https:// studentaid.ed.gov](https://studentaid.ed.gov).

There are other resources students can use to help pay education expenses not covered by other financial aid. The borrower must not have an adverse credit history. The maximum loan amount is the student's cost of attendance (determined by the school) minus any other financial aid received. The student must complete the FAFSA (Free Application for Federal Student Aid) at www.fafsa.ed.gov and the parent must apply for the Direct PLUS loan at <https://studentloans.gov>. If a parent borrower is unable to secure a PLUS loan, the student may be eligible for additional unsubsidized loans to help pay for his or her education expenses. Additional information is available through the Financial Aid Office or at <https://studentaid.ed.gov>.

Alternative/Private Loans are offered by various lenders to assist students and parents in meeting educational expenses. Such funds may assist families that do not qualify for or need to supplement other forms of financial aid. Some information is available on ELMSelect which can be accessed from the NCC financial aid page of the NCC website.

Lender Code of Conduct. Information is available on the Code of Conduct for the Federal Direct Loan and Private Loan Programs <http://www.ccsnh.edu/sites/default/files/content/documents/finaiddocuments/codeofconduct.pdf>

Special Circumstances

The financial aid staff calculates each financial aid award based on financial need as demonstrated by the FAFSA. The calculation is based on a student's and family's prior prior calendar-year income. Students and families who have experienced significant changes in family structure, size or income should contact the Financial Aid Office to discuss the situation. If a special review is appropriate, the student will be asked to complete a Special Circumstances application, and will be advised what additional documentation is required.

Consortium Agreements

Colleges within the Community College System of NH (CCSNH) have worked out a Consortium Agreement procedure, whereby students receiving financial aid at their home college may use that aid to take courses at another host college within the CCSNH. A student who wishes to receive financial aid to take a course at a CCSNH college other than the home college is required to complete a Consortium Agreement with the home college Financial Aid Office. Courses taken at a host College must be approved for transfer to the student's home college academic program. Students participating in the Consortium Agreement program give permission for the host college transcript to be presented to the home college Registrar. Courses covered by the Consortium Agreement will be taken into account in determining Satisfactory Academic Progress for Financial Aid at the home college. Please contact the Financial Aid Office for more information.

Availability of Financial Aid Funds for Books and Supplies

The Book Advance Program allows financial aid recipients who have financial aid funds remaining after the payment of tuition and fees to use the excess to purchase/rent books and supplies from the NCC Bookstore during the book advance period. The book advance period generally starts two (2) weeks prior to the beginning of the semester. Not all financial aid funds may be available for the Book Advance Program and not all financial aid recipients are eligible. Students must complete the NCC Title IV Authorization Form to participate in the Book Advance Program or accept the option through the SIS. The form is mailed to you with your award letter and is also available in the financial aid office.

The Book Advance Program has an electronic and a paper process. The electronic process is not available to all students. As long as you meet the eligibility requirements, your financial aid process is completed and you have authorized the use of your excess financial aid for bookstore charges via the NCC Title IV Authorization form or paper Book Advance form, a book advance will be set up for you.

Students must complete the NCC Title IV Authorization form or select the option through SIS to participate in the electronic process annually.

Students not eligible to participate in the electronic process must complete a paper Book Advance form in addition to the NCC Title IV Authorization form. Students in late start courses may be required to complete a paper Book Advance form. Students with financial aid holds and summer students will be required to complete a paper Book Advance form. The funds will be available in the NCC Bookstore two business days after a paper Book Advance form has been completed. The paper Book Advance form is available in the financial aid office, must be completed each request, and cannot be faxed or emailed.

You must show your NCC ID and a copy of your schedule at the bookstore when making your purchase.

Scholarship Programs

NCC Scholarship Page

Please review the NCC Scholarship page at <http://www.nashuacc.edu/pay-for-college/scholarships-grants> for the most current scholarship information.

Brandon Masterson Automotive Technology Tool Scholarship

The Brandon Masterson Automotive Technology Tool Scholarship is in memory of NCC Automotive Technology Student, Brandon Masterson, who passed away in 2013 just months before his graduation. During his life, Brandon was a student and person to be emulated. The scholarship is an award up to \$700.00 for the cost of tools for students enrolled in senior level automotive courses and it is awarded to two students in the Fall. Further information and the application are on the NCC Scholarship web page.

Carl D. Perkins Single Parent/Displaced Homemaker Financial Assistance Program

The Single Parent and Displaced Homemaker Program is a program run by Nashua Community College to assist financially disadvantaged single parents, displaced homemakers, and single pregnant women with the cost of attending our college in preparation for high skill, high wage, or high demand occupations in current or emerging professions. The Carl D. Perkins Career and Technical Education Improvement Act of 2006 provides grant funding for this program. Awards will vary based on availability of funds. Further information and the application are on the NCC Scholarship web page.

Early Childhood Education Tuition Assistance

The Community College System of New Hampshire, in partnership with the Division for Children, Youth, and Families (DHHS), is able to provide tuition assistance to eligible individuals. Persons who are eligible must be:

- Currently employed, at least part-time, in a NH-licensed (or license-exempt) early childhood program, or a licensed family child care program,
- and must be taking early childhood courses through CCSNH.
- NH residents are eligible for full awards, while out of state students are only eligible for partial awards.

These funds are not intended for employees of private or public school systems. For information on this scholarship select the link below:

<http://www.ccsnh.edu/ccnh-foundation/early-childhood-education-tuition-assistance>

Henderson Business Scholarship

The Henderson Scholarship Fund was established to benefit NH students. Applicants should be in their second year of Nashua Community College and matriculated in a Business related major. Applicants must be full-time and must have a cumulative GPA of 2.0 or higher, as evidenced by current transcripts which the student should submit with their application. Further information and the application are on the NCC Scholarship web page.

New Hampshire High School Valedictorian Scholarship

A one year tuition only scholarship, up to a maximum of 32 credits, will be awarded to designated New Hampshire high school valedictorians, based on a cumulative grade point average, from a New Hampshire NEASC accredited institution. The one year will be defined as the Fall, Spring and Summer semesters, with a start date of any of the three and applied only within the one year from the time of first semester of matriculation. The recipient must enroll as a matriculated student within 15 months from the time of secondary school graduation. Further information and the application are on the NCC Scholarship web page.

New Hampshire Scholars

The NH Scholars award at Nashua Community College is a \$500 tuition waiver available to High School Students who have graduated from a participating NH Scholar High School (see nhscholars.org for a list of high schools) and who have completed the Core Course of Study upon graduation. NCC may grant up to twelve (12) \$500 NH Scholar awards. Further information and the application are on the NCC Scholarship web page.

Rapid Manufacturing Group Scholarship

This scholarship is intended to assist students in achieving competency in the metalworking industry. Five \$2,000 scholarships will be awarded to full-time sophomore students. The scholarship is awarded based on faculty recommendation, CGPA, and essay. Further information and the application are on the NCC Scholarship web page.

Robert Lawton Memorial Scholarship

The Robert Lawton Memorial Scholarship fund is established to assist part or full-time students in a degree granting Human Services program at Nashua Community College. The \$1,000 scholarship will be awarded annually. Further information and the application are on the NCC Scholarship web page.

Swing Into Spring Scholarship

The Swing into Spring Scholarships are made available through the fundraising efforts of the Nashua Community College Advisory Board. The board supports the value of higher education and began the scholarships to assist students in achieving an education at NCC. Three scholarships are awarded at the Swing Into Spring event held each Spring. Further information and the application are on the NCC Scholarship web page.

NCC students can also find Scholarships by linking to the following websites:

Community Colleges of New Hampshire Foundation - For information on Scholarships provided through the Foundation, visit: <http://www.ccsnh.edu/cc-nh-foundation-scholarships>

New Hampshire Charitable Foundation

For information on scholarships provided through the Charitable Foundation, visit: <https://www.nhcf.org/how-can-we-help-you/apply-for-a-scholarship/>

Orphans of Veterans Scholarship

Residents of New Hampshire whose veteran parent died as a result of active service in the armed services of the United States, or whose parent has since died from a service-connected disability may be eligible for this scholarship. For more information, contact the Post Secondary Education Commission at 603.271.3494. Application is available at the NH Postsecondary Education Commission website under Financial Aid: <https://www.education.nh.gov/highered/financial/index.htm>

Return of Title IV Funds

Title IV funds are awarded to a student under the assumption that the student will complete all courses he/she is scheduled to attend during the period Title IV aid is awarded. A financial aid recipient who does not complete all of the days he/she was scheduled to attend during the payment period may be required to return all or a portion of the federal financial received for that semester. A recipient who has had Title IV aid returned may also be required to pay back to the College any balance originally paid by Title IV aid, such as tuition and fees or student refund of Title IV aid.

If a student ceases attendance prior to completing more than 60% of the payment period or period of enrollment, the amount of Title IV grant or loan assistance earned by the student must be determined using a specific formula. This is known as the Return to Title IV Funds calculation. If the amount disbursed to the student is greater than the amount the student earned, the unearned funds must be returned by the College and/or the student to the appropriate program. If the amount disbursed to the student is less than the amount the student earned, and for which the student is otherwise eligible, he or she may be eligible to receive a post-withdrawal disbursement of the earned aid that was not received. The exact amount to be returned by the College and/or repaid by the student will vary depending on the amount of financial aid earned and the date the student ceases attendance.

The repayment percentage is determined by the number of days remaining in the term from the student's last date of attendance (if known) or the midpoint of the term, whichever is later in the semester. The amount of assistance earned is determined on a prorated basis. For example, if the student completed 30% of the payment period or period of enrollment, he/she would earn 30% of the assistance he/she was originally scheduled to receive. If the student completes more than 60% of the payment period (generally the length of the semester) or period of enrollment (if enrolled in Modules – courses that run less than the full semester), all the assistance that he/she was scheduled to receive for that period is earned. CCSNH college Financial Aid Offices will track enrollment in each module (group of courses in a program that do not span the entire length of the payment period within a term, for example, summer sessions or eight week courses) to determine if a student began enrollment in all scheduled courses. If the student provided written confirmation he/she will be attending a course in a module beginning later in the same payment period or period of enrollment (for nonterm and nonstandard term programs, this must be no later than 45 calendar days after the end of the module the student ceased attending) then this is not considered a withdrawal. If the student does not return, then it is considered a withdrawal and the Return of Title IV Funds calculation requirements apply.

The Registrar's Office is the official authority within the college designated to accept withdrawal notifications. If a student communicates to a staff person in the Registrar's office while that person is acting in an official capacity, that communication in whatever form (verbal or written), is considered official notification. Students are urged to submit a signed withdrawal form and/or Add/Drop form to the Registrar's Office to show their intent to withdraw. The official date of withdrawal will be the date the form is submitted to the Registrar's Office or the student verbally notifies the Registrar's Office.

Students are considered unofficially withdrawn from college when they cease attending classes after the add/drop period and fail to provide official notification of their intent to withdraw. Instructors will enter a grade of AF for these students. Their withdrawal date for R2T4 purposes will be the midpoint of the semester unless a different date of notification is provided by an instructor prior to the end of the semester.

When a student fails to earn at least one grade in a credit course per term, the withdrawal calculation must be performed. A grade of F is considered an earned F. A grade of AF is not considered an earned F.

There are some Title IV funds that students are scheduled to receive that cannot be disbursed once a student withdraws because of other eligibility requirements. If the student receives excess Title IV program funds, the College must return a portion of the excess equal to the lesser of:

1. The institutional charges multiplied by the unearned percentage of the student's funds, or
2. The entire amount of excess funds.

The College must return this amount even if a credit balance refund has been issued to the student.

If the College is not required to return all of the excess funds, the student must return the remaining amount. Any loan funds to be returned by the student (or student's parent for a PLUS Loan) are to be repaid in accordance with the terms of the promissory note.

Any amount of unearned grant funds that a student must return is called an overpayment. The maximum amount of a grant overpayment that a student must repay is half of the grant funds he/she received or was scheduled to receive. The student must make arrangements with the school or the Department of Education to return the unearned grant funds.

The requirements for the Title IV program funds when a student withdraws are separate from the College refund policy. Therefore, a student may still owe funds to the College to cover unpaid Institutional charges. The College may also charge a student for any Title IV program funds that the school was required to return.

The school will use the federal policy to determine the amount which must be returned by the school and/or the student to Title IV programs. The procedure is:

1. Determine withdrawal date
2. Determine the period of enrollment
3. Determine Amount of Earned Title IV Aid
4. Determine Amount of Unearned Title IV Aid
5. Determine Title IV Aid to be disbursed
6. Determine Title IV Aid Disbursed
7. Determine Title IV Aid to be Returned
8. Calculate the College's Responsibility
9. Determine Amount College Returns by Program
10. Determine Student's Responsibility
11. Determine Amount Student Returns by Program

Students that fall into the Return of Title IV Funds obligation category will be notified with a letter explaining the results of the school's calculation process.

The College will return funds to the appropriate aid programs as prescribed by law and regulation in the following order:

1. Federal Direct Unsubsidized Stafford Loan
2. Federal Direct Subsidized Stafford Loan
3. Federal Perkins Loan
4. Federal Direct PLUS Loan
5. Federal Pell Grant
6. Federal Supplemental Education Opportunity Grant (SEOG)
7. Other Title IV Aid Programs
8. Other Federal sources of aid
9. State/Private/College aid

The College must return funds as soon as possible but no later than 45 days from the date the College determined the student withdrew.

If a student owes federal financial aid repayments or Return of Title IV Funds, the student will be denied federal aid eligibility at any institution and will not be able to enroll until full payment arrangements are made.

Satisfactory Academic Progress (SAP) requirements apply to all financial aid recipients regardless of the funding status due to a Return of Title IV Funds calculation. Repayment of part of a student's federal financial aid does not release the student from the SAP requirements.

Satisfactory Academic Progress Policy

The Financial Aid Office is required by federal regulations to periodically review financial aid recipients to ensure that they are making academic progress towards the completion of their program of study. Satisfactory Academic Progress for financial aid recipients is measured by both qualitative and quantitative standards and is an assessment of a student's cumulative academic record while in attendance at the institution.

| | |
|---|--|
| Qualitative - Cumulative GPA (CGPA) Component | Must have earned the required CGPA at the published intervals. |
| Quantitative - Pace (Completion Rate) Component | Must complete at least 2/3 (66.666%) of the credits attempted. |
| Quantitative - Maximum Timeframe Component | May receive financial aid for up to 150% of the number of credits required for successful program completion unless it is mathematically impossible for student to complete the program within this limit. |

In general, coursework that is taken while in attendance at the CCSNH institution is considered when reviewing a student's academic record for satisfactory academic progress. However, there are some exceptions. Please see the section on Treatment of Repeated Courses, Audited Courses, Incompletes, Developmental/Remedial Courses, English for Speakers of Other Language Courses (ESOL), Credits by Examination, Nonpunitive grades, Pass/Fail Grades, Withdrawals.

Qualitative Standard - Cumulative GPA (CGPA) Component

A student must maintain a minimum cumulative grade point average as noted below in order to be making satisfactory academic progress. A GPA calculator is available at <http://www.ccsnh.edu/academics/gpa-calculator>.

| | Certificate/Diploma | Associate Degree |
|---------|---------------------|------------------|
| 0 - 13 | 1.50 | 1.50 |
| 14 - 27 | 2.00 | 1.70 |
| 28 - 40 | | 1.80 |
| 41 + | | 2.0 |

Quantitative Standard - Pace (Completion Rate Component) and Maximum

Time Frame Component

The Quantitative Standard of the satisfactory academic policy is comprised of two elements. The first element, maximum time frame, is the time frame by which a student must complete an academic program. The second element, pace, includes determining whether a student is on track to complete the program within the set maximum time frame. Once it has become apparent a student will be unable to complete their academic program within the maximum time frame, either by falling below the pace standard or by having attempted 150% of the credits required to complete their academic program, the student becomes ineligible for Title IV aid.

Pace (Completion Rate Component)

A student must successfully complete at least two-thirds (66.666%) of the total credits he/she attempted throughout his/her academic career at the college. All attempted credits, including transfer credits, will be included in the quantitative calculation.

For example, a student who has enrolled in 36 credits throughout his or her academic career at the college must earn credit for at least 24 credits in order to be meeting the requirements of satisfactory academic progress.

Maximum Time Frame Component

A student may receive student federal student aid for any attempted credits towards his or her program of study until it is mathematically impossible for the student to complete the program within 150% of the published length of the student's program of study.

All attempted credits are included in the evaluation including transfer credits.

Academic Periods Included in the Review

The qualitative and quantitative standards of the Satisfactory Academic Progress policy will be used to review the academic progress for all periods of the student's enrollment. Even periods in which the student did not receive federal student aid will be included in the review. Additionally, periods for which the student was granted academic amnesty will be included in the review.

Timing of the Review

The Financial Aid Office of the CCSNH institution will evaluate a financial aid recipient's satisfactory academic progress upon completion of each semester within the standard academic year of the program the student is enrolled in.

Results of the Review

Meeting Satisfactory Academic Progress (SAP) Standards. Students who meet SAP standards will be coded as making Satisfactory Academic Progress and will retain eligibility for federal student aid for their next semester.

Satisfactory Academic Progress (SAP) Warning

Students who do not meet SAP standards will be placed on SAP warning for one semester. Students placed on SAP warning will retain their eligibility for federal student aid for their warning semester.

At the end of the warning period, SAP standards will be reviewed. If the student meets SAP standards, he/she will once again be coded as making satisfactory academic progress and will retain eligibility for federal student aid for their next semester. If the student is still unable to meet SAP standards, he/she will no longer be eligible to receive federal student aid at the institution until such time that he/she is able to meet SAP standards or has been granted Probation.

Satisfactory Academic Progress (SAP) Suspension

If the student is still unable to meet SAP standards after his/her Warning Period, he/she will no longer be eligible to receive federal student aid at the institution until such time that he/she is able to meet SAP standards or has been granted Probation.

Satisfactory Academic Progress (SAP) Probation

A student who becomes ineligible for federal student aid as a result of not meeting satisfactory academic progress standards may appeal for a review of that determination. If the appeal is granted, a student will be assigned a SAP status of Probation, typically for a period of one semester. However, this period can be extended by placing the student on an academic plan if he/she will require more than one semester to reestablish financial aid eligibility with SAP standards. During Probation, the student will be eligible to receive federal student aid funding.

Appeal Process

A student who becomes ineligible for federal student aid as a result of not meeting Satisfactory Academic Progress standards may appeal for a review of that determination. A student must appeal in writing.

The student appeal request and any supporting documentation or degree audit must be submitted to the Financial Aid Office. A successful appeal results in Probation and allows the student to be eligible for federal student aid for his/her probationary period.

A student choosing to submit an appeal of his/her SAP review results must submit the following information to the Financial Aid Office:

1. A written explanation of the circumstances that prevented him/her from achieving SAP standards and documentation of any extenuating circumstances. The Financial Aid Appeals Committee reserves the right to request further information from the student to support information provided in his/her explanation.

2. An academic plan which the student will use to regain satisfactory academic progress.

The decision of the appeals committee is final. A student is notified of his/her appeal's outcome in writing via mail within 10 business days of submission of all required documentation.

Regaining Eligibility

Unless an appeal is granted, a student can regain financial eligibility only by taking action that brings him/her into compliance with both the qualitative and quantitative components of the CCSNH institution's satisfactory academic progress policy. Neither paying for one's own classes nor sitting out a semester affects a student's SAP standing, so neither is sufficient to re-establish financial aid eligibility.

If a financial aid recipient believes he/she is meeting Satisfactory Academic Progress standards then he/she can request to have his/her SAP standing reviewed upon completion of the semester. If the student is found to be meeting both the qualitative and quantitative components of the SAP policy and to not have exceeded maximum time frame, then his/her status will be updated to reflect he/she is meeting Satisfactory Academic Progress standards, and the student will be eligible to receive Title IV financial aid the next semester.

| Question | Answer |
|--|--|
| When is my academic progress reviewed? | At the end of each semester |
| What academic periods are included? | All periods, even those in which the student did not receive financial aid, was in a different major, and those for which the student was granted academic amnesty |
| What are the results of the review? | Satisfactory Academic Standing, Warning, or Suspension |
| What does Warning mean for me? | Students who do not meet SAP standards will be placed on SAP warning for one semester. Students placed on SAP warning will retain their eligibility for federal student aid for their warning semester. |
| What happens at the end of the Warning Period? | At the end of the warning period, SAP standards will be reviewed. If the student meets SAP standards, he/she will once again be coded as making satisfactory academic progress and will retain his/her federal student aid eligibility for his/her next semester. If the student is still unable to meet SAP standards, he/she will no longer be eligible to receive federal student aid at the institution until such time that he/she is able to meet SAP standards or has been granted Probation. |
| What does suspension mean for me? | The student will no longer be eligible to receive federal student aid at the institution until such time that he/she is able to meet SAP standards or has been granted Probation. |
| Is there an appeal process if my aid is suspended? | Yes, please see the section on the Appeal process. |
| Can you regain Financial Aid eligibility once it has been suspended? | Yes, please see the section on Regaining Eligibility. |
| What does Probation mean? | A student who becomes ineligible for federal student aid may appeal for a review of that determination. If the appeal is granted, a student will be assigned a SAP status of Probation, typically for a period of one semester. During Probation, the student will be eligible to receive federal student aid funding. |

Treatment of Repeated Courses, Audited Courses, Incompletes, Developmental/ Remedial Courses, English as a Second Language Courses (ESOL), Credits by Examination, Nonpunitive grades, Pass/Fail Grades, Withdrawals

Please refer to the specific section for each course/credit below. The following table is a breakdown of how each type of course or credit is treated in the review.

| | | | |
|------------------------------|---|---|---|
| Repeat Courses | Y | Y | Y |
| Transfer Credits | N | Y | Y |
| Consortium Credits | N | Y | Y |
| Developmental/ Remedial/ESOL | Y | Y | Y |
| Incompletes | Y | Y | Y |
| Audit Courses | N | N | N |
| Nonpunitive Grades | N | Y | Y |
| Pass/Fail Grades | N | Y | Y |
| Withdrawals | N | Y | Y |

Repeat Course

For one time only, financial aid will cover a repeated course that has been previously passed. For this purpose, passed means any grade higher than an "F," regardless of any school or program requiring a higher qualitative grade or measure to have been considered to have passed the course. A student may be repeatedly paid for failing/ withdrawing from a course. However, if a student passed a course once, then is repaid for taking it, and fails or withdraws the second time, that failure counts as their paid retake, and the student may not be paid for retaking the course a third time. If a program of study requires students to retake all of the coursework for a term in which a student fails a course, any courses retaken that were previously passed in this case are not eligible for Title IV aid.

Transfer Credits

Credits that are transferred in from another institution and apply to the most current major will be excluded from the student's cumulative GPA. However, they will be included in the calculation for the maximum time frame and completion rate components.

Consortium Credits

All courses taken at an institution other than the home institution through an official consortium are included in the calculation for completion rate and maximum timeframe components, but are excluded from the student's cumulative GPA component.

Developmental/Remedial/ESOL Credits

Credits from these courses will be included in the calculations for all three components of the satisfactory academic progress review. A student is eligible for up to 24 credit hours of federal student aid in this category.

Incompletes

All incompletes must be resolved by the end of the third week of the semester following the receipt of the incomplete grade. If not, the grade is either automatically changed to an "F" or is considered to be an "F" for all components of the satisfactory academic progress review. Financial Aid can be withheld until Incompletes are resolved.

Audit Courses

Financial Aid does not cover any courses a student audits. Furthermore, audit courses are not included for any of the calculated components.

Credit By Examination

Financial Aid does not pay for credit by examination. Credit by Examination is included in the maximum time frame and completion rate components of Satisfactory Academic Progress but is not included in the cumulative GPA component.

Non-punitive Grades

Non-punitive grades will not impact the cumulative GPA component of a student's SAP status. However, they will be included in the calculation of the maximum time frame and the completion rate components.

Pass/Non-Pass Grades

Pass/Non-Pass grades will not impact the cumulative GPA component of a student's SAP status. However, they will be included in the calculation of the maximum time frame and the completion rate components.

Withdrawals

Withdrawals will not impact the cumulative GPA component of a student's SAP status. However, they will be included in the calculation of the maximum time frame and the completion rate components. For further information about the Financial Aid Satisfactory Academic Progress policy, please contact the Financial Aid Office.

Is Financial Aid Taxable?

Scholarships and grants (but not loans) which exceed the cost of tuition, fees, required books and equipment are considered taxable income under the Tax Reform Act of 1986. It is the responsibility of the student to properly report this income to the Internal Revenue Service. <http://www.irs.gov/publications/p970/index.html>

Many taxpayers are eligible to claim educational tax credits through the Lifetime Learning Credit or the American Opportunity Tax Credit. In addition to the credits, taxpayers may be eligible to claim a student loan interest deduction and/or a tuition and fees deduction. By the end of each January, 1098-T forms are made available to eligible students typically via standard mail. These forms show eligible charges billed, and grants and/or scholarships processed in the applicable year.

Please note, the College does not provide personal tax advice. We suggest you contact a qualified tax professional for additional information.

Veterans' Assistance

The goal of the VA Student Office is to assist prospective and enrolled veterans, reservists, guardsmen, and their eligible dependents in accessing education benefits available through the Department of Veterans Affairs while meeting their educational objective at NCC.

Please contact the VA Student Office for information on how to apply for VA education benefits.

VA Information:

Website: www.benefits.va.gov/gibill

Phone: 888 GI-BILL1 - (888.442.4551)

Enrollment verification for properly documented veteran students is electronically reported to the Veteran Administration in a two part process. The number of credits each veteran is enrolled in will be reported once the student notifies the VA Student Office that they have registered. Tuition and fees will then be reported after the add/drop period for the college system.

Students must follow the course requirements listed in their curriculum for their stated program as the School Certifying Official can only report courses within that program.

VA funded students are responsible for immediately notifying the College's VA Student Counselor before taking of any action affecting their enrollment status (such as course drops, adds, or non-passing grades). Failure to do so may result in a debt to the VA.

All students must contact the VA Student Counselor before adding or changing a major. Additional information may be required by the VA before the College can certify a second major.

Satisfactory progress toward completion, as specified in the Academic Standards section of this Catalog, must be maintained.

Veterans who utilize Chapter 30 or 1606 must verify their enrollment each month to receive payment for that month. Enrollment can be verified on the last calendar day of the month by using Web Automated Verification of Enrollment (WAVE) at <https://www.gibill.va.gov/wave> or by calling the VA toll free at 888.442.4551.

The Community College System of New Hampshire (CCSNH) has adopted the following policies, which provide for payment of in-state tuition rates for veterans and covered individuals under U.S.C. § 3011 and § 3311 living in New Hampshire. More specifically, CCSNH system finance policies at 421.01.1 provide:

A veteran, as defined under RSA 21:50, I, or a covered individual, as defined under Chapter 30 or 33 of Title 38 of the United States Code using educational assistance benefits provided under federal law, shall be charged in-state tuition while living in New Hampshire and enrolled in any institution of the Community College System of New Hampshire.

A spouse or child using educational assistance benefits provided pursuant to Chapter 30 or 33 of Title 38 of the United States Code shall be charged in-state tuition while living in New Hampshire and enrolled in any institution of the Community College System of New Hampshire.

In-state tuition shall be charged to all covered individuals, including but not limited to the following circumstances: Any veteran that has a three-year period of service and an honorable discharge and any veteran for whom this period of service is followed by a four-year period of service, and there is a dishonorable discharge. All of the discharges enumerated in 38 U.S.C. § 3311(c) and 38 U.S.C. § 3011 will be interpreted to fall under New Hampshire RSA 21:50, I, (a)(2).

In applying the policies, the term "spouse" will be interpreted to include current spouses,

former spouses, and same-sex spouses and the term "child" will be interpreted to include biological, adopted, pre-adoptive, and stepchildren of a spouse, including of a same-sex spouse or former spouse.

Please see the VA Student Counselor if you need assistance or have questions.

Academic Requirements and Policies

Associate Degree

The minimum requirement for the associate degree is 60 credit hours and completion of all specified program requirements. Students must successfully complete a minimum of 20 credit hours in General Education courses such as English, social science, mathematics, humanities, science and a minimum of 30 credit hours in their major program. Finally, students earning the degree must have a cumulative grade point average of at least 2.0.

Every student enrolled in an associate degree program must demonstrate basic arithmetic and algebra skills before enrolling in college-level math and or other courses (e.g., science). To earn an associate degree, students will be required to successfully complete one or more college-level math classes as specified by the particular program to which the student has been accepted. Students lacking basic arithmetic and algebra skills may achieve those competencies through developmental math courses offered at the College.

Additional Associate Degrees

Students must earn a minimum of 15 additional credits at the College for each additional associate degree beyond those required for the first and subsequent degrees excluding Credit by Examination, Credit for Experiential Learning, College Level Examination Program (CLEP), and Transfer Credit.

Certificate

Certificate programs emphasize specific skills and outcomes required for employment or for career advancement. There are no specific general education requirements. Students earning a certificate must have a cumulative grade point average of at least 2.0 and have obtained a passing grade in each required subject.

Attendance Policy

Class attendance is considered essential to academic success of students. Since there are constant learning opportunities between faculty members and students, and between students and other students within the classroom or lab, it is expected that students will attend each meeting of each course in which they are enrolled.

Specific attendance policies for each course are determined by the instructor and will be stated in writing in the course syllabus. These policies reflect the instructor's authority to determine whether a student is permitted to make up missed work from absence or lateness and on what terms.

If a student is absent more than the number of hours the course meets during a two-week period, the faculty may withdraw a student from the course with an "AF" grade any time during the semester. An "AF" grade is calculated in the GPA as an "F". All students who stop attending class after the add/drop period and have not officially withdrawn shall receive an "AF" from the instructor at the end of the semester or at any point during the semester that the instructor informs the Registrar's Office that the student has been suspended from class.

Credit Hour Guidelines

1. A credit hour shall be the equivalent of one (1) hour of classroom or direct faculty instruction and a minimum of two (2) hours of out-of-class student work each week for 15 or 16 weeks.
2. A credit hour shall be allocated based on the following:

| Category | Contact Hours per Week | Contact Hours per Sem. (based on minimum 15 week semester) |
|----------------------|------------------------|--|
| Class | 1 | 15 |
| Laboratory | 2 or 3 | 30-45 |
| Clinical | 3 to 5 | 45-75 |
| Practicum, Fieldwork | 3 | 45 |
| Internship | 3 to 6 | 45-90 |
| Co-op | Variable by Dept. | Variable by Dept. |

Student Conduct and Discipline

A student's continued enrollment at the College is dependent upon his/her behavior. The awarding of academic credits and recognition and the conferring of degrees, certificates, and awards are subject to the academic and judicial authorities of the College. A student's attendance may be terminated, and he/she may, following due process, be dismissed from the College at any time and on any grounds deemed advisable by the Administration.

Student conduct, both on and off campus, of a nature which would reflect discredit on the student and/or on the College, may result in disciplinary action by the College. Persons are subject to the laws of the State regardless of their student status and are subject to College discipline when the College's interests as an academic community are distinctly and clearly involved.

The judicial process will be the responsibility of the Vice President of Student and Community Affairs and the Judicial Committee. The Vice President may take administrative disciplinary action when it is deemed necessary to ensure the safety of students, faculty, or staff and/or the continuation of the educational process. The final judicial authority of the College is vested in the President.

Grading System

Students earn grades which are assigned by individual faculty members on the basis of an objective evaluation of students' academic achievement. To successfully complete a certificate or an associate degree at the College, students must earn a minimum Grade Point Average (GPA) of 2.0 and meet all program requirements. The following grades are used in the computation of the Grade Point Average:

| Grade | Quality Points | Grade | Quality Points |
|-------|----------------|-------|----------------|
| A | 4.00 | C | 2.00 |
| A- | 3.70 | C- | 1.70 |
| B+ | 3.30 | D+ | 1.30 |
| B | 3.00 | D | 1.00 |
| B- | 2.70 | D- | 0.70 |
| C+ | 2.30 | F | 0.00 |

Auxiliary Grades

The following Auxiliary Grades are not used in the computation of the Grade Point Average:

W: Student-initiated withdrawal from a course at any time prior to completion of the drop deadline (60% of the course) does not affect GPA. This can be initiated by the instructor if the student, because of extenuating circumstances, is unable to initiate the process (e.g., catastrophic illness or injury, job transfer to another state).

WP: Student-initiated withdrawal from a course after the drop deadline (60% of the course) if the student has a passing grade at time of drop as determined by the instructor. WP does not affect GPA, and can be initiated by the instructor if the student, because of extenuating circumstances, is unable to initiate the process (e.g., catastrophic illness or injury, job transfer to another state).

AU: A course taken as an audit does not earn credit and cannot be used to meet graduation requirements. Admission by permission of the instructor. Not all courses can be taken for audit.

I: Incomplete grade. This indicates that a student has not completed a major course assignment due to extraordinary circumstances. It is not used to give an extension of time for a student delinquent in meeting course responsibilities. The “I” grade is not calculated into the GPA. However, all work must be completed by the end of the third week of the subsequent semester or the grade defaults to an F. See full “Incomplete Grade Policy” elsewhere in the College catalogue.

P: Pass (not calculated into GPA)

NP: No Pass; unsatisfactory (not calculated into GPA)

CS: Continuing Study. Allows student to re-register for developmental course if competencies have not been met by end of the course. Intended for students who have demonstrated progress and a commitment to succeeding in the course but who need more time to achieve competencies. This does not affect GPA.

The following Auxiliary Grades are used in the computation of the Grade Point Average:

WF: Student initiated withdrawal from a course after the drop deadline (60% of the course); student has a failing grade at time of drop, as determined by the instructor. Calculates in GPA as an “F.”

AF: Instructor or administrator initiated withdrawal at any time for reasons other than poor grade performance—e.g., failure to meet attendance requirements as published in the instructor’s syllabus. The grade may also be issued if a student registered in a clinic, practicum, internship or lab is deemed unsafe or performing in an unsatisfactory manner as determined by an evaluation by a faculty member/agency supervisor in accordance with department criteria and procedure. Calculated in GPA as an “F.”

Failed or Repeated Courses

For purposes of calculating the cumulative GPA (CGPA), when a student repeats a course at the same CCSNH institution, the grade achieved in the most recent course will be the grade used in the CGPA calculation. All previous grades will remain on the transcript but are not used in the calculation. Only those repeated courses completed at the student’s college of matriculation will be used in the calculation of the CGPA; repeated courses completed at an institution outside of the CCSNH and transferred into the student’s college of matriculation will not be used in the calculation of the CGPA.

Third and subsequent attempts to repeat a course will require the approval of the Vice President of Academic Affairs. A failed course may not be passed by Credit by Exam. Financial aid may be impacted by repeating courses.

Eligibility for Extracurricular Activities

To hold office, students must be “in good standing” at the College. A student officer who

is placed on probation may continue to hold that office for the current semester. If such probation continues after the semester, the office must be vacated and an election held to fill the vacancy.

Transcripts

Transcripts of a student's College record will be furnished upon written request.

Transcripts require two business days to be processed. A longer time is required at the end of each term and at graduation.

Transfer of Credit

Students may be admitted to programs with advanced standing if they have taken appropriate college courses at another accredited institution or System College and earned a "C" or higher. Courses successfully completed prior to admission will be considered for transfer.

It is the student's responsibility to furnish the following: (1) transfer request form, (2) official transcript, and (3) copy of the course description. The Vice President of Academic Affairs (VPAA), Department Chair, Program Coordinator or designee will evaluate each course and grade and determine if the credits should transfer. The student will receive a list of courses accepted for transfer.

Any current students seeking to take a course at another college and wishing to apply that course to their degree must submit a transfer credit authorization form to the VPAA for approval. Without this written approval prior to enrollment in the course, the College does not guarantee acceptance of this course as transfer credit. Grades of courses transferred are not included in the GPA or CGPA. Approved Credits earned at another institution will be added to the total credits accumulated for graduation.

Distance Learning Verification of Identity

NCC offers distance education courses and has processes in place to verify that the student who registers in a distance education course is the same student who participates in and completes the course and receives the academic credit. Verification may be accomplished through:

1. A secure login and pass code;
2. Proctored Examinations;
3. Pedagogical and related practices that are effective in verifying student identity

In carrying out these processes, NCC protects student privacy and will notify students at the time of registration or enrollment of any projected additional student charges associated with the verification of student identity.

New Hampshire Transfer Connections Program

The NH Transfer Connections Program is designed to inform students about transfer opportunities from Nashua Community College to participating four-year colleges and universities. Students participating in this program will benefit from an easy transfer process with no additional application or fee. For more information contact the Academic Advising Center.

College Board Advanced Placement Tests

The College recognizes the College Board Advanced Placement Examination Program as a means of evaluating student eligibility for advanced placement. Matriculated students who have participated in the AP Program and who have been admitted to the College should have official AP grade reports forwarded directly to the College Admissions Office. These grade reports should come from the College Board, Advanced Placement Examinations, CN 6671, Princeton, NJ 08541-6671; telephone 609.771.7300. Upon receipt of students' AP reports, the Admissions Office will access the grade and recommend to the Vice President of Academic Affairs credits to be granted based on the College's policies relating to the AP scores for the various exam subjects. The minimum score to receive credit varies from 3 to 5. No credit is awarded on any AP exam score of less than 3.

Credit by Examination (CBE)

Credit by Examination may be earned by matriculated students who, by study, training, or experience outside the College, have acquired skill or knowledge equivalent to that acquired by students enrolled in a course at the College. Such skill, knowledge, or experience shall be in the area of the course concerned and determined to be relevant by the Vice President of Academic Affairs or other authorized personnel. Students may challenge a course by requesting and completing an examination or evaluation that covers the instructional material of the course. If successful, the appropriate credits earned are applied to the students' programs. Students requesting a CBE shall pay a fee of \$25 per credit. This fee is non-refundable. Credit will not be given for grades below C. Students receiving a grade below C are ineligible for another CBE in that course. Students may not CBE a course in which they are enrolled if they have earned a grade within the CCSNH, or if they have been administratively withdrawn, or if they dropped the course after the two-week drop/add period.

Candidates wishing to review the material for which they shall be held responsible in a CBE may apply to the chairperson of the department concerned for a list of areas of the subject matter covered upon which the exam will be based. The CBE will cover the content of the course being challenged. Students must apply for and take the CBE by the end of the Add/Drop period.

Academic Policy Regarding CLEP Exams

Students may choose to earn credits by taking a nationally standardized exam known as CLEP (College Level Examination Program). Nashua Community College is an approved testing site for CLEP. The college awards credits for courses in the areas of Composition and Literature, Foreign Languages, Social Sciences, Science and Mathematics. A complete list of the CLEP exams accepted for credit by NCC is available on our website as well as in the Admissions Office and the Academic Advising Center. The cost of each exam is published on the College Board website www.collegeboard.com/clep. NCC charges an administrative fee of \$25 per exam. For further information and to schedule an appointment, contact the Academic Advising Center at 603.578.6817. Passing scores for CLEP are 50 and above. Successful completion of a CLEP exam is treated as a transfer credit. Matriculated students will need to request that a copy of their scores be sent to NCC for review. This request is made to the College Board and can be done during or after the exam.

Internships

The following applies to all programs requiring an internship or service learning experience:

The College must ensure that individuals (customers, employees, etc.) at internship and service learning sites are not adversely affected by students during learning experiences. Therefore, students participating in internship and field experiences must demonstrate the emotional stability required to exercise sound judgment, accept direction and guidance from a supervisor or faculty member and establish a rapport and maintain sensitive interpersonal relationships with employees, customers, and clients.

Prior Learning Assessment

Credit for prior learning offers students the opportunity to demonstrate the knowledge they have gained through life experiences and apply this knowledge toward credit in some degree/certificate programs. To prepare for this option, students will develop a portfolio to be assessed by appropriate college personnel. A student must be matriculated at NCC to be eligible to apply for prior learning assessment credit. Not all programs provide this option; students should consult with their respective college advisor and/or program coordinator for more information and the process used for application.

Students may be awarded a maximum of 24 credits for experiential learning. Students will be assessed a fee based on 50% of the current tuition rate on the total credits awarded (e.g. for 12 credits awarded: $0.50 \times \text{current tuition rate} \times 12 \text{ credits}$).

Audit

Students may enroll on an audit basis after consultation with the course instructor and Vice President of Academic Affairs at which time responsibilities are established. Auditing students are subject to regular policies and tuition, but audit courses are non-graded and carry no credit towards graduation.

Running Start Program

The Running Start Program allows high school students in participating high schools to enroll in NCC courses taught at their own high school by their high school teachers approved by the College.

This dual-enrollment program provides students with both high school and college credit for these courses. College credits may be used toward completion of a degree or certificate at this College, or credits may be transferred to other colleges and universities throughout the country. (Please note that the determination of transfer credit is at the discretion of the receiving institution.)

Running Start Program students realize significant advantages: College credit awarded in high school, reduced tuition costs (\$150 per course), reduced time to complete higher education requirements, and increased confidence in high school to college transition.

Scholastic Honors

At the end of each semester, the College publishes an Honors List of students who have attained Vice President's List or President's List, based on grade point averages for that semester. A student must be enrolled for at least 12 credit hours in a semester to be considered for honors.

Academic Standards

Students falling below the following standards will be designated as "not meeting satisfactory progress." Failure to meet satisfactory progress will result in either Academic Probation or Academic Suspension.

Academic Probation Definition: A warning which indicates the student may not be on track to graduate because of poor academic performance. The student may remain in the program, but his/her academic progress will be monitored.

Students meeting the criteria below will be placed on Academic Probation:

| | |
|------------------------------|-----------------|
| 0 - 13 Credits Accumulated: | below 1.50 CGPA |
| 14 - 27 Credits Accumulated: | below 1.70 CGPA |
| 28 - 40 Credits Accumulated: | below 1.80 CGPA |
| 41+ Credits Accumulated: | below 2.00 CGPA |

Academic Suspension Definition: Students placed on Academic Suspension will be removed from their program and may not reapply for admission for a minimum of one semester. Students may continue to take courses as a non-matriculated student and will not be eligible for Financial Aid. Students placed on Academic Suspension will be required to meet with an Academic Advisor to create an academic plan and to meet with the advisor on a regular basis.

Students meeting the criteria below will be placed on Academic Suspension:

| | |
|------------------------------|-----------------|
| 0 - 13 Credits Accumulated: | below 0.50 CGPA |
| 14 - 27 Credits Accumulated: | below 1.10 CGPA |
| 28 - 40 Credits Accumulated: | below 1.25 CGPA |
| 41+ Credits Accumulated: | below 1.50 CGPA |

OR

A student who does not meet satisfactory progress for Academic Probation for two consecutive semesters will be placed on Academic Suspension.

Financial aid may be in jeopardy if a student fails to achieve satisfactory academic progress as defined above.

Academic Probation 1: Students with a GPA of 1.0 or below at the end of their first semester of attendance will be placed on Academic Probation 1 (AP1). Students must earn a CGPA of 1.5 or greater at the end of their second semester of attendance in order to come off Academic Probation. When placed on AP1 status, students must contact the Academic Advising Center to develop a plan of action for academic success.

Withdrawal and Readmission

Students who find it necessary to withdraw from the College should first notify their faculty advisor and then obtain a withdrawal form from the Registrar's Office. The student will circulate the withdrawal form to the indicated College offices and return it to the Registrar. Failure to officially withdraw or return College property may result in a student's records being noted: "Withdrawn-Not-in-Good-Standing."

An official withdrawal from the College after the last date to drop a course shall be considered effective the first day of the following semester for academic reasons, and the student will be held academically accountable for the entire semester. A final grade will be issued as though the student had completed the entire semester.

Students who have officially withdrawn from the College may apply for readmission.

Graduation Requirements

To graduate, students must complete all courses and attain a cumulative grade point average (CGPA) of at least 2.0. Specific requirements for all degree and certificate programs are available from the Registrar. Credits earned in developmental courses are not counted toward graduation requirements but are calculated in the GPA and CGPA. Matriculated students must earn a minimum number of academic credits at the College as follows:

Degree students must earn 15 credits, of which 8 credits must be in advanced courses in the student's major.

Certificate students must earn 6 credits or 25% of the credits, whichever is higher.

Academic Honors

A full-time, matriculated student in good standing with a grade point average of at least 3.7 is entitled to honors on the President's List. A full-time student earning a grade point average of 3.0 to 3.69 is entitled to honors on the Vice President's List.

Phi Theta Kappa

The purpose of Phi Theta Kappa shall be to recognize and encourage scholarship among two-year college students. To achieve this purpose, Phi Theta Kappa shall provide opportunity for the development of leadership and service, for an intellectual climate for exchange of ideas and ideals, for lively fellowship for scholars, and for stimulation of interest in continuing academic excellence. NCC's Chapter is the Alpha Chi Kappa Chapter. Membership is by invitation only.

Public Disclosure

According to the most recent figures on the National Center for Education Statistics website, the overall graduation rate for full-time, first-time undergraduates was 24%. It is important to note that many students do not attend full-time and take longer than the normal time of 2-3 years. For those students who take longer, the graduation rate is 29%. Also many students do not have the goal of graduating from the College. Students often attend to complete a semester or two before transferring, to explore a potential career area, to resolve academic deficiencies before returning to their original college, or to take courses for self-improvement.

The College is proud to report that the percentage of students, both full-time and part-time, who began classes in Fall 2016 and continued into Spring 2017 was 69%. The percentage of full-time and part-time students who began in Fall 2016 and either graduated or returned in Fall 2017 was 55%.

Developmental Education Policies

Students who test into two or more developmental classes must enroll and participate in continuous developmental education until they fulfill the institutional requirements for developmental education.

Consortium Agreement Policy

Nashua Community College is committed to providing the necessary classes students need to complete their degrees. However, there are occasions when students choose to complete individual courses at other colleges. In these situations, the student is responsible for completing the "Transfer Course Authorization Form" and getting the appropriate signatures. Once that document is completed, a student, if she/he would like financial aid to include the requested consortium course in the overall aid calculation, must submit an additional form: The Consortium Agreement Form (available in the Financial Aid Office).

The basic requirements for Nashua Community College's approval:

- The requested course must be required for graduation.
- A student must be enrolled in at least 50% of his or her credit hours at NCC during the semester of requested Consortium.
- The Consortium must be signed before the end of our Add Period at the start of the semester

Student Services

Fully aware that the value of the college experience for each student is greatly affected by personal life difficulties, needs and interests, the administration, faculty and staff of the College regard student services as an integral part of the total educational program. A conscientious effort is made to know students as individuals and to serve them accordingly.

The Student Handbook describes specifically the student-related policies and programs at the College. Students are expected to be informed about the policies published in this catalog and in the Student Handbook as well as subsequent policies and information that may be published or posted during the school year. Policies of the College may, and often do, change since the College must maintain flexibility to serve its students. It is the responsibility of the student to read and understand the College policies.

Nashua Transit System

The College has a "UPASS" transportation agreement with the City of Nashua, New Hampshire/Nashua Transit System (NTS) which provides NCC students unlimited fixed-route access privileges. Students presenting a valid NCC ID card will be excused from paying a fare at the time of the trip. As part of the agreement, compensation made by the College will cover all fares.

Wellness Center

The Wellness Center houses a full size gymnasium, suspended walking track, multi-purpose exercise room, fitness center and locker rooms. The facility is open to all students, faculty and staff with a valid NCC ID and completion of the Wellness Center Registration Form. Hours of operation are posted outside the Wellness Center as well as [online](#).

Intramural Sports

The intramural sports program at NCC is for current students who would like to participate in competition. Competition is offered for men, women, and co-ed participants depending on the sport. Competition is provided in the form of games, tournaments and special events each semester. The programs offered are based upon student interest and the availability of resources and facilities.

Activities and Organizations

Students at Nashua Community College have been most enthusiastic in organizing their own activities guided by faculty advisors. Student activities are similar to those found at other commuter colleges and are based upon student interests.

Bookstore

The Bookstore serves as a center for the purchase of textbooks and equipment necessary for study at the College. The store is a contract service with Follett Bookstore. The hours of operation are posted on the door. Questions regarding the Bookstore services should be directed to the Admissions Office. The Bookstore phone number is 603.880.7083 and their website is www.bkstr.com/nashuaccstore/home.

Graduate Placement

The College is sensitive to the career counseling needs of students and provides a variety of services including computerized career assessment, personal counseling, and interest inventories. Students are assisted in their search for employment through notification of employment opportunities, access to skill building seminars such as résumé writing and job search strategies, as well as opportunities for on campus interviews with business representatives. Historically, approximately 90% of the graduates are employed or continue their education within 90 days of graduation. NCC uses College Central Network (CCN) as its official résumé and job posting service. Local employers post jobs exclusively to our school via the CCN site. Students and alumni can create an account profile to:

- Easily search and apply to local and national Full-time, Part-time, Internship/Co-op job opportunities
- Create and upload your résumé and career portfolio to make available to employers
- Access event announcements, career advice documents, Podcasts, videos and articles

For more information, contact the Academic Advising Center.

Academic Advising Center

The Academic Advising Center assists students with the course selection process, academic concerns, program and degree requirements, transfer options, and other related college practices. Hours of operation are posted on the website. Specific contact information and a calendar of activities can be found at www.nashuacc.edu/student-services/advising-center. Students can find the name of their assigned advisor on Navigate or Student Information System (SIS). The advising center is located in room 99.

Academic Success Center

The Academic Success Center provides educational support and resources to the College community. Our mission is to offer a friendly environment as we assist you in your college endeavors. These supports include:

The Tutoring Center – Tutoring is available to all students, free of charge. Tutoring is led by faculty members and peer tutors. Group and drop-in tutoring takes place on campus.

Disability Services – Students who have documented disabilities may speak with the Disabilities Support Coordinator to establish reasonable accommodation plans, and to access many additional resources available. In order to receive classroom accommodations a student must meet eligibility requirements and complete the RAP application process. Forms and instructions are available on the NCC website and in the Academic Success Center | Room 100.

Computer Lab – Students may use the computers to work on their assignments.

The Writing Center – The Writing Center offers students an opportunity to discuss and refine their writing skills through one-on-one sessions with qualified writing consultants. Students will develop self-confidence as writers and have a better understanding of the writing process. Consulting sessions may focus on research papers, technical reports and other projects such as resume writing and preparing an essay for college transfer.

English for Speakers of Other Languages

The Department of Multicultural Engagement offers support for non-native speakers of English including language evaluations, advising, tutoring, and social activities such as the International Café, Conversation Partners, and the World Language Club. There are a variety of multi-level classes to improve English for social and academic purposes. Courses to choose from cover conversation, pronunciation, grammar, vocabulary, and writing domains. Contact the Department Chair for more information.

Walter R. Peterson Library & Media Center

The Walter R. Peterson Library and Media Center was dedicated in December 2000 in honor of the former Governor of New Hampshire. We provide traditional library services as well as a wide range of media and information technologies. A large number of full text research databases are available for access 24/7. The library houses over 18,000 volumes and more than 80 print serials.

The Walter R. Peterson Library and Media Center contains a large reading room, three conference rooms, a serials room, a research classroom, and a faculty/staff instructional development room.

Student Rights Grievance Procedure

Any student who feels that his/her rights have been violated may file a grievance.

Please refer to the Student Handbook for the complete grievance procedure policy and information on the grade appeal process.

If you have a grievance you feel has not been properly resolved by NCC you can access the NH Department of Education, Higher Education Division complaint process through the following link: <http://www.education.nh.gov/highered/compliance-allegation.htm> or by contacting at the NH Department of Education, Higher Education Division:
New Hampshire Department of Education | 101 Pleasant Street | Concord, NH | 03301-3852 | Telephone: 603.271.3494 | TDD Access: Relay NH 711

General Education Requirements

General Education Mission Statement

Nashua Community College is committed to offering a foundation of common knowledge and skills to all students through a variety of learning experiences. General Education at NCC provides a broad core of humanistic knowledge demonstrated through the achievement of essential learning outcomes to prepare students for twenty-first-century challenges. It is a coherent framework for providing students a high level of learning as well as strong intellectual and practical skills needed to become well-informed citizens in an ever-changing world.

Philosophy of General Education

General Education is based on the belief that all students should have the educational experiences that enable them to broaden their perspective of the world around them and help them succeed in future career and intellectual pursuits. Students should be able to understand various key concepts and methods of inquiry that relate to specific fields of study. General Education will provide the skills and knowledge that will allow students the opportunities to communicate effectively, create exemplary work, commit to learning, collaborate with others, and challenge one's self and others by questioning and reasoning.

General Education Learning Outcomes

After completion of general education courses, the student will meet the following outcomes:

1. The student will communicate effectively and fluently; read with comprehension; listen, speak and write competently.
2. The student will develop skills in reflection, analysis, logical reasoning, and evaluation to formulate judgments, reach conclusions, and solve problems.
3. The student will evaluate and utilize quantitative and qualitative data and apply mathematical and scientific principles and methods.
4. The student will utilize technology to locate, evaluate, organize, and utilize information accurately and responsibly.
5. The student will acquire knowledge and skills to function effectively as informed and responsible citizens.
6. The student will acquire knowledge and skills that will enable respect for diversity as well as an awareness of global interdependency.

Graduation Requirements and General Education Core Courses

General education core courses fall into a matrix of seven categories that contains six to ten courses from which you can choose to fulfill graduation requirements.

The categories include: English/Communications, Science, Behavioral Social Science, History/Political Science, Quantitative Literacy, Humanities/Fine Arts, Global Awareness.

General Education Elective Courses

Elective courses are other general education courses in addition to the core that are taken as part of the requirements for the associate degree.

Always consult an advisor or a department chair or program coordinator if you are not certain about your program requirements and progress toward degree completion.

General Education:

English / Communications – 7 credits minimum

In this group, students demonstrate their ability to communicate effectively through the written and oral format. In literature courses, students demonstrate the ability to interpret and analyze selected works. The course ENGL101N College Composition (4 credits) is required for all students, and is not part of the core. Any one of the other courses listed below will satisfy the requirements for this group.

General Education Core Requirement: English / Communications

| | | Credits |
|----------|---|---------|
| COMM101N | Introduction to Media Studies | 3 |
| ENGL102N | College Composition II: Writing about Literature | 3 |
| ENGL103N | Professional Writing and Presentations | 3 |
| ENGL105N | Introduction to Literature | 3 |
| ENGL109N | Public Speaking | 3 |
| ENGL122N | Technical Writing | 3 |
| ENGL230N | British Literature Middle Ages to 1800 | |
| OR | | |
| ENGL231N | British Literature 1800 to Present | 3 |
| ENGL240N | American Literature Early Colonialism to Civil War | 3 |
| OR | | |
| ENGL241N | American Literature Civil War to Present | 3 |
| ENGL255N | Honors Humor in Literature and Other Media | 3 |

General Education Electives: English / Communications

| | | |
|----------|---|---|
| COMM102N | Principles of Communications | 3 |
| COMM115N | Introduction to Media Writing | 3 |
| COMM120N | Introduction to Public Relations | 3 |
| COMM125N | Introduction to Broadcasting | 3 |
| COMM130N | Blog Writing | 3 |
| COMM204N | Screenwriting | 3 |
| COMM206N | Social Media | 3 |
| COMM210N | Perspectives in Film | 3 |
| ENGL206N | Writing Short Stories | 3 |
| ENGL215N | Literature by American Women | 3 |
| ENGL220N | Honors Contemporary Dramatic Literature | 3 |
| ENGL235N | Poetry Workshop | 3 |
| ENGL250N | Honors Advanced Creative Writing | 3 |

General Education: Science

Through study in this group, students will investigate the laws, scientific methods of inquiry, and theories used to explain the universe, life forms within the universe, and natural phenomena.

General Education Core Requirement: Science

| | | Credits |
|----------|--|---------|
| BIOL101N | Germans 101 | 4 |
| BIOL105N | Biology in Focus I | |
| OR | | |
| BIOL107N | Principles of Biology I | 4 |
| CHEM110N | Introduction to Chemistry | |
| OR | | |
| CHEM130N | General Chemistry I | 4 |
| ENVS101N | Environmental Science | 4 |
| ENVS105N | Earth Science | 4 |
| ENVS135N | Honors Environmental Science: Key Elements | 4 |

| | | |
|----------|--------------------|---|
| PHYS101N | Physical Science I | |
| OR | | |
| PHYS130N | Physics I | 4 |
| PHYS115N | Astronomy | 4 |

General Education Electives: Science

| | | |
|----------|------------------------------------|---|
| BIOL106N | Biology in Focus II | 4 |
| BIOL108N | Principles of Biology II | 4 |
| BIOL111N | Basic Human Anatomy and Physiology | 4 |
| BIOL115N | Nutrition (no lab) | 3 |
| BIOL201N | Anatomy and Physiology I | 4 |
| BIOL202N | Anatomy and Physiology II | 4 |
| BIOL205N | Basic Pathophysiology (no lab) | 3 |
| BIOL210N | Medical Microbiology | 4 |
| BIOL215N | Microbiology | 4 |
| BIOL220N | Ecology | 4 |
| BIOL230N | Genetics | 4 |
| CHEM131N | General Chemistry II | 4 |
| CHEM136N | Honors Chemistry Through Forensics | 3 |
| PHYS116N | Meteorology | 4 |
| PHYS131N | Physics II | 4 |
| PHYS230N | Calculus-Based Physics I | 4 |
| PHYS231N | Calculus-Based Physics II | 4 |

General Education: Behavioral Social Science

In this group, students learn about the interrelationship of individuals with the larger society in which they live. Emphasis is placed on an understanding of the forces within society that help shape the individual.

General Education Core Requirement: Behavioral Social Science

| | | Credits |
|----------|------------------------------|---------|
| ANTH105N | Ethnography of Work | 3 |
| ANTH110N | Cultural Anthropology | 3 |
| PSYC101N | Introduction to Psychology | 3 |
| PSYC130N | Human Relations | 3 |
| PSYC201N | Human Growth and Development | 3 |
| SOCI101N | Introduction to Sociology | 3 |

General Education Electives: Behavioral Social Science

| | | |
|----------|--|---|
| ANTH108N | Introduction to Archaeology | 3 |
| CRMJ101N | Introduction to Criminal Justice | 3 |
| CRMJ102N | Criminology | 3 |
| PSYC202N | Personality Psychology | 3 |
| PSYC205N | Child Psychology | 3 |
| PSYC206N | Learning and Behavior | 3 |
| PSYC207N | Social Psychology | 3 |
| PSYC210N | Abnormal Psychology | 3 |
| PSYC212N | Individual Counseling: Theory and Practice | 3 |
| PSYC220N | Research Methods | 3 |
| PSYC222N | Group Dynamics and Counseling | 3 |
| PSYC240N | Drugs and Alcohol | 3 |
| PSYC290N | Psychology Internship: A Capstone Experience | 3 |
| SOCI208N | Sociology of Conflict | 3 |
| SOCI228N | Social Inequalities: Theory and Practice | 3 |
| SOCI250N | Societal Approaches to Health Care Systems | 3 |

General Education: History / Political Science

Study in this group will help students understand and appreciate divergent views with respect to local, national and international

issues. In addition, students will appreciate the nature of cultural and national identity within a growing multicultural setting.

General Education Core Requirement: History / Political Science Credits

| | | |
|----------|--|---|
| HIST101N | Western Civilization from Ancient Times to 1700 | |
| OR | | |
| HIST102N | Western Civilization from 1600 to the Present | 3 |
| HIST110N | Ancient Civilizations of the World | 3 |
| HIST140N | U.S. History from the Colonial Era to Reconstruction | |
| OR | | |
| HIST141N | U.S. History Since Reconstruction | 3 |
| HIST262N | Honors Movies and Social History of the USA | 3 |
| POLS101N | Introduction to Political Science | 3 |
| POLS102N | American Government and Politics | 3 |
| POLS106N | Citizen and Society | 3 |
| POLS210N | State and Local Government | 3 |

General Education Electives: History / Political Science

| | | |
|----------|---|---|
| ECON201N | Microeconomics | 3 |
| ECON202N | Macroeconomics | 3 |
| HIST215N | New Hampshire History | 3 |
| HIST232N | History of Modern Asia | 3 |
| HIST241N | American Constitutional History | 3 |
| HIST246N | Modern America | 3 |
| HIST260N | History of Multiculturalism | 3 |
| HIST265N | Latin American History: From Independence to the Present | 3 |
| HIST285N | Introduction to Historical Research Methods | 3 |
| POLS215N | World Affairs | 3 |
| POLS220N | American Politics and Mass Media | 3 |

General Education: Quantitative Literacy

Through study in this group, students will learn to appreciate logical reasoning, abstraction of ideas, and the analytical approach to problem solving.

General Education Core Requirement: Quantitative Literacy Credits

| | | |
|----------|--------------------------|---|
| MATH103N | Quantitative Reasoning | 4 |
| MATH106N | Statistics I | 4 |
| OR | | |
| MATH107N | Honors Statistics I | 4 |
| MATH110N | Algebra and Trigonometry | 4 |
| MATH115N | Finite Mathematics | 4 |
| MATH120N | Precalculus | 4 |
| MATH206N | Statistics II | 4 |
| MATH210N | Calculus I | 4 |

General Education Electives: Quantitative Literacy

| | | |
|----------|---|---|
| MATH108N | Contemporary Mathematics | 3 |
| MATH170N | Discrete Mathematics | 4 |
| MATH211N | Calculus II | 4 |
| MATH212N | Calculus III | 4 |
| MATH214N | Honors Calculus I | 4 |
| MATH215N | Linear Algebra | 4 |
| MATH220N | Differential Equations | 4 |
| MATH285N | Individual Project in Mathematics: A Capstone Experience | 4 |

General Education: Humanities / Fine Arts

Students will explore art, music, and philosophy. Students will be exposed to creative expressions of the imagination and the human intellect.

General Education Core Requirement: Humanities / Fine Arts Credits

| | | |
|----------|-----------------------------------|---|
| ARTS101N | Introduction to Drawing | 3 |
| ARTS111N | Photography and Digital Imaging I | 3 |
| ARTS120N | Graphic Design Theory | 3 |
| HUMA101N | Introduction to the Humanities | 3 |
| HUMA102N | Art Appreciation | 3 |
| HUMA103N | Music Appreciation | 3 |
| HUMA110N | Critical Thinking Skills | 3 |
| HUMA130N | Music Composition | 3 |
| HUMA230N | Ethics in the Workplace | 3 |
| PHIL109N | Introduction to Philosophy | |
| OR | | |
| PHIL130N | Honors Ancient Greek Philosophy | 3 |

General Education Electives: Humanities / Fine Arts

| | | |
|----------|--|---|
| ARTS112N | Photography and Digital Imaging II | 3 |
| ARTS200N | Drawing II: Developing a Personal Approach to Drawing | 3 |
| HUMA104N | Jazz and Its Roots | 3 |
| HUMA120N | Introduction to Theatre | 3 |
| HUMA140N | American Cinema | 3 |
| HUMA145N | American Popular Culture | 3 |
| HUMA220N | Classical Myths in Western Civilization | 3 |

General Education: Global Awareness

Students will explore world languages. Students will be exposed to creative expressions of the imagination and the human intellect.

General Education Core Requirement: Global Awareness Credits

| | | |
|----------|---|---|
| ASL120N | Sign Language I | 3 |
| FREN101N | French I | 3 |
| GERM101N | German I | 3 |
| SPAN105N | Spanish I | 3 |
| ANTH263N | Honors Introduction to Chinese Culture and Society | 3 |
| GEOG110N | World Regional Geography | 3 |
| GEOG130N | Human Geography | 3 |
| HUMA107N | World Religion | 3 |

General Education Electives: Global Awareness

| | | |
|----------|-------------------|---|
| ASL121N | Sign Language II | 3 |
| ASL220N | Sign Language III | 3 |
| ASL221N | Sign Language IV | 3 |
| FREN102N | French II | 3 |
| GERM102N | German II | 3 |
| SPAN106N | Spanish II | 3 |

SPECIAL NOTES:

While a minimum of 20 credits must be earned to meet the General Education Core Requirements, it is important to note that courses must be completed in the above groups.

With approval of the Vice President of Academic Affairs or designee, other courses may be used to satisfy General Education

Core Requirements. The most obvious example in this regard is the transfer of General Education courses from other institutions of higher education.

Sign Language Studies Certificate

(Evening Program)

This program is designed to prepare individuals for jobs providing support services to the hearing impaired. Emphasis will be on using American Sign Language (ASL). To be accepted into the program, applicants must meet the requirements for admission listed in this catalog.

| | | CL | LAB | CR |
|----------|----------------------------|-----------|------------|-----------|
| SOCI101N | Introduction to Sociology | | | |
| | OR | | | |
| PSYC101N | Introduction to Psychology | 3 | 0 | 3 |
| ENGL101N | College Composition | 4 | 0 | 4 |
| ASL101N | Deaf Culture | 3 | 0 | 3 |
| ASL120N | Sign Language I | 3 | 0 | 3 |
| ASL121N | Sign Language II | 3 | 0 | 3 |
| ASL201N | Deaf & Hearing | | | |
| | Cultural Interactions | 3 | 0 | 3 |
| ASL220N | Sign Language III | 3 | 0 | 3 |
| ASL221N | Sign Language IV | 3 | 0 | 3 |

Total 25 Credits

Industry and Transportation Department General Education Policies

(Relevant to Aviation, Automotive, Honda/PACT, Collision Repair and all future programs under the supervision of the Industry and Transportation Department)

The faculty of the Industry and Transportation recognize the importance of general education courses to the growth and development of students in the Industry and Transportation programs. Each program provides students with the necessary skills required to pursue careers in any number of the potential opportunities offered by the Industry and Transportation. The programs provide training that develop technical skills, but also other skills that will be useful in the workforce such as but not limited to reading comprehension, effective oral and written skills, critical thinking skills, and workplace ethics. Local employers whom are members of the NCC Advisory Boards have repeatedly emphasized the fact that these skills, as well as the technical skills are in high demand.

So that students stay on track with the courses that provide the opportunity to develop the marketable skills that employers will find desirable, as well as meet the requirements of the Associate Degree Program offered at NCC; the NCC Faculty in regards to student matriculation in the various Industry and Transportation programs have established the following guidelines:

- 1. All students must take an ACCUPLACER exam or provide SAT scores prior to admission into any of the Industry and Transportation programs. Students must place into college level courses in order to gain enrollment into an Industry and Transportation program. Students that place into English 101 with Co-requisite workshop or both English 101 and Math with Co-requisite workshop classes will be required to attend and pass all Co-requisite workshop classes prior to enrollment into any of the Industry and Transportation program courses. Aviation students will be required to test into both English and Math without Co-Requisite Workshop in order to be eligible to register for Aviation courses in the certificate and degree programs. Co-requisite workshop classes provide students the necessary skills to perform work at a college level.*
- 2. If a student is deficient in general education classes as stated by the specific program map, the student must make up the missing general education classes in lieu of advancing in the Industry and Transportation program courses until the student has sufficiently met the academic requirements of the program as listed in the designated program map.*
- 3. Students cannot enroll into a 200-level Industry and Transportation program class if the student is still attending, enrolled into, or needs to pass a Co-requisite workshop class.*
- 4. Students must maintain an effective CGPA to advance in Industry and Transportation program courses. In order for students to graduate, a 2.0 CGPA is required. Students that fall below the level of a 2.0 CGPA will be directed to retake courses in which he/she scored poorly before advancing in Industry and Transportation program classes. The student will not be able to advance in the program until the student can demonstrate a proper level of academic success.*
- 5. If a student must register for a general education class and there is a conflict between an Industry and Transportation program class and a general education class, the general education class will always take precedence over the Industry and Transportation program course.*

Academic Focus Areas: Associate Degree Programs



ARTS, HUMANITIES, COMMUNICATION & DESIGN

Communications, English, General Studies, Humanities



BUSINESS

Business Administration: Accounting, Business Administration: Management, Business Administration: Marketing, Small Business Entrepreneurship, Paralegal Studies



HEALTH SCIENCES & SERVICE

General Studies Health, Holistic Massage Therapy, Nursing, Speech Language Pathology Assistant*

* Effective Spring 2018 this program is admitting new students every other year. The next cohort of students is scheduled to be admitted in the Fall of 2019 pending adequate enrollment.



HOSPITALITY & CULINARY

Culinary Arts
Hospitality & Restaurant Management



INDUSTRY & TRANSPORTATION

Automotive Technology, Aviation Technology, Collision Repair-Technology, Honda Automotive Technology,



SOCIAL, EDUCATIONAL & BEHAVIORAL SCIENCES

Criminal Justice, Early Childhood Education, Educator Preparation, History & Political Science, Human Services, Liberal Arts, Psychology



STEM & ADVANCED MANUFACTURING

Biological Sciences, Computer Networking, Cybersecurity Networking, Electronic Engineering Technology, Foundations in Data Analytics, Mathematics, Mechanical Design Technology, Precision Manufacturing, Software Development, Web Application-Development

Academic Focus Areas: Certificate Programs



ARTS, HUMANITIES, COMMUNICATION & DESIGN

Sign Language



BUSINESS

Accounting I/II/III, Computer Information Systems, Marketing, Paralegal Studies, Small Business Management, Spreadsheets



HEALTH SCIENCES & SERVICE

Massage Therapy



HOSPITALITY & CULINARY



INDUSTRY & TRANSPORTATION

Automotive Service and Repair
Aviation Technology
Collision Repair Technology



SOCIAL, EDUCATIONAL & BEHAVIORAL SCIENCES

Criminal Justice, Early Childhood Education,
Early Childhood Para-Educator II, Human Services,
School Aged Para-Educator II



STEM & ADVANCED MANUFACTURING

CNC Operator, Computer Networking, Cybersecurity Networking,
Internet Developer, Machine Tool Technology CNC Programming,
Metrology & Quality Control for Precision Manufacturing,
Website Design

Honors Program

NCC Honors is a non-degree program open to all qualified students in all majors.

Nashua Community College recognizes that students enter the learning process at different levels of competency and is committed to supporting high achieving students in pursuit of their academic, professional, and personal goals through their participation in the Honors Program at NCC.

The Honors Program provides a supportive intellectual environment that encourages creative and critical thinking and varied opportunities to expand academic, cultural and social horizons. Honors participants take small discussion-oriented seminars that satisfy general education requirements through exposure to innovative and challenging curricula.

Benefits of Honors Program

- Specialized enriched curriculum taught by outstanding faculty
- Interaction with a talented community of scholars
- Small classes (15 students or fewer)
- Extraordinary opportunities for research and publication
- Honors distinction on the NCC transcript and diploma
- Enhanced prospects of acceptance to four year colleges and universities
- Scholarship opportunities.

Through a sincere engagement in the Honors curricula, students will be prepared for and aware of the dynamic challenges of attaining their professional and personal pursuits. Please see your advisor or the Honors Program Coordinator for more information.

Admissions Eligibility

High school graduate or those who have proof of high school completion, and:

- Have earned the following minimum SAT scores: English score of 550 and Writing score of 8 and/or a Math score of 550, or:
- Have earned the following minimum ACCUPLACER scores: Reading 95; Writing 6; Sentence Skills 95 and/or in Math, an 85 in Algebra and 53 in College Level Math.

Current NCC student, having earned at least 9 credits of college-level work with at least 6 credits in General Education courses, and have earned a minimum cumulative GPA of 3.20.

Transfer student from another college/university, have earned a minimum cumulative GPA of 3.20, and have transferred at least 9 credits of college-level work with at least 6 credits in General Education courses.

Transfer student who has completed 6 credits in another college's honors program with a cumulative GPA of at least *3.20.

(*The minimum GPA required of NCC Honors Program students to maintain program status).

Application Process

To apply to the Honors Program, the student must complete an application form available from the Honors Program Coordinator, Admissions Office, or Advising Center.

Graduation

To graduate with the Honors Program designation on the NCC transcript, students must have:

- Applied and been accepted into the Honors Program
- Successfully completed a minimum of 3 Honors courses earning a minimum grade of B- in each Honors course.
- Achieved a minimum cumulative GPA of 3.20 in the degree program.
- Achieved a minimum cumulative GPA of 3.20 in Honors coursework.

To graduate with the designation of NCC Honors Scholar on their diploma and transcript, students, in addition to the above stipulations, must have

- Successfully completed one additional Honors course with a grade of B- or above
- Submitted for evaluation and acceptance by the Honors review board a Learning E-portfolio of academic assignments and projects completed in the NCC Honors and NCC Degree program courses that demonstrate successful achievement of the Honors Program competencies.
- Submitted the Learning E-portfolio to the Honors Program Coordinator **by the third Monday in April of their graduating year.**

HONORS DESIGNATED COURSES

| | | CL | LAB | CR |
|----------|--|----|-----|----|
| ENGL110N | Honors Expository Writing | 4 | 0 | 4 |
| BUS220N | Honors Leadership in the Workplace | 3 | 0 | 3 |
| CHEM135N | Honors Environmental Science: Impact of Key Elements | 3 | 2 | 4 |
| CHEM136N | Honors Chemistry through Forensics | 3 | 0 | 3 |
| PHIL130N | Honors Ancient Greek Philosophy | 3 | 0 | 3 |
| MATH107N | Honors Statistics I | 4 | 0 | 4 |
| MATH214N | Honors Calculus I | 4 | 0 | 4 |
| ENGL250N | Honors Advanced Creative Writing | 3 | 0 | 3 |
| HIST262N | Honors Movies and Social History of the USA | 3 | 0 | 3 |
| ANTH263N | Honors Introduction to Chinese Culture & Society | 3 | 0 | 3 |
| ENGL255N | Honors Humor in Literature & Other Media | 3 | 0 | 3 |

In completing 3 or more Honors courses, students will be able to:

- Communicate clearly, both orally and in writing, with a rhetorical style, depth of analysis, and voice appropriate to the complexity of the intellectual discourse.
- Demonstrate comprehension and critical evaluation skills of scholarly research and multiple genres of writing.
- Logically apply knowledge for problem solving and toward the advancement of new interpretations and developed arguments within a variety of academic and professional contexts.
- Demonstrate a facility with contemporary information technology and the essential skills required by various academic and professional communities.

Department of Multicultural Engagement

The Department of Multicultural Engagement offers support for non-native speakers of English including language evaluations, advising, tutoring, and social activities, such as the International Café, Conversation Partners, and the World Language Club. There are a variety of multi-level classes to improve English for social, academic, and professional purposes. Courses to choose from cover conversation, pronunciation, grammar, vocabulary, and writing domains. In addition, the Department provides world language instruction for part of a well-rounded, globally-minded education, for both personal knowledge and professional advantage.

Benefits

- Helps non-native speakers of English develop English language proficiency for personal academic, and career success—increasing language acquisition.
- Provides individual support for students, including personalized advising, registration, mentoring, tutoring, and referrals for additional support services—promoting a positive college experience.
- Offers social and service opportunities that promote diversity, multicultural awareness, and language practice—improving cultural and language competence.
- Facilitates cultural and language exchange between native English speakers and non-native speakers outside of the classroom environment—promoting greater understanding of American culture and other cultural perspectives.
- Provides a variety of non-credit courses and workshops which promote language acquisition, best teaching practices for content-area instructors of non-native speakers, and customized courses for business and industry.

Eligibility

The Department of Multicultural Engagement offers support for non-native speakers of English, as well as students wishing to study available world languages. Students may be both matriculated or non-matriculated, who have successfully completed a Department language assessment, individual language evaluation, or standardized test (ACCUPLACER®.)

ESOL Courses

| | | CL | LAB | CR |
|----------|--|----|-----|----|
| ESOL075N | Grammar for Writing V | 4 | 0 | 4 |
| ESOL076N | Grammar for Writing VI | 4 | 0 | 4 |
| ESOL083N | ESL Speaking, Listening & Pronunciation | 4 | 0 | 4 |
| ESOL085N | Listening, Speaking, & Pronunciation II | 4 | 0 | 4 |
| ESOL088N | Academic Writing for English Language Learners III | 4 | 0 | 4 |
| ESOL096N | Academic Writing for English Language Learners IV | 4 | 0 | 4 |

Upon successful completion of the ESOL courses selected by a Department advisor, students will be able to continue to upper-level courses required by their major.

World Language Courses

| | | CL | LAB | CR |
|----------|------------|----|-----|----|
| FREN101N | French I | 3 | 0 | 3 |
| FREN102N | French II | 3 | 0 | 3 |
| GERM101N | German I | 3 | 0 | 3 |
| GERM102N | German II | 3 | 0 | 3 |
| SPAN105N | Spanish I | 3 | 0 | 3 |
| SPAN106N | Spanish II | 3 | 0 | 3 |

The World Language courses fulfill the general education: Global awareness requirements of the academic programs.

Sign Language Courses

| | | CL | LAB | CR |
|---------|--|----|-----|----|
| ASL101N | Deaf Culture | 3 | 0 | 3 |
| ASL120N | Sign Language I | 3 | 0 | 3 |
| ASL121N | Sign Language II | 3 | 0 | 3 |
| ASL201N | Deaf and Hearing Cultural Interactions | 3 | 0 | 3 |
| ASL220N | Sign Language III | 3 | 0 | 3 |
| ASL221N | Sign Language IV | 3 | 0 | 3 |

The Sign Language Certificate requirements are outlined in a separate section of the Catalog.

Associate in Science Degree in Automotive Technology (Day Program)

Automotive Technology is a two-year associate degree program that is designed to combine automotive technical training and academic course work to provide the student with the skills and knowledge needed for an exciting and rewarding career in the automotive service industry. While enrolled in the program, students will study the theory of operation of the automotive systems including electrical, brakes, steering and suspension, automatic and manual transmissions, heating and cooling, engine performance, and engine repair. Engine Repair is the capstone course for this degree program.

Each course includes an automotive lab that allows the students to apply and build their knowledge and skills by performing work on vehicles with "real life" problems in a "real shop" atmosphere. This high tech training combined with the academic coursework and "hands-on" experience not only prepares the student to be employed in the automotive field, but also prepares the student to take the ASE (Automotive Service Excellence) technician certification exams.

Graduates of the program will satisfy an industry need for well-educated and technically trained people.

Features of the program include:

- This program is Master Automobile Service Technology (MAST) Accredited by the National Automotive Technicians Education Foundation (NATEF)
 - Highly trained ASE Master Certified Instructors
 - Modern facility with state-of-the-art equipment
- Job opportunities include: Dealership technician, Independent shop technician, auto part sales person, service writer, and power sports technician

In addition to the general admissions requirements, the Automotive Technology applicants should be aware of the following criteria:

1. A minimum of one year of high school Algebra I is recommended.
2. Basic skills in written English are required.
3. A basic automotive tool kit and roll cabinet are required. A copy of the required tool list is available on the college website. The major tool manufacturers offer substantial discounts to enrolled students. The College hosts a "Tool Day" on campus in late August for students needing tools or tool kits. Depending on the tool manufacturer, approximate tool kit cost is between \$2,800 and \$6,000 (prices subject to change).
4. Students are expected to possess a good work ethic and a strong desire to learn.
5. A valid driver's license is required to be accepted into the program.

Students should familiarize themselves with the Industry and Transportation Department General Education Policies located in the General Education Policies section of this Catalog.

Technical Standards: Please refer to Technical Standards for details regarding this program.

Upon the completion of the degree in Automotive Technology, graduates will be able to:

1. Evaluate, diagnose, and repair various automotive systems using NATEF guidelines.
2. Use technology and basic scientific principles for research and problem solving.
3. Employ effective written and oral communication skills.
4. Employ effective technical writing skills.
5. Utilize mathematical logic and analysis for problem solving.
6. Understand the connections between individuals and society.
7. Have the ability to achieve ASE Master Certification.
8. Perform reading skills at a college level.
9. Demonstrate effective interpersonal skills.

In addition, the graduate will be able to demonstrate competency in the general education outcomes.

FIRST YEAR - FALL SEMESTER

| | | CL | LAB | CR |
|--|-----------------------------------|----|-----|----|
| AUTO106N | Internal Combustion Engine | 2 | 3 | 3 |
| AUTO113N | Automotive Electricity & Wiring | 2 | 3 | 3 |
| AUTO121N | Automotive Service & Maintenance* | 2 | 4 | 4 |
| ENGL101N | College Composition | 4 | 0 | 4 |
| General Education Core Requirement: Quantitative Literacy | | | | |
| | | 4 | 0 | 4 |

Semester Credits: 18

FIRST YEAR - SPRING SEMESTER

| | | CL | LAB | CR |
|---|-----------------------------------|----|-----|----|
| AUTO114N | Automotive Suspension & Steering* | 2 | 4 | 4 |
| AUTO122N | Automotive Brake Systems* | 2 | 4 | 4 |
| AUTO210N | Engine Performance I | 2 | 3 | 3 |
| General Education Core Requirement: English / Communications | | | | |
| | | 3 | 0 | 3 |

Semester Credits: 14

SECOND YEAR - FALL SEMESTER

| | | CL | LAB | CR |
|----------|---|----|-----|----|
| AUTO115N | Advanced Automotive Electricity and Electronics | 2 | 3 | 3 |
| AUTO226N | Automotive Power Trains | 2 | 4 | 4 |
| AUTO227N | Automatic Transmissions | 2 | 4 | 4 |
| PHYS101N | Physical Science I | 3 | 2 | 4 |

Semester Credits: 15

SECOND YEAR - SPRING SEMESTER

| | | CL | LAB | CR |
|--|---|----|-----|----|
| AUTO215N | Engine Performance II | 2 | 3 | 3 |
| AUTO221N | Automotive Heating & Air Conditioning | 2 | 3 | 3 |
| AUTO228N | Automotive Engine Repair: A Capstone Experience | 2 | 6 | 4 |
| General Education Core Requirement: Behavioral Social Science | | | | |
| | OR | 3 | 0 | 3 |
| General Education Core Requirement: History/Political Science | | | | |
| | General Education Core Requirement: Humanities/Fine Arts or Global Awareness | 3 | 0 | 3 |

Semester Credits: 16

Total Credits: 63

*A student must earn a 'C' or better to achieve a passing grade in this course.

Automotive Service and Repair Certificate

FALL SEMESTER

| | | CL | LAB | CR |
|-----------------------------|--------------------------------------|----|-----|----|
| AUTO106N | Internal Combustion Engine | 2 | 3 | 3 |
| AUTO113N | Automotive Electricity & Wiring | 2 | 3 | 3 |
| AUTO121N | Automotive Service & Maintenance* | 2 | 4 | 4 |
| Semester Credits: 10 | | | | |

SPRING SEMESTER

| | | CL | LAB | CR |
|-----------------------------|--------------------------------------|----|-----|----|
| AUTO114N | Automotive Suspension & Steering* | 2 | 4 | 4 |
| AUTO122N | Automotive Brake Systems* | 2 | 4 | 4 |
| AUTO210N | Engine Performance I | 2 | 3 | 3 |
| Semester Credits: 11 | | | | |

Total Credits: 21

*A student must earn a 'C' or better to achieve a passing grade in this course.

Associate in Science Degree in Aviation Technology

(Airframe and Powerplant) (Day Program)
FAA Certified Number NSUT025K

The Associate of Science Degree in Aviation Technology prepares students for professional careers in aviation maintenance. Graduates may seek employment with airlines, fixed base operators, or aircraft manufacturers.

Nashua Community College is an FAA approved training facility. Students who complete this program will be prepared to apply for the FAA oral, written, and practical exams for the Airframe and Powerplant Technician Certificate.

The Aviation Technology program places major emphasis on the study of actual aircraft, structures, and powerplants and related systems. The 21-month curriculum includes one summer session and covers a wide variety of subjects concerned with airplanes: reciprocating engines, turbines, fuel systems, propellers, ignition, electrical systems, and hydraulic systems. A great deal of reading is required, as well as the ability to interpret FAA regulations and manufacturer's technical specifications.

In addition to the general admission requirements, Aviation Technology applicants should be aware of the following criteria:

1. Excellent English skills in reading, writing, speaking and understanding are required.
2. High school courses such as physics, electronics, and computer programming are recommended.
3. Students will be required to purchase approximately \$1,300 of tools upon entrance to the program.

Technical Standards: Please refer to the Technical Standards section in this catalog for details regarding this program.

Upon completion of the degree in Aviation Technology, graduates will be able to:

1. Perform maintenance and inspections on aircraft using FAA and manufacturers' instructions.
2. Perform maintenance on aircraft structures using FAA and manufacturers' instructions.
3. Perform maintenance on aircraft powerplants using FAA and manufacturers' instructions.
4. Inspect and repair aircraft composite structures using FAA and manufacturers' instructions.
5. Communicate effectively both orally and in writing.
6. Demonstrate legal and moral judgment when supervising others.
7. Demonstrate positive work ethics, integrity, and knowledge of work skills.
8. Exercise a desire to continue professional development and lifelong learning.
9. Successfully pass the FAA airframe and powerplant certification examination.
10. Find employment directly related to the field of study.

In addition, the graduate will be able to demonstrate competency in the general education outcomes.

FIRST YEAR - FALL SEMESTER

| | | | CL | LAB | CR |
|-------------------------------------|---|---|----|-----|----|
| ENGL101N | College Composition | 4 | 0 | 4 | |
| AVTN101N | Maintenance Forms and Records | 2 | 3 | 3 | |
| AVTN102N | Airframe Structures I | 2 | 6 | 4 | |
| AVTN108N | Aviation Drafting and Blueprint Reading | 3 | 0 | 3 | |
| General Education Core Requirement: | | | | | |
| | Quantitative Literacy | 4 | 0 | 4 | |

Semester Credits: 18

FIRST YEAR - SPRING SEMESTER

| | | | CL | LAB | CR |
|-------------------------------------|------------------------|---|----|-----|----|
| AVTN103N | Airframe Structures II | 3 | 6 | 5 | |
| AVTN104N | Materials and Process | 2 | 3 | 3 | |
| AVTN106N | Aviation Electronics | 2 | 2 | 3 | |
| PSYC130N | Human Relations | 3 | 0 | 3 | |
| General Education Core Requirement: | | | | | |
| | English/Communications | 3 | 0 | 3 | |

Semester Credits: 17

SUMMER SEMESTER (9 WEEKS)

| | | | CL | LAB | CR |
|----------|-----------------------------|---|----|-----|----|
| AVTN105N | Aircraft Systems | 3 | 3 | 4 | |
| AVTN202N | Airframe Electrical Systems | 2 | 4 | 3 | |
| AVTN203N | Hydraulics and Pneumatics | 3 | 5 | 5 | |

Semester Credits: 12

SECOND YEAR - FALL SEMESTER

| | | | CL | LAB | CR |
|----------|--------------------------|---|----|-----|----|
| AVTN107N | Digital Logic | 2 | 2 | 3 | |
| AVTN204N | Assembly and Rigging | 2 | 6 | 4 | |
| AVTN206N | Reciprocating Engines I* | 3 | 6 | 5 | |
| AVTN208N | Engine Systems* | 2 | 3 | 3 | |
| AVTN209N | Aircraft Propellers* | 2 | 3 | 3 | |
| PHYS101N | Physical Science I | 3 | 2 | 4 | |

Semester Credits: 22

SECOND YEAR - SPRING SEMESTER

| | | | CL | LAB | CR |
|-------------------------------------|--|---|----|-----|----|
| AVTN207N | Reciprocating Engines II* | 3 | 6 | 5 | |
| AVTN210N | Turbine Engines and Systems*3 | | 3 | 4 | |
| AVTN211N | Carburetion and Fuel Systems* 2 | | 3 | 3 | |
| AVTN212N | Engine Electrical Systems* | 2 | 6 | 4 | |
| General Education Core Requirement: | | | | | |
| | Humanities/Fine Arts OR Global Awareness | 3 | 0 | 3 | |

Semester Credits: 19

Total Credits: 88

*A student must have completed all FAA General Section courses or possess an FAA Airframe Certificate to be eligible to take these courses.

Aviation Technology Certificate

(Airframe and Powerplant) (Day Program)

FAA Certified Number NSUT025K

Students must have excellent English skills as evidenced by placement into ENGL 101N (English Composition) with no co-requisite.

*A student must have completed all FAA General Section courses or possess an FAA Airframe Certificate to be eligible to take these courses

Upon completion of the certificate in Aviation Technology, graduates will be able to:

1. Perform maintenance and inspections on aircraft using FAA and manufacturers' instructions.
2. Perform maintenance on aircraft structures using FAA and manufacturers' instructions.
3. Perform maintenance on aircraft powerplants using FAA and manufacturers' instructions.
4. Inspect and repair aircraft composite structures using FAA and manufacturers' instructions.
5. Communicate effectively both orally and in writing.
6. Demonstrate legal and moral judgment when supervising others.
7. Demonstrate positive work ethics, integrity, and knowledge of work skills.
8. Exercise a desire to continue professional development and lifelong learning.
9. Successfully pass the FAA airframe and powerplant certification examination.
10. Find employment directly related to the field of study.

In addition, the graduate will be able to demonstrate competency in the general education outcomes.

FIRST YEAR - FALL SEMESTER

| | | CL | LAB | CR |
|----------|---|----|-----|----|
| AVTN101N | Maintenance Forms and Records | 2 | 3 | 3 |
| AVTN102N | Airframe Structures I | 2 | 6 | 4 |
| AVTN108N | Aviation Drafting and Blueprint Reading | 3 | 0 | 3 |

Semester Credits: 10

FIRST YEAR - SPRING SEMESTER

| | | CL | LAB | CR |
|----------|------------------------|----|-----|----|
| AVTN103N | Airframe Structures II | 3 | 6 | 5 |
| AVTN104N | Materials and Process | 2 | 3 | 3 |
| AVTN106N | Aviation Electronics | 2 | 2 | 3 |

Semester Credits: 11

SUMMER SEMESTER (9 WEEKS)

| | | CL | LAB | CR |
|----------|-----------------------------|----|-----|----|
| AVTN105N | Aircraft Systems | 3 | 3 | 4 |
| AVTN202N | Airframe Electrical Systems | 2 | 4 | 3 |
| AVTN203N | Hydraulics and Pneumatics | 3 | 5 | 5 |

Semester Credits: 12

SECOND YEAR - FALL SEMESTER

| | | CL | LAB | CR |
|----------|--------------------------|----|-----|----|
| AVTN107N | Digital Logic | 2 | 2 | 3 |
| AVTN204N | Assembly and Rigging | 2 | 6 | 4 |
| AVTN206N | Reciprocating Engines I* | 3 | 6 | 5 |
| AVTN208N | Engine Systems* | 2 | 3 | 3 |
| AVTN209N | Aircraft Propellers* | 2 | 3 | 3 |

Semester Credits: 18

SECOND YEAR - SPRING SEMESTER

| | | CL | LAB | CR |
|----------|---------------------------------|----|-----|----|
| AVTN207N | Reciprocating Engines II* | 3 | 6 | 5 |
| AVTN210N | Turbine Engines and Systems*3 | | 3 | 4 |
| AVTN211N | Carburetion and Fuel Systems* 2 | | 3 | 3 |
| AVTN212N | Engine Electrical Systems* 2 | | 6 | 4 |

Semester Credits: 16

Total Credits: 67

Associate in Science Degree in Biological Sciences (Day Program)

The Associate of Science Degree in Biological Sciences provides students with the first two years of a bachelor degree in biology in preparation for careers in pre-med, pre-health, health science, scientific and pharmaceutical research, biotechnology and education. Students receive a strong foundation in scientific language and methodology, an understanding of the physical world, and how to apply these concepts through working in an inquiry-based learning environment. The program is designed with student projects embedded in classes, as well as external research opportunities through grants and internships. Students should have strong reading and math skills, be aware of the extra hours (in the laboratory and at home) it takes to pursue project-based learning, and the advantage of this teaching style for developing critical thinking skills.

Our core courses all meet equivalent standards for transfer to most universities and colleges. However some electives may only be transferred as Discovery Science credit. Students need to work closely with the Program Coordinator while at NCC and decide early which four-year college/university he/she plans to transfer to, to make the advising process more effective.

Technical Standards: Please refer to the Technical Standards section for details regarding this program.

All students in this degree area are required to take BIOL107N or BIOL105N, CHEM130N/131N, BIOL215N, and a class that can fulfill BIOL270N requirements. All capstone elements must be completed within upper level courses for graduation with AS.

*Students who do not test directly into MATH120N Pre-Calculus may substitute MATH110N Algebra II/Trig for NCC graduation requirements. Note that MATH120N is a pre/co-requisite of CHEM131N General Chemistry II and MATH106N Statistics is a pre/co-requisite of BIOL230N Genetics. Students with placement test scores greater than MATH120N are encouraged to take MATH210N Calculus I to fulfill MATH requirements for the degree. Upon the completion of the Associate of Science degree in Biological Sciences, graduates will be able to:

1. Communicate effectively and fluently: read with comprehension; listen, clarify and follow directions; speak and write competently. Be able to draw conclusions, present and defend findings.
2. Develop skills in reflection, analysis, logical reasoning, and evaluation to formulate judgments, reach conclusions, and solve problems.
3. Apply appropriate mathematical processes to problems found in the physical and biological science by utilizing quantitative and qualitative data and applying scientific principles and methods.
4. Utilize technology to locate, evaluate, organize, generate data and utilize information accurately and responsibly and draw logical conclusions.
5. Acquire knowledge and skills that can be applied to more effectively function as an informed and responsible citizen.
6. Demonstrate an understanding of the theoretical principles, concepts and their application in a range of disciplines in the physical and biological sciences.
7. Perform and utilize a wide variety of laboratory techniques for determining results in physical and biological sciences.
8. Generate and maintain increasingly sophisticated laboratory documents, including laboratory notebooks and research papers.

Graduates will also be able to demonstrate competency of the general education outcomes.

FIRST YEAR - FALL SEMESTER

| | | CL | LAB | CR |
|----------|---------------------------|----|-----|----|
| BIOL107N | Principles of Biology I** | 3 | 3 | 4 |
| OR | | | | |
| BIOL105N | Biology in Focus I** | 3 | 3 | 4 |
| CHEM130N | General Chemistry | 3 | 3 | 4 |
| ENGL101N | College Composition | 4 | 0 | 4 |
| MATH120N | Precalculus* -OR- | 4 | 0 | 4 |
| MATH210N | Calculus I | 4 | 0 | 4 |

Semester Credits: 16

FIRST YEAR - SPRING SEMESTER

| | | CL | LAB | CR |
|-------------------------------------|---------------------------|-----|-----|----|
| BIOL108N | Principles of Biology II* | 3 | 3 | 4 |
| OR | | | | |
| SCIENCE/MATH Elective*** | | 3/4 | 0/3 | 4 |
| CHEM131N | General Chemistry II*** | 3 | 3 | 4 |
| General Education Core Requirement: | | | | |
| English/Communications | | 3 | 0 | 3 |
| MATH106N | Statistics I** | 4 | 0 | 4 |

Semester Credits: 15

SECOND YEAR - FALL SEMESTER

| | | CL | LAB | CR |
|--------------------------|---------------------|-----|-----|-----|
| BIOL215N | Microbiology | 3 | 3 | 4 |
| BIOL220N | Ecology** | 3 | 3 | 4 |
| OR | | | | |
| SCIENCE/MATH Elective*** | | 3/4 | 0/3 | 3/4 |
| PSYC101N | Intro to Psychology | 3 | 0 | 3 |
| SCIENCE/MATH Elective*** | | 3/4 | 0/3 | 3/4 |

Semester Credits: 14/15

SECOND YEAR - SPRING SEMESTER

| | | CL | LAB | CR |
|---|--------------------------------|-----|-----|-----|
| BIOL270N** | Advanced Topics in Biology**** | 3 | 2/3 | 3/4 |
| BIOL230N | Genetics** | 3 | 3 | 4 |
| General Education Requirement: | | | | |
| History/Political Science | | 3 | 0 | 3 |
| General Education Elective (or Core Requirement): | | | | |
| Humanities/Fine Arts or Global Awareness***** | | 3 | 0 | 3 |
| Open Elective or SCIENCE/MATH Elective*** | | 3/4 | 0/3 | 3/4 |

Semester Credits: 16/18

Total 61/64 Credits

* Students who do not test directly into MATH120N may substitute MATH110N. Note that MATH120N is a pre/corequisite of CHEM131N. Students with appropriate test scores may substitute a higher level of course.

** UNH Transfer Preference

*** MATH/SCIENCE options within Physical/Biological Sciences and Mathematics

BIOL201N A&PI, **BIOL202N A&PII, BIOL205N Basic Pathophysiology, BIOL207N Immunology, BIOL260N Scientific Inquiries, **BTEC205G-Bioethics (on-line GBCC, fall only option), MATH110N Algebra & Trigonometry, **MATH210N Calculus I, **MATH211N Calculus II, or greater, PHYS130N Physics I,** PHYS131N Physics II, or greater.

****BIOL205N, BIOL207N and BIOL202N will satisfy this requirement *****HUMAXXXN or PHIL109N

Students must consult an advisor at NCC and chosen transfer college(s) for guidance about course selection. Careful planning is required to ensure that mathematics and science courses will fulfill bachelor degree requirements.

Students are encouraged to use open electives to best suit their transfer needs.

Associate in Science Degree in Business Administration: Accounting (Day/Evening Program)

The mission of the Department of Business at Nashua Community College is to provide a variety of degrees and professional certificates that respond to the needs of local and regional employers, while maintaining academic integrity. Degrees, certificates, and courses are designed to provide students with the opportunity to learn skills, theories, and practices that prepare students to be successful in business endeavors. Additionally, degrees, certificates, and courses are designed to fulfill the academic requirements to allow students to transfer into a variety of bachelor's degree programs.

The Associate in Science Degree in Business Administration Accounting offers a mix of both applied and theoretical courses. Specifically, the Accounting program is designed to provide students with the accounting knowledge and skills required to confidently pursue a career in the accounting field.

Students enrolled in this program will participate in a comprehensive learning experience through the challenges of increasingly complex levels of accounting study. In addition, students will have the opportunity to further enhance and master their accounting skills by selecting an accounting elective or by gaining real world experience through participation in an accounting internship program. To ensure that students are exposed to, and are familiar with, automated accounting software used in business, Accounting Information Systems is the capstone course for this degree program. Upon graduation, students will be well prepared for successful employment in this dynamic profession. For students planning to continue their education beyond the associate degree, the Accounting program is also designed to provide transferability to a college or university that offers a bachelor's degree in Accounting, Accounting/Finance or Business Administration Accounting.

Upon the completion of the degree in Business Administration: Accounting, graduates will be able to:

1. Describe the conceptual framework of accounting as conveyed in FASB Statements of Financial Accounting Concepts.
2. Demonstrate a sound working knowledge of authoritative accounting regulation, accounting terminology, concepts and theory through the application of U.S. Generally Accepted Accounting Principles as documented in FASB Accounting Standards Codification.
3. Demonstrate confident ability to prepare, analyze, and communicate all Financial Statements including disclosure notes, optional operating summaries and management discussion items required for complete, accurate and timely reporting to both external and internal interested parties.
4. Identify and differentiate between alternative forms of business organizations, including how to properly journalize and report business transactions unique to each.
5. Prepare, analyze, monitor and control both static and dynamic budgets.
6. Explain the uses of Cost Accounting, its relationship to Financial Accounting, and the concept of Standard Costs including variance analysis, and the types of cost systems used in business.
7. Apply fundamental accounting principles in a computerized environment using automated accounting software.
8. Demonstrate the ability to reason logically and think critically as evidenced through successful completion of increasing complex levels of accounting study and all other degree requirements.
9. Demonstrate effective writing and communication skills through

research of current accounting topics.

10. Incorporate basic math skills to interpret and analyze both quantitative and qualitative data found in Financial Statements and other reporting summaries.

In addition, the graduate will be able to demonstrate competency in the general education outcomes.

FIRST YEAR - FALL SEMESTER

| | | CL | LAB | CR |
|-----------------------------|--------------------------------------|----|-----|----|
| ACCT101N | Financial Accounting I | 4 | 0 | 4 |
| BUS101N | Introduction to Business | 3 | 0 | 3 |
| BCPT101N | Computer Technology and Applications | 2 | 2 | 3 |
| ENGL101N | College Composition | 4 | 0 | 4 |
| Semester Credits: 14 | | | | |

FIRST YEAR - SPRING SEMESTER

| | | CL | LAB | CR |
|-------------------------------------|--------------------------|----|-----|----|
| ACCT102N | Financial Accounting II | 4 | 0 | 4 |
| BUS110N | Principles of Management | 3 | 0 | 3 |
| BCPT208N | Spreadsheets: Excel | 2 | 2 | 3 |
| General Education Core Requirement: | | | | |
| English / Communications | | 3 | 0 | 3 |
| General Education Core Requirement: | | | | |
| Quantitative Literacy * | | 4 | 0 | 4 |
| Semester Credits: 17 | | | | |

SECOND YEAR - FALL SEMESTER

| | | CL | LAB | CR |
|--|-------------------------|----|-----|----|
| ECON201N | Microeconomics | 3 | 0 | 3 |
| ACCT201N | Intermediate Accounting | 4 | 0 | 4 |
| ACCT206N | Cost Accounting | 4 | 0 | 4 |
| General Education Core Requirement: | | | | |
| Humanities / Fine Arts or Global Awareness | | 3 | 0 | 3 |
| Semester Credits: 14 | | | | |

SECOND YEAR - SPRING SEMESTER

| | | CL | LAB | CR |
|-------------------------------------|--------------------------------|----|-----|----|
| BUS240N | Business Law | 3 | 0 | 3 |
| ACCT202N | Intermediate Accounting II | 4 | 0 | 4 |
| ACCT214N | Accounting Information Systems | 3 | 0 | 3 |
| ACCT290N or OR | Accounting Internship | 1 | 8 | 3 |
| XXXXxxxN | Open Elective** | 3 | 0 | 3 |
| General Education Core Requirement: | | | | |
| Science | | 3 | 2/3 | 4 |
| Semester Credits: 17 | | | | |

Total Credits: 62

*MATH106N, MATH110N or MATH115N is recommended.

**ACCT210N strongly recommended



Associate in Science Degree in Business Administration: Management

(Day/Evening/Online Program)

The mission of the Department of Business at Nashua Community College is to provide a variety of degrees and professional certificates that respond to the needs of local and regional employers, while maintaining academic integrity. Degrees, certificates, and courses are designed to provide students with the opportunity to learn skills, theories, and practices that prepare students to be successful in business endeavors. Additionally, degrees, certificates, and courses are designed to fulfill the academic requirements to allow students to transfer into a variety of bachelor's degree programs.

The Associate in Science Degree in Business Administration in Management offers a mix of applied and theoretical courses. The objective of the program is to provide the knowledge students will need for successful business careers.

The program has been designed to expose the student to broad business applications including: Accounting, marketing, management, and comprehensive computer courses, which give the management student valuable skills in this growing field.

Business Management graduates are prepared for immediate career entry into the challenging fields of:

- Wholesaling/distribution
- Retailing
- Sales
- Banking
- Insurance
- Management-trainee positions in business and industry
- Manufacturing

For the student looking to pursue an education beyond the associate degree, this program is designed for easy transfer to bachelor's degree programs.

Upon the completion of the degree in Business Administration, Management graduates will be able to:

1. Demonstrate an appropriate application of contemporary management skills and practices in solving real-life business problems.
2. Demonstrate a working knowledge of labor laws, federal and state rules and policies, as well as an understanding of global differences in these areas to effectively manage a contemporary workforce.
3. Demonstrate an understanding of management theories designed to develop programs to motivate staff.
4. Demonstrate the ability to apply financial management skills to meet organizations objectives, compete effectively, and organize data efficiently.
5. Demonstrate a working knowledge of a variety of software systems, including management information systems, to allow for preparing effective reports that enhance communication with senior level staff, customers, and others.
6. Demonstrate the ability to prepare and present meaningful presentations and reports that relate short-and long-term objectives for a variety of business audiences.
7. Demonstrate the ability to utilize research techniques and analytical skills in evaluating business problems in order to develop problem-solving strategies.
8. Demonstrate an understanding of various ethical principles and their

application in various global business scenarios.

In addition, the graduate will be able to demonstrate competency in the general education outcomes.

FIRST YEAR - FALL SEMESTER

| | | CL | LAB | CR |
|----------|--------------------------------------|----|-----|----|
| ACCT101N | Financial Accounting I | 4 | 0 | 4 |
| BUS101N | Introduction to Business | 3 | 0 | 3 |
| BCPT101N | Computer Technology and Applications | 2 | 2 | 3 |
| ENGL101N | College Composition | 4 | 0 | 4 |

Semester Credits: 14

FIRST YEAR - SPRING SEMESTER

| | | CL | LAB | CR |
|---|---------------------------|----|-----|----|
| ACCT102N | Financial Accounting II | 4 | 0 | 4 |
| BUS110N | Principles of Management | 3 | 0 | 3 |
| General Education Core Requirement: Science | | 3 | 2/3 | 4 |
| General Education Core Requirement: | | | | |
| | Behavioral Social Science | 3 | 0 | 3 |
| MATH106N | Statistics I | 4 | 0 | 4 |

Semester Credits: 18

SECOND YEAR - FALL SEMESTER

| | | CL | LAB | CR |
|-------------------------------------|--|----|-----|----|
| BUS230N | Introduction to MIS | 3 | 0 | 3 |
| ACCT210N | Managerial Accounting | 3 | 0 | 3 |
| BCPT119N | Software Applications | 2 | 2 | 3 |
| ENGL109N | Public Speaking | 3 | 0 | 3 |
| General Education Core Requirement: | | | | |
| | Humanities / Fine Arts or Global Awareness | 3 | 0 | 3 |

Semester Credits: 15

SECOND YEAR - SPRING SEMESTER

| | | CL | LAB | CR |
|----------|---|----|-----|----|
| ECON201N | Microeconomics | 3 | 0 | 3 |
| OR | | | | |
| ECON202N | Macroeconomics | 3 | 0 | 3 |
| BUS240N | Business Law | 3 | 0 | 3 |
| BUS204N | Small Business Management | 3 | 0 | 3 |
| BUS201N | Human Resources Management | 3 | 0 | 3 |
| BUS290N | Management/Small Business Entrepreneurship Internship | 1 | 8 | 3 |

OR

| | | | | |
|----------|-----------------|---|---|---|
| XXXXxxxN | Open Elective** | 3 | 0 | 3 |
|----------|-----------------|---|---|---|

Semester Credits: 15

Total Credits: 62

**Consult with advisor



Associate in Science Degree in Business Administration: Marketing

(Day/Evening/Online Program)

The mission of the Department of Business at Nashua Community College is to provide a variety of degrees and professional certificates that respond to the needs of local and regional employers, while maintaining academic integrity. Degrees, certificates, and courses are designed to provide students with the opportunity to learn skills, theories, and practices that prepare students to be successful in business endeavors. Additionally, degrees, certificates, and courses are designed to fulfill the academic requirements to allow students to transfer into a variety of bachelor's degree programs.

The Associate in Science Degree in Business Administration in Marketing offers a mix of applied and theoretical courses. The objective of the program is to provide the knowledge students will need for successful marketing careers.

The Marketing courses prepare students for entry-level jobs in marketing, for future advancement into marketing management and for entrepreneurial opportunities. The curriculum builds a broad knowledge base in business that includes the latest ideas in marketing thought and practice:

- Marketing research, analysis and application
- Marketing strategies
- Integrated Marketing Communications

Most important, marketing students learn critical people management skills to build solid relationships with their clients. Elective marketing courses also permit individual students to develop a program for their specific interests.

For students looking to pursue an education beyond the associate degree, this program is designed to transfer to bachelor's degree programs.

Upon the completion of the degree in Business Administration, Marketing graduates will be able to:

1. Demonstrate the ability to apply principles of marketing management to problem-solving activities within corporate and small business scenarios.
2. Demonstrate the ability to research, analyze, develop and execute a theoretical marketing plan.
3. Demonstrate the ability to apply sales, promotions, merchandising, selling, and consumer behavior models to domestic and international business scenarios.
4. Demonstrate an understanding of opportunities and effects of integrated promotional efforts
5. Demonstrate an understanding of the importance of relationship marketing.
6. Demonstrate the ability to work cooperatively with team members to solve business problem scenarios.
7. Demonstrate the ability to use inductive and deductive logic in team settings to understand, solve, and present business problem solutions.
8. Demonstrate the ability to work with limited resources of time, money and human capital in developing effective marketing strategies.
9. Demonstrate a working knowledge of ratio analysis, statistical modeling, and quantitative research methods in developing product and pricing strategies to compete effectively through marketing campaigns.

In addition, the graduate will be able to demonstrate competency in the general education outcomes.

FIRST YEAR - FALL SEMESTER

| | | CL | LAB | CR |
|----------|--------------------------------------|----|-----|----|
| ACCT101N | Financial Accounting I | 4 | 0 | 4 |
| BUS101N | Introduction to Business | 3 | 0 | 3 |
| BCPT101N | Computer Technology and Applications | 2 | 2 | 3 |
| ENGL101N | College Composition | 4 | 0 | 4 |

Semester Credits: 14

FIRST YEAR - SPRING SEMESTER

| | | CL | LAB | CR |
|-------------------------------------|---------------------------|----|-----|----|
| BUS104N | Principles of Marketing | 3 | 0 | 3 |
| MATH106N | Statistics I | 4 | 0 | 4 |
| BUS213N | Principles of Advertising | 3 | 0 | 3 |
| General Education Elective: | | | | |
| | Behavioral Social Science | 3 | 0 | 3 |
| General Education Core Requirement: | | | | |
| | Science | 3 | 2/3 | 4 |

Semester Credits: 17

SECOND YEAR - FALL SEMESTER

| | | CL | LAB | CR |
|----------|-------------------------------------|----|-----|----|
| ECON201N | Microeconomics | 3 | 0 | 3 |
| BUS207N | Sales | 3 | 0 | 3 |
| BCPT119N | Software Applications | 2 | 2 | 3 |
| ENGL109N | Public Speaking | 3 | 0 | 3 |
| BUS215N | Integrated Marketing Communications | 3 | 0 | 3 |

Semester Credits: 15

SECOND YEAR - SPRING SEMESTER

| | | CL | LAB | CR |
|-------------------------------------|---|----|-----|----|
| BUS240N | Business Law | 3 | 0 | 3 |
| BUS210N | Marketing Strategies: A Capstone Experience | 3 | 0 | 3 |
| SOCI101N | Introduction to Sociology | 3 | 0 | 3 |
| BUS294N | Marketing Internship | 1 | 8 | 3 |
| OR | | | | |
| XXXXxxxN | Open Elective* | 3 | 0 | 3 |
| General Education Core Requirement: | | | | |
| | Humanities / Fine Arts or Global Awareness | 3 | 0 | 3 |

Semester Credits: 15

Total 61 Credits

*Consult with advisor



Associate in Science Degree in Business Administration: Small Business Entrepreneurship (Day/Evening/Online Program)

The mission of the Department of Business at Nashua Community College is to provide a variety of degrees and professional certificates that respond to the needs of local and regional employers, while maintaining academic integrity. Degrees, certificates, and courses are designed to provide students with the opportunity to learn skills, theories, and practices that prepare students to be successful in business endeavors. Additionally, degrees, certificates, and courses are designed to fulfill the academic requirements to allow students to transfer into a variety of bachelor degree programs.

The Associate in Science Degree in Business Administration curriculum in Small Business Entrepreneurship offers a mix of applied and theoretical courses. The objective of the program is to provide the knowledge students will need for successful careers as owners of a small business.

This option should be considered by students who desire to learn the methods and processes of starting a small business enterprise or by those individuals who seek to manage a small company or family-owned business.

Topics of study include:

- Developing the idea
- Describing the business to potential investors
- Preparing a comprehensive Business Plan
- Marketing the idea
- Critical cash flow analysis

For students looking to pursue an education beyond the associate degree, this program is designed to transfer to bachelor degree programs.

Upon the completion of the degree in Business Administration, Small Business Entrepreneurship graduates will be able to:

1. Demonstrate the capability and initiative to identify entrepreneurial opportunities, as well as assessing and evaluating risks by developing a theoretical business plan.
2. Demonstrate the ability to prepare, communicate, and present a business plan to a professional audience.
3. Demonstrate the ability to conceptualize, plan, finance, manage, and grow a mock small business.
4. Demonstrate a working knowledge of research and analytical skills necessary by developing a comprehensive business plan for a successful new business venture.
5. Demonstrate the ability to develop tactical, operational, and strategic plans.
6. Demonstrate the ability to use and understand the basic financial statements according to the generally accepted accounting principles in order to manage the efficient and effective use of company resources.
7. Demonstrate the ability to utilize promotional and public relations concepts, theories and models to develop marketing strategies.
8. Demonstrate the ability to synthesize previous coursework while assessing management strengths and weaknesses of business entities.

In addition, the graduate will be able to demonstrate competency in the general education outcomes.

FIRST YEAR - FALL SEMESTER

| | | CL | LAB | CR |
|-------------------------------------|--------------------------------------|----|-----|----|
| ACCT101N | Financial Accounting I | 4 | 0 | 4 |
| BCPT101N | Computer Technology and Applications | 2 | 2 | 3 |
| ENGL101N | College Composition | 4 | 0 | 4 |
| General Education Core Requirement: | | | | |
| | Behavioral Social Science | 3 | 0 | 3 |

Semester Credits: 14

FIRST YEAR - SPRING SEMESTER

| | | CL | LAB | CR |
|-------------------------------------|--------------------------|----|-----|----|
| ACCT102N | Financial Accounting II | 4 | 0 | 4 |
| BUS110N | Principles of Management | 3 | 0 | 3 |
| BUS104N | Principles of Marketing | 3 | 0 | 3 |
| General Education Core Requirement: | | | | |
| | English / Communications | 3 | 0 | 3 |
| | MATH106N Statistics I | 4 | 0 | 4 |

Semester Credits: 17

SECOND YEAR - FALL SEMESTER

| | | CL | LAB | CR |
|-------------------------------------|--|----|-----|----|
| BUS207N | Sales | 3 | 0 | 3 |
| BCPT216N | Desktop Publishing | 2 | 2 | 3 |
| BUS213N | Principles of Advertising | 3 | 0 | 3 |
| BCPT119N | Software Applications | 2 | 2 | 3 |
| General Education Core Requirement: | | | | |
| | Humanities / Fine Arts or Global Awareness | 3 | 0 | 3 |

Semester Credits: 15

SECOND YEAR - SPRING SEMESTER

| | | CL | LAB | CR |
|-------------------------------------|---|----|-----|----|
| BUS201N | Human Resources Management | 3 | 0 | 3 |
| CSC1102N | Website Development I | 2 | 2 | 3 |
| BUS204N | Small Business Management: A Capstone Experience | 3 | 0 | 3 |
| BUS290N | Management/Small Business Entrepreneurship Internship | 1 | 8 | 3 |
| OR | | | | |
| XXXXxxxN | Open Elective** | 3 | 0 | 3 |
| General Education Core Requirement: | | | | |
| | Science | 3 | 2/3 | 4 |

Semester Credits: 16

Total 62 Credits

**Consult with advisor



Business Studies Certificates

The Accounting Certificate programs are designed to provide the basic accounting skills required for clerical and entry-level positions, or to improve the existing accounting skills of individuals who seek promotional opportunities. Credits earned in the Certificate programs can be applied to the Associate in Science in Business Administration curriculum with a specialization in Accounting.

Accounting Certificate I Fall Semester

| | | CL | LAB | CR |
|----------|--------------------------------------|----|-----|----|
| ACCT101N | Financial Accounting I | 4 | 0 | 4 |
| BCPT101N | Computer Technology and Applications | 2 | 2 | 3 |
| ACCT102N | Financial Accounting II | 4 | 0 | 4 |
| BCPT208N | Spreadsheets: Excel | 2 | 2 | 3 |

Total 14 Credits

Accounting Certificate II (Prerequisite: Completion of Accounting Certificate I) Spring Semester

| | | CL | LAB | CR |
|----------|--------------------------------|----|-----|----|
| ACCT201N | Intermediate Accounting I | 4 | 0 | 4 |
| ACCT214N | Accounting Information Systems | 3 | 0 | 3 |
| ACCT202N | Intermediate Accounting II | 4 | 0 | 4 |
| ACCT206N | Cost Accounting | 4 | 0 | 4 |

Total 15 Credits

Accounting Certificate III

| | | CL | LAB | CR |
|---|--------------------------------------|----|-----|----|
| ACCT101N | Financial Accounting I | 4 | 0 | 4 |
| ACCT102N | Financial Accounting II | 4 | 0 | 4 |
| BUS110N | Principles of Management | 3 | 0 | 3 |
| BCPT101N | Computer Technology and Applications | 2 | 2 | 3 |
| BCPT208N | Spreadsheets: Excel | 2 | 2 | 3 |
| ACCT201N | Intermediate Accounting I | 4 | 0 | 4 |
| ACCT202N | Intermediate Accounting II | 4 | 0 | 4 |
| ACCT206N | Cost Accounting | 4 | 0 | 4 |
| General Education Core Requirement: Quantitative Literacy * | | 4 | 0 | 4 |

Total 33 Credits

*MATH106N or MATH115N is recommended.

Computer Information Systems Certificate

| | | CL | LAB | CR |
|----------|--------------------------------------|----|-----|----|
| BCPT101N | Computer Technology and Applications | 2 | 2 | 3 |
| BCPT204N | Word Processing: Word | 2 | 2 | 3 |
| BCPT208N | Spreadsheets: Excel | 2 | 2 | 3 |
| BCPT213N | Database Management: Access | 2 | 2 | 3 |
| BCPT216N | Desktop Publishing | 2 | 2 | 3 |
| CSCI102N | Website Development I | 2 | 2 | 3 |

Total 18 Credits

Marketing Certificate

| | | CL | LAB | CR |
|---------|-------------------------------------|----|-----|----|
| BUS104N | Principles of Marketing | 3 | 0 | 3 |
| BUS213N | Principles of Advertising | 3 | 0 | 3 |
| BUS215N | Integrated Marketing Communications | 3 | 0 | 3 |
| BUS210N | Marketing Strategies | 3 | 0 | 3 |
| BUS207N | Sales | 3 | 0 | 3 |

Total 15 Credits

Small Business Management Certificate (Day/Evening Program)

Small business functions will be studied in detail including financial operations, personnel requirements, management, and marketing.

| | | CL | LAB | CR |
|----------|--------------------------------------|----|-----|----|
| ACCT101N | Financial Accounting I | 4 | 0 | 4 |
| BUS104N | Principles of Marketing | 3 | 0 | 3 |
| BUS110N | Principles of Management | 3 | 0 | 3 |
| BCPT101N | Computer Technology and Applications | 2 | 2 | 3 |
| CSCI102N | Website Development I | 2 | 2 | 3 |
| BUS201N | Human Resources Management | 3 | 0 | 3 |
| BUS204N | Small Business Management | 3 | 0 | 3 |

Total 22 Credits

Spreadsheet Certificate

| | | CL | LAB | CR |
|---|--------------------------------------|----|-----|----|
| BCPT101N | Computer Technology and Applications | 2 | 2 | 3 |
| ACCT101N | Financial Accounting I | 4 | 0 | 4 |
| BCPT119N | Software Applications | 2 | 2 | 3 |
| BCPT208N | Spreadsheets: Excel | 2 | 2 | 3 |
| General Education Core Requirement: Quantitative Literacy * | | 4 | 0 | 4 |

Total 17 Credits

*MATH106N or MATH115N is recommended.

Associate in Science Degree in Collision Repair Technology (Day Program)

The Collision Repair Technology Program is designed to provide students with the skills necessary to enter the collision repair industry. The Collision Repair student will study the theory of repair and actually perform each of the different types of repairs (panel replacement, frame straightening, refinishing, etc.) on damaged vehicles.

The students will work in a controlled, safe environment and have hands-on training on modern equipment including:

- A heated, down-draft spray booth
- A drive-on frame straightening machine and universal measuring system
- An environmentally friendly waterborne paint mixing system
- HVLP Spray Equipment

Graduates of this program will satisfy an industry need for well-educated and technically-trained people. Typical positions available in the collision industry include:

- Collision Repair Technician
- Refinish Technician
- Automotive Frame Technician
- Automobile Damage Estimator
- Shop Manager
- Sales Representative
- Automotive Detailer

In addition to the general admission requirements, Collision Repair Technology applicants should be aware of the following criteria:

1. A minimum of one year of high school Algebra I is recommended.
2. Basic skills in written English are required.
3. A basic automotive tool kit and roll cabinet are required. Accepted students needing tools may purchase tool kits at a college-sponsored Tool Day in August at a substantial discount. Approximate tool kit cost to the student is between \$2,500 and \$4,800 depending on the manufacturer. Prices are subject to change.
4. Students are expected to possess a good work ethic and a strong desire to learn.
5. A valid driver's license is required.

Students should familiarize themselves with the Industry and Transportation General Education Policies located in the General Education Policies section of this Catalog

Technical Standards: Please refer to Technical Standards section in this catalog for details regarding this program.

Upon the completion of the degree in Collision Repair Technology, graduates will be able to:

1. Evaluate, diagnose, and repair various automotive systems using NATEF guidelines.
2. Use technology and basic scientific principles for research and problem solving.
3. Employ effective written and oral communication skills.
4. Employ effective technical writing skills.
5. Utilize mathematical logic and analysis for problem solving.
6. Understand the connections between individuals and society.
7. Have the ability to achieve ASE Master Certification.
8. Perform reading skills at a college level.
9. Demonstrate effective interpersonal skills.

In addition, the graduate will be able to demonstrate competency in the general education outcomes.

FIRST YEAR - FALL SEMESTER

| | | CL | LAB | CR |
|-------------------------------------|-------------------------------------|----|-----|----|
| CRTN101N | Basic Collision Repair** | 2 | 4 | 4 |
| CRTN102N | Introduction to Collision Repair**3 | 0 | 0 | 3 |
| CRTN105N | Basic Automotive Refinishing** | 2 | 4 | 4 |
| ENGL101N | College Composition | 4 | 0 | 4 |
| General Education Core Requirement: | | | | |
| | Quantitative Literacy | 4 | 0 | 4 |
| Semester Credits: 19 | | | | |

FIRST YEAR - SPRING SEMESTER

| | | CL | LAB | CR |
|-------------------------------------|-------------------------------------|----|-----|----|
| CRTN125N | Intermediate Automotive Refinishing | 2 | 4 | 4 |
| CRTN135N | Mechanical/Electrical Systems I | 2 | 3 | 3 |
| CRTN140N | Collision Repair Welding** | 2 | 3 | 3 |
| CRTN151N | Intermediate Collision Repair | 2 | 4 | 4 |
| General Education Core Requirement: | | | | |
| | English / Communications | 3 | 0 | 3 |
| Semester Credits: 17 | | | | |

SECOND YEAR - FALL SEMESTER

| | | CL | LAB | CR |
|-----------------------------|----------------------------------|----|-----|----|
| CRTN201N | Advanced Collision Repair | 2 | 6 | 4 |
| CRTN210N | Structural Analysis & Repair | 2 | 6 | 4 |
| CRTN211N | Structural Analysis & Measuring2 | 3 | 0 | 3 |
| CRTN235N | Mechanical Electrical Systems II | 2 | 3 | 3 |
| PHYS101N | Physical Science I | 3 | 2 | 4 |
| Semester Credits: 18 | | | | |

SECOND YEAR - SPRING SEMESTER

| | | CL | LAB | CR |
|-------------------------------------|--|----|-----|----|
| CRTN225N | Advanced Automotive Refinishing | 2 | 6 | 4 |
| CRTN230N | Estimating and Customer Service: A Capstone Experience | 3 | 0 | 3 |
| CRTN245N | Mechanical/Electrical Systems III | 2 | 3 | 3 |
| General Education Core Requirement: | | | | |
| | Behavioral Social Science | 3 | 0 | 3 |
| OR | | | | |
| General Education Core Requirement: | | | | |
| | History/Political Science | 3 | 0 | 3 |
| General Education Core Requirement: | | | | |
| | Humanities / Fine Arts or Global Awareness | 3 | 0 | 3 |
| Semester Credits: 16 | | | | |

Total 70 Credits

**A student must earn a 'C' or better to achieve a passing grade in this course.

Collision Repair Technology Certificate

FALL SEMESTER

| | | CL | LAB | CR |
|----------|-----------------------------------|----|-----|----|
| CRTN101N | Basic Collision Repair* | 2 | 4 | 4 |
| CRTN102N | Introduction to Collision Repair* | 3 | 0 | 3 |
| CRTN105N | Basic Automotive Refinishing* | 2 | 4 | 4 |

Semester Credits: 11

SPRING SEMESTER

| | | CL | LAB | CR |
|----------|-------------------------------------|----|-----|----|
| CRTN125N | Intermediate Automotive Refinishing | 2 | 4 | 4 |
| CRTN135N | Mechanical/Electrical Systems I | 2 | 3 | 3 |
| CRTN140N | Collision Repair Welding* | 2 | 3 | 3 |
| CRTN151N | Intermediate Collision Repair | 2 | 4 | 4 |

Semester Credits: 14

Total Credits: 25

* Student must earn a 'C' or better to achieve a passing grade in this course.

Associate in Arts Degree in Communications

(Day/Evening Program)

The Associate in Arts Degree in Communications has been developed to provide the first two years of preparation for a student wishing to complete a bachelor degree with a major in communication or media studies, or journalism.

Students selecting the Communications degree must have strong writing, critical thinking and application skills in order to be successful in this program.

Career tracks for the Communications major include print or broadcast reporter or editor, public relations specialist, advertising, social media, educator, among many other choices.

All students in the program are required to meet the requirements of the following courses to remain in the Communications degree: ENGL101N College Composition (minimum grade of B- required) Note: transfer or Running Start credit requires a minimum grade of B-; comparable CLEP score is 55-58 or ENGL110N Honors Expository Writing
COMM101N Introduction to Media Studies and COMM115N Introduction to Media Writing (minimum grade of B- is required to remain in the Communications program)

Students are encouraged to work closely with their academic advisor while at NCC. An early decision by the student as to which four-year college/university he/she plans to transfer will make the advising process more effective. Students planning to transfer into a Communications program at a four-year institution are encouraged to contact that institution's transfer admission office to review specific curriculum requirements.

FIRST YEAR - FALL SEMESTER

| | | CL | LAB | CR |
|----------|---|----|-----|----|
| ENGL101N | College Composition | 4 | 0 | 4 |
| ANTH105N | Ethnography of Work -OR- General Education Core Requirement: | 3 | 0 | 3 |
| | Behavioral Social Science | 3 | 0 | 3 |
| MATH106N | Statistics I | 4 | 0 | 4 |
| POLS102N | American Government & Politics | 3 | 0 | 3 |

Semester Credits: 14

FIRST YEAR - SPRING SEMESTER

| | | CL | LAB | CR |
|----------|---|----|-----|----|
| COMM101N | Introduction to Media Studies | 3 | 0 | 3 |
| | General Education Core Requirement: Science | 3 | 2/3 | 4 |
| ENGL109N | Public Speaking | 3 | 0 | 3 |
| | General Education Elective (or Core Requirement): Quantitative Literacy* | 4 | 0 | 4 |
| | General Education Core Requirement: Humanities/Fine Arts or Global Awareness | 3 | 0 | 3 |

Semester Credits: 17

SECOND YEAR - FALL SEMESTER

| | | CL | LAB | CR |
|----------|---|----|-----|----|
| COMM115N | Introduction to Media Writing | 3 | 0 | 3 |
| | General Education Elective (or Core Requirement): Humanities/Fine Arts or Global Awareness** | 3 | 0 | 3 |
| | General Education Elective (or Core Requirement): Science | 3 | 2/3 | 4 |
| COMMxxxN | Communications Elective | 3 | 0 | 3 |
| POLS220N | American Politics & Mass Media | 3 | 0 | 3 |

Semester Credits: 16

SECOND YEAR - SPRING SEMESTER

| | | CL | LAB | CR |
|----------|---------------------------|----|-----|----|
| COMMxxxN | Communications Elective | 3 | 0 | 3 |
| COMMxxxN | Communications Elective | 3 | 0 | 3 |
| ARTS120N | Graphic Design Theory | 3 | 0 | 3 |
| COMMxxxN | Communications Elective | 3 | 0 | 3 |
| COMM285N | Communications Internship | 1 | 8 | 3 |

Semester Credits: 15

Total 62 Credits

A minimum of 60 credits must be earned in the required categories to complete the program of studies. A minimum of 15 credits must be earned at Nashua Community College, and 8 of those 15 credits must be earned in courses at the 200 level.

*MATH103N recommended, **HUMA140N recommended

Upon the completion of the degree in Communications, graduates will be able to:

- Display a professional work ethic as a result of adhering to the principle of objectivity.
- Identify and understand the purpose of various media types.
- Understand the global impact of the media.

In addition, the graduate will be able to demonstrate competency in the general education outcomes.

Associate in Science Degree in Computer Networking

(Day/Evening/Online Program)

The Computer Networking associate degree provides a solid foundation to begin or advance in a career in information technology. Additionally, it can serve as a launch point for those who wish to continue on to a bachelor degree. This degree is for those who wish to develop the "hands on" skills that are required to function in a high tech environment. The core courses all integrate conceptual understanding with practical lab applications.

There are three general areas of career preparation:

- Supporting end users with their PCs, peripherals and applications
- Building and maintaining the infrastructure that provides the connectivity between computers and other devices in homes, businesses, and throughout the Internet
- Administering the servers (both Windows and Linux) that host network resources

Part of the core program is the Cisco Networking Academy, which covers all of the requirements to obtain the coveted CCNA (Cisco Certified Networking Associate) certification. This includes extensive lab work with configuration of Cisco routers and switches.

In addition to technical skills, the successful graduates learn the skills required to communicate and interact successfully with end users, customers, colleagues and supervisors.

Technical Standards: Please refer to Technical Standards for details regarding this program.

Upon the completion of the degree in Computer Networking, graduates will be able to:

1. Design, administer and troubleshoot network along with its underlying infrastructure.
2. Use critical thinking skills to solve networking and computer systems problems.
3. Be able to design, assemble, configure and troubleshoot computer hardware including workstations, servers, routers, switches and other networking devices.
4. Install, configure and manage operating system: Windows, Linux/Unix, IOS and other related networking systems.
5. Manage services, user accounts and security of a system.
6. Be familiar with basic programming, scripting and database concepts.
7. Communicate effectively with technical and nontechnical staff.
8. Work well as a member of a team.

In addition, the graduate will be able to demonstrate competency in the general education outcomes.

FIRST YEAR - FALL SEMESTER

| | | CL | LAB | CR |
|-------------------------------------|---|----|-----|----|
| ENGL101N | College Composition | 4 | 0 | 4 |
| CSCN101N | Computer Architecture and Operating Systems | 2 | 3 | 3 |
| CSCN104N | Introduction to Telecommunications | 2 | 2 | 3 |
| CSCN116N | Networking Basics | 2 | 2 | 3 |
| General Education Core Requirement: | | | | |
| | Behavioral Social Science | 3 | 0 | 3 |
| OR | | | | |
| General Education Core Requirement: | | | | |
| | History / Political Science | 3 | 0 | 3 |

Semester Credits: 16

FIRST YEAR - SPRING SEMESTER

| | | CL | LAB | CR |
|-------------------------------------|----------------------------------|----|-----|----|
| CSCN216N | Routing and Switching Essentials | 3 | 3 | 4 |
| CSCI161N | Intro to Programming | 2 | 2 | 3 |
| | Elective in Major* | 2 | 2 | 3 |
| General Core Education Requirement: | | | | |
| | Quantitative Literacy * | 4 | 0 | 4 |
| CSCN170N | Linux Essentials | 2 | 2 | 3 |

Semester Credits: 17

SECOND YEAR - FALL SEMESTER

| | | CL | LAB | CR |
|-------------------------------------|-------------------------------|----|-----|----|
| CSCN204N | Administering Windows Servers | 2 | 2 | 3 |
| CSCN217N | Scaling Networks | 2 | 2 | 3 |
| General Education Core Requirement: | | | | |
| | English/Communications | 3 | 0 | 3 |
| General Education Core Requirement: | | | | |
| | Science** | 3 | 2/3 | 4 |
| | Elective in the Major* | 2 | 2 | 3 |

Semester Credits: 16

SECOND YEAR - SPRING SEMESTER

| | | CL | LAB | CR |
|-------------------------------------|--|----|-----|----|
| CSCN210N | Advanced Windows Servers | 2 | 2 | 3 |
| | Elective in the Major* | 2 | 2 | 3 |
| General Education Core Requirement: | | | | |
| | Humanities / Fine Arts or Global Awareness | 3 | 0 | 3 |
| CSCN290N | Computer Science Internship | 1 | 8 | 3 |
| OR | | | | |
| CSCN286N | Networking Capstone Project | 3 | 0 | 3 |
| OR | | | | |
| CSCN250N | CCNA Security | 2 | 2 | 3 |

Semester Credits: 12

Total 61 Credits

*Includes CSCN, ELET or BCPT courses

**Science elective must be 4 credits

Computer Sciences Certificates

COMPUTER NETWORKING CERTIFICATE

(Day/Evening/Online Program)

This certificate teaches the skills necessary to provide IT support in a network environment. It begins with computers as the end devices in a computer network. Part of this certificate, utilizing curriculum developed by Cisco Systems, teaches students to design, implement, and maintain the local and wide area network infrastructure. This includes all of the skills necessary to achieve CCENT or CCNA certification. The other courses include the skills to place servers on that infrastructure in order to provide many of the network services that are expected today.

| | | CL | LAB | CR |
|---|---|----|-----|----|
| CSCN101N | Computer Architecture and Operating Systems | 2 | 3 | 3 |
| CSCN116N | Networking Basics | 2 | 2 | 3 |
| CSCN216N | Routing and Switching Essentials | 3 | 3 | 4 |
| CSCN217N | Scaling Networks | 2 | 2 | 3 |
| CSCN170N | Linux Essentials | 2 | 2 | 3 |
| CSCN204N | Administering Windows Servers | 2 | 2 | 3 |
| Choice of CSCN105N, CSCN210N, or CSCN218N | | 2 | 2 | 3 |

Total 22 Credits

CYBERSECURITY NETWORKING CERTIFICATE

(Day/Evening Program)

The field of computer security is growing rapidly. The basis for this certificate will be the existing CISCO Academy program and their Security certification. We will include elements of the (ISC)2 and Comp TIA Security+. Students will be prepared to take jobs in the field of IT System Administration with emphasis on Network Security.

Upon completion of this certificate program students will be able to:

1. Set up and secure a small to medium size network.
2. Recognize the potential security threats facing modern network.
3. Secure network environment using firewalls, VPNs and other tools.
4. Monitor for signs of intrusion.
5. Perform configuration on routers, switches, and hardware security appliances.
6. Perform basic system administration, including management of system accounts.
7. Apply critical thinking skills in order to resolve troubleshooting and security issues.

| | | CL | LAB | CR |
|----------|----------------------------------|----|-----|----|
| CSCN116N | Networking Basics | 2 | 2 | 3 |
| CSCN150N | Fundamentals of Cybersecurity* | 2 | 2 | 3 |
| CSCN170N | Linux Essentials | 2 | 2 | 3 |
| CSCN204N | Administering Windows Servers | 2 | 2 | 3 |
| CSCN210N | Advanced Windows Servers | 2 | 2 | 3 |
| CSCN216N | Routing and Switching Essentials | 3 | 3 | 4 |
| CSCN217N | Scaling Networks | 2 | 2 | 3 |
| CSCN250N | CCNA Security | 2 | 2 | 3 |

Total 25 Credits

*This certificate is directed at professionals in the field who want to increase their specific knowledge of cybersecurity. Students who do not have any professional experience should take CSCN101N and CSCN104N before attempting this class.

INTERNET DEVELOPER CERTIFICATE

(Day/Evening Program)

The Internet Developer Certificate program is designed for working professionals wanting to supplement their existing software development skills with web application skills. An interview with the Web Application Development Program Coordinator is required for admission into the program. Students completing this certificate program will have knowledge of the following competencies:

1. Demonstrate the ability to create static or dynamic web sites in accordance with the web site's purpose utilizing graphic design concepts.
2. Understand the client/server model and the differences between developing software in this environment and the traditional environment.
3. Demonstrate the ability to develop client-side scripts, to validate form data locally or remotely, or modify the web page's content via the DOM.
4. Demonstrate the ability to develop server-side scripts to access and maintain data stored either in a flat file or a database.
5. Describe and draw Entity-Relationship diagrams in accordance with a stated problems needs.
6. Use the SQL query language to implement database schemas and the necessary referential integrity.
7. Use the SQL query language to query or update the data stored in the database relations.

| | | CL | LAB | CR |
|----------|--|----|-----|----|
| CSCI102N | Website Development I | 2 | 2 | 3 |
| CSCI103N | Website Development II | 2 | 2 | 3 |
| ARTS120N | Graphic Design Theory | 2 | 2 | 3 |
| CSCI201N | Client-Side Scripting Using JavaScript | 2 | 2 | 3 |
| CSCI206N | Server-Side Scripting Using PHP | 2 | 2 | 3 |
| CSCI207N | Database Design and Management | 2 | 2 | 3 |

Total 18 Credits

WEBSITE DESIGN CERTIFICATE

(Day/Evening Program)

The Website Design Certificate program is designed to teach the fundamental information needed to develop and maintain a website. Common web development tools, including HTML, graphics and multimedia are introduced as well as use of web servers and browsers. UNIX and its use and impact on the Internet will also be covered.

| | | CL | LAB | CR |
|----------|--|----|-----|----|
| CSCI106N | Introduction to Software and Web Development | 3 | 0 | 3 |
| CSCI102N | Website Development I | 2 | 2 | 3 |
| CSCI103N | Website Development II | 2 | 2 | 3 |
| CSCI161N | Introduction to Programming | 2 | 2 | 3 |
| CSCI175N | Programming Using C++ | 2 | 2 | 3 |
| CSCI201N | Client-Side Scripting Using JavaScript | 2 | 2 | 3 |
| CSCI206N | Server Side Scripting Using PHP | 2 | 2 | 3 |
| CSCI207N | Database Design and Management | 2 | 2 | 3 |

Total 24 Credits

Associate in Science Degree in Criminal Justice (Day Program)

The Criminal Justice degree program is designed to prepare students for careers in Law Enforcement, Corrections, Juvenile Justice, the Court system, and Homeland Security. In addition, it also serves as the academic foundation to transfer on to complete a baccalaureate degree. For those already in service, the program provides professional development for promotion or career enhancement purposes. The degree of Associate in Science with a major in Criminal Justice will be awarded upon completion of all requirements. Students with an associate degree in Criminal Justice qualify for employment in various city, county, and state criminal justice agencies, and in the rapidly-growing private industrial security field.

Technical Standards: Please refer to Technical Standards for details regarding this program.

Upon the completion of the certificate in Criminal Justice, graduates will be able to:

1. Employ effective written and oral communication skills.
2. Describe the components of the American criminal justice system, to include their history, functions, processes, and goals.
3. Understand the application of technology within the Criminal Justice System.
4. Understand the causes and effects of crime within our society.
5. Understand the fundamental principles and techniques of criminal investigation.
6. Describe the organization, management, and administration of criminal justice agencies at the local, state, and federal levels.
7. Explain juvenile justice system and the magnitude of juvenile delinquency in the United States.
8. Analyze the different components of the correctional system.
9. Discriminate between the roles of police officers, judges, prosecutors, defense attorneys, juries, and legislators in the application of criminal law.
10. Apply the theories and principles of the Criminal Justice system to their practical application within the components of the system.
11. Display the strong ethical qualities that reflect those within the field.

In addition, the graduate will be able to demonstrate competency in the general education outcomes.

FIRST YEAR - FALL SEMESTER

| | | | CL | LAB | CR |
|----------|----------------------------------|--|----|-----|----|
| ENGL101N | College Composition | | 4 | 0 | 4 |
| CRMJ101N | Introduction to Criminal Justice | | 3 | 0 | 3 |
| CRMJ102N | Criminology | | 3 | 0 | 3 |
| MATH106N | Statistics I | | 4 | 0 | 4 |
| SOCI101N | Introduction to Sociology | | 3 | 0 | 3 |

Semester Credits: 17

FIRST YEAR - SPRING SEMESTER

| | | | CL | LAB | CR |
|-------------------------------------|-------------------------------|---|----|-----|----|
| ENGL109N | Public Speaking | 3 | 0 | 3 | |
| General Education Core Requirement: | | | | | |
| | Science | | 3 | 2/3 | 4 |
| CRMJ121N | Criminal Investigations | | 3 | 0 | 3 |
| CRMJ122N | Law Enforcement Organizations | | 3 | 0 | 3 |
| PSYC101N | Introduction to Psychology | | 3 | 0 | 3 |

Semester Credits: 16

SECOND YEAR - FALL SEMESTER

| | | | CL | LAB | CR |
|----------|------------------------------|--|----|-----|----|
| POLS210N | State and Local Government | | 3 | 0 | 3 |
| CRMJ220N | Juvenile Justice | | 3 | 0 | 3 |
| CRMJ240N | Criminal Law and Prosecution | | 3 | 0 | 3 |
| HUMA230N | Ethics in the Workplace | | 3 | 0 | 3 |
| COMM102N | Principles of Communication | | 3 | 0 | 3 |

Semester Credits: 15

SECOND YEAR - SPRING SEMESTER

| | | | CL | LAB | CR |
|--|---------------------------------|---|----|-----|----|
| General Education Core Requirement -OR- Elective for Behavioral Social Science-OR- History / Political Science | | | | | |
| | | | 3 | 0 | 3 |
| CRMJ260N | Criminal Procedure | | 3 | 0 | 3 |
| CRMJ265N | Corrections | | 3 | 0 | 3 |
| CRMJ280N | Criminal Justice Internship | | | | |
| | OR | | | | |
| CRMJ285N | Criminal Justice Senior Project | 3 | | 0 | 3 |

Semester Credits: 12

Awarding of Associate Degree Total 60 Credits

Criminal Justice Certificate

This certificate is designed to prepare students for careers in Law Enforcement, the Court System, or Corrections. In addition, graduates of the certificate program may continue their education in undergraduate programs in Criminal Justice, Criminology or Homeland Security. For those already in service the program provides professional development for career advancement purposes. Students with a certificate in Criminal Justice qualify for employment in city, county, and state criminal justice agencies, and in the rapidly-growing private industrial security field.

Please note that dropping from a required program course may mean that the student will be out of sequence in program course offerings which may delay graduation. Students who begin the program in the spring semester or who need developmental course support should recognize that it may take longer to complete the program.

It is also important to note that many protective services careers have health and fitness requirements as well as other specific expectations. Individuals who have had difficulty with the law depending upon the nature of the problem may not be employable. Applicants who have any questions should discuss their concerns with an advisor prior to enrolling in this program.

Upon the completion of the certificate in Criminal Justice, graduates will be able to:

- Employ effective written and oral communication skills.
- Describe the components of the American criminal justice system, to include their history, functions, processes, and goals.
- Understand the application of technology within the Criminal Justice System.
- Understand the causes and effects of crime within our society.
- Employ effective technical writing skills.
- Understand the fundamental principles and techniques of criminal investigation.
- Describe the organization, management, and administration of criminal justice agencies at the local, state, and federal levels.

- Display the strong ethical qualities that reflect those within the field.

In addition, the graduate will be able to demonstrate competency in the general education outcomes.

FALL SEMESTER

| | | CL | LAB | CR |
|----------|----------------------------------|----|-----|----|
| ENGL101N | College Composition | 4 | 0 | 4 |
| CRMJ101N | Introduction to Criminal Justice | 3 | 0 | 3 |
| CRMJ102N | Criminology | 3 | 0 | 3 |
| MATH106N | Statistics I | 4 | 0 | 4 |
| SOCI101N | Introduction to Sociology | 3 | 0 | 3 |

Semester Credits: 17

SPRING SEMESTER

| | | CL | LAB | CR |
|-------------------------------------|-------------------------------|----|-----|----|
| ENGL109N | Public Speaking | 3 | 0 | 3 |
| General Education Core Requirement: | | | | |
| | Science | 3 | 2/3 | 4 |
| CRMJ121N | Criminal Investigations | 3 | 0 | 3 |
| CRMJ122N | Law Enforcement Organizations | 3 | 0 | 3 |
| PSYC101N | Introduction to Psychology | 3 | 0 | 3 |

Semester Credits: 16

Total 33 Credits

Associate in Science Degree in Culinary Arts

(Day Program)

The mission of the Culinary Arts Program is to prepare students for employment in commercial and institutional positions in the culinary industry and to provide the foundational skills for those who wish to take their passion for cooking to the next level of expertise, skill and knowledge.

The program is designed to meet current and future needs of the food service industry in which the demand for employment is high, employing more than nine million people annually in the United States. Students enrolled in the Culinary Arts program receive "hands-on" practical lab training paired with traditional academic culinary courses that are aligned with industry needs.

Upon the completion of the degree in Culinary Arts, graduates will be able to:

1. Work effectively in commercial food production environments such as restaurants, hotels and resorts, private clubs and institutional foodservice, catering, and other food-related businesses.

2. Apply skills in communication and interpersonal relationships, safety and sanitation, industry terminology, and leadership.
3. Utilize knowledge in many forms of cookery, hot and cold food preparation, soups and sauces, buffet presentations, dining room service, beverage management, and storeroom procedures.
4. Interpret weights and measurements, calculate and execute standard recipes, and understand and implement cost controls and inventories.
5. Demonstrate appropriate work ethic through proper conduct and dress.
6. Demonstrate the importance of diversity as it relates to food and culture.
7. Identify the benefits of continued professional growth.

In addition, the graduate will be able to demonstrate competency in the general education outcomes.

Technical Requirements for Culinary Arts students

COMMUNICATION

- Communicate effectively and professionally when interacting with peers, faculty, staff, and guests using the English language verbally and in written form.
- Follow verbal and written instructions
- Explain procedures, give directions, describe decisions, demonstrate listening skills, write reports, and follow directions.
- Speak clearly and distinctly.

PHYSICAL STRENGTH AND STAMINA

- Lift and move without assistance cookware typically found in a commercial kitchen and independently lift and move cookware containing product.
- Lift and move stock and supplies up to 50 pounds.
- Stand and move about kitchen/laboratory for up to eight hours.
- Complete cleaning responsibilities requiring stooping, bending, and climbing.
- Use a hand-held fire extinguisher.
- Lift and safely move pots, pans, stock pots, and small equipment.
- Lift and safely move pots, pans, stock pots containing hot food being prepared according to instructions.
- Lift and move bags and boxes of supplies weighing up to 50 pounds.
- Stand and move about in kitchen and dining areas during food preparation.
- Lift and transport trays with plated foods, china, and small wares.
- Serve and clear tables where guests are seated.

MOBILITY AND MOTOR SKILLS

- Move freely, quickly, and safely in a close environment.
- Work in coordination with other students.
- Move supplies between floor and standard height above head.
- Safely manipulate small wares, equipment, and equipment controls.
- Safely pour liquids including hot liquids.
- Safely handle hot foods.
- Perform repetitive tasks required in a commercial kitchen.
- Move from workstation to workstation near other students and equipment.
- Lift containers (bulk and prep) individually and in coordination with other students.
- Lift supplies from floor, pallet or table and place on storage racks.
- Remove supplies from storage racks above head at standard height.
- Hold containers such as pots and bowls while mixing and blending ingredients in those containers.
- Operate machinery and equipment safely and efficiently.
- Safely use knives and other commercial cooking equipment.
- Efficiently use whisking, dicing, and piping skills.

SENSORY

- Hear voice instructions in a noisy environment.
- Hear equipment alarms.
- Read meters and gauges.
- Read printed and written instructions and labels.
- Feel product texture.
- Distinguish smells and tastes.
- Handle a variety of foods including meat, seafood, and poultry.
- Hear instructor's voice in a noisy kitchen/lab environment.
- Hear food preparation equipment alarms.
- Read temperature and pressure gauges.
- Read ingredients labels.
- Taste and feel product to determine quality and doneness.
- Adjust flavor appropriately.
- Read MSDS documents.

INTERPERSONAL AND EMOTIONAL

- Work cooperatively with other students and instructors.
- Complete an equitable share of kitchen duties.
- Follow directions of instructors and fellow students.
- Remain calm in a stressful environment.
- Display characteristics of emotional stability.
- Self-manage medical and emotional conditions.

FIRST YEAR - FALL SEMESTER

| | | CL | LAB | CR |
|----------|------------------------------|----|-----|----|
| CULA103N | Culinary Skills & Procedures | 1 | 5 | 3 |
| CULA105N | Food Safety and Sanitation | 1 | 2 | 2 |
| CULA120N | Fundamentals of Baking | 1 | 4 | 3 |
| ENGL101N | College Composition | 4 | 0 | 4 |
| MATH103N | Quantitative Reasoning | 4 | 0 | 4 |

Semester Credits: 16

FIRST YEAR - SPRING SEMESTER

| | | CL | LAB | CR |
|----------|--|----|-----|----|
| CULA140N | Nutritional Cuisine | 3 | 0 | 3 |
| CULA145N | Menu Development and cost controls | 2 | 0 | 2 |
| CULA210N | Intermediate Food Preparation | 1 | 4 | 3 |
| CULA225N | Intermediate Baking | 1 | 4 | 3 |
| ENGL103N | Professional Writing and Presentations | 3 | 0 | 3 |

Semester Credits: 14

FIRST YEAR - SUMMER SEMESTER

| | | CL | LAB | CR |
|----------|----------------------|----|-----|----|
| CULA290N | Culinary Internship* | 1 | 8 | 3 |

Semester Credits: 3

SECOND YEAR - FALL SEMESTER

| | | CL | LAB | CR |
|-----------|---------------------------|----|-----|----|
| CULA211N | American Regional Cuisine | 1 | 4 | 3 |
| CULA222N | Classical Cuisine | 1 | 5 | 3 |
| CULA235AN | Customer Service I | 1 | 3 | 2 |
| PSYC130N | Human Relations | 3 | 0 | 3 |
| BIOL105N | Biology in Focus I | 3 | 3 | 4 |

Semester Credits: 15

SECOND YEAR - SPRING SEMESTER

| | | CL | LAB | CR |
|--|--------------------------------------|----|-----|----|
| CULA212N | International Cuisine | 1 | 6 | 4 |
| CULA215N | Garde Manger | 1 | 4 | 3 |
| CULA230N | Quality Food Production | 1 | 4 | 3 |
| CULA235BN | Customer Service II | 0 | 3 | 1 |
| CULA236N | Classic Baking and Plate Composition | 1 | 4 | 3 |
| General Education Core Requirement: Humanities/Fine Arts | | 3 | 0 | 3 |

Semester Credits:17

Total 65 Credits

*An approved uniform and knife set are required at the start of the program.

A student must earn a 'C' or better in Culinary Arts classes in order to progress to the next culinary class.

Associate in Science Degree in Cybersecurity Networking

(Day/Evening Program)

The Associate in Science Degree in Cybersecurity is designed to provide students with networking skills focused on the network security. It prepares students for entry-level positions as Network Security Specialists. Students will be able to set up and administer basic computer network systems and secure them against outside intrusion. This degree also prepares students to handle security incident responses. Students will be presented with materials necessary for Cisco CCNA Security certification, CompTIA Security+ and introductory elements of (ISC)2 security program.

Upon completion of the degree in Cybersecurity, graduates will be able to:

1. Set up and secure a small to medium-sized network.
2. Recognize the potential security threats facing the modern network.
3. Secure network environment using firewalls, VPNs and other tools.
4. Monitor for signs of intrusion and handle incident responses.
5. Perform configuration on routers, switches, and hardware security appliances.
6. Perform basic system administration including management of system accounts
7. Apply critical thinking skills in order to resolve troubleshooting and security issues.

In addition, the graduate will be able to demonstrate competency in the general education outcomes.

FIRST YEAR - FALL SEMESTER

| | | CL | LAB | CR |
|-------------------------------------|---|----|-----|----|
| ENGL101N | College Composition | 4 | 0 | 4 |
| CSCN101N | Computer Architecture and Operating Systems | 2 | 3 | 3 |
| CSCN104N | Introduction to Telecommunications | 2 | 2 | 3 |
| CSCN116N | Networking Basics | 2 | 2 | 3 |
| General Education Core Requirement: | | | | |
| | Behavioral Social Science | 3 | 0 | 3 |
| OR | | | | |
| General Education Core Requirement: | | | | |
| | History / Political Science | 3 | 0 | 3 |

Semester Credits: 16

FIRST YEAR - SPRING SEMESTER

| | | CL | LAB | CR |
|-------------------------------------|----------------------------------|----|-----|----|
| CSCN216N | Routing and Switching Essentials | 3 | 3 | 4 |
| CSCN150N | Fundamentals of Cybersecurity | 2 | 2 | 3 |
| CSCN170N | Linux Essentials | 2 | 2 | 3 |
| CSCI161N | Introduction to Programming | 2 | 2 | 3 |
| General Core Education Requirement: | | | | |
| | Quantitative Literacy * | 4 | 0 | 4 |

Semester Credits: 17

SECOND YEAR - FALL SEMESTER

| | | CL | LAB | CR |
|-------------------------------------|---|----|-----|----|
| CSCN204N | Administering Windows Servers | 2 | 2 | 3 |
| CSCN211N | Network Security Monitoring | 2 | 2 | 3 |
| CSCN217N | Scaling Networks | 2 | 2 | 3 |
| General Education Core Requirement: | | | | |
| | English/Communications | 3 | 0 | 3 |
| | General Education Core Requirement: Science** | 3 | 2/3 | 4 |

Semester Credits: 16

SECOND YEAR - SPRING SEMESTER

| | | CL | LAB | CR |
|-------------------------------------|--|----|-----|----|
| CSCN210N | Advanced Windows Servers | 2 | 2 | 3 |
| CSCN250N | CCNA Security | 2 | 2 | 3 |
| | Elective in the Major* | 2 | 2 | 3 |
| General Education Core Requirement: | | | | |
| | Humanities / Fine Arts or Global Awareness | 3 | 0 | 3 |

Semester Credits: 12

Total 61 Credits

*Includes CSCN, ELET or BCPT courses

**Science elective must be 4 credits

Associate in Science Degree in Early Childhood Education

(Evening Program)

The Associate Degree and Certificate in Early Childhood Education provide the theoretical studies and practical experiences that prepare the graduate to care for and teach children from infancy through age eight in a variety of early childhood education and care settings. Graduates may be qualified for employment opportunities in child development and child care programs, preschools, nurseries, head start, after school programs, and private kindergartens. Degree graduates may also be eligible for employment as a paraprofessional in the public school setting in kindergarten through third grade. For students looking to pursue an education beyond the associate degree, the degree program is designed to provide transferability to bachelor degree programs in Early Childhood Education. Students work closely with their academic advisor for proper course selection and sequencing to prepare for transferability.

The Early Childhood Education degree and certificate course curriculum follows the standards of the National Association of the Education of the Young Child Degree Standards for Preparing Early Childhood Professionals. The degree also provides general education courses that offer the student the opportunity to develop an understanding and knowledge of concepts and skills that support the development of the educated person. Supervised practicum field experiences provide direct experience with the young child in an early childhood setting. Future early childhood teachers are encouraged to gain extended practical experience with young children by completing observation experiences offered in many of the courses.

Students in this program are advised that to participate in the practicum field experience, and to gain employment working with young children, they must be free of criminal convictions as required by the NH Bureau of Child Care Licensing and the NH Department of Education. It is now required that students complete the fingerprinting process through State Police or DMV in order to participate in the ECE practicum field experience. The student may incur fees in meeting these requirements. The College must insure that students in the program do not put themselves or children in jeopardy during the practicum field experience

TECHNICAL STANDARDS

Technical Standards have been established to provide guidance to students as to skills and abilities required to function successfully in the program and ultimately in the Early Childhood Education profession. Applicants who feel they may not be able to meet one or more of the technical standards should contact department faculty to discuss individual cases.

The Early Childhood Education Department will seriously consider all academically qualified candidates provided that the technical standards can be met with or without reasonable accommodations. No essential technical standards will be waived or modified. Information on the Technical Standards for this program is also available in the Technical Standards section of this catalog.

Students in Early Childhood Education program must have sufficient strength, stamina, motor coordination and sensory capabilities to perform the following:

- Standing for sustained periods of time, walking, running, bending, and sitting on the floor to meet children's needs and accomplish tasks;
- Frequent lifting, moving and transferring children, especially infants and toddlers;
- Sufficient visual and hearing acuity to ensure a safe environment; and ability to respond quickly to children, colleagues, and professional partners in the event of emergency;
- Sufficient verbal ability to express and exchange information and ideas as well as to interpret important instructions to children, colleagues, professional partners, and parents;
- Sufficient skills in written expression to accurately record children's daily progress and milestones as well as medications administered, accident and suspected child abuse/neglect reports, etc.;
- Ability to work with frequent interruptions, to respond appropriately to unexpected situations including situations requiring immediate crisis response and role responsibility exchange; to demonstrate safe and required care for children, families, colleagues and the workplace as a whole; and to cope with substantial variations in workload and stress levels;
- Ability to consistently attend and participate in classes and practice in a timely manner;
- Ability to demonstrate and maintain organizational skills and time management in classes and at the practicum site;
- Ability to respond to children's personal needs, including changing diapers, in a manner that safeguards the health and safety of the student, children, and staff;
- Ability to work in a professional and respectful manner with a diverse range of children including children of different races, cultures, religions, and ethnicities as well as children with a wide range of disabling conditions;
- Ability to maintain proper boundaries in both the school and home environments; and
- Ability and disposition to adhere to and practice the Code of Ethical Conduct set forth by the National Association for the Education of Young Children.

NCC reserves the right to amend its technical standards at anytime and impose them on all current students.

Upon the completion of the degree in Early Childhood Education, graduates will be able to:

- Promote child development and learning: understanding young children's characteristics and needs, the multiple influences on their development and learning; and how to create healthy, respectful, supportive and challenging learning environments;
- Building family and community relationships: understanding diverse family and community characteristics through respectful, reciprocal relationship and involving them in their children's development and learning;
- Observe, document, and assess young children to support them and their families: understanding the goals, benefits and uses of various types of and then applying the appropriate assessment tools and approaches to promote positive outcomes for each child as well as to building partnerships with families and other professionals;
- Use developmentally effective approaches: to understand positive relationships and supportive interactions as the foundation of their work with young children. Know and understand effective strategies and tools for early education, including appropriate uses of technology. Using a broad repertoire of developmentally appropriate teaching /learning approaches. Be able to reflect on own practice to promote positive outcomes for each child;
- Use content knowledge to build meaningful curriculum: Understand content knowledge and resources in academic disciplines: language and literacy; the arts – music, creative movement, dance, drama, visual arts; mathematics; science, physical activity, physical education, health and safety; and social studies. Know and use the central concepts, inquiry tools, and structures of content areas or academic disciplines. Use own knowledge, appropriate early learning standards, and other resources to design, implement, and evaluate developmentally meaningful and challenging curriculum for each child;
- Become a professional: Identify and involve oneself with the early childhood field. Know about and uphold ethical standards and other early childhood professional guidelines. Engage in continuous, collaborative learning to inform practice; using technology effectively with young children, with peers, and as a professional resource. Integrate knowledgeable, reflective, and critical perspectives on early education.
- Engaging in informed advocacy: for young children and the early childhood profession.

In addition, the graduate will be able to demonstrate competency in the general education outcomes.

FIRST YEAR - FALL SEMESTER

| | | CL | LAB | CR |
|--|---|----|-----|----|
| ENGL101N | College Composition | 4 | 0 | 4 |
| ECE101N | Foundations of Early Childhood Education | 3 | 0 | 3 |
| ECE102N | Growth and Development of the Young Child | 3 | 0 | 3 |
| General Education Core Requirement: Quantitative Literacy | | | | |
| | | 4 | 0 | 4 |

Semester Credits: 14

FIRST YEAR - SPRING SEMESTER

| | | CL | LAB | CR |
|---|---|----|-----|----|
| ECE103N | Safe Healthy ECE Programs | 3 | 0 | 3 |
| ECE104N | Curriculum for Early Childhood Care and Education | 3 | 0 | 3 |
| ECE105N | Children with Special Needs and Their Families | 3 | 0 | 3 |
| PSYC101N | Introduction to Psychology | 3 | 0 | 3 |
| BIOL115N | Nutrition | 3 | 0 | 3 |
| OR | | | | |
| General Education Core Requirement: Science | | | | |
| | | 3 | 2/3 | 4 |

Semester Credits: 15/16

SECOND YEAR - FALL SEMESTER

| | | CL | LAB | CR |
|---|--|----|-----|----|
| ECE190N | Early Childhood Education Practicum I | 1 | 8 | 3 |
| ECE200N | Programs for Infants and Toddlers | 3 | 0 | 3 |
| ECE204N | Behavior Guidance and Classroom Management | 3 | 0 | 3 |
| ECE215N | Creativity & the Young Child | 3 | 0 | 3 |
| General Education Core Requirement: English / Communications | | | | |
| | | 3 | 0 | 3 |

Semester Credits: 15

SECOND YEAR - SPRING SEMESTER

| | | CL | LAB | CR |
|---|--|----|-----|----|
| ECE203N | Emerging Literacy in Early Childhood Education | 3 | 0 | 3 |
| ECE290N | Early Childhood Education Capstone Course | 1 | 8 | 3 |
| ECE230N | The ECE Profession and the ECE Portfolio | 2 | 0 | 2 |
| General Education Core Requirement: History / Political Science** | | | | |
| | | 3 | 0 | 3 |
| General Education Core Requirement: Humanities / Fine Arts or Global Awareness** | | | | |
| | | 3 | 0 | 3 |
| ECE201N | Organization and Management in Early Childhood Education** | 3 | 0 | 3 |
| OR | | | | |
| General Education Core Requirement: Behavioral Social Science** | | | | |
| | | 3 | 0 | 3 |

Semester Credits: 17

Total 61/62 Credits

**Students are advised to meet with their advisor to make appropriate elective selections based on their career goals and to facilitate the broadest range of transferability.

This degree meets requirements for State of New Hampshire DHHS Bureau of Child Development and Head Start Collaboration credential of Teacher Credential Level 5 or Administrator Level 1, with course ECE 201N Organization and Management in Early Childhood Education.

Early Childhood Education Certificate

This certificate will prepare the student to work directly in the early childhood child care and education environment. The courses in the certificate meet NH Child Care Licensing Requirements as well as provide knowledge in the Core Knowledge areas required for by NHDHHS, Child Care Bureau Credential. The course curriculum follows the standards of the National Association of the Education of the Young Child Degree Standards for Preparing Early Childhood Professionals.

Upon completion of the ECE certificate, students may enter NH Child Care and Early Childhood Education programs as lead teachers, associate level teacher, assistant level teacher.

| | | CL | LAB | CR |
|----------|--|-----------|------------|-----------|
| ENGL101N | College Composition | 4 | 0 | 4 |
| ECE101N | Foundations of Early Childhood Education | 3 | 0 | 3 |
| ECE102N | Growth and Development of the Young Child | 3 | 0 | 3 |
| ECE103N | Safe and Healthy Programs in Early Childhood Education | 3 | 0 | 3 |
| ECE104N | Curriculum for Early Childhood Care and Education | 3 | 0 | 3 |
| ECE190N | Early Childhood Education Practicum I | 1 | 8 | 3 |
| ECE230N | The ECE Profession and Professional Portfolio | 2 | 0 | 2 |
| ECE200N | Dev. App. Programs for Infants and Toddlers* | 3 | 0 | 3 |
| | OR | | | |
| ECE105N | Children with Special Needs and their Families* | 3 | 0 | 3 |
| | OR | | | |
| ECE204N | Guidance and Classroom Management* | 3 | 0 | 3 |

Total 24 Credits

Meets requirements for State of New Hampshire credential of Associate Level 4 Teacher.

* Students are advised to meet with their advisor and choose appropriate courses depending on their goals and work requirements.

Upon the completion of the Early Childhood Education Certificate, graduates will be able to:

1. Use their knowledge and understanding of the young child's development to provide opportunities and environments that support the physical, social, emotional, language, cognitive, and creative development and learning of children birth through age eight.
2. Understand, respect, and value the need for supportive relationships with the families of young children in relationship to the child's development and learning.
3. Understand and mindfully assist in and use informal and formal observation, documentation and assessment strategies and techniques to plan and individualize the learning environment, curriculum and teacher interactions and practices for young children.
4. Assist in the establishment and maintenance of positive and supportive relationships with young children in an environment that has been designed to be a physically, cognitively, emotionally, and psychologically respectful and healthy learning environment for all young children.
5. Demonstrate college-level proficiency in the skills of written and verbal communication.

In addition, the graduate will be able to demonstrate competency in the general education outcomes.

Associate in Arts Degree in Educator Preparation

(Day/Evening Program)

The Associate in Arts Degree in Educator Preparation offered by Nashua Community College is designed to prepare students to transfer to Educator Preparation Programs at four-year colleges and universities or to work as Paraeducators in school settings.

The Educator Preparation program uses the NH Department of Education Professional Educator Preparation Programs standards and the recommendations of the NH Task Force on Effective Teaching. The degree establishes requirements in three areas: 1) general education; 2) educator preparation; and 3) an area of concentration.

The general education area is a coherent and substantive balance in English and literature; science; mathematics; social science; and humanities/arts/world language. Educator Preparation course first help students determine if teaching is truly a career of interest; then to provide beginning knowledge, skills and dispositions of effective teachers as they prepare to transfer to four-year institutions; and finally to offer the entry-level courses which transfer to many four-year colleges/universities. At the beginning of their Educator Preparation program, all students should also select an area of concentration - this is their area of interest for teaching, such as reading, math, etc.

Field-based experiences are required in most Educator Preparation courses. Students are expected to provide their own transportation to these sites. Professional language, behavior and dress are expected at all sites. Students must demonstrate that they have sufficient social, emotional, and physical ability to respond quickly and appropriately to unexpected student and classroom situations. Please refer to Technical Standards for details regarding this program.

Students must complete a NH Criminal History Background check when first enrolling in the Educator Preparation Program at NCC. Criminal History Records Release Forms are available on each course's Canvas site. There is a fee for this. Students may not participate in field experiences until they have submitted their forms to the NH Department of Safety, Division of State Police.

NCC Students are required to take the Praxis Core of Academic Skills for Educators prior to graduation. Students should be aware that college admissions to four/five year Educator Preparation programs require a passing score on the Praxis and most require a GPA of 2.5 or higher. Electives should be taken that assure students are able to meet these requirements.

Because each four/five year institution has unique requirements for its Educator Preparation program, it is imperative that early in their college career, students consider to which institutions they may wish to transfer to be prepared with the appropriate course requirements for transfer. Students should contact NCC Academic Advising or the Coordinator of Educator Preparation to be sure their planned program will prepare them for their futures.

Upon completion of the Associate Degree Arts in Educator Preparation, graduates will be able to:

1. Apply a beginning understanding of the teaching profession in regard to its historical context, the implications of the profession, and the role played by various educational delivery systems in contemporary society to their future plans in education;
2. Compose a beginning philosophy of education that incorporates:
 - a. Incorporates relevant theories of educational philosophy,
 - b. Includes at least one major model of education and explains how it aligns to one theory of education,
 - c. addresses the needs of diverse learners in the 21st century classroom environment, and
 - d. is aligned with the standards outlined by the New Hampshire Department of Education, the Interstate Teacher Assessment and Support Consortium (InTASC,) and other state and national boards;
3. Apply comprehensive knowledge and skills of literature, science, mathematics, social sciences, and humanities/fine arts/world language to the ways in which society transfers such knowledge to its youth;
4. A paper on a topic of current educational significance, demonstrating the graduate's ability to make informed decisions in regard to an in-depth study in a particular area of interest based on the student's chosen goals, teaching field, and the need for continued learning;
5. Create a portfolio that demonstrates beginning knowledge of the skills and dispositions of a highly effective teacher based upon the NH Department of Education Certification requirement, In TASC Standards, and related state and national standards;
6. Create a lesson plan for instruction that aligns with content standards outlined by the New Hampshire Department of Education for the student's intended area of endorsement.

EDUCATOR PREPARATION PROGRAM

FIRST YEAR - FALL SEMESTER

| | | CL | LAB | CR |
|--|--|----|-----|----|
| EDU130N | Foundations of Education | 3 | 0 | 3 |
| ENGL101N | College Composition | 4 | 0 | 4 |
| General Education Core Requirement: | | | | |
| | History/Political Science (HIST140N or HIST141N recommended) | 3 | 0 | 3 |
| General Education Core Requirement: Science* (Lab Science required) | | | | |
| | | 3 | 2/3 | 4 |
| General Education Core Requirement: | | | | |
| | Humanities/Fine Arts OR Global Awareness* | 3 | 0 | 3 |
| Semester Credits: 17 | | | | |

FIRST YEAR - SPRING SEMESTER

| | | CL | LAB | CR |
|---|--|----|-----|----|
| EDU132N | Introduction to Exceptionalities | 3 | 0 | 3 |
| General Education Core Requirement: | | | | |
| | English/Communications* | 3 | 0 | 3 |
| Quantitative Literacy Core Requirement: | | | | |
| | MATH106N recommended) | 4 | 0 | 4 |
| General Education Core Requirement: | | | | |
| | Behavioral Social Science (PSYC 201N recommended) | 3 | 0 | 3 |
| Elective in area of concentration* | | 3 | 0 | 3 |
| Semester Credits: 16 | | | | |

SECOND YEAR - FALL SEMESTER

| | | CL | LAB | CR |
|---|--|----|-----|----|
| EDU231N | Teaching with Technology | 2 | 2 | 3 |
| General Education: Quantitative Literacy (MATH110N or higher recommended) | | | | |
| | | 4 | 0 | 4 |
| General Education Elective | | | | |
| | Humanities/Fine Arts OR Global Awareness* | 3 | 0 | 3 |
| General Education Elective: | | | | |
| | Behavioral Social Science* | 3 | 0 | 3 |
| Elective in Major (Education Elective Recommended*) | | 3 | 0 | 3 |
| Semester Credits: 16 | | | | |

SECOND YEAR - SPRING SEMESTER

| | | CL | LAB | CR |
|---|--|----|-----|----|
| EDU240N | Creating Positive Learning Environments | 3 | 0 | 3 |
| General Education Elective Humanities/Fine Arts OR Global Awareness* | | | | |
| | | 3 | 0 | 3 |
| General Education Core Requirement: Science (Lab Science Required)* | | | | |
| | | 3 | 2/3 | 4 |
| Elective in Major* | | 3 | 0 | 3 |
| Semester Credits: 13 | | | | |

Minimum Total Credits: 62

***Consult with advisor for transfer**

Students are advised to contact transfer institutions in order to make appropriate elective course selections. Please check with the Coordinator of Educator Preparation Program prior to registering.

Two lab science electives must be selected. (BIOL115N - Nutrition, does not satisfy this requirement). For some four/five year institutions, sequential science courses may be required. Other institutions require courses be taken from a variety of science disciplines.

Students planning on transferring to a four/five year institution in Educator Preparation must select an area of concentration aligned with their transfer institution's requirements. Several higher education institutions require two semesters of a second language.

In addition, the graduate will be able to demonstrate competency in the general education outcomes.

Students must take Praxis Core of Academic Skills test or equivalent prior to graduation. This should be a focus of the final semester.

PARA EDUCATOR II CERTIFICATES EARLY CHILDHOOD PARA EDUCATOR II CERTIFICATE

(Focus on K - Grade 3)

| | | CL | LAB | CR |
|----------|---|----|-----|----|
| ECE105N | Children with Special Needs and their Families | 3 | 0 | 3 |
| MATH103N | Quantitative Reasoning | 4 | 0 | 4 |
| OR | | | | |
| MATH110N | Algebra & Trigonometry | 4 | 0 | 4 |
| ENGL101N | College Composition | 4 | 0 | 4 |
| ECE204N | Behavior Guidance and Classroom Management in Early Childhood Education | 3 | 0 | 3 |
| ECE203N | Emerging Literacy in Early Childhood Education | 3 | 0 | 3 |

Total Credits 17

SCHOOL-AGED PARA EDUCATOR II CERTIFICATE

(Focus on Grades 3 - 12)

| | | CL | LAB | CR |
|----------|--|----|-----|----|
| ENGL101N | College Composition | 4 | 0 | 4 |
| EDU132N | Introduction to Exceptionalities | 3 | 0 | 3 |
| EDU135N | Supporting Reading and Writing Skills of Diverse Learners | 3 | 0 | 3 |
| MATH110N | Algebra & Trigonometry | 4 | 0 | 4 |
| EDU240N | Creating Positive Learning Environments | 3 | 0 | 3 |

Total Credits 17

Associate in Science Degree in Electronic Engineering Technology

(Day/Evening Program)

The Electronic Engineering Technology Program concentrates on the use of principles and theories of science, engineering and mathematics to solve technical problems in research and development, manufacturing, sales, construction, and maintenance. Through the use of modern electronic laboratories, the student will become familiar with the areas of electronics, including circuit analysis, analog and digital integrated circuits, discrete semiconductor devices, electronic communications and linear operational amplifier circuits. The student will also become familiar with Object Oriented C++ programming and embedded controllers using assembly language programming.

This program provides students with knowledge of currently established design and laboratory techniques.

The U.S. Department of Labor's Bureau of Statistics (BLS) reports that one of the top ten best paying jobs for individuals with an associate's degree is the Engineering Technician, with positive job growth at 5% expected through 2018.

In addition to the general admission requirements, Electronics Engineering Technology applicants should be aware of the following criteria:

Completion of high school Algebra I, Algebra II and Geometry are required. Other high school courses such as physics, chemistry, electronics and computer programming are recommended. Basic writing skills in English are required. Accepted students will be required to possess or purchase approximately \$100 of minor accessories.

The educational objectives of the Electronic Engineering Technology Associate Degree Program are to provide students with:

1. A broad understanding of fundamental engineering knowledge and technical skills to analyze and solve complex technical problems in the electronics industry.
2. Proficiency in digital and analog circuit analysis, circuit design and laboratory techniques used in the electronics industry.
3. Effective oral and written communications skills at a level of effectiveness expected in industry employees
4. An ability to ethically and professionally perform in business and society including a respect for diversity and a need to contribute to the community.
5. The skills needed to obtain competitively compensated entry-level positions and/or pursue admissions into programs of advanced study and/or lifelong learning.

Technical Standards: Please refer to Technical Standards for details regarding this program.

An agreement with UNH-Manchester will allow NCC students the option of an UNH-Manchester degree in electronic engineering technology and continue their coursework at UNH-Manchester to earn a Bachelor of Science degree in electrical engineering technology.

***Accredited by the Engineering Technology Accreditation Commission of ABET, <http://www.abet.org>.

FIRST YEAR - FALL SEMESTER

| | | CL | LAB | CR |
|----------|---------------------------------------|----|-----|----|
| ELET115N | Introduction to Programming Using C++ | 2 | 3 | 3 |
| ELET121N | Digital Circuits I | 2 | 3 | 3 |
| ELET131N | Circuit Analysis I | 3 | 3 | 4 |
| ENGL101N | College Composition | 4 | 0 | 4 |
| MATH110N | Algebra and Trigonometry | 4 | 0 | 4 |

Semester Credits: 18

FIRST YEAR - SPRING SEMESTER

| | | CL | LAB | CR |
|----------|---------------------|----|-----|----|
| ELET132N | Circuit Analysis II | 3 | 3 | 4 |
| ELET141N | Electronics I | 3 | 3 | 4 |
| ENGL122N | Technical Writing | 3 | 0 | 3 |
| MATH120N | Precalculus | 4 | 0 | 4 |
| PHYS130N | Physics I | 3 | 3 | 4 |

Semester Credits: 19

SECOND YEAR - FALL SEMESTER

| | | CL | LAB | CR |
|----------|---------------------|----|-----|----|
| ELET250N | MicroControllers | 3 | 3 | 4 |
| ELET241N | Electronics II | 3 | 3 | 4 |
| HUMA230N | Ethics in Workplace | 3 | 0 | 3 |
| MATH210N | Calculus I | 4 | 0 | 4 |
| PHYS131N | Physics II | 3 | 3 | 4 |

Semester Credits: 19

SECOND YEAR - SPRING SEMESTER

| | | CL | LAB | CR |
|----------|---------------------------|----|-----|----|
| ELET221N | Advanced Digital Circuits | 3 | 3 | 4 |
| ELET245N | Communications Theory and | 2 | 2 | 3 |
| OR | | | | |
| MATH211N | Calculus II | 4 | 0 | 4 |
| ELET274N | EET Capstone Project | 1 | 3 | 2 |
| PSYC130N | Human Relations | 3 | 0 | 3 |

OR
General Education Core Requirement Elective: Behavioral Social Science

Semester Credits: 12/16

Total 68/72 Credits

At the completion of the degree in Electronic Engineering Technology, graduates must demonstrate that they will be able to:

1. Utilize mathematics, physics and engineering knowledge to solve technical problems.
2. Apply analog and digital circuit design techniques to the building, testing, and maintenance of electrical/ electronic circuits.
3. Apply microcontrollers to the building, testing, operation, and maintenance of electrical/electronic circuits.
4. Analyze and interpret data to utilize for ongoing research or as part of a multi-step problem.
5. Demonstrate a respect for diversity and knowledge of contemporary professional, societal, and global issues.
6. Communicate effectively in written and oral formats.
7. Function effectively on teams.
8. Understand professional, ethical, and social responsibilities.
9. Demonstrate a commitment to quality, timeliness, and continuous improvement.

In addition, the graduate will be able to demonstrate competency in the general education outcomes.

Associate in Arts Degree in English

(Day/Evening Program)

The Associate in Arts Degree in English has been developed to provide the first two years of preparation for a student wishing to complete a bachelor degree with a major in English. Students who choose this program have the opportunity to plan their courses in one of the following focus areas:

- Literature
- Writing (professional and creative)

Students selecting English must have strong writing, critical thinking and application skills in order to be successful in this program. At a four-year transfer institution, the student may elect a major in English, textual studies, American studies or writing. Career tracks for an English major include education, writing, editing, reporting, law, publishing, and foreign service, among many other choices. All students in the program are required to complete the following courses:

- ENGL101N College Composition, ENGL110N Honors Expository Writing (minimum grade of B- required) (Note: transfer or Running Start credit requires a minimum grade of B-; comparable CLEP score is 55-58) or
- ENGL102N College Composition II: Writing About Literature
- ENGL105N Introduction to Literature
- Two semesters of sequential British literature courses (ENGL230N/ENGL231N)
- ENGL241N American Literature: Civil War to Present
- ENGL285N Topics in English Studies Seminar

Students are encouraged to work closely with their academic advisor while at NCC. An early decision by the student as to the four-year college/university to which he/she plans to transfer will make the advising process more effective. Students planning to transfer into an English program at a four-year institution are encouraged to contact that institution's transfer admission office to review specific curriculum requirements.

Upon the completion of the degree in English, graduates will be able to:

1. Create a connection of textual analysis to cross disciplinary subjects.
2. Display a professional work ethic as a result of adhering to completeness and timeliness requirements of the curriculum.

In addition, the graduate will be able to demonstrate competency in the general education outcomes.

****Suggested Electives for Four-Year Degree Focus:**

Literature

ENGL215N / ENGL240N

Writing

ENGL103N / ENGL122N / ENGL206N / ENGL235N

Speaking:

ENGL109N

Communications:

COMM101N, COMM102N, COMM115N, COMM120N, COMM125N,

COMM130N, COMM204N, COMM206N

FIRST YEAR - FALL SEMESTER

| | | CL | LAB | CR |
|--|---------------------|----|-----|----|
| ENGL110N | College Composition | 4 | 0 | 4 |
| MATH106N | Statistics I | 4 | 0 | 4 |
| General Education Core Requirement: | | | | |
| Behavioral Social Science | | 3 | 0 | 3 |
| General Education Core Requirement: | | | | |
| Humanities/Fine Arts or Global Awareness | | 3 | 0 | 3 |

Semester Credits: 14

FIRST YEAR - SPRING SEMESTER

| | | CL | LAB | CR |
|---|---|-----|-----|-----|
| ENGL102N | College Composition II: Writing About Literature | 3 | 0 | 3 |
| General Education Core Requirement: | | | | |
| History/Political Science | | 3 | 0 | 3 |
| General Education Elective (or Core Requirement): | | | | |
| Quantitative Literacy* | | 3/4 | 0 | 3/4 |
| General Education Elective (or Core Requirement): | | | | |
| Humanities/Fine Arts or Global Awareness | | 3 | 0 | 3 |
| ENGL105N | Introduction to Literature | 3 | 0 | 3 |

Semester Credits: 15/16

SECOND YEAR - FALL SEMESTER

| | | CL | LAB | CR |
|--|---|----|-----|----|
| General Education Core Requirement: Science | | | | |
| General Education Elective (or core Requirement): Behavioral Social Science OR History/Political Science | | 3 | 2/3 | 4 |
| ENGL230N | British Literature Middle Ages to 1800 | 3 | 0 | 3 |
| ENGL241N | American Literature Civil War to Present | 3 | 0 | 3 |
| ENGL/COMM Elective** | | 3 | 0 | 3 |

Semester Credits: 16

SECOND YEAR - SPRING SEMESTER

| | | CL | LAB | CR |
|---|--|----|-----|----|
| General Education Elective (or Core Requirement): Science | | | | |
| General Education Elective (or Core Requirement): Humanities/Fine Arts or Global Awareness | | 3 | 2/3 | 4 |
| ENGL231N | British Literature 1800 to Present | 3 | 0 | 3 |
| ENGL/COMM Elective** | | 3 | 0 | 3 |
| ENGL285N | Special Topics in English Studies Seminar | 3 | 0 | 3 |

Semester Credits: 16

Minimum 61/62 Credits

A minimum of 60 credits must be earned in the required categories to complete the program of studies. A minimum of 15 credits must be earned at Nashua Community College, and 8 of those 15 credits must be earned in courses at the 200 level.

*ECON201N/202N will satisfy the Quantitative Literacy elective for this major.

Associate in Science Degree in Foundations in Data Analytics

(Day/Evening/Online Program)

The Foundations in Data Analytics program provides a strong base for students interested in pursuing a baccalaureate degree in the area of data analytics. The combination of courses in mathematics with theoretical and applied software development courses provides the student with the necessary background for continued study in the data science field. Program content is reinforced with hands on experience, and students will be required to apply course content to applications from business and industry.

The outcomes of this program highlight the strong foundation in computing and mathematics needed by the student to succeed in data analytics at the bachelor's level. Upon completion, students will be prepared to complete the Bachelor of Science degree in Analytics with two years of additional study.

Technical Standards: Please refer to Technical Standards for details regarding this program.

Upon the completion of the degree in Foundations in Data Analytics, graduates will be able to:

1. Demonstrate technical proficiency and effective problem solving ability in completing mathematical processes.
2. Identify the benefits of quality, timeliness and continuous improvement in regards to software development
3. Apply critical-thinking skills to identify, analyze and solve problems.
4. Apply mathematical concepts to other disciplines including business, economics, social sciences, and the natural sciences.
5. Demonstrate the ability to follow a systematic progression of software development and refinement when designing and developing software for a project.
6. Participate effectively as a member of a team.
7. Articulate an understanding of the need for life-long learning.
8. Demonstrate an understanding of diversity through interaction with project teammates.
9. Develop software programs that reflect the application of up-to-date tools and techniques of the discipline.

In addition, the graduate will be able to demonstrate competency in the general education outcomes.

FIRST YEAR - FALL SEMESTER

| | | CL | LAB | CR |
|-----------|--|----|-----|----|
| ENGL101N | College Composition | 4 | 0 | 4 |
| CSCI106N | Introduction to Software and Web Development | 3 | 0 | 3 |
| MATH106N | Statistics I | 4 | 0 | 4 |
| CSCI1161N | Introduction to Programming | 2 | 2 | 3 |

Semester Credits: 14

FIRST YEAR - SPRING SEMESTER

| | | CL | LAB | CR |
|----------|---|----|-----|----|
| CSCI175N | Programming Using C++ | 2 | 2 | 3 |
| CSCI140N | Essential of Systems Analysis | 2 | 2 | 3 |
| MATH206N | Statistics II | 4 | 0 | 4 |
| | General Core Education Requirement: Science | 3 | 2/3 | 4 |
| BUS101N | Introduction to Business | 3 | 0 | 3 |

Semester Credits: 17

SECOND YEAR - FALL SEMESTER

| | | CL | LAB | CR |
|----------|---|----|-----|----|
| MATH210N | Calculus I | 4 | 0 | 4 |
| CSCI207N | Database Design and Management | 2 | 2 | 3 |
| CSCI230N | Object Oriented Programming Using C++ | 2 | 2 | 3 |
| ENGL122N | Technical Writing | 3 | 0 | 3 |
| | General Education Core Requirement: History/Political Science | 3 | 0 | 3 |

Semester Credits: 16

SECOND YEAR - SPRING SEMESTER

| | | CL | LAB | CR |
|----------|--|----|-----|----|
| MATH211N | Calculus II | 4 | 0 | 4 |
| CSCI278N | Data Structures Using C++ | 2 | 2 | 3 |
| | General Education Core Requirement: Humanities / Fine Arts or Global Awareness | 3 | 0 | 3 |
| MATH215N | Linear Algebra | 4 | 0 | 4 |

Semester Credits: 14

Total 61 Credits

Associate in Science Degree in General Studies

(Day/Evening Program)

The Associate in Science in General Studies degree program is designed for students who wish to pursue a flexible degree plan tailored to their specific educational or career goals. Students pursue the General Studies degree to acquire new skills, to upgrade their current occupational skills, or to build a foundation for further education.

The General Studies program may be appropriate for students who:

- Have earned a variety of college credits and want to complete a degree
- Wish to sample various course offerings within degree programs to help guide their future
- Have career goals that cannot be met through another degree program

Since the General Studies degree plan is developed around individual career goals, prospective students must meet with the General Studies Program Coordinator to establish a program of study.

Graduation Requirements

A minimum of 61 credits is required for graduation to be distributed in the following manner:

| | CR |
|---|-----------|
| Specialty and Support courses | 32 |
| General Education as follows: | 24 |
| ENGL101N College Composition | 4 |
| General Education Core Requirement: English / Communications | 3 |
| General Education Core Requirement: Science | 4 |
| General Education Core Requirement: Behavioral Social Science | 3 |
| General Education Core Requirement: History / Political Science | 3 |
| General Education Core Requirement: Quantitative Literacy | 4 |
| General Education Core Requirement: Humanities / Fine Arts or Global Awareness | 3 |
| Open Electives | 6 |

Residency Requirements

At least 15 semester credits must be taken at Nashua Community College not including transfer credits. A minimum of 8 credits of coursework in the program must be completed at the "200" level.

Admission Requirements

Applicants must:

- Be high school graduates or have the GED equivalent.
- Submit an application for admission and have official transcripts forwarded to Nashua Community College by secondary and post-secondary institutions previously attended.
- Participate in a personal interview if required.
- Participate in the ACCUPLACER® Placement Assessment test when appropriate.

At the completion of the degree in General Studies, graduates will be able to:

1. Articulate an understanding of the importance of lifelong learning.
2. Use contemporary information technology to locate, evaluate and utilize information for an intended purpose.
3. Express oneself clearly and cogently, through written and oral communication.
4. Employ both qualitative and quantitative reasoning to solve problems.
5. Apply logical, critical, ethical, and creative thinking to analyze problems, evaluate alternative solutions, and make decisions.
6. Integrate and apply the fundamental processes of scientific inquiry, social sciences, and arts and humanities.

In addition, the graduate will be able to demonstrate competency in the general education outcomes.

Associate in Science Degree in General Studies Health (Day/Evening/Online Program)

The Associate in Science in General Studies Health degree program has been designed for students who have a desire to work in the healthcare industry or allied health but who have not yet chosen a specific health field or area of interest.

The first year includes courses that would be required for general education as well as a career in the healthcare field. At the end of the first year, students will have the option of transferring to another associate degree program to complete their course work in a specific field or continue on to receive their associate degree with a focus on coursework pertaining to their focused health related interest. The second year is flexible for students to choose courses that could then potentially transfer to a 4 year college in the field of their choice.

With careful planning, the student will be able to earn credits that will fit their intended field of study. Matriculated students will work with a faculty advisor to design a program of study that meets the individual's needs.

Acceptance into the General Studies Health program does not guarantee acceptance in or give preferential treatment to an applicant to a specific health program at a later date.

After completion of general studies health program, the student will meet the following outcomes:

1. The student will communicate effectively and fluently; read with comprehension; listen, speak and write competently.
2. The student will develop skills in reflection, analysis, logical reasoning, and evaluation to formulate judgments, reach conclusions, and solve problems.
3. The student will evaluate and utilize quantitative and qualitative data and apply mathematical and scientific principles and methods.
4. The student will utilize technology to locate, evaluate, organize, and utilize information accurately and responsibly.
5. The student will acquire knowledge and skills to function effectively as informed and responsible citizens.
6. The student will acquire knowledge and skills that will enable respect for diversity as well as an awareness of global interdependency.
7. The student will formulate a plan for personal and professional growth in a health related career.
8. The student will articulate the importance and necessity of lifelong learning in particular as it applies to health related fields.

In addition, the graduate will be able to demonstrate competency in the general education outcomes.

Residency Requirements

At least 15 semester credits must be taken at Nashua Community College not including transfer credits. A minimum of 8 credits of coursework in the program must be completed at the "200" level.

Admission Requirements

Applicants must:

- Be high school graduates or have the GED equivalent.
- Submit an application for admission and have official transcripts forwarded to Nashua Community College by

secondary and post-secondary institutions previously attended.

- Participate in a personal interview if required.
- Participate in the ACCUPLACER® Placement Assessment test when appropriate.

FIRST YEAR - FALL SEMESTER

| | | CL | LAB | CR |
|----------|---|----|-----|----|
| ANTH105N | Ethnography of Work -OR- General Education Core Requirement: | | | |
| | Behavioral Social Science | 3 | 0 | 3 |
| PSYC101N | Introduction to Psychology | 3 | 0 | 3 |
| BIOL201N | Anatomy and Physiology I -OR- | | | |
| BIOL105N | Biology in Focus I -OR- | 3 | 3 | 4 |
| CHEM110N | Introduction to Chemistry | 3 | 2 | 4 |
| ENGL101N | College Composition | 4 | 0 | 4 |

Semester Credits: 14

FIRST YEAR - SPRING SEMESTER

| | | CL | LAB | CR |
|----------|---|----|-----|----|
| BIOL202N | Anatomy and Physiology II - OR - | | | |
| BIOL105N | Biology in Focus I - OR- | 3 | 3 | 4 |
| CHEM110N | Introduction to Chemistry | 3 | 2 | 4 |
| PSYC201N | Human Growth and Development | 3 | 0 | 3 |
| MATH106N | Statistics I | 4 | 0 | 4 |
| | General Education Core Requirement: Humanities/Fine Arts or Global Awareness | 3 | 0 | 3 |
| | General Education Core Requirement: English/Communications | 3 | 0 | 3 |

Semester Credits: 17

SECOND YEAR - FALL SEMESTER

| | | CL | LAB | CR |
|----------|---|----|-----|----|
| BIOL210N | Medical Microbiology | 3 | 3 | 4 |
| BIOL201N | Anatomy and Physiology I (if not taken semester 1) | 3 | 3 | 4 |

Specialty and Support Courses* as appropriate to student's career plans
*8 credits in specialty and support courses if taking BIOL201N this semester.

Semester Credits: 16

SECOND YEAR - SPRING SEMESTER

| | | CL | LAB | CR |
|----------|---|----|-----|----|
| BIOL202N | Anatomy and Physiology II (if not taken semester II) | 3 | 3 | 4 |

Specialty and Support Courses* as appropriate to student's career plans
*12 credits in specialty and support courses if taking BIOL202N

Semester Credits: 16

Minimum Total Degree Credit Hours: 60 Credits

Associate in Arts Degree in History & Political Science

(Day/Evening Program)

The Associate in Arts Degree in History & Political Science has been developed to provide the first two years of preparation for a student wishing to complete a bachelor degree with a major in history or political science.

The Liberal Arts Degree in History and Political Science may be especially appropriate for students who plan to pursue careers in the fields of education, government, historic preservation, public history, or law. Students are encouraged to work closely with their academic advisor while at NCC. An early decision by a student as to the four-year college/university to which he/she plans to transfer will make the advising process more effective.

Upon the completion of the degree in History & Political Science, graduates will be able to:

1. Utilize knowledge of historical trends, political institutions and processes to evaluate contemporary problems/issues.
2. Practice collaborative skills that prepare individuals to engage in the democratic process.
3. Employ the historical method of inquiry as a problem solving tool.
4. Identify frame of reference and context when evaluating evidence.
5. Differentiate between facts and interpretations.
6. Synthesize multiple perspectives when problem solving.
7. Support hypotheses with credible evidence.
8. Communicate hypotheses effectively both orally and in writing.
9. Cite sources using the Chicago Manual of Style.

In addition, the graduate will be able to demonstrate competency in the general education outcomes.

FIRST YEAR - FALL SEMESTER

| | | | CL | LAB | CR |
|---|---|--|----|-----|----|
| ANTH105N | Ethnography of Work | | 3 | 0 | 3 |
| OR | | | | | |
| General Education Core Requirement: Behavioral Social Science | | | | | |
| ENGL101N | College Composition | | 4 | 0 | 4 |
| HIST101N | Western Civilization from Ancient Times to 1700 | | 3 | 0 | 3 |
| MATH106N | Statistics I | | 4 | 0 | 4 |
| Semester Credits: 14 | | | | | |

FIRST YEAR - SPRING SEMESTER

| | | | CL | LAB | CR |
|---|---|--|----|-----|----|
| General Education Core Requirement: | | | | | |
| English/Communications | | | | | |
| POLS101N | Introduction to Political Science | | 3 | 0 | 3 |
| OR | | | | | |
| POLS106N | Citizen and Society | | | | |
| General Education Core Requirement: Science | | | | | |
| GEOG110N | World Regional Geography | | 3 | 0 | 3 |
| OR | | | | | |
| GEOG130N | Human Geography | | | | |
| HIST102N | Western Civilization from 1600 to the Present | | 3 | 0 | 3 |
| Semester Credits: 16 | | | | | |

SECOND YEAR - FALL SEMESTER

| | | | CL | LAB | CR |
|--|-----------------|--|----|-----|-----|
| ECON202N | Macroeconomics* | | 3 | 0 | 3 |
| General Education Elective (or Core Requirement): History/Political Science** | | | | | |
| | | | 3 | 0 | 3 |
| General Education Elective (or Core Requirement): History/ Political Science** | | | | | |
| | | | 3 | 0 | 3 |
| General Education Core Requirement: Science | | | | | |
| | | | 3 | 0/2 | 3/4 |
| General Education Core Requirement: | | | | | |
| | | | 3 | 0 | 3 |
| Global Awareness*** | | | | | |
| | | | 3 | 0 | 3 |
| Semester Credits: 15/16 | | | | | |

SECOND YEAR - SPRING SEMESTER

| | | | CL | LAB | CR |
|--|--------------------------------------|--|----|-----|----|
| General Education Elective (or Core Requirement): History/ Political Science** | | | | | |
| | | | 3 | 0 | 3 |
| General Education Core Requirement: | | | | | |
| | | | 3 | 0 | 3 |
| General Education Core Requirement: | | | | | |
| | | | 3 | 0 | 3 |
| General Education Elective (or Core Requirement): Global Awareness*** | | | | | |
| | | | 3 | 0 | 3 |
| HIST285N | Intro to Historical Research Methods | | 3 | 0 | 3 |
| Semester Credits: 15 | | | | | |

Total 60/61 Credits

A minimum of 60 credits must be earned in the required categories to complete the program of studies. A minimum of 15 credits must be earned at Nashua Community College, and 8 of those 15 credits must be earned in courses at the 200 level

*Fulfills General Education Quantitative Literacy requirement for this major.
 ** Consult Advisor***Depending on a student's transfer pathway, it may be recommended that he/she study two semesters of the same world language.

Associate in Science Degree in Honda Automotive Technology Professional Automotive Career Training (PACT) (Day Program)

The Honda Automotive Technology program, otherwise known as PACT (Professional Automotive Career Training) is a partnership among Nashua Community College, American Honda Motor Co., Inc. and Honda/Acura Dealers. This associate degree program is designed to train students for employment in Honda/Acura dealerships and to prepare them for ASE Master certification. The training includes classroom theory, hands-on lab work, an internship at a dealer and general education components. The technical instruction at the College is conducted in a professionally equipped, modern facility. American Honda supplies the program with vehicles, special tools, and access to technical data.

Graduates of the PACT program will have received more than 50% of the required training to become a Honda/Acura Master Technician in addition to being prepared for ASE Master certification. This is a significant head start into a career with job security and high income potential.

In addition to the general admission requirements, the PACT Program applicants should be aware of the following criteria:

1. A minimum of one year of high school algebra is recommended. Basic skills in written English are required.
2. Required interview with the Program Coordinator.
3. A basic automotive tool kit and roll cabinet are required. A copy of the required tool kit list is available on the College website. The major tool manufacturers offer substantial discounts to enrolled PACT students. The College hosts a "Tool Day" at the College in late August for enrolled students needing tools or tool kits. Depending on the tool manufacturer, approximate tool kit cost is between \$2,000 and \$4,000.
4. After successfully completing all coursework in the first semester with a 2.0 GPA, students are then qualified for an internship. Students must maintain a CGPA of 2.0 to remain on internship.
5. All PACT students are required to complete the internship.
6. All PACT internships carry a per credit tuition charge.
7. Students must be matriculated into the PACT program to take HATN courses.
8. A copy of a valid driver's license and clean driving record are required for admission to the PACT program. (See PACT Program Coordinator for details.)

Students should familiarize themselves with the Industry and Transportation Department General Education Policies located in the General Education Policies section of this Catalog.

This program is Master Automobile Service Technology (MAST) Accredited by the National Automotive Technicians Education Foundation (NATEF)

Technical Standards: Please refer to Technical Standards for details regarding this program.

FIRST YEAR - FALL SEMESTER

| | | CL | LAB | CR |
|--|--------------------------------|----|-----|----|
| HATN121N | Honda Service and Maintenance* | 2 | 6 | 4 |
| HATN113N | Honda Electricity and Wiring | 2 | 6 | 4 |
| ENGL101N | College Composition | 4 | 0 | 4 |
| General Education Core Requirement: Quantitative Literacy | | | | |
| | | 4 | 0 | 4 |

Semester Credits: 16

FIRST YEAR - SPRING SEMESTER

| | | CL | LAB | CR |
|---|------------------------------------|----|-----|----|
| HATN114N | Honda Steering and Suspension | 2 | 6 | 4 |
| HATN122N | Honda Brakes and Stability Systems | 2 | 6 | 4 |
| HATN190N | Honda Dealer Internship I** | 0 | 12 | 2 |
| General Education Core Requirement: English / Communications | | | | |
| | | 3 | 0 | 3 |

Semester Credits: 11/13

SUMMER SEMESTER

| | | CL | LAB | CR |
|----------|--|----|-----|----|
| HATN205N | Honda Advanced Electrical & Electronic Systems | 2 | 6 | 4 |
| HATN195N | Honda Dealer Internship II** | 0 | 24 | 3 |

Semester Credits: 7

SECOND YEAR - FALL SEMESTER

| | | CL | LAB | CR |
|---|-----------------------------------|----|-----|----|
| HATN210N | Honda Engine Performance I | 2 | 6 | 4 |
| HATN226N | Honda Transmission and Drivelines | 2 | 6 | 4 |
| HATN191N | Honda Dealer Internship III** | 0 | 12 | 2 |
| PHYS101N | Physical Science I | 3 | 2 | 4 |
| General Education Core Requirement: Behavioral Social Science | | | | |
| | | 3 | 0 | 3 |
| OR | | | | |
| General Education Core Requirement History / Political Science | | | | |
| | | 3 | 0 | 3 |

Semester Credits: 15/17

SECOND YEAR - SPRING SEMESTER

| | | CL | LAB | CR |
|---|------------------------------|----|-----|----|
| HATN228N | Honda Engine Repair | 2 | 6 | 4 |
| HATN221N | Honda Heating and AC Systems | 2 | 6 | 4 |
| HATN192N | Honda Dealer Internship IV** | 0 | 12 | 2 |
| General Education Core Requirement: Humanities / Fine Arts or Global Awareness | | | | |
| | | 3 | 0 | 3 |

Semester Credits: 11/13

Total 64 Credits

Associate in Science Degree in Honda Automotive Technology Professional Automotive Career Training (PACT) (Day Program)

*A student must earn a 'C' or better in order to progress in this program.

**Seven Internship credit hours total must be earned in order to graduate.

To qualify for a Honda dealership placement, a student must successfully complete all program coursework leading up to each of the internship courses. A 2.0 GPA is required for Internship placement.

Upon the completion of the degree in Honda Automotive Technology, graduates will be able to:

1. Evaluate, diagnose, and repair various automotive systems using NATEF guidelines.
2. Use technology and basic scientific principles for research and problem solving.
3. Employ effective written and oral communication skills.
4. Employ effective technical writing skills.
5. Utilize mathematical logic and analysis for problem solving.
6. Understand the connections between individuals and society.
7. Have the ability to achieve ASE Master Certification.
8. Demonstrate proficiency with the Honda Interactive Network and other technological and information resources.
9. Demonstrate effective interpersonal skills.
10. Perform reading skills at a college level.

In addition, the graduate will be able to demonstrate competency in the general education outcomes.

Associate in Degree Science in Hospitality and Restaurant Management (Day Program)

The mission of the Hospitality and Restaurant Management Program is to provide both academic preparation and practical experiences that students need to enter and succeed in a hospitality management career. In addition, the program prepares students for transfer to four-year colleges and universities that offer a bachelor degree in a hospitality-related program.

The hospitality industry currently represents the second largest employer in the United States, and the industry is the major part of a rapidly-growing services sector of the economy. To meet the need for college-educated professionals in the hospitality field, the Associate Degree Program in Hospitality and Restaurant Management focuses on a business education and theories of hospitality management that provide graduates with an understanding of the key areas of the industry.

As a key element of the program, students are required to complete a supervised 120-hour internship at a hotel, restaurant, or other approved hospitality organization.

Many exciting career opportunities exist within the hospitality industry. The following examples serve to show the variety of exciting positions that may be pursued depending on experience and interest: front office manager; sales or marketing manager; executive housekeeper; food and beverage manager; banquet manager; restaurant manager; events manager; human resources manager; or hotel manager.

Uniforms are required for scheduled events.

Internship Considerations: Please refer to Technical Standards section for details regarding internship requirements.

Upon the completion of the degree in Hospitality and Restaurant Management, graduates will be able to:

1. Describe a hospitality business philosophy.
2. Utilize computer technology appropriate to the industry.
3. Describe the building of a brand positioning statement.
4. Demonstrate an understanding of the sales and marketing skills appropriate for the hospitality industry.
5. Demonstrate appropriate personal skills for the hospitality industry, including professional business etiquette and ethics.
6. Apply basic principles of supervisory management
7. Implement basic operations of a hospitality enterprise.
8. Appreciate and understand the value of diversity.
9. Communicate effectively in a diverse society using visual and written modes within the hospitality industry.
10. Critically reflect on the impact that historical and contemporary culture has on society in general and specifically in the hospitality industry.
11. Apply critical-thinking skills to arrive at reasoned decisions in solving everyday hospitality industry issues.
12. Demonstrate effective research and reporting skills.

In addition, the graduate will be able to demonstrate competency in the general education outcomes.

FIRST YEAR - FALL SEMESTER

| | | CL | LAB | CR |
|----------|--------------------------------------|----|-----|----|
| ACCT101N | Financial Accounting I | 4 | 0 | 4 |
| BCPT101N | Computer Technology and Applications | 2 | 2 | 3 |
| HOS101N | Introduction to Hospitality | 3 | 0 | 3 |
| ENGL101N | College Composition | 4 | 0 | 4 |

Semester Credits: 14

FIRST YEAR - SPRING SEMESTER

| | | CL | LAB | CR |
|----------|---|----|-----|----|
| BUS104N | Principles of Marketing | 3 | 0 | 3 |
| BUS110N | Principles of Management | 3 | 0 | 3 |
| HOS110N | Front Office Operations/Revenue Management | 3 | 0 | 3 |
| MATH103N | Quantitative Reasoning | 4 | 4 | 4 |
| | General Education Core Requirement: Science | 3 | 2/3 | 4 |

Semester Credits: 17

SECOND YEAR - FALL SEMESTER

| | | CL | LAB | CR |
|----------|---|----|-----|----|
| ENGL109N | Public Speaking | 3 | 0 | 3 |
| HOS201N | Hospitality Sales and Marketing | 3 | 0 | 3 |
| HOS210N | Principles of Food and Beverage Management | 3 | 0 | 3 |
| CULA105N | Food Safety and Sanitation | 1 | 2 | 2 |
| | General Education Core Requirement: Behavioral Social Science | 3 | 0 | 3 |

Semester Credits: 14

SECOND YEAR - SPRING SEMESTER

| | | CL | LAB | CR |
|---------|--|----|-----|----|
| BUS240N | Business Law | 3 | 0 | 3 |
| HOS211N | Bar and Beverage Management | 3 | 0 | 3 |
| HOS290N | Hospitality and Restaurant Management Internship | 1 | 8 | 3 |
| | General Education Elective | 3 | 0 | 3 |

Semester Credits: 15

Total 60 Credits

Associate in Arts Degree in Humanities

The Associate in Arts degree program in Humanities is designed specifically to prepare students for successful transfer to a four-year baccalaureate degree program in a variety of majors. To achieve this purpose, the Humanities degree program provides students with a broad academic background in the field of fine arts, philosophy, and the humanities. Students may elect to focus their study in one of these three areas.

Students will have an opportunity to explore a variety of disciplines within the humanities while also completing the general education requirements necessary for transfer. The program also provides the student with the essential skills for academic, professional and personal purposes, including the ability to communicate effectively; think critically; analyze and apply inquiry from research; gain a global perspective; and appreciate cultural diversity. The College's required general education core studies further strengthens the students' skills areas.

Upon the completion of the degree in Humanities, graduates will be able to:

1. Communicate effectively and fluently; read with comprehension; listen, speak and write competently
2. Apply skills in reflection, analysis, logical reasoning, and evaluation to formulate judgments, reach conclusions, and solve problems.
3. Evaluate and utilize quantitative and qualitative data and apply mathematical and scientific principles and methods
4. Utilize technology and apply inquiry through researching and evaluating multiple perspectives from multiple formats
5. Acquire knowledge and skills to function effectively as informed and responsible citizens
6. Acquire knowledge and skills that will enable respect for diversity as well as an awareness of global interdependency
7. Develop an appreciation of the variety of fields of study in the humanities

In addition, the graduate will be able to demonstrate competency in the general education outcomes.

FIRST YEAR - FALL SEMESTER

| | | CL | LAB | CR |
|----------|----------------------------|----|-----|----|
| ENGL101N | College Composition | 4 | 0 | 4 |
| ANTH105N | Ethnography of Work | 3 | 0 | 3 |
| HUMA101N | Introduction to Humanities | 3 | 0 | 3 |
| MATH103N | Quantitative Reasoning | 4 | 0 | 4 |

Semester Credits: 14

FIRST YEAR - SPRING SEMESTER

| | | CL | LAB | CR |
|-------------------------------------|---|----|-----|----|
| HUMA102N | Art Appreciation -OR- | 3 | 0 | 3 |
| HUMA103N | Music Appreciation | 3 | 0 | 3 |
| HUMA110N | Critical Thinking Skills -OR- | 3 | 0 | 3 |
| PHIL109N | Introduction to Philosophy | 3 | 0 | 3 |
| General Education Core Requirement: | | | | |
| | English/Communications | 3 | 0 | 3 |
| General Education Core Requirement: | | | | |
| | Behavioral Social Science | 3 | 0 | 3 |
| | General Education Core Requirement: Science | 3 | 2/3 | 4 |

Semester Credits: 16

SECOND YEAR - FALL SEMESTER

| | | CL | LAB | CR |
|---|-------------------------|-----|-----|-----|
| General Education Core Requirement: Science | | | | |
| | | 3 | 0/3 | 3/4 |
| General Education Core Requirement: | | | | |
| | Quantitative Literacy* | 3/4 | 0 | 3/4 |
| | HUMA/PHIL/ARTS Elective | 3 | 0 | 3 |
| | HUMA/PHIL/ARTS Elective | 3 | 0 | 3 |
| | HUMA/PHIL/ARTS Elective | 3 | 0 | 3 |

Semester Credits: 15/17

SECOND YEAR - SPRING SEMESTER

| | | CL | LAB | CR |
|-------------------------------------|--------------------------------|----|-----|----|
| General Education Core Requirement: | | | | |
| | Behavioral Social Science -OR- | 3 | 0 | 3 |
| General Education Core Requirement: | | | | |
| | History/Political Science | 3 | 0 | 3 |
| | HUMA/PHIL/ARTS Elective | 3 | 0 | 3 |
| | HUMA/PHIL/ARTS Elective | 3 | 0 | 3 |
| | HUMA/PHIL/ARTS Elective | 3 | 0 | 3 |
| | HUMA/PHIL/ARTS Elective | 3 | 0 | 3 |

Semester Credits: 15

Total 60/62 Credits

*MATH106N or ECON202N is recommended
Suggested Tracks: Humanities/Fine Arts/Philosophy

A minimum of 60 credits must be earned in the required categories to complete the program of studies. A minimum of 15 credits must be earned at Nashua Community College, and 8 of those 15 credits must be earned in courses at the 200 level.

Associate in Science Degree in Human Services

(Day/Evening Program)

The Associate in Science Degree program in Human Services prepares students to work with individuals who are consumers of the human services delivery system, providing them with direct services and linking them with other community services and resources.

Graduates of the Human Services program may be employed in human services agencies which deal with developmental disabilities, mental health, residential treatment, hospice care, abuse prevention and substance abuse. Graduates will be prepared for employment in positions such as service coordinator, group home manager, job coach, vocational instructor and trainer, residential living counselor, community living instructor, program manager, site supervisor, supported or independent living specialist, and family support coordinator.

The job market for human service workers has experienced tremendous growth during the past twenty years, concurrent with the expansion of community-based mental health and developmental disabilities programs for the elderly, the disabled, individuals on the autism spectrum, and families in crisis.

Locally, employment growth in Hillsborough County is projected to be the fourth highest of all ten counties in New Hampshire. One of the fastest growing occupations in NH includes social and human service assistants, projected to increase by 43.4% over the next ten years.

Entry-level salaries with an associate degree can range from \$27,000 to \$45,000 with opportunities for overtime, tuition reimbursement, and insurance coverage.

Transfer Agreements: Graduates wishing to pursue their bachelor's degree can benefit from our transfer agreements with Granite State College, Rivier University, and Springfield College of Human Services. Students may enroll into one of these programs after transferring credits earned at Nashua Community College.

All candidates are required to have a personal interview with a department faculty member.

The College also offers a Certificate program in Human Services, providing students with the major courses required for entry level position, as well as providing them with an entry point for the continuation of studies. All Certificate courses have been incorporated into the first year of the Degree Program.

Technical Standards have been established as guidance tools to inform program applicants of skills and standards necessary for successful completion of the Human Service programs. Any applicant who has concerns or questions regarding the Technical Standards is encouraged to contact the Department Chair to discuss individual issues. Information on the Technical Standards for this program is also available in the Technical Standards section of this catalog.

Students in the Human Service programs must be able to demonstrate:

- Ability to communicate verbally as a student in classes, and

later as a professional in individual and group counseling situations;

- Sufficient verbal skills and language to collaborate with a wide variety of helping professionals in clinical, societal and professional areas; deliver accurate and required information; and to search for information, e.g., questioning;
- Sufficient writing ability to formulate written assessment, charting notes, and reports, etc.;
- Ability to sustain cognitive integrity in areas of short and long-term memory, areas of written documentation and follow-through of responsibilities;
- Ability to concentrate on the execution of treatment plans, assigned skills and tasks as well as the integration and communication of this work for both short and long-term periods of time;
- Ability to work in settings that may lend themselves to frequent interruptions, immediate crisis response and role responsibility exchange;
- Ability to cope with a variety of stressors, including people-place occurrences, and demonstrate safe and required care for individuals and the workplace as a whole;
- Ability to secure transportation to practicum sites and classes;
- Ability to consistently attend and participate in classes;
- Ability to demonstrate and maintain organizational skills, time management and professional respect and conduct as a human service student, either at a practicum site or in the community;
- Ability to adhere to and practice the Human Service Department's ethical guidelines.

A State Police criminal check is the responsibility of students and may be required for clinical fieldwork and/or employment upon request of an agency.

Applicants who have had difficulty with the law depending upon the nature of the problem may not be employable or even eligible for fieldwork. Applicants need to discuss these matters in an interview with the Department Chair to determine future direction.

Associate in Science Degree in Human Services

(Day/Evening Program)

FIRST YEAR - FALL SEMESTER

| | | CL | LAB | CR |
|-------------------------------------|--------------------------------|----|-----|----|
| ENGL101N | College Composition | 4 | 0 | 4 |
| PSYC101N | Introduction to Psychology | 3 | 0 | 3 |
| HSV111N | Introduction to Human Services | 3 | 0 | 3 |
| General Education Core Requirement: | | | | |
| Behavioral Social Science | | 3 | 0 | 3 |
| General Education Core Requirement: | | | | |
| Quantitative Literacy | | 4 | 0 | 4 |

Semester Credits: 17

FIRST YEAR - SPRING SEMESTER

| | | CL | LAB | CR |
|----------|--------------------------------------|----|-----|----|
| BCPT101N | Computer Technology and Applications | 2 | 2 | 3 |
| HSV123N | Supportive Communication Skills | 3 | 0 | 3 |
| PSYC206N | Learning and Behavior | 3 | 0 | 3 |
| PSYC210N | Abnormal Psychology | 3 | 0 | 3 |
| HSV190N | Fieldwork I | 1 | 8 | 3 |

Semester Credits: 15

SECOND YEAR - FALL SEMESTER

| | | CL | LAB | CR |
|--|--|----|-----|----|
| ENGL102N | College Composition II: Writing About Literature | | | |
| OR | | | | |
| ENGL103N | Professional Writing and Presentations | 3 | 0 | 3 |
| PSYC212N | Individual Counseling: Theory and Practice | 3 | 0 | 3 |
| PSYC240N | Drugs and Alcohol | 3 | 0 | 3 |
| General Education Core Requirement: Science* | | | | |
| General Education Core Requirement: | | | | |
| Humanities / Fine Arts or Global Awareness | | 3 | 0 | 3 |

Semester Credits: 15/16

SECOND YEAR - SPRING SEMESTER

| | | CL | LAB | CR |
|-------------------------------------|-------------------------------|----|-----|----|
| HSV225N | Family Dynamics | 3 | 0 | 3 |
| PSYC222N | Group Dynamics and Counseling | 3 | 0 | 3 |
| General Education Core Requirement: | | | | |
| History / Political Science | | 3 | 0 | 3 |
| HSV291N | Capstone Experience | 1 | 8 | 3 |
| Open Elective | | 3 | 0 | 3 |

Semester Credits: 15

Total 62/63 credits

*Lab Science recommended

Students are advised to meet with their advisor to make appropriate elective selections based on their career goals and to facilitate the broadest range of transferability.

Dropping from a required program course may mean that the student will be out of sequence in program course offerings which may delay graduation.

Students who begin the program in the spring semester or who need developmental course support should recognize that it may take longer to complete the program. Individuals must recognize that to be successful in

the Human Service field, they should be emotionally stable, creative, and flexible.

Upon the completion of the degree in Human Services, graduates will be able to:

1. Communicate effectively, including speaking, writing, and listening in order to express, transmit and interpret knowledge and ideas.
2. Research and plan in order to search for specific knowledge and the ability to conceptualize future needs and solutions for meeting those needs.
3. Use interpersonal skills for resolving conflict, relating to and helping people, such as empathy, genuineness, self-awareness, patience, etc.
4. Be competent in formal/informal assessment practices in order to understand the needs and interests of the participant.
5. Be competent in defining, discussing and performing the five basic case management functions: assessment, planning, linking, monitoring and advocacy.
6. Identify both personal and professional strengths and weaknesses and engage in appropriate self-development activities.
7. Describe roles of the various human service professionals in providing services.
8. Summarize the history of human services in America and identify important persons and movements
9. Conduct both directed and non-directed interviews for the purposes of obtaining personal historical information, determining eligibility for services and conducting a mental status evaluation.
10. Be able to demonstrate an understanding of ethical principles and apply them to professional practice.
11. Knowledgeable of the requirements for documentation in the organization and be able to manage these requirements efficiently.
12. Understand theoretical bases for different interventions as well as to initiate, develop and terminate interventions in a manner that enables continuous client growth.

In addition, the graduate will be able to demonstrate competency in the general education outcomes.

HUMAN SERVICES CERTIFICATE

(Day/Evening Program)

| | | CL | LAB | CR |
|-------------------------------------|--------------------------------------|----|-----|----|
| BCPT101N | Computer Technology and Applications | 2 | 2 | 3 |
| PSYC101N | Introduction to Psychology | 3 | 0 | 3 |
| HSV111N | Introduction to Human Services | 3 | 0 | 3 |
| PSYC206N | Learning and Behavior | 3 | 0 | 3 |
| ENGL101N | College Composition | 4 | 0 | 4 |
| HSV123N | Supportive Communication Skills | 3 | 0 | 3 |
| General Education Core Requirement: | | | | |
| Behavioral Social Science | | 3 | 0 | 3 |
| HSV190N | Fieldwork I | 1 | 8 | 3 |

Total 25 Credits

Associate in Science Degree in Holistic Massage Therapy

(Day/Evening Program)

Holistic specifically refers to regarding an individual on all their levels: physically; mentally/emotionally; and spiritually. The Holistic approach to massage rejects the traditional idea of mere treatment of the individual as limited to soft tissue manipulation and incorporates recognized concepts of holistic care. Students learn to develop and provide services that treat the entire client within the scope of their training - now expanded beyond the orthodox idea of a sole physical dimension.

The Associate in Science Degree and Certificate Program in Massage Therapy both provide theory and practical experience to prepare graduates to take the MBLEx (Massage and Bodywork Licensing Exam) for New Hampshire state licensure.

To take any MASS-N courses, students must be matriculated into the certificate or degree program in massage therapy at Nashua Community College or already be a licensed therapist.

A minimum age of 18 is required for enrollment in any palpation dependant class. Continuing education credits are also available for LMTs.

Applicants for the AS in Holistic Massage Therapy must meet the college requirements for admission. The ACCUPLACER® Exam is required before any classes in General Education Core: Quantitative Literacy or General Education Core: English can be taken.

National exams and the State of NH-DHHS rules for massage therapy licensure require a felony-free background over the ten years preceding license application. NCC reserves the right to require felony checks of any prospective or matriculated student at any time. If required, this would be at student's expense. Bureau of Labor Statistics (US Dept. of Labor) projects an increased growth rate of 23% for massage therapy through 2022.

Students in the Holistic Massage Therapy major will be held to the highest professional and ethical standards. Inappropriate behavior or issues pertaining to the quality of touch will not be tolerated and will result in removal from the program at any time. The program is subject to constant review in an effort to meet current and future requirements of this quickly growing field of study.

This class sequence chart is a "checklist" for program completion and courses may be taken in different order than listed. Some classes may have a prerequisite and catalog course descriptions should be consulted. A student may be eligible to take the MBLEx before completing all general education classes.

A meeting with the program coordinator is required for full acceptance into the massage therapy department.

Technical Standards: Please refer to Technical Standards section for details regarding this program.

FIRST YEAR - FALL SEMESTER

| | | CL | LAB | CR |
|-----------------------------|--|----|-----|----|
| ENGL101N | College Composition | 4 | 0 | 4 |
| MASS101N | Swedish Massage I | 2 | 3 | 3 |
| MASS102N | Anatomy and Physiology for Massage & Bodywork | 3 | 2 | 4 |
| General Education | Core Requirement: History/Political Science | 3 | 0 | 3 |
| Semester Credits: 14 | | | | |

FIRST YEAR - SPRING SEMESTER

| | | CL | LAB | CR |
|-----------------------------|----------------------------------|----|-----|----|
| MASS111N | Musculo-Skeletal Study | 1 | 2 | 2 |
| MASS121N | Swedish Massage II | 2 | 3 | 3 |
| MASS126N | Massage Therapy Rules and Ethics | 1 | 0 | 1 |
| MASS131N | Pathology | 3 | 0 | 3 |
| MASS141N | Oriental Theory and Concepts | 3 | 0 | 3 |
| MASSxxxN | Massage/Wellness Elective | 0 | 0 | 2 |
| Semester Credits: 14 | | | | |

SECOND YEAR - FALL SEMESTER

| | | CL | LAB | CR |
|-----------------------------|---|----|-----|----|
| CHWN101N | Foundations of Health and Wellness | 3 | 0 | 3 |
| MASS212N | Kinesiology | 2 | 3 | 3 |
| MASS119N | Massage Business Practices | 3 | 0 | 3 |
| MASSxxxN | Massage/Wellness Electives (2 or 3 courses) | 0 | 0 | 6 |
| General Education | Core Requirement: Quantitative Literacy | 4 | 0 | 4 |
| Semester Credits: 19 | | | | |

SECOND YEAR - SPRING SEMESTER

| | | CL | LAB | CR |
|-----------------------------|---|----|-----|----|
| MASS135N | Deep Tissue Massage | 1 | 2 | 2 |
| General Education | Core Requirement: English/Communications | 3 | 0 | 3 |
| MASS233N | Clinical Evaluation and Treatment | 2 | 3 | 3 |
| General Education | Core Requirement: Humanities/Fine Arts or Global Awareness | 3 | 0 | 3 |
| MASS290N | Clinical Internship: A Capstone Experience | 0 | 9 | 3 |
| Semester Credits: 14 | | | | |

Total 61 Credits

Associate in Science Degree in Holistic Massage Therapy

(Day/Evening Program)

Upon the completion of the degree in Holistic Massage Therapy, graduates will be able to:

1. Discuss the scope, definition, history and approaches of holistic massage therapy especially as compared to other alternative medicine health professions.
2. Demonstrate knowledge of the human body systems as understood by Western and Eastern (Asian and Indian) sciences.
3. Understand and show knowledge of anatomy (structure and/or location), physiology (function), pathology (disease) and kinesiology (movement) as well as recognize the interconnectedness of body, mind and spirit.
4. Apply Eastern concepts, principles and approaches to the body including Traditional Chinese Medicine theories, meridian system philosophy, Five Element Theory and Ayurvedic Medicine.
5. Communicate effectively through writing, active listening and speaking while being cognizant of audience and mutual understanding.
6. Develop, apply and evaluate therapeutic massage sessions for each client using theory (physiological, emotional/psychological, and energetic), interview methods, Swedish Massage strokes (effleurage, petrissage, friction, vibration and tapotement), range of motion and massage tools.
7. Understand and apply professional standards, ethics, boundary setting, business and legal practices in massage.
8. Use effective interpersonal skills, both verbal and non-verbal, such as listening, nurturing, patience, and empathy before, during and after the therapeutic session.
9. Demonstrates proficiency in client interviewing, record keeping and communication skills (written and oral) necessary for dialoguing with all healthcare professionals.
10. Respect cultural diversity and demonstrate an authentic appreciation for various ethnic group's culture, body language, approaches to touch therapies, physical attributes, religious beliefs and traditions.
11. Be able to understand one's personal and social responsibility to act with integrity, to be competent, to use moral judgment, to strive for excellence and to develop a strong work ethic in school, career and community.

In addition, the graduate will be able to demonstrate competency in the general education outcomes.

Massage Therapy Certificate

The Massage Therapy Certificate Program is designed to prepare the student to enter the profession of therapeutic massage. It meets all State of New Hampshire requirements for licensure and provides a minimum 750 hour course of study. Students gain a basic understanding of anatomy and physiology, as well as various massage interventions for general health and well-being. Electives are provided to make Nashua Community College massage graduates unique and versatile.

Completion of the program will prepare graduates to take the MBLEx (Massage and Bodywork Licensing Exam) required for licensure as a State of New Hampshire Licensed Massage Therapist. Students may complete the program in one year (three semesters) or longer depending on the needs and lifestyle demands of the student. Flexible scheduling allows full time workers to build their course load as needed each term. This is an evening program with some elective courses offered during the day.

Students must be matriculated in the Massage Therapy Certificate program at NCC to register for any MASS-N course. The following exceptions will be considered based on space availability: Students enrolled at another educational institution in Massage Therapy; Licensed or Certified Massage Therapists. A minimum age of 18 is required for enrollment in any palpation dependant classes. Continuing education credits are also available for LMTs.

Applicants for Massage Therapy must meet the College requirements for admission. They must also complete Standard First Aid and CPR courses at their own expense during their internship.

National exams and State of New Hampshire licensure require a felony-free background over the ten years preceding license application. NCC reserves the right to require felony checks of any prospective or matriculated massage student at any time. If required, this would be at student's expense.

The Bureau of Labor Statistics (US Department of Labor) projects an increased growth rate of 23% for massage therapy through 2022.

Students in the Massage Therapy Program will be held to the highest professional and ethical standards. Inappropriate behavior and issues pertaining to the quality of touch will not be tolerated and will result in removal from the program at any time. The program is subject to constant review in an effort to meet current and future requirements of this quickly growing field of study.

* Some elective courses are offered during the day.

FIRST SEMESTER

| | | CL | LAB | CR |
|----------|---|----|-----|-----|
| MASS102N | Anatomy and Physiology for Massage & Bodywork | 3 | 2 | 4 |
| MASS101N | Swedish Massage I* | 2 | 3 | 3 |
| MASS119N | Massage Business Practices | 3 | 0 | 3 |
| MASSxxxN | Elective ** | 0 | 0 | 2/3 |

Semester Credits: 12/13

SECOND SEMESTER

| | | CL | LAB | CR |
|----------|------------------------------|----|-----|-----|
| MASS111N | Musculo-Skeletal Study | 1 | 2 | 2 |
| MASS121N | Swedish Massage II | 2 | 3 | 3 |
| MASS131N | Pathology | 3 | 0 | 3 |
| MASS141N | Oriental Theory and Concepts | 3 | 0 | 3 |
| MASSxxxN | Elective ** | 0 | 0 | 2/3 |

Semester Credits: 13/14

THIRD SEMESTER

| | | CL | LAB | CR |
|----------|--|----|-----|-----|
| MASS212N | Kinesiology | 2 | 3 | 3 |
| MASS126N | Massage Therapy Rules & Ethics | 1 | 0 | 1 |
| MASS233N | Clinical Evaluation & Treatment | 2 | 3 | 3 |
| MASS135N | Deep Tissue Massage | 1 | 2 | 2 |
| MASS290N | Clinical Internship: A Capstone Experience | 0 | 9 | 3 |
| MASSxxxN | Elective ** | 0 | 0 | 2/3 |

Semester Credits: 14/15

Minimum of 37 Credits

Massage Electives (choose two):

| | | CL | LAB | CR |
|----------|---|----|-----|----|
| CHWN101N | Foundations of Health & Wellness | 3 | 0 | 3 |
| CHWN115N | Introduction to Herbology | 3 | 0 | 3 |
| MASS105N | Spa Techniques* | 2 | 0 | 2 |
| MASS132N | Sports Massage* | 2 | 0 | 2 |
| MASS134N | Self-Care & Stress Management | 2 | 0 | 2 |
| MASS136N | Shiatsu* | 2 | 0 | 2 |
| MASS137N | Pre/Post Natal Massage* | 2 | 0 | 2 |
| MASS139N | Reflexology* | 2 | 0 | 2 |
| MASS143N | Chair Massage* | 2 | 0 | 2 |
| MASS145N | Aromatherapy | 2 | 0 | 2 |
| MASS148N | Somatic Massage* | 2 | 0 | 2 |
| MASS153N | Trigger Point Therapy and Myofascial Release* | 2 | 0 | 2 |
| BIOL115N | Nutrition | 3 | 0 | 3 |

*Please check course descriptions for prerequisites and corequisites.

**Students must take a minimum of two (2) electives.

Associate in Arts Degree in Liberal Arts

(Day/Evening/Online Program)

The mission of the Associate in Arts in Liberal Arts degree program is to prepare students for successful transfer to a four-year baccalaureate degree program. To achieve this purpose, the liberal arts program provides students with a broad academic experience in fundamental areas of human knowledge, and it endeavors to orient them to the intellectual, social, and natural world. In the degree program students will study a coherent and substantive balance of English, mathematics, the sciences, the arts and humanities, and the social sciences.

In addition to the transfer function of the Liberal Arts Program, the liberal arts have a practical application by providing essential skills needed by students in their personal and professional lives. These skills include the ability to: 1) communicate effectively; 2) think critically; 3) use quantitative tools; 4) employ technology as an information resource; 5) apply research methods to solve problems; 6) reason about contemporary ethical issues and values; 7) embrace the importance of cultural diversity and a global perspective.

By identifying early the four-year college to which they wish to transfer, and with the assistance of academic advisors, students will develop a program of study that meets their future plans. Requirements of the four-year college will guide some of the course selections chosen by students, but future plans and areas of personal interest will also contribute to students' program design. While the Liberal Arts program is ideal for students who wish to explore a variety of academic interests, students with more specific goals may choose to earn an Associate in Arts in Liberal Arts in one of the following programs: Communications, English, History, Mathematics, Psychology, or Science.

Upon the completion of the degree in Liberal Arts, graduates will be able to:

1. Communicate effectively and fluently; read with comprehension; listen, speak and write competently.
2. Develop skills in reflection, analysis, logical reasoning, and evaluation to formulate judgments, reach conclusions, and solve problems.
3. Evaluate and utilize quantitative and qualitative data and apply mathematical and scientific principles and methods.
4. Utilize technology to locate, evaluate, organize, and utilize information accurately and responsibly.
5. Acquire knowledge and skills to function effectively as informed and responsible citizens.
6. Acquire knowledge and skills that will enable respect for diversity as well as an awareness of global interdependency.

In addition, the graduate will be able to demonstrate the competency in the general education outcomes.

FIRST YEAR - FALL SEMESTER

| | CL | LAB | CR |
|--|----|-----|----|
| ANTH105N Ethnography of Work | 3 | 0 | 3 |
| ENGL101N College Composition | 4 | 0 | 4 |
| General Education Core Requirement: History / Political Science | 3 | 0 | 3 |
| General Education Core Requirement: Quantitative Literacy* | 4 | 0 | 4 |
| General Education Elective | 3 | 0 | 3 |

Semester Credits: 17

FIRST YEAR - SPRING SEMESTER

| | CL | LAB | CR |
|---|-----|-----|-----|
| General Education Core Requirement: English / Communications | 3 | 0 | 3 |
| General Education Core Requirement: Behavioral Social Science | 3 | 0 | 3 |
| General Education (or Core Requirement): Quantitative Literacy* | 3/4 | 0 | 3/4 |
| General Education Core Requirement: Humanities / Fine Arts or Global Awareness | 3 | 0 | 3 |
| Open Elective | 3 | 0 | 3 |

Semester Credits: 15/16

SECOND YEAR - FALL SEMESTER

| | CL | LAB | CR |
|--|----|-----|----|
| General Education Core Requirement: Science | 3 | 2/3 | 4 |
| General Education Elective (or Core Requirement): Behavioral Social Science: or General Education Elective (or Core Requirement): History / Political Science | 3 | 0 | 3 |
| General Education Elective (or Core Requirement): Humanities / Fine Arts or Global Awareness | 3 | 0 | 3 |
| General Education Elective | 3 | 0 | 3 |
| Open Elective | 3 | 0 | 3 |

Semester Credits: 16

SECOND YEAR - SPRING SEMESTER

| | CL | LAB | CR |
|---|----|-----|----|
| General Education Elective (or Core Requirement): Science | 3 | 2/3 | 4 |
| General Education Elective (or Core Requirement): Humanities / Fine Arts or Global Awareness | 3 | 0 | 3 |
| General Education Elective | 3 | 0 | 3 |
| General Education Elective | 3 | 0 | 3 |
| Open Elective | 3 | 0 | 3 |
| Open Elective (as needed) | | | |

Semester Credits: 16

Minimum 64 Credits

A minimum of 64 credits must be earned in the required categories to complete the program of studies. A minimum of 16 credits must be earned at NCC, and 8 of those 16 credits must be earned in courses at the 200 level.

Associate in Science Degree in Mathematics (Day/Evening Program)

The Associate in Science Degree in Mathematics has been developed to provide the first two years of preparation for a student wishing to complete a bachelor degree with a major in mathematics or mathematics education.

In addition, the Mathematics degree provides a strong foundation for a student who wishes to transfer to a four-year institution to study engineering, physics, or related fields.

Students graduating in mathematics will be capable of interpreting the language of mathematics, perform accurate mathematical calculations, and be able to understand how mathematics can be utilized to model natural phenomena.

Calculus-based Physics I and Calculus-based Physics II are recommended as laboratory science courses to meet the General Education requirements at Nashua Community College.

Students are encouraged to work closely with their academic advisor while at NCC. An early decision by a student as to which four-year college/university he/she plans to transfer will make the advising process more effective.

Upon the completion of the degree in Mathematics, graduates will be able to:

1. Demonstrate technical proficiency and effective problem solving ability in completing mathematical processes.
2. Apply mathematical concepts to other disciplines including business, economics, social sciences, and natural sciences.
3. Communicate mathematics effectively in both oral and written formats using appropriate mathematical language.
4. Use appropriate logical reasoning, understand mathematical proof and be capable of justifying results.

In addition, the graduate will be able to demonstrate competency in the general education outcomes.

FIRST YEAR - FALL SEMESTER

| | | CL | LAB | CR |
|--|---------------------|----|-----|----|
| MATH210N | Calculus I | 4 | 0 | 4 |
| ENGL101N | College Composition | 4 | 0 | 4 |
| MATH106N | Statistics I | 4 | 0 | 4 |
| General Education Core Requirement: Science* | | 3 | 2/3 | 4 |

Semester Credits: 16

FIRST YEAR - SPRING SEMESTER

| | | CL | LAB | CR |
|---|----------------|----|-----|----|
| MATH211N | Calculus II | 4 | 0 | 4 |
| MATH215N | Linear Algebra | 4 | 0 | 4 |
| General Education Core Requirement: English/Communications | | 3 | 0 | 3 |
| General Education Elective (or Core Requirement): Science* | | 3 | 2/3 | 4 |

Semester Credits: 15

SECOND YEAR - FALL SEMESTER

| | | CL | LAB | CR |
|--|---|----|-----|----|
| MATH170N | Discrete Mathematics | 4 | 0 | 4 |
| MATH212N | Calculus III - Multivariate Calculus | 4 | 0 | 4 |
| General Elective Core Requirement: Behavioral Social Science | | 3 | 0 | 3 |
| General Education Elective (or Core Requirement): Humanities/Fine Arts OR Global Awareness | | 3 | 0 | 3 |

Semester Credits: 14

SECOND YEAR - SPRING SEMESTER

| | | CL | LAB | CR |
|--|------------------------|----|-----|----|
| CSCI175N | Programming Using C++ | 2 | 2 | 3 |
| MATH220N | Differential Equations | 4 | 0 | 4 |
| General Education Elective (or Core Requirement): Behavioral Social Science OR General Education Elective (or Core Requirement): History/Political Science | | 3 | 0 | 3 |
| General Education Elective (or Core Requirement): Humanities/Fine Arts OR Global Awareness | | 3 | 0 | 3 |
| General Education Core Requirement: History/Political Science | | 3 | 0 | 3 |

Semester Credits: 16

Total 61 Credits

*Recommended Lab Science courses are Calculus-Based Physics I and Calculus-Based Physics II.

Associate in Science Degree in Mechanical Design Technology

(Day/Evening Program)

Mechanical Design Technology responds to industry needs for trained individuals who can follow the design process from inspiration to the final production design of manufactured products. The Mechanical Design Technology program prepares specialists who are capable of integrating all the steps of the design process.

The mechanical designer requires knowledge in many areas including Computer Aided Drafting and Design, Machine Shop, Robotics, and Machine Components.

Foundation courses will provide knowledge of physics, mathematics, machine shop practices, machine theory and automation programming. Subsequent courses build upon this basic knowledge to develop applications related to modern machine design.

To prepare students for the rapid pace of technological changes in the workplace, the Mechanical Design Technology program seeks to develop long-term sustainable design and problem-solving capabilities.

While manufacturing has had its struggles in recent years, demand is expected to be strong for mechanical designers as companies emphasize high-quality and safe products that are easy to use. High technology products in medicine, transportation, and other fields, and growing global competition among businesses are expected to keep designers busy.

Technical Standards: Please refer to Technical Standards section for details regarding this program.

Upon the completion of the degree in Mechanical Design Technology, graduates will be able to:

1. Evaluate and apply information technology effectively.
2. Generate engineering drawings that conform to industry standards.
3. Create three dimensional CAD models and assemblies that meet specific design criteria.
4. Use three dimensional CAD models for strength and motion analysis, animation, machining and rapid prototyping processes.
5. Evaluate and specify economical and environmentally friendly manufacturing processes and materials for product development.
6. Produce complete and comprehensive drawing packages as well as understand Engineering Change Order procedures.
7. Develop, design and manufacture a socially responsible industrial product.
8. Demonstrate critical and creative thinking skills to meet design and production deadlines.
9. Perform basic automation programming, fluid power, machining, and electronics related tasks in a production or test environment.

In addition, the graduate will be able to demonstrate competency in the general education outcomes.

FIRST YEAR - FALL SEMESTER

| | | CL | LAB | CR |
|----------|--------------------------|----|-----|----|
| CAD111N | CADD I | 3 | 4 | 5 |
| MTTN101N | Manufacturing Processes | 3 | 0 | 3 |
| ENGL101N | College Composition | 4 | 0 | 4 |
| MATH110N | Algebra and Trigonometry | 4 | 0 | 4 |

Semester Credits: 16

FIRST YEAR - SPRING SEMESTER

| | | CL | LAB | CR |
|----------|------------------------|----|-----|----|
| CAD112N | CADD II | 3 | 4 | 5 |
| MTTN118N | Machining Technology* | 2 | 3 | 3 |
| MDTN110N | Automation Programming | 3 | 1 | 3 |
| PHYS130N | Physics I | 3 | 3 | 4 |
| | OR | | | |
| PHYS101N | Physical Science | 3 | 2 | 4 |

Semester Credits: 15

SECOND YEAR - FALL SEMESTER

| | | CL | LAB | CR |
|---|---------------------|----|-----|----|
| CAD215N | CADD III (Pro E) | 3 | 6 | 5 |
| ELET131N | Circuit Analysis I | 3 | 3 | 4 |
| ELMT203N | Applied Mechanics I | 3 | 1 | 3 |
| General Education Core Requirement: English/Communications | | 3 | 0 | 3 |

Semester Credits: 15

SECOND YEAR - SPRING SEMESTER

| | | CL | LAB | CR |
|---|---|----|-----|----|
| MDTN285N | Design Capstone Project | 3 | 2 | 4 |
| ELMT204N | Fluid Power Design | 2 | 1 | 2 |
| ELMT210N | Applied Mechanics II | 2 | 1 | 2 |
| MTTN201N | Lean and Green Manufacturing Methods | 3 | 0 | 3 |
| General Education Core Requirement: Behavioral Social Science | | 3 | 0 | 3 |
| General Education Core Requirement: Humanities / Fine Arts or Global Awareness | | 3 | 0 | 3 |

Semester Credits: 17

Total 63 Credits

*MTTN111AN can be used to satisfy this requirement

Associate in Science Degree in Nursing

(Day Program)

The mission/goal of the Department of Nursing at Nashua Community College is to provide students the opportunity to earn an Associate in Science in Nursing, which prepares them to take the National Council Licensure Examination for Registered Nurses (NCLEX-RN) to become Registered Nurses (RNs), for employment in entry-level positions in nursing, and for further education and professional development.

Fall 2019 Admission Requirements for the Associate in Science in Nursing Program (ASN)

In an effort to provide you with the most current and comprehensive information about our program, prospective nursing students must attend a Nursing Information session prior to submitting an application. Dates and times for info sessions can be found online at www.nashuacc.edu/admissions/information/information-sessions. ASN applications must be completed by December 28, 2018 to be considered for acceptance in the fall 2019 class. A completed application is the responsibility of the nursing candidate. Incomplete applications will not be considered.

Candidates must complete the college admission requirements, the nursing department admission requirements and provide documentation of the following criteria for admission consideration:

- Attendance at a nursing information session.
- Completed application for the program.
- Proof of satisfactory completion of high school or college Algebra, Biology, Chemistry, and English with a grade of C or better. • There is a challenge exam available for Biology and Chemistry for those students who have taken either high school or college level Biology or Chemistry but who did not receive a grade of a "C" or better. Please contact Debra Costa-Nino, Program Coordinator, Biological Sciences and Chemistry, at 603-578-8955 or dcosta-nino@ccsnh.edu for more information.
- Completion of A&P I and Intro to Psychology with a B- or higher within 5 years of the first nursing course or by December 28, 2018.
- Two **professional confidential** references, work or education – related. (Forms provided by college) References must be submitted in a sealed envelope.
- Pre-admission examination: the Test of Essential Academic Skills (TEAS) by Assessment Technologies Institute (ATI) with an adjusted individual score in the following categories: Reading – 74.50% or better, Math – 68.80% or better, Science 55.3% or better and English 66.7% or better.
- The TEAS test evaluates the academic ability of prospective RN students. See www.atitesting.com for more information about preparing for the test and to register for the TEAS.
- The TEAS must be taken within 2 years of the first nursing course.
- Ability to meet the Health, Character, and Technical Standards for the ASN program (please see below).
- Applicants demonstrating the above requirements may be invited for an interview.

Selection Criteria

Selection is determined by a cumulative point system that is based on applicable courses and grades, the interview, Teas scores, and references. Applications will be reviewed and admission decisions will be made by the Vice President of Student and Community Affairs, and the Chair of the Department of Nursing.

Preference will be given to applicants who:

- Are New Hampshire residents.
- Higher grades for A&P I and II relative to the applicant pool
- Higher scores on the interview relative to the applicant pool
- Have completed a greater number of nursing related general education courses relative to the applicant pool.
- Have a history of academic success.

Qualified students who are not accepted in the initial selection process may be assigned to a prioritized waiting list based on the above criteria. They may be subsequently admitted if an opening becomes available. The waiting list will be discarded once classes begin. Applicants still desiring admission must then reapply.

Advanced Placement for Licensed Practical Nurses

Licensed practical nurses may have the opportunity to transfer into the ASN program with advanced standing in the spring semester of the first year on a space available basis. Applicants must have an active LPN license in New Hampshire and successfully complete the National League for Nursing (NLN) Nursing Acceleration Challenge Exam (NACE) with a required overall percent score of 74% or better. Applicants who successfully complete the NLN NACE exam and are accepted into the program will be awarded 8 credits in place of NURS 125N, Fundamental Concepts and Skills for Nursing Practice. The deadline for LPN advanced placement applications is November 1st.

Transfer Students

Students who have been enrolled in a nursing program within the past five years may have the opportunity to transfer into the ASN program at NCC on a space available basis. Nursing credits must be no more than five years old from the start of the first nursing course with a minimum grade of B-. Science credits must be no more than five years old from the start of the first nursing course with a minimum grade of B-. Intro to Psychology and Human Growth and Development must be no more than five years old from the start of the first nursing course with a minimum grade of B-. Applicants must also submit a letter of reference on school letterhead from the director of the nursing program at the previous school. Transfer students must also complete the appropriate NACE exam with the required pass rate. Transcripts of previous college credits may be submitted and will be evaluated for transferability.

Time Allotment for Program Completion

All nursing courses must be completed within (5) five years of the date of entry into the first nursing course. Students must follow the program of study requirements as published in the College Catalog

Associate in Science Degree in Nursing

(Day Program)

in the academic year of their acceptance into the AD Nursing Program. In the event of a curriculum change prior to completion and phasing out of previous courses, the student may be required to repeat one or more courses for placement in the new curriculum.

Upon Conditional Acceptance It is understood that acceptance is conditional upon submission of satisfactory evidence in the form of the following documents:

- A transcript demonstrating the completion of BIOL 201N Anatomy and Physiology I with a minimum grade of B- and PSYC 101N Introduction to Psychology (or equivalent transfer credits) with a minimum of a B-.
- The nursing program utilizes CastleBranch for submission of required documents. All costs associated with Castlebranch and tests required are the responsibility of the student. Accepted students will be given specific information regarding accessing CastleBranch during orientation
- Documents that are required to be submitted include report of a current (within 1 year prior to beginning the first Nursing course) physical examination on the school health form including all required health screening: Two step Mantoux testing to assess exposure to tuberculosis, titers for measles, mumps, rubella (MMR), varicella, hepatitis B, and immunization for tetanus, diphtheria and pertussis (Tdap). Flu immunization is required yearly between September 1 and October 1. Students are responsible for submitting updates to immunizations yearly i.e. flu and Tdap if needed.
- Possess and maintain personal health insurance. Students are responsible for providing documentation of insurance coverage yearly. If insurance information changes during the academic year, students must notify Castlebranch immediately.
- Possess and maintain professional liability insurance. This professional liability insurance coverage is included in the second semester tuition bill.
- Acquire and maintain certification in cardiopulmonary resuscitation (CPR) at the healthcare provider level (basic life support for healthcare providers from the AHA or Red Cross) that will be valid for the entire two years of the program through graduation
- Complete a criminal background check
- A drug test - must be done within two weeks prior to the first clinical day. The cost is to be incurred by the student.
- Individuals with a court record or a criminal conviction may wish to contact the Board(s) of Registration in Nursing in any state in which they plan to work for guidelines. The NH Board of Nursing can be reached at 603-271-2323. This will allow the individual to make an informed decision about choosing to pursue nursing education at this time.
- Students will repeat the criminal background check, TB and drug testing prior to their senior year.

In addition: Fees may include but are not limited to:

- Clinical Fees
- Assessment Technologies Institute® (ATI) testing package,

V-Sim virtual patient software, DocuCare Electronic Medical Record (EMR) software.

- Uniform, stethoscope, penlight, watch with a second hand, textbooks, skills lab kit and supplies for lab practice, nursing pins, NCLEX preparation and licensure.

Please Note:

Degree requirements must be completed within 5 years of the first nursing course. Completion of the program does not guarantee RN licensure.

Health, Character, and Technical Standards for the Associate in Science in Nursing Program

Technical standards have been established to inform the student of minimum standards to satisfactorily function in the program and ultimately in the profession. Applicants who feel they may not be able to meet one or more of the technical standards listed below should contact the chair of the department of nursing to discuss individual cases. All academically qualified candidates will be considered for admission provided the technical standards for classroom and clinical experiences can be met with reasonable accommodations. The College must ensure that patients/clients of clinical affiliates are not placed in jeopardy by students during learning experiences. Therefore, students in service learning and clinical experiences must demonstrate sufficient emotional stability to withstand the stress, uncertainties, and rapidly changing circumstances that characterize the responsibilities of patient/client care. Furthermore, the student is expected to have the emotional stability required to exercise sound judgment, accept direction and guidance from a supervisor or faculty member, and establish rapport and maintain sensitive interpersonal relationships with patients, their families, agency staff, faculty, and classmates. Applicants must be in good physical and mental health to meet program objectives. Technical Standards information is also available in the Technical Standards section of this catalog.

1. Sufficient hearing to assess patient needs, physiological signs, understand instructions, identify emergency signals, assess body functions, and engage in telephone conversation.
2. Sufficient visual acuity to observe patients, manipulate equipment, interpret data, ensure a safe environment, identify color changes, read fine print/writing, and do fine calibrations.
3. Sufficient speech and language ability to express, comprehend, and exchange information and ideas in English verbally, nonverbally, and in writing, and to interact clearly and logically with patients, family members, physicians, nurses, faculty, peers, and other ancillary medical personnel.
4. Sufficient tactile ability to assess pressure, temperature, position, vibration, and movement.
5. Ability to work with frequent interruptions, to respond appropriately in emergencies or unexpected situations, and to cope with extreme variations in workload and stress levels.
6. Sufficient emotional intelligence to exhibit empathy and compassion, to maintain productive relationships in classroom and clinical settings, and to integrate direction, instruction, and criticism into behavioral changes.
7. Sufficient strength, endurance, and motor coordination to

Associate in Science Degree in Nursing

(Day Program)

perform the following physical activities: participation in lengthy classroom activities; fine and gross motor skills to carry out procedures; ability to safely and frequently handle, lift, and/or carry equipment and patients up to thirty pounds; stamina to complete an eight to twelve hour work shift; and ability to perform CPR.

8. Sufficient information technology access and skills to complete assignments according to program standards.
9. Applicants with latex allergies are advised to seek professional medical consultation.

Accreditation

Accreditation Commission for Education in Nursing (ACEN)
3343 Peachtree Road, Suite 850
Atlanta, GA 30326
404-975-5000
www.acenursing.org

Questions about the status of accreditation for the Nursing program should be addressed to the Accreditation Commission for Education in Nursing, Inc.

Accreditation Commission for Education in Nursing (ACEN)
3343 Peachtree Road, Suite 850
Atlanta, GA 30326
404-975-5000
www.acenursing.org

The nursing program is also approved by the New Hampshire Board of Nursing (NHBON). Upon satisfactory completion of the program, the graduate is eligible to apply to the NHBON for the National Council Licensing Examination for Registered Nurses (NCLEX-RN). NCC's NCLEX pass rates can be viewed at www.nh.gov/nursing. The NHBON's licensing regulations may restrict candidates who have been involved in civil or criminal legal proceedings. Questions about licensing restrictions should be addressed to the NH Board of Nursing, 121 South Fruit Street, Concord, NH 03301, (603) 271- 2323.

Criteria for Progression in the Program

The curriculum includes a general education component that supports courses in nursing. Students must earn a minimum grade of B- in Anatomy and Physiology I and II, Microbiology, Intro to Psych, Human Growth and Development and in all nursing courses in order to progress in the program. Courses in nursing are taken sequentially and most of them include a clinical component. Students who do not meet criteria for progression may seek re-entry at the point of last success with approval from the chair of the department and on a space-available basis. Re-entry is not guaranteed. A student may be granted only one opportunity to re-enter the program.

Continuing Education

Graduates of the program are encouraged to earn the Bachelor and/or Master of Science in Nursing. Articulation agreements are maintained with Franklin Pierce University, Granite State College,

Rivier University, and Southern NH University. Students may also identify other programs that meet their specific needs. Students planning to continue their education toward the Bachelor's or Master's of Science in Nursing should plan their program of study with an academic advisor from the Department of Nursing. Further information can be obtained from the respective programs or from the Chair of the Department of Nursing.

Program Outcomes:

Upon completion of the degree in Nursing, graduates will be able to:

1. Plan and deliver safe individualized care to patients by integrating the nursing process and pertinent nursing knowledge, principles of teaching/learning, and preferences of patients or legal designees across the lifespan, diversity of culture, and the levels of prevention.
2. Practice collaboratively on the multi-professional health care team using principles of leadership across the disciplines and throughout the healthcare system to influence and facilitate conflict resolution and the establishment and achievement of shared goals.
3. Support a culture of continuous quality improvement by using data to monitor outcomes; identifying and reporting actual or potential problems; collaborating with the multi-professional team throughout the healthcare system; and developing evidence-based strategies for optimal practice.
4. Use health care system resources and technology, including information technology, time, policies and procedures, materials, and equipment, to coordinate and deliver individual and/or population-focused care that is effective and efficient.
5. Communicate clearly in goal-oriented, culturally sensitive, caring, concise, and timely way using written, verbal, nonverbal, and electronic modalities.
6. Demonstrate accountability for professional practice using legal, ethical, and regulatory guidelines and participate in activities that contribute to lifelong learning.

In addition, the graduate will be able to demonstrate competency in the general education outcomes.

Associate in Science Degree in Nursing

(Day Program)

NURSING: TWO YEAR CURRICULUM PLAN

The following courses must be completed with a B- by the due date for all application materials:

| | | CL | LAB | CR |
|----------|------------------------|----|-----|----|
| BIOL201N | Anatomy & Physiology I | 3 | 3 | 4 |
| PSYC101N | Intro to Psychology | 3 | 0 | 3 |

Semester Credits: 7

FIRST YEAR - FALL SEMESTER

| | | CL | LAB | CR |
|----------|--|----|-----|----|
| ENGL101N | College Composition I | 4 | 0 | 4 |
| BIOL202N | Anatomy & Physiology II | 3 | 3 | 4 |
| PSYC201N | Human Growth & Development | 3 | 0 | 3 |
| NURS125N | Fundamental Concepts and Skills for Nursing Practice** | 4 | 12 | 8 |

Semester Credits: 19

FIRST YEAR - SPRING SEMESTER

| | | CL | LAB | CR |
|---|--|----|-----|----|
| NURS140N | Nursing Care I: Concepts and Skills | 4 | 12 | 8 |
| BIOL210N | Medical Microbiology | 3 | 3 | 4 |
| General Education Core Requirement: Quantitative Literacy* | | 4 | 0 | 4 |

Semester Credits: 16

FIRST YEAR - SUMMER SEMESTER

| | | CL | LAB | CR |
|----------|--------------------------------------|----|-----|----|
| NURS230N | Pharmacology for Nursing Practice | 3 | 0 | 3 |

Semester Credits: 3

SECOND YEAR - FALL SEMESTER

| | | CL | LAB | CR |
|---|---|----|-----|----|
| NURS220N | Nursing Care II: Concepts and Skills | 4 | 15 | 9 |
| General Education Core Requirement: English / Communications | | 3 | 0 | 3 |

Semester Credits: 12

SECOND YEAR - SPRING SEMESTER

| | | CL | LAB | CR |
|---|---|----|-----|----|
| NURS240N | Management of Nursing Care Across the Lifespan | 4 | 15 | 9 |
| General Education Core Requirement: Humanities / Fine Arts or Global Awareness | | 3 | 0 | 3 |

Semester Credits: 12

Total 69 Credits

*MATH106N recommended

**LPNs may challenge by exam

Associate in Science Degree in Paralegal Studies

(Evening Program)

The Paralegal Studies Program provides students with the education and training necessary to seek and begin a career as a paralegal. Under the supervision of a lawyer, paralegals will: Gather background information, interview clients and witnesses; perform legal research and writing; draft legal documents and contracts; and assist attorneys in preparing for court and at trial.*

For the student looking to pursue an education beyond the associate degree, this program is designed to provide transferability to bachelor degree programs.

All paralegal courses at Nashua Community College are taught by experienced attorneys. In all paralegal specialty courses, the students will not only be taught the essential knowledge of the law, but will be also given the practical knowledge necessary for employment and success as a paralegal.

For the Mission Statement, Goals and Objectives of the Paralegal Studies Program of Nashua Community College, go to the Paralegal Studies Program web pages on the College website at www.nashuacc.edu.

Nashua Community College is a Sustaining Member of the Paralegal Association of New Hampshire (www.panh.org).

A criminal conviction may preclude employment as a paralegal. A criminal record check may be required for the Paralegal Internship and/or employment by the organization, law firm, or government agency, and which is the sole responsibility of the student.

To be successful in the Paralegal Studies Program, students should have an interest in the law, must be diligent and committed to their studies, be dependable, have good communication skills, be well-organized; or be willing and able to develop all these skills and qualities.

Internship Considerations: Please refer to Technical Standards section for details regarding internship requirements.

All paralegal courses are taught by experienced attorneys.
*Paralegals may not provide legal services directly to the public except as permitted by law.

Upon the completion of the degree in Paralegal Studies, graduates will be able:

1. To demonstrate they possess the knowledge, skills, values and attitudes necessary to work effectively, competently, ethically and successfully as a paralegal/legal assistant for a law office/firm, government agency, or other private or public law-related organization.
2. To understand their role as paralegals under the supervision of lawyers, how law is practiced by lawyers in the various settings, and understand the duties and responsibilities of lawyers and paralegals for the delivery of legal services in a competent, professional, and ethical manner.
3. To demonstrate they have been adequately and effectively trained to produce work on a professional level as a paralegal, they possess the fundamental knowledge of the legal system and principles of law acquired in each of their paralegal specialty courses, and possess

the practical knowledge of the practice of law by lawyers necessary to work successfully as a paralegal.

4. To demonstrate they acquired effective communication, quantitative, and analytical skills necessary to work competently and successfully as a paralegal.
5. To demonstrate they possess the necessary time management and organizational skills as they are applied to the duties and responsibilities of paralegals working in the legal profession, including: prioritizing their assigned tasks and projects working independently or with others; preparing checklists for work done and to be done; organizing and categorizing legal files and documents; maintaining accurate calendars of all important matters, dates and deadlines; and maintaining accurate time records of all their work.
6. To demonstrate they are prepared to engage in proper legal analysis of issues of law, to conduct thorough legal research of the issues of law using traditional and technology-based legal research sources and tools, and effectively communicate the results of their legal research, analysis and legal reasoning in oral presentations and in written work-product on a professional level.
7. To effectively communicate with other persons and entities associated with the field of law by utilizing oral communication skills and writing skills on a professional level.
8. To draft legal documents and forms by following required legal procedures and directions of their supervising lawyer.
9. To demonstrate they possess a working understanding of the legal purposes and functions of the different branches and departments of the federal and state governments and court systems, and of the procedural law governing civil and criminal cases from the commencement of a case, through trial, judgment/sentencing and appeal.
10. To perform proper and thorough investigation of legal matters and cases they are assigned by their supervising lawyer through the gathering of relevant evidence and through interviews with clients and witnesses.
11. To demonstrate an understanding of Alternative Dispute Resolution (ADR) and its importance as an alternative to legal action and court proceedings, including mediation and all forms of voluntary, mandatory, binding and non-binding arbitration.
12. To demonstrate they possess the computer skills necessary to work efficiently as a paralegal professional, possess a working knowledge of integrated software applications and word processing utilized in the legal field, and are familiar with other technology utilized in the legal field, including the use of computer databases, case management systems, and trial presentations.
13. To apply basic principles, terminology and methods of financial accounting.
14. To compete effectively in the employment search process, from employment research, through resume and cover letter preparation, interview preparation and skills, and interview follow-up.
15. To demonstrate an understanding of the importance of community service and the importance of making quality legal services available to all persons in the community regardless of socioeconomic status.
16. To demonstrate an understanding of the importance of having a sensitivity and respect for persons and groups with cultures, ethnic backgrounds, and traditions different from their own both in the legal profession and in every-day living.

In addition, the graduate will be able to demonstrate competency in the general education outcomes.

Associate in Science Degree in Paralegal Studies (Evening Program)

FIRST YEAR - FALL SEMESTER

| | | CL | LAB | CR |
|----------|---|----|-----|----|
| ACCT101N | Financial Accounting I | 4 | 0 | 4 |
| PLGL101N | Basic Legal Studies (1st half semester) | 3 | 0 | 3 |
| PLGL102N | Legal Research and Writing (2nd half semester) | 3 | 0 | 3 |
| BCPT101N | Computer Technology & Applications | 2 | 2 | 3 |
| ENGL101N | College Composition | 4 | 0 | 4 |

Semester Credits: 17

FIRST YEAR - SPRING SEMESTER

| | | CL | LAB | CR |
|---|---|----|-----|----|
| ENGL103N | Professional Writing & Presentations | 3 | 0 | 3 |
| PSYC130N | Human Relations | 3 | 0 | 3 |
| PLGL230N | Contracts & Business Organizations (1st half semester) | 3 | 0 | 3 |
| PLGL250N | Family Law (2nd half semester) | 3 | 0 | 3 |
| General Education Core Requirement: Quantitative Literacy* | | | | |
| | | 4 | 0 | 4 |

Semester Credits: 16

SECOND YEAR - FALL SEMESTER

| | | CL | LAB | CR |
|--|---------------------------------|----|-----|----|
| PLGL210N | Litigation & Trial Preparation | 3 | 0 | 3 |
| PLGL220N | Real Estate Law | 3 | 0 | 3 |
| HIST241N | American Constitutional History | 3 | 0 | 3 |
| BCPT119N | Software Applications | 2 | 2 | 3 |
| General Education Core Requirement: Humanities/Fine Arts** OR | | | | |
| Global Awareness** | | 3 | 0 | 3 |

Semester Credits: 15

SECOND YEAR - SPRING SEMESTER

| | | CL | LAB | CR |
|--|--------------------------------|----|-----|-----|
| PLGL240N | Probate, Estates and Trusts | 3 | 0 | 3 |
| PLGL260N | Criminal Law | 3 | 0 | 3 |
| PLGL290N | Paralegal Internship & Seminar | 1 | 8 | 3 |
| OR | | | | |
| PLGL280N | Paralegal Capstone | 3 | 0 | 3 |
| General Education Core Requirement: Science*** | | | | |
| | | 3 | 0/3 | 3/4 |

Semester Credits: 12/13

Total 60/61 Credits

PARALEGAL CERTIFICATE*

(Evening Program)

| | | CL | LAB | CR |
|----------|---------------------------------------|----|-----|----|
| ENGL101N | College Composition | 4 | 0 | 4 |
| PLGL101N | Basic Legal Studies | 3 | 0 | 3 |
| PLGL102N | Legal Research & Writing | 3 | 0 | 3 |
| PLGL230N | Contracts & Business Organizations | 3 | 0 | 3 |
| PLGL220N | Real Estate Law | 3 | 0 | 3 |
| PLGL210N | Litigation & Trial Preparation | 3 | 0 | 3 |
| PLGL240N | Probate, Estates and Trusts | 3 | 0 | 3 |
| PLGL250N | Family Law | 3 | 0 | 3 |
| PLGL260N | Criminal Law | 3 | 0 | 3 |

Total 28 Credits

*Note: Paralegal Certificate courses offered and to be taken in same semesters listed under associate degree.

In addition, the graduate will be able to demonstrate competency in the general education outcomes.

*MATH106N, MATH110N, or MATH115N are recommended. **HUMA110N, HUMA230N, or HUMA109N recommended.

** Any language recommended.

***BIOL115N 3 credits; or BIOL111N (lab) 4 credits recommended.

Associate in Science Degree in Precision Manufacturing

(Day/Evening Program)

At the heart of our mechanized world is the Precision Manufacturing industry requiring skilled technicians to carry out new ideas and plans in the production of all types of manufactured parts. Many of these skilled technicians can earn more than \$50,000 a year.

Precision Manufacturing students receive applied training in basic concepts of machine tool processes during the first year.

In the second year, students will receive training in such specialized areas as production machining and Computer Aided Manufacturing (CAM), Computer Numerical Control (CNC) programming, setup and operation.

Employment opportunities include CNC specialists, mold makers, technical support technicians, field service representatives, and general machinists.

In addition to the general admission requirements, applicants should be aware of the following criteria:

1. A minimum of high school Algebra I is recommended.
2. Good skills in written English are required.
3. Other high school courses such as physics and computer programming are recommended.
4. It is recommended that senior students purchase a basic machinist tool kit.

Technical Standards: Please refer to Technical Standards section for details regarding this program.

Upon the completion of the degree in Precision Manufacturing, the graduate will be able to:

1. Analyze and interpret drawings using ANSI Y 14.5M (2009) standards of Geometric Dimensioning and Tolerancing (GDT) to plan, program and produce complex machined parts to specifications using CNC and manual machines.
2. Work collaboratively to produce a quantity of precision assemblies in an accurate and timely fashion, using CAD/CAM software, writing G and M code programs, planning the project sequence, producing parts within tolerances and inspecting parts for conformance as part of the capstone experience.
3. Use Statistical Process Control, lean manufacturing techniques, ANSI and ISO standards, material safety data sheets, and responsible environmental procedures to safely manage production of machined and fabricated products.
4. Communicate technical and procedural instructions clearly in verbal, written, graphic and electronic formats.
5. Diagnose and solve machining and production problems using appropriate technical resources in a logical, systematic fashion.
6. Demonstrate appropriate interpersonal interactions, conscientious work habits, personal effectiveness, professional conduct, organizational skills and creative problem-solving to enhance job acquisition, retention and advancement.

In addition, the graduate will be able to demonstrate competency in the general education outcomes.

FIRST YEAR - FALL SEMESTER

| | | CL | LAB | CR |
|----------|-----------------------------------|----|-----|----|
| MTTN101N | Manufacturing Processes | 3 | 0 | 3 |
| MTTN111N | Machine Tool Processes & Theory I | 3 | 9 | 6 |
| ENGL101N | College Composition | 4 | 0 | 4 |
| MATH110N | Algebra and Trigonometry | 4 | 0 | 4 |
| OR | | | | |
| MATH105N | Technical Mathematics | 4 | 0 | 4 |

Semester Credits: 17

FIRST YEAR - SPRING SEMESTER

| | | CL | LAB | CR |
|-------------------------------------|------------------------------------|----|-----|----|
| MTTN122N | Machine Tool Processes & Theory II | 3 | 9 | 6 |
| CAD131N | Technical Drawing | 2 | 3 | 3 |
| MTTN123N | Principles of CNC | 2 | 3 | 3 |
| General Education Core Requirement: | | | | |
| | English/Communications | 3 | 0 | 3 |

Semester Credits: 15

SECOND YEAR - FALL SEMESTER

| | | CL | LAB | CR |
|---|--|----|-----|----|
| MTTN231N | Adv Machine Tool Processes & Theory I | 3 | 9 | 6 |
| MTTN223N | Computer Aided Manufacturing | 2 | 3 | 3 |
| General Education Core Requirement: Science | | | | |
| | Behavioral Social Science or History/Political Science | 3 | 2/3 | 4 |
| | | 3 | 0 | 3 |

Semester Credits: 16

SECOND YEAR - SPRING SEMESTER

| | | CL | LAB | CR |
|-------------------------------------|--|----|-----|----|
| MTTN232N | Advanced Machine Tool Processes & Theory II: A Capstone Experience | 3 | 9 | 6 |
| MTTN201N | Lean & Green Manufacturing Methods | 3 | 0 | 3 |
| General Education Core Requirement: | | | | |
| | Humanities / Fine Arts or Global Awareness | 3 | 0 | 3 |

Semester Credits: 12

Total 60 Credits

CERTIFICATES

Machine Tool Technology CNC Programming Certificate

(Day/Evening Program)

| | | CL | LAB | CR |
|----------|---|----|-----|----|
| MTTN101N | Manufacturing Processes | 3 | 0 | 3 |
| MTTN111N | Machine Tool Processes & Theory I | 3 | 9 | 6 |
| MATH110N | Algebra & Trigonometry | | | |
| OR | | | | |
| MATH105N | Technical Math | 4 | 0 | 4 |
| MTTN122N | Machine Tool Processes & Theory II | 3 | 9 | 6 |
| CAD131N | Technical Drawing | 2 | 3 | 3 |
| MTTN123N | Principles of CNC | 2 | 3 | 3 |
| MTTN231N | Advanced Machine Tool Processes & Theory I | 3 | 9 | 6 |
| MTTN223N | Computer Aided MFR | 2 | 3 | 3 |
| MTTN232N | Adv. Machine Tool Processes & Theory II | 3 | 9 | 6 |

Total 40 Credits



Metrology and Quality Control for Precision Manufacturing Certificate

(Day/Evening Program)

| | | CL | LAB | CR |
|----------|-----------------------------|----|-----|----|
| MTTN101N | Manufacturing Processes | 3 | 0 | 3 |
| MTTN111N | Machine Tool Theory I | 3 | 9 | 6 |
| MATH105N | Technical Mathematics | 4 | 0 | 4 |
| CAD131N | Technical Drawing | 2 | 3 | 3 |
| MTTN201N | Lean & Green Manufacturing | 3 | 0 | 3 |
| MTTN210N | Metrology & Quality Control | 2 | 3 | 3 |

Total 22 Credits

Precision Manufacturing CNC Operator Certificate

(Day/Evening Program)

| | | CL | LAB | CR |
|------------------|---|----|-----|----|
| MTTN101N | Manufacturing Processes | 3 | 0 | 3 |
| MTTN111N | Machine Tool Process and Theory I | 3 | 9 | 6 |
| MATH105N | Technical Mathematics | 4 | 0 | 4 |
| OR | | | | |
| MATH110N | Algebra & Trigonometry | 4 | 0 | 4 |
| Spring Semester: | | | | |
| CAD131N | Technical Drawing | 2 | 3 | 3 |
| MTTN122N | Machine Tool Processes and Theory II | 3 | 9 | 6 |
| MTTN123N | Principles of CNC | 2 | 3 | 3 |
| Summer Semester: | | | | |
| MTTN133N | CNC Programming and Operation | 2 | 3 | 3 |

Total 28 Credits

Associate in Arts Degree in Psychology (Day/Evening Program)

The Associate in Arts Degree in Psychology has been developed to provide the first two years of preparation for a student wishing to complete a bachelor degree with a major in Psychology.

Psychology is the wide-ranging scientific study and exploration of behavior and mental processes. Critical thinking skills such as interpretation, analysis, construction and assessment of material will be emphasized and developed.

Students should be aware that careers in the field of professional psychology typically require a master's degree or doctoral degree, depending upon the career path selected.

The courses in this program are designed for students who intend to complete the first two years of a bachelor's degree program at Nashua Community College and then transfer to a four-year college or university to complete the bachelor's degree with a major in psychology. Psychology courses are an excellent complement to any profession or course of training that involves human interaction.

Students are encouraged to work closely with their academic advisor while at NCC. An early decision by a student as to which four-year college/university he/she plans to transfer will make the advising process more effective.

Upon the completion of the degree in Psychology, graduates will be able to:

1. Demonstrate familiarity with the major concepts, theoretical perspectives, empirical findings and historical trends in psychology.
2. Understand and apply basic research methods in psychology, including research design, data analysis and interpretation.
3. Understand and apply psychological principles to personal, social and organizational issues.
4. Understand and weigh evidence, tolerate ambiguity, act ethically and reflect other values that are the underpinnings of psychology as a discipline.
5. Develop insight into their own and other's behavior and mental processes and apply effective strategies for self-management and self-improvement.

In addition, the graduate will be able to demonstrate competency in the general education outcomes.

FIRST YEAR - FALL SEMESTER

| | | CL | LAB | CR |
|-------------------------------------|----------------------------|----|-----|----|
| ENGL101N | College Composition | 4 | 0 | 4 |
| General Education Core Requirement: | | | | |
| History/Political Science | | 3 | 0 | 3 |
| General Education Core Requirement: | | | | |
| Humanities/Fine Arts | | 3 | 0 | 3 |
| PSYC101N | Introduction to Psychology | 3 | 0 | 3 |
| MATH106N | Statistics I | 4 | 0 | 4 |

Semester Credits: 17

FIRST YEAR - SPRING SEMESTER

| | | CL | LAB | CR |
|---|----------------------------|----|-----|----|
| PSYC201N | Human Growth & Development | 3 | 0 | 3 |
| PSYC220N | Research Methods | 3 | 0 | 3 |
| General Education Elective (or Core Requirement): | | | | |
| Humanities/Fine Arts or Global Awareness | | 3 | 0 | 3 |
| MATH206N | Statistics II | 4 | 0 | 4 |
| General Education Core Requirement: | | | | |
| English Communications | | 3 | 0 | 3 |

Semester Credits: 16

SECOND YEAR - FALL SEMESTER

| | | CL | LAB | CR |
|---|---------------------|----|-----|----|
| PSYC210N | Abnormal Psychology | 3 | 0 | 3 |
| General Education Elective (or Core Requirement): | | | | |
| Humanities/Fine Arts or Global Awareness | | 3 | 0 | 3 |
| BIOL105N | Biology in Focus I | 3 | 3 | 4 |
| PSYCxxxN | Psychology Elective | 3 | 0 | 3 |
| General Education Elective (Core Requirement): | | | | |
| Behavioral Social Science | | 3 | 0 | 3 |

Semester Credits: 16

SECOND YEAR - SPRING SEMESTER

| | | CL | LAB | CR |
|---|---|----|-----|-----|
| PSYC290N | Psychology Internship: A Capstone Experience | 1 | 8 | 3 |
| PSYC207N | Social Psychology | 3 | 0 | 3 |
| PSYCxxxN | Psychology Elective | 3 | 0 | 3 |
| General Education Elective (or Core Requirement): | | | | |
| Science | | 3 | 0/3 | 3/4 |

Semester Credits: 12/13

Total 61/62 Credits

A minimum of 60 credits must be earned in the required categories to complete the program of studies. A minimum of 15 credits must be earned at Nashua Community College, and 8 of those 15 credits must be earned in courses at the 200 level.

Associate in Science Degree in Software Development

(Day/Evening Program)

The Software Development Curriculum provides a strong foundation for students interested in transferring to a bachelor's degree in either software development, computer science or other computer-related fields. The combination of theoretical and applied courses provides the student with the concepts and reinforces them with hands on experience. The curriculum has been strongly influenced by the Association of Computing Machinery's (ACM) guidelines for associate degrees in software. Students completing this curriculum will have knowledge in the following areas:

- Programming language such as C++
- Data Structures such as stacks, queues, and linked lists
- Object oriented programming
- Windows programming using Java
- Systems Analysis including Data Flow & Use
- Case/Class design
- Database design and management
- Overview of basic networking

Technical Standards: Please refer to Technical Standards section for details regarding this program.

At the completion of the degree in Software Development, graduates will be able to:

1. Solve problems through the application of appropriate research methods.
2. Identify the benefits of quality, timeliness and continuous improvement in regards to software development.
3. Apply critical-thinking skills to identify, analyze and solve problems.
4. Communicate software development related information effectively to a diverse audience using visual and written modes.
5. Demonstrate the ability to apply all facets of the software development life cycle during a project.
6. Demonstrate the ability to follow a systematic progression of software development and refinement when designing and developing software for a project.
7. Participate effectively as a member of a software development team.
8. Articulate an understanding of the need for lifelong learning.
9. Demonstrate an understanding of diversity through interaction with project teammates.
10. Develop software programs that reflect the application of up-to-date tools and techniques of the discipline.

In addition, the graduate will be able to demonstrate competency in the general education outcomes.

FIRST YEAR - FALL SEMESTER

| | | CL | LAB | CR |
|----------|--|----|-----|----|
| ENGL101N | College Composition | 4 | 0 | 4 |
| CSCI106N | Introduction to Software & Web Development | 3 | 0 | 3 |
| CSCI102N | Website Development I | 2 | 2 | 3 |
| CSCI161N | Introduction to Programming | 2 | 2 | 3 |
| MATH110N | Algebra and Trigonometry | 4 | 0 | 4 |

Semester Credits: 17

FIRST YEAR - SPRING SEMESTER

| | | CL | LAB | CR |
|--|--------------------------------|----|-----|----|
| CSCI140N | Essentials of Systems Analysis | 2 | 2 | 3 |
| CSCI175N | Programming: Using C++ | 2 | 2 | 3 |
| MATH170N | Discrete Mathematics | 4 | 0 | 4 |
| CSCI103N | Website Development II | 2 | 2 | 3 |
| General Education Core Requirement: English/Communications* | | | | |
| | | 3 | 0 | 3 |

Semester Credits: 16

SECOND YEAR - FALL SEMESTER

| | | CL | LAB | CR |
|---|--|----|-----|----|
| CSCI207N | Database Design & Management | 2 | 2 | 3 |
| CSCI230N | Object Oriented Programming: Using C++ | 2 | 2 | 3 |
| General Education Core Requirement: Science** | | | | |
| | | 3 | 2/3 | 4 |
| Elective in Major*** | | | | |
| | | 2 | 2 | 3 |
| CSCN116N | Networking Basics | 2 | 2 | 3 |

Semester Credits: 16

SECOND YEAR - SPRING SEMESTER

| | | CL | LAB | CR |
|---|-----------------------------|----|-----|----|
| CSCI278N | Data Structures: Using C++ | 2 | 2 | 3 |
| Elective in Major*** | | | | |
| | | 2 | 2 | 3 |
| General Education Core Requirement: Behavioral Social Science | | | | |
| | | 3 | 0 | 3 |
| General Education Core Requirement: Humanities/Fine Arts or Global Awareness | | | | |
| CSCI290N | Computer Science Internship | 1 | 8 | 3 |

OR

| | | | | |
|----------|--|---|---|---|
| CSCI285N | Senior Software Development Lab: A Capstone Experience | 2 | 2 | 3 |
|----------|--|---|---|---|

Semester Credits: 15

Total 64 Credits

*ENGL122N recommended

**PHYS101N or PHYS130N recommended

***Includes CSCI, CSCN, MATH, or BCPT courses.

Associate in Science Degree in Speech-Language Pathology Assistant*

(Evening Program)

Communication is one of the most critical elements of human existence. The Associate in Science Degree program for Speech-Language Pathology Assistants prepares students to work with individuals who have communication disorders under the supervision of an ASHA-certified, state-licensed speech-language pathologist. Graduates from this program are eligible for certification through the NH Office of Licensed Allied Health Professionals.

The role of the speech-language pathologist has expanded beyond service provision to include administrative, managerial, and supervisory responsibilities. The appropriate use of speech-language pathology assistants is one means to meet the demands and to extend service delivery to persons with communication disorders in a cost-efficient fashion. Job opportunities for speech-language pathology assistants (SLPAs) are growing with the increased demand for speech-language pathologists. Most current positions in New Hampshire are within school districts, although the opportunity for employment in healthcare settings is growing.

The Speech-Language Pathology Assistant Program at NCC has been designed following the American Speech-Hearing-Language Association's Guidelines for the Training, Use, and Supervision of Speech-Language Pathology Assistants.

Students are advised that public schools, nursing homes and rehabilitation facilities require a criminal background check before allowing students to participate in learning experiences at their locations. Students are responsible for any fees that may be incurred in meeting this requirement.

The College must ensure that students in the program do not put themselves or anyone else in jeopardy during classroom observations, participation in fieldwork activities, or Service Learning experiences. Therefore, students must demonstrate sufficient emotional and physical ability to respond quickly and appropriately to unexpected events. In addition, speech-language pathology assistant students need to have excellent communication skills (verbal and nonverbal), empathy, tolerance, patience and creativity. Furthermore, students are expected to have the emotional stability required to exercise sound judgment, accept direction and guidance from a supervisor or faculty member, and establish rapport and maintain sensitive interpersonal relationships with patients/clients, their families, agency staff, faculty, and classmates.

Attendance at classes and clinical experiences is expected.

Applicants to the program must meet the general requirements for admission to the College as well.

The mission of the Speech-Language Pathology Assistant Program is:

- To help students be productive and contributing members of society.
- To prepare post-secondary students to ethically and competently assist in the practice of speech-language pathology under the direction and supervision of a state-licensed, ASHA-certified Speech-Language Pathologist.

- To provide a base in scientific and cultural foundations of a liberal education.
- To promote lifelong learning through the acquisition of values, skills, and attitudes beneficial to both themselves and others.

An interview with the Speech-Language Pathology Program Coordinator is required for admission into the program. Applicants to the program must meet the general requirements for admission to the College as well. Students must maintain a C or above in all Speech-Language Pathology Assistant courses in order to enroll in SPLN290N Capstone Seminar and SPLN291N/292N Practicum.

Technical Standards: Please refer to Technical Standards section for details regarding this program.

Upon the completion of the degree in Speech-Language Pathology Assistant, graduates will be able to:

1. Communicate effectively and professionally, both orally and in writing, with children or adults and their families, as well as colleagues, supervisors, and other professionals, while always directing inquiries for clinical information to the supervising speech-language pathologist.
2. Demonstrate comprehension of and skill utilizing a variety of research methods and scientific inquiry in order to evaluate information critically.
3. Apply the logic of mathematical reasoning and demonstrate proficiency in computational methods and mathematical concepts and applications.
4. Apply critical thinking skills to solve problems, to evaluate arguments and chains of reasoning, and to interpret information.
5. Demonstrate the ability to use contemporary information technology to gather information resources for personal and professional obligations.
6. Demonstrate an understanding of and reasoning ability about contemporary ethical issues and values.
7. Describe developmental patterns of the acquisition of sounds, words, grammatical and syntactical forms, semantics, the receptive and expressive use of language and pragmatic skills.
8. Demonstrate understanding of the basic etiology and symptomology of communication disorders, including developmental delays, voice, language, articulation, phonology, fluency, neurological impairment and hearing impairment.
9. Identify various language and cultural diversities and demonstrate awareness and understanding of student/patient/client needs and cultural values.
10. Describe the general principles of therapeutic intervention and identify the scope, the roles, and major issues of therapy in a variety of settings, age/grade levels, types of treatment, and supervision models used as related to speech and language therapy.
11. Follow documented individual education plans or protocols (IEPs, IFSPs) developed by the supervising speech-language pathologist as well as plan and implement therapy for specific, common problems under the direct supervision of a speech-language pathologist.
12. Document student/patient/client performance (e.g., tallying data for the speech-language pathologist to use; preparing charts; records, and graphs) and report this information to the supervising speech-language pathologist.
13. Write clear and concise reports of treatment sessions.
14. Exhibit compliance with regulations, reimbursement requirements, and the speech-language pathology assistant's job responsibilities.

In addition, the graduate will be able to demonstrate competency in the general education outcomes.

Speech-Language Pathology Assistant*

(Evening Program)

FIRST YEAR - FALL SEMESTER

| | | CL | LAB | CR |
|--|---|----|-----|----|
| ENGL101N | College Composition | 4 | 0 | 4 |
| BCPT101N | Computer Technology & Applications | 2 | 2 | 3 |
| SPLN111N | Speech and Language Development (1st half-semester) | 3 | 0 | 3 |
| SPLN114N | Survey of Communication Disorders* (2nd half-semester) | 3 | 0 | 3 |
| General Education Core Requirement: Quantitative Literacy** | | | | |
| | | 4 | 0 | 4 |

Semester Credits: 17

FIRST YEAR - SPRING SEMESTER

| | | CL | LAB | CR |
|--|---|----|-----|----|
| PSYC101N | Introduction to Psychology | 3 | 0 | 3 |
| PSYC201N | Human Growth & Development | 3 | 0 | 3 |
| SPLN112N | Anatomy & Physiology of Speech & Hearing Mechanism (1st half-semester) | 3 | 0 | 3 |
| SPLN121N | Language Disorders* (2nd half-semester) | 3 | 0 | 3 |
| General Education Core: English/Communications | | | | |
| | | 3 | 0 | 3 |

Semester Credits: 15

SUMMER SEMESTER

| | | CL | LAB | CR |
|---------------|---|----|-----|----|
| SPLN115N | Phonetics* (1st half-semester) | 3 | 0 | 3 |
| SPLN123N | Articulation & Phonological Disorders* (2nd half-semester) | 3 | 0 | 3 |
| Open Elective | | 3 | 0 | 3 |

Semester Credits: 9

SECOND YEAR - FALL SEMESTER

| | | CL | LAB | CR |
|---|--|----|-----|----|
| PSYC206N | Learning and Behavior | 3 | 0 | 3 |
| SPLN220N | Advanced Communication Disorders* (1st half-semester) | 3 | 0 | 3 |
| SPLN221N | Clinical Procedures in Speech-Language Pathology* (2nd half-semester) | 3 | 0 | 3 |
| General Education Core Requirement: Humanities/Fine Arts OR Global Awareness | | | | |
| | | 3 | 0 | 3 |

Semester Credits: 12

SECOND YEAR - SPRING SEMESTER

| | | CL | LAB | CR |
|--|--|----|-----|----|
| SPLN290N | Capstone Seminar in Communication Disorders* | 2 | 0 | 2 |
| SPLN291N | Speech-Language Pathology Assistant Practicum I* (1st half-semester) | 0 | 3 | 1 |
| SPLN292N | Speech-Language Pathology Assistant Practicum II* (2nd half-semester) | 0 | 6 | 2 |
| General Education Elective | | 3 | 0 | 3 |
| General Education Core Requirement: Science (must have a lab) | | | | |
| | | 3 | 2 | 4 |

Semester Credits: 12

Total 65 Credits

***Effective Spring 2018 this program is admitting new students every other year. The next cohort of students is scheduled to be admitted in the Fall of 2019 pending adequate enrollment.**

Please contact the Admissions Office or the Speech Language Pathology Assistant Program Coordinator for additional information.

* Please check course descriptions for prerequisites for these courses.

** MATH103N or MATH106N suggested (consult advisor)

Associate in Science Degree in Web Application Development

(Day/Evening Program)

The explosive growth of the Internet has changed the way people communicate, conduct business, acquire education, and manage their daily lives. The world's acceptance of these technologies has made the Internet and the Web a basic requirement for most businesses resulting in a widely acknowledged need for professionals having a strong education in web-related areas.

This program combines numerous facets of traditional software engineering skills with graphical user interface design and client server architecture thus producing a broad knowledge base in these areas:

- Problem Solving
- HTML5/CSS3
- Programming Languages such as JAVAScript, C++, PHP, and SQL
- Systems Analysis including data flow and use case/class diagrams
- Database Design

Graduates of this program can either seek entry-level positions in web development or continue their education in the field of computers.

Technical Standards: Please refer to Technical Standards section for details regarding this program.

At the completion of the degree in Website Development, graduates will be able to:

1. Solve problems through the application of appropriate research methods.
2. Identify the benefits of quality, timeliness and continuous improvement in regards to software development process.
3. Apply critical-thinking skills to identify, analyze and solve problems.
4. Communicate software development related information effectively to a diverse audience using visual and written modes.
5. Demonstrate the ability to apply all facets of the software development life cycle during a project.
6. Demonstrate the ability to follow a systematic progression of software development and refinement when designing and developing software for a project.
7. Participate effectively as a member of a web application development team.
8. Articulate an understanding of the need for lifelong learning.
9. Demonstrate an understanding of diversity through interaction with project teammates.
10. Develop websites that reflect the application of up-to-date tools and techniques of the discipline.

In addition, the graduate will be able to demonstrate competency in the general education outcomes.

FIRST YEAR - FALL SEMESTER

| | | CL | LAB | CR |
|----------|--|----|-----|----|
| ENGL101N | College Composition | 4 | 0 | 4 |
| CSCI106N | Introduction to Software & Web Development | 2 | 3 | 3 |
| CSCI102N | Website Development I | 2 | 2 | 3 |
| CSCI161N | Introduction to Programming | 2 | 2 | 3 |
| MATH110N | Algebra & Trigonometry | 4 | 0 | 4 |

Semester Credits: 17

FIRST YEAR - SPRING SEMESTER

| | | CL | LAB | CR |
|----------|---------------------------------------|----|-----|----|
| CSCI140N | Essentials of Systems Analysis | 2 | 2 | 3 |
| CSCI175N | Programming: Using C++ | 2 | 2 | 3 |
| MATH170N | Discrete Mathematics | 4 | 0 | 4 |
| CSCI103N | Website Development II | 2 | 2 | 3 |
| ARTS120N | Introduction to Graphic Design Theory | 2 | 2 | 3 |

Semester Credits: 16

SECOND YEAR - FALL SEMESTER

| | | CL | LAB | CR |
|--|--|----|-----|----|
| CSCI201N | Client-Side Scripting Using JavaScript | 2 | 2 | 3 |
| CSCI203N | Introduction to UNIX -OR- | 2 | 2 | 3 |
| CSCN170N | Linux Essentials | 2 | 2 | 3 |
| CSCI207N | Database Design & Management | 2 | 2 | 3 |
| CSCN116N | Networking Basics | 2 | 2 | 3 |
| General Education Core Requirement: Science* | | 3 | 2/3 | 4 |

Semester Credits: 16

SECOND YEAR - SPRING SEMESTER

| | | CL | LAB | CR |
|---|---|----|-----|----|
| CSCI202N | Java Programming | 2 | 2 | 3 |
| CSCI206N | Server-Side Scripting Using PHP | 2 | 2 | 3 |
| General Education Core Requirement: Behavioral Social Science | | 3 | 0 | 3 |
| General Education Core Requirement: English/Communications** | | 2 | 2 | 3 |
| CSCI290N | Computer Science Internship | 1 | 8 | 3 |
| OR | | | | |
| CSCI284N | Senior Website Development Lab: A Capstone Experience | 2 | 2 | 3 |

Semester Credits: 15

Total 64 Credits

*PHSY101N or PHYS130N recommended

**ENGL122N recommended

Technical Standards

Section 1: Precision Manufacturing

- Have command of the English language
- Have reading comprehension skills sufficient to read and comprehend manuals and textbooks
- Have communication skills sufficient to prepare required reports
- Be able to understand and follow both written and oral instructions
- Be able to complete requirements for college level classes
- Have sufficient vision to distinguish colors, read scopes, diagnostic equipment, measuring tool, and information from a computer screen (adaptive equipment acceptable)
- Have sufficient hearing to distinguish various sounds and noises (adaptive equipment acceptable)
- Have the ability to stand for extended periods of time and physical strength to lift up to 80 pounds
- Have sufficient dexterity to perform manual skills related to machining
- Be able to work in an environment with elevated levels of sound and exposure to machining fluids

Section 2: Automotive Technology, Collision Repair Technology, and Honda Automotive Technology

- Have a high school degree or equivalent
- Have command of the English language
- Have reading comprehension skills sufficient to read and comprehend service literature
- Have communication skills sufficient to prepare required reports
- Be able to understand and follow both written and oral instructions
- Be able to complete requirements for college-level classes
- Have sufficient vision to distinguish colors, read gauges, scopes, diagnostic equipment and information from a computer screen (adaptive equipment acceptable)
- Have sufficient hearing to distinguish various sounds and noises (adaptive equipment acceptable)
- Have the ability to stand for extended periods of time and physical strength to lift automotive parts and equipment.
- Have sufficient dexterity to perform manual skills related to automotive services
- Be able to work in an automotive service facility environment
- Maintain a valid driver's license
- Be able to operate a manual transmission.

Section 3: Aviation Technology

- Must be 18 years of age
- Have a high school degree or equivalent
- Have command of the English language
- Have reading comprehension skills sufficient to read and comprehend service literature
- Have communication skills sufficient to prepare required reports
- Be able to understand and follow both written and oral instructions
- Be able to complete requirements for college-level classes
- Mechanics must lift or pull objects weighing at least 70 pounds

- Possess sufficient mobility, dexterity, and visual acuity to perform aviation maintenance
- Have sufficient vision to distinguish colors, read gauges, scopes, diagnostic equipment and information (adaptive equipment acceptable)
- Have sufficient hearing to distinguish various sounds and noises (adaptive equipment acceptable)
- Must be able to tolerate loud noises and vibrations associated with aircraft engines

Section 4: Criminal Justice

- Awareness that comprehensive background checks are completed by potential employers for many careers in the criminal justice field. Prospective students with a criminal record or history that may affect their internship placement and/or potential employability are encouraged to discuss their career goals with a department/program advisor prior to admission. Students accepted into the program are expected to maintain the high ethical standards of the criminal justice field or face being removed from the program.
- Awareness of the basic health and fitness requirements for many careers in the criminal justice field. Prospective students with special needs or limitations that may affect their internship placement and/or potential employability are encouraged to discuss their career goals with a department/program advisor prior to admission.
- Ability to exercise and maintain the emotional stability and sound judgment required to function within the criminal justice field, to include the ability to maintain composure during stressful and/or emergency situations. Students accepted into the program are expected to maintain the high standards of the criminal justice field or face being removed from the program.
- Ability to understand and follow written instruction and/or verbal direction.
- Ability to communicate verbally as a student in classes, and later as a professional on an individual basis and to large groups in stressful, emergency situations.
- Sufficient verbal and language skills to: communicate verbally, in an effective and efficient manner, with a wide variety of people; solicit information from individuals, e.g., questioning of victims or interrogation of suspects; and to convey information clearly and accurately.
- Sufficient writing ability to formulate written reports and draft official documents.
- Ability to demonstrate and maintain both organizational and time management skills, to include the responsibility to consistently attend and participate in classes, field trips, and internships.

Section 5: Educator Preparation

Character Expectations: The health and safety of children, adolescents and other learners is of paramount concern to the Educator Preparation Program. Applicants for teaching positions in public schools in New Hampshire should be aware that background checks through the New Hampshire Department of Safety must be completed by potential employees prior to

employment. The law also requires that students at NCC complete a Criminal History Records Information Request prior to beginning field experiences in any course. Depending upon the nature of their experience, applicants who have had difficulty with the law may not be employable or even eligible for field experience. Applicants are advised that such matters may be discussed during an admission interview so that future goals to be an educator will not be compromised.

Technical Standards have been established to provide guidance to students as to skills and abilities required to function successfully in the program and ultimately in the public or private school setting as teachers and/or paraeducators. Applicants who think they may not be able to meet one or more of the technical standards should contact program faculty members to discuss individual cases. Department faculty will give serious consideration to all academically qualified candidates providing that the technical standards can be met with reasonable accommodations.

Students in the educator preparation program must have sufficient abilities to perform the following:

- Physical and sensory motor abilities (mobility/vision/hearing, etc. Including with accommodations) to ensure a safe environment, and to respond quickly in the event of emergency;
- Oral communication skills in English to express and exchange information and ideas, as well as to interpret important instructions to children, adolescents, colleagues, and parents / guardians;
- Reading and writing skills to:
 - Read college level textbooks;
 - Accurately record students' daily progress and milestones as well as a variety of reports; and
- Cognitive abilities that facilitate organization, integration of materials and information;
 - For students preparing for roles as professional educators, the ability to interpret and evaluate information/data;
- Ability to work in a variety of situations, including:
 - Working well with others;
 - Working with frequent interruptions;
 - Responding appropriately to unexpected situations;
 - Coping with extreme variations in workload and stress levels.

Students should be aware that all New Hampshire colleges and universities offering Educator Preparation Programs leading to teacher certification require that students have passed the Praxis Core of Academic Skills for Educators and have earned a minimum of a 2.5 GPA, with several colleges/universities requiring a higher GPA.

Section 6: Electronic Engineering Technology

- Have command of the English language
- Have reading comprehension skills sufficient to read and comprehend manuals and textbooks
- Have communication skills sufficient to prepare required reports
- Be able to understand and follow both written and oral instructions
- Be able to complete requirements for college-level classes
- Possess sufficient mobility, dexterity, and visual acuity to do

- computer and electronic installations, wiring, and repair
- Read meters, gauges, and other electronic measuring devices
- Judge distance and space relationship of objects
- Distinguish basic colors for determining component values
- Examine computer hardware components and software programs for diagnosis and repair
- Calculate electrical values (voltage, current, resistance)
- Work cooperatively with partners and groups

Section 7: Computer Sciences (networking, code development and data analytics)

- Have command of the English language
- Have reading comprehension skills sufficient to read and comprehend college textbooks
- Have communication skills sufficient to prepare required reports
- Be able to understand and follow both written and oral instructions
- Be able to complete requirements for college level classes
- Have the ability to communicate information and ideas to others.

Section 8: Human Services

- Ability to communicate verbally as a student in classes, and later as a professional in individual and group counseling situations
- Sufficient verbal skills and language to: Collaborate with a wide variety of helping professionals in clinical, societal and professional areas; deliver accurate and required information; and to search for information, e.g., questioning
- Sufficient writing ability to formulate written assessment, charting notes, reports, etc.
- Ability to sustain cognitive integrity in areas of short and long-term memory, areas of written documentation and follow-through of responsibilities
- Ability to concentrate on the execution of treatment plans, assigned skills and tasks as well as the integration and communication of this work for both short and long-term periods of time
- Ability to work in settings that may lend themselves to frequent interruptions and immediate crisis response management
- Ability to cope with a variety of stressors, including people-place occurrences, and demonstrate safe and required care for groups and individuals
- Ability to secure transportation to practicum sites and classes
- Ability to consistently attend and participate in classes
- Ability to demonstrate and maintain organizational skills, time management and professional respect. Ability to adhere to and practice the Human Service Department's ethical guidelines
- **A State Police criminal check is the responsibility of students and may be required for clinical fieldwork and / or employment upon the request of an agency. Applicants who have had difficulty with the law depending upon the nature of the problem may not be employable or even eligible for fieldwork. Applicants need to discuss these matters in an interview with the Department Chair to determine future direction.**

Section 9: Massage Therapy

Technical standards have been established to inform the student of minimum standards needed to satisfactorily function in the program and ultimately in the massage profession. Applicants who feel they may not be able to meet one or more of the technical standards listed below should contact the program director for clarification. A personal meeting with the massage therapy program director is required as part of the program's acceptance process.

- The CCSNH system must ensure that clients in clinical internship settings are not placed at risk by students during any learning experience. Therefore, students in service learning and clinical internships must demonstrate emotional stability that characterizes the responsibilities associated with client care. The student is expected to have the emotional intelligence required to exercise sound judgment, accept direction and guidance from a mentor or faculty member, and be able to establish rapport with clients, faculty, staff, classmates and other colleagues.
- All students must be in good physical and mental health to meet program objectives. Attendance at all classes are required and clinical internship hours are mandated by the NH Department of Health and Human Services. Technical standards for the massage therapy department follow:
- Sufficient emotional maturity to work in a classroom setting where massage techniques are introduced, practiced, and exchanged between male and female students;
- Sufficient verbal skills and maturity to communicate professionally during class, internship sessions and to collaborate knowledgeably with other healthcare professionals;
- Ability to write effectively and communicate clearly in English for client SOAP notes, projects, papers, research abstracts, etc.;
- Sufficient speech and language ability to express, comprehend, and exchange information and ideas in English verbally, non-verbally, and in writing, and to interact clearly and logically with clients, faculty, mentors and classmates;
- Ability to assess with sufficient tactile ability the delivery of the five strokes of massage and range of motion through pressure, positioning, vibration, percussion and movement;
- Sufficient emotional maturity to exhibit empathy and compassion, to maintain professional relationships in classroom and clinical settings, and to integrate direction, instruction, and criticism into behavior;
- Sufficient physical strength, endurance, and motor coordination to perform the following activities: participation in long classroom hours and service learning events; fine and gross motor skills to perform massage techniques; ability to lift up to fifty pounds; stamina to complete a 60 minute massage session; and ability to perform CPR during internship;
- Ability to implement, practice and fully incorporate into applicant's behavior the standards of practice and ethics outlined by AMTA (American Massage Therapy Association) & ABMP (Associated Bodyworkers & Massage Professionals);
- A criminal background check may be requested at any time and is the responsibility of the student. Applicants who have felonies or misdemeanors may not be eligible for national exam testing boards or state licensure. Applicants need to discuss these matters during the personal interview with the program coordinator.

Section 10: Mechanical Design Technology

- Have a high school degree or equivalent
- Have command of the English language
- Have reading comprehension skills sufficient to read and comprehend service literature
- Have communication skills sufficient to prepare required reports
- Be able to understand and follow both written and oral instructions
- Be able to complete requirements for college level classes
- Have sufficient vision to distinguish colors and information from a computer screen (adaptive equipment acceptable)
- Have sufficient hearing to distinguish various sounds and noises (adaptive equipment acceptable)
- Have the ability to stand for extended periods of time and physical strength to lift parts and equipment required for the program.
- Have sufficient fine motor dexterity to perform manual skills related to Mechanical Design Technology
- Be able to work in a variety of environments including but not limited to engineering, laboratory, and electronic machining.

Section 11: Speech-Language Pathology Assistant

- Students in the Speech-Language Pathology Assistant program must have sufficient strength, stamina, motor coordination and sensory capabilities to perform the following:
- Standing for sustained periods of time, walking, running, bending, and sitting on the floor to meet children's needs
- Frequent lifting, moving and transferring children, especially infants and toddlers
- Sufficient hearing acuity to determine slight differences between spoken English sounds
- Sufficient visual and hearing acuity to ensure a safe environment and ability to respond quickly to children colleagues and professional partners in the event of an emergency
- Sufficient verbal ability to express and exchange information and ideas as well as to interpret important instructions to children, colleagues, professional partners and parents
- Sufficient skills in written expression to accurately record treatment activities and progress
- Ability to accurately produce the sounds of spoken English
- Ability to respond to a client's personal needs in a manner that safeguards the health and safety of the student, client and staff
- Ability to maintain proper boundaries in both the school and home environments.

Section 12: Nursing

Technical standards have been established to inform the student of minimum standards to satisfactorily function in the program and ultimately in the profession. Applicants who feel they may not be able to meet one or more of the technical standards listed below should contact the chair of the department of nursing to discuss individual cases. All academically qualified candidates will be considered for admission provided the technical standards for classroom and clinical experiences can be met with reasonable accommodations. The College must ensure that patients/clients of clinical affiliates are not placed in jeopardy by students during learning experiences. Therefore, students in service learning and clinical experiences must demonstrate sufficient emotional

stability to withstand the stress, uncertainties, and rapidly changing circumstances that characterize the responsibilities of patient / client care. Furthermore, the student is expected to have the emotional stability required to exercise sound judgment, accept direction and guidance from a supervisor or faculty member, and establish rapport and maintain sensitive interpersonal relationships with patients, their families, agency staff, faculty, and classmates. Applicants must be in good physical and mental health to meet program objectives..

Technical standards are listed below.

- Sufficient hearing to assess patient needs, physiological signs, understand instructions, identify emergency signals, assess body functions, and engage in telephone conversation.
 - Sufficient visual acuity to observe patients, manipulate equipment, interpret data, ensure a safe environment, identify color changes, read fine print/writing, and do fine calibrations.
 - Sufficient speech and language ability to express, comprehend, and exchange information and ideas in English verbally, nonverbally, and in writing, and to interact clearly and logically with patients, family members, physicians, nurses, faculty, peers, and other ancillary medical personnel.
 - Sufficient tactile ability to assess pressure, temperature, position, vibration, and movement.
 - Ability to work with frequent interruptions, to respond appropriately in emergencies or unexpected situations, and to cope with extreme variations in workload and stress levels.
 - Sufficient emotional intelligence to exhibit empathy and compassion, to maintain productive relationships in classroom and clinical settings, and to integrate direction, instruction, and criticism into behavioral changes.
 - Sufficient strength, endurance, and motor coordination to perform the following physical activities: Participation in lengthy classroom activities; fine and gross motor skills to carry out procedures; ability to safely and frequently handle, lift, and/ or carry equipment and patients up to thirty pounds; stamina to complete an eight to twelve hour work shift; and ability to perform CPR.
 - Sufficient information technology access and skills to complete assignments according to program standards.
 - Applicants with latex allergies are advised to seek professional medical consultation.
- bending, and sitting on the floor to meet children's needs and accomplish tasks;
 - Frequent lifting, moving and transferring children, especially infants and toddlers;
 - Sufficient visual and hearing acuity to ensure a safe environment; and ability to respond quickly to children, colleagues, and professional partners in the event of emergency;
 - Sufficient verbal ability to express and exchange information and ideas as well as to interpret important instructions to children, colleagues, professional partners, and parents;
 - Sufficient skills in written expression to accurately record children's daily progress and milestones as well as medications administered, accident and suspected child abuse/neglect reports, etc.;
 - Ability to work with frequent interruptions, to respond appropriately to unexpected situations including situations requiring immediate crisis response and role responsibility exchange; to demonstrate safe and required care for children, families, colleagues and the workplace as a whole; and to cope with substantial variations in workload and stress levels;
 - Ability to consistently attend and participate in classes and practice in a timely manner;
 - Ability to demonstrate and maintain organizational skills and time management in classes and at the practicum site;
 - Ability to respond to children's personal needs, including changing diapers, in a manner that safeguards the health and safety of the student, children, and staff;
 - Ability to work in a professional and respectful manner with a diverse range of children including children of different races, cultures, religions, and ethnicities as well as children with a wide range of disabling conditions;
 - Ability to maintain proper boundaries in both the school and home environments; and
 - Ability and disposition to adhere to and practice the Code of Ethical Conduct set forth by the National Association for the Education of Young Children.

Section 13: Early Childhood Education

Technical Standards have been established to provide guidance to students as to skills and abilities required to function successfully in the program and ultimately in the Early Childhood Education profession. Applicants who feel they may not be able to meet one or more of the technical standards should contact department faculty to discuss individual cases. The Early Childhood Education Department will seriously consider all academically qualified candidates provided that the technical standards can be met with or without reasonable accommodations. No essential technical standards will be waived or modified.

Students in Early Childhood Education program must have sufficient strength, stamina, motor coordination and sensory capabilities to perform the following:

- Standing for sustained periods of time, walking, running,

Course Descriptions

ACCT101N Financial Accounting I 4 Credits

This course provides a foundation for a thorough understanding of basic accounting procedures and principles through the study of the accounting cycle and financial statements. Additionally, current assets, cash and receivables will be studied. The use of computers in accounting is introduced.

ACCT102N Financial Accounting II 4 Credits

This course is a continuation of ACCT101N. Current and long-term assets are studied along with liabilities and owner's equity items. Accounting for corporations and bonds are also discussed. The course concludes with preparation of the Statement of Cash Flows and financial statement analysis. Prerequisite: ACCT101N.

ACCT201N Intermediate Accounting I 4 Credits

A study of the development of accounting begins this course. A review of the fundamental processes of accounting precedes a detailed study of the financial statements and assets on the balance sheet. Debt and equity financing is also discussed. Prerequisite: ACCT102N.

ACCT202N Intermediate Accounting II 4 Credits

This course is a continuation of ACCT201N. Topics include long term assets, leases, and pensions. An in-depth look at financial reporting issues will complete the course. This course contains a service learning option. Prerequisite: ACCT201N.

ACCT206N Cost Accounting 4 Credits

A study of the basic concepts and procedures of cost accounting and their application to the job order and process cost systems and to standard costs. Prerequisite: ACCT102N.

ACCT210N Managerial Accounting 3 Credits

Financial accounting information is used in planning, evaluating, and controlling business operations. Topics include product costing, cost behavior, cost-volume-profit analysis, budgeting, performance evaluation, and capital investment analysis. Prerequisites: ACCT102N.

ACCT214N Accounting Information Systems: Accounting Program Capstone Course 3 Credits

The utilization of a computerized accounting system for the effective control and audit of service and merchandising businesses. Advanced techniques of customizing and designing forms and importing and exporting data will be introduced. Prerequisites: ACCT201N, ACCT206N.

ACCT290N Accounting Internship 3 Credits

An internship program in Accounting is a hands-on learning experience at a for-profit or not-for-profit organization which allows the student to practice competencies and skills learned in the classroom under the direct supervision of an on-site internship supervisor. Prerequisite: Completion of all catalog-listed courses for the first three semesters in a business student's respective program of study.

ANTH105N Ethnography of Work 3 Credits

In this course, students will use social science research methods to learn about workplace culture and investigate potential career pathways. As ethnographers, students will use anthropological perspectives to evaluate the myths and stereotypes about work while gaining insight into how and why work matters to those within their career. The culture of work is examined in the context of contemporary dynamics of disruption, uncertainty, innovation, and diversity. Assignments encourage students to draw connections between the self and work so they are prepared to make informed decisions about majors and career paths. This course is a requirement for all students in the First Year Program who have not yet selected a major. This course fulfills a General Education Core Requirement: Behavioral Social Science.

ANTH108N Introduction to Archaeology 3 Credits

The course offers an exploration of the basic theories, methods, and principles of prehistoric and historical archaeology in the Old and New Worlds. The course will introduce students to methods used by archaeologists to reconstruct ancient societies, interpret their finds, and explain how and why societies evolve.

ANTH110N Cultural Anthropology 3 Credits

Cultural anthropology is a discipline that seeks to understand the human experience through social-scientific investigations of cultures around the world. This course offers tools for making sense of the experiences of diverse people whose lives are different from the student's own life, as well as putting the student's familiar worlds into new perspectives. **This course fulfills a General Education Core Requirement: Behavioral Social Science.**

ANTH260N Special Topics in Anthropology 3 Credits

This course provides students with an opportunity to learn about an area not covered by existing courses in the social science curriculum. While the topics may vary from semester to semester depending on faculty and student interest, this course emphasizes a core set of essential skills common to all anthropology courses at Nashua Community College. A course description will be made available prior to the start of registration. Prerequisites: ENGL101N or ENGL110N, and SOCI101N or ANTH110N

ANTH263N Honors Introduction to Chinese Culture and Society 3 Credits

With a growing political and economic influence, the study of China is becoming increasingly important for Americans to become a global citizen and educated person. This honors course provides an understanding of the Chinese society and mindset by examining major Chinese geographic features, the formation and evolution of Chinese identity, Chinese philosophical and religious traditions, Chinese political, economic and social systems, Chinese education system, and Chinese literature and arts. Prerequisite or corequisite: ENGL110N or ENGL101N and permission of the Honors Program Coordinator or Admissions into the Honors Program. **This course fulfills a General Education Core Requirement: Global Awareness.**

ARTS101N Introduction to Drawing 3 Credits

This course combines an appreciation of drawings by a number of artists with an exploration of drawing using various materials and media. Students will study several drawing materials, themes, and styles. In that way, they may gain the ability to self-evaluate their own drawings and the drawings of others according to basic principles of design, technique, and style. In addition to tuition and fees for the course, students will be expected to purchase up to \$50 of drawing materials and papers for the course.

ARTS111N Photography & Digital Imaging I 3 Credits

This course covers the technical and artistic aspects of photography and digital imaging. Topics include camera operation, exposure, composition, and lighting with emphasis on the technical and artistic sides of photography. Through assignments in photographing nature, scenery, people, sports, and existing light and through the study of the styles of many renowned photographers, students will begin to develop their artistic sense and photographic vision. The lab component will use photo editing software to manipulate and composite images. Students must have access to a camera with adjustable apertures and shutter speeds. **This course fulfills a General Education Core Requirement: Humanities / Fine Arts.**

ARTS112N Photography & Digital Imaging II 3 Credits

This is an advanced course in photographic techniques, styles and, aesthetics. Students will continue building technical and artistic skills with the camera using composition, lighting, and design as well as expanding their proficiency with photo editing software to create and refine personal vision. Students will create a high-quality portfolio of photographs and lab projects. A camera with adjustable apertures and shutter speeds is required. Prerequisite: ARTS111N or permission of the instructor.

ARTS120N Graphic Design Theory 3 Credits

This course covers the technical and artistic aspects of graphic design and its purpose as a tool for marketing and disseminating information to the public. Topics include: Elements of creative design, visual communication, type, composition, color formats, requirements for print and web, and using Photoshop as a designing tool. The class also emphasizes both technical and artistic sides of graphic design. Through assignments both in studying successful professional graphic design and creating ads, brochures, posters etc., preparing designs for print and web, utilizing images and text as well as creating designs from a blank file, students will start to develop a logical sense of how to use image, color, form and text to achieve the desired level of clear and effective communication of a message. This course requires reading, research, and has a lab component working with Photoshop. **This course fulfills a General Education Core Requirement: Humanities / Fine Arts.**

ARTS200N Drawing II: Developing a Personal Approach to Drawing 3 Credits

This course will encourage students to explore different stylistic approaches and materials in drawing in order to encourage them to expand their understanding of the drawing process. Mixed media and experimental techniques including dry and fluid mediums will be experimented with in relation to different themes. Some studies of the human form will be included. In addition

to tuition and fees for the course, students will be expected to purchase up to \$50 of drawing material and papers. Prerequisite: ARTS101N (minimum grade of B) or Permission of Instructor and student portfolio.

ASL101N Deaf Culture 3 Credits

This course will focus on the socio cultural view of the American Deaf Community. We will explore the two prevailing perspectives, pathology (disability) and socio-cultural (culture, language, mores, folklore), as we discuss contemporary American Deaf Culture. Finally, students will consider the role of history in the development of Deaf Culture. It is recommended that students in the Sign Language Certificate program complete the companion course, ASL120N, in the same semester as Deaf Culture.

ASL120N Sign Language I 3 Credits

This course will assist the student in developing basic conversational skills in American Sign Language (ASL). Included in the course will be a study of basic grammatical structures, nonverbal grammatical signals, sign vocabulary, and conversation regulators. Cultural aspects of the Deaf Community will also be discussed. Emphasis will be placed on using American Sign Language (ASL) in one-to-one or small group conversations. **This course fulfills a General Education Core Requirement: Global Awareness.**

ASL121N Sign Language II 3 Credits

This course will assist the student in developing the ability to use and understand sign language at the beginning level. Classes will include readiness exercises, skills development, direct interaction activities and sign vocabulary building. Prerequisite: ASL120N.

ASL201N Deaf and Hearing Cultural Interactions 3 Credits

This is an advanced course on Deaf Culture and the Deaf Community as embedded in American Culture and Communities. In the prior course, Deaf Culture, students learned of the prevailing two perspectives on American Deaf Culture and the American Deaf Community: Pathological (disability) and Socio-Cultural (language, folklore, mores). In this advanced course, we will continue to examine the Deaf view (social and cultural perspective), and will add information and discussion on the hearing view (often pathological). From these views, we will study and discuss deaf and hearing cultural dynamics and the effects of these dynamics upon interactions between Deaf and hearing individuals and groups. Students will be provided with articles and excerpts, from both Deaf and hearing sources. In class we will use multimedia to spark discussion and provide broader exposure to issues facing both communities. Our predominant focus will be current issues, but we will examine some history, to better understand attitudes and reactions of today. Prerequisites: ASL101N, or permission of Department Chair or Program Coordinator.

ASL220N Sign Language III 3 Credits

This course will continue with skills development, direct interaction activities and sign vocabulary building. It will cover the use of sign language in the Deaf Community, comprehension and expression of visual/manual language, grammatical structure and sign production. Prerequisite: ASL121N.

ASL221N Sign Language IV 3 Credits

This course will assist the student in developing the background and skills necessary to participate in one-to-one or small group conversations. Class activities focus on developing expressive and receptive conversational skills through the use of drill, multimedia, discussion of idioms and colloquial usage and opportunities to participate in signed conversation with deaf people and other signers. Also included in the class will be vocabulary development, rules of social interaction, the process of conversation, and discussion of deaf/hearing interactions. Prerequisite: ASL220N.

AUTO106N Internal Combustion Engine 3 Credits

This course examines 2 and 4 stroke engines, their operating systems, and related physical properties. Principles from basic carburation to variable cam timing, forced induction and performance parts are covered. The lab element of this course exposes the students to the construction methods, precision measurements, and tolerances related to engine design. It also covers basic diagnostics of a 4 stroke engine.

AUTO113N Automotive Electricity & Wiring 3 Credits

This course will cover the theory of automotive electrical systems and the diagnosis and troubleshooting of these systems. Wiring procedures, reading wiring diagrams, repair techniques for electrical harnesses and components, and starting and charging systems will be covered.

AUTO114N Automotive Suspension & Steering 4 Credits

An introduction to automotive suspension systems, four-wheel alignment, wheel balancing and Roadforce. The lecture covers topics from basic components, Dynamic suspension systems, performance dampers and alignment angles. The lab includes the diagnostics and repair of steering and suspension components, wheel alignments and wheel and tire service. Due to the safety and nature of this course, students must earn a minimum of a 'C' to continue. Prerequisite: AUTO121N.

AUTO115N Advanced Automotive Electricity & Electronics 3 Credits

This course includes operating principles and troubleshooting of various systems, body computers, multiplexing, keyless entry, etc. Testing of sensors, circuits and on-board diagnostics related to these systems will be covered. Prerequisite: AUTO121N.

AUTO121N Automotive Service & Maintenance 4 Credits

The study and development of skills in automotive maintenance and preventive maintenance procedures such as engine lubrication, exhaust systems, cooling systems, tire rotation and balance, NH state motor vehicle inspection procedures, engine drive belt, thread repair and Oxy/acetylene torches. A student must earn a 'C' or better to achieve a passing grade in this course. This course contains a service learning opportunity. This is a Gateway course and is needed to move on in the program.

AUTO122N Automotive Brake Systems 4 Credits

The study of braking systems with an emphasis on the diagnosis and repair of hydraulic systems of disc and drum brakes, the machining of rotors brake drums, brake line fabrication, ABS and

stability control. Due to the safety and nature of this course, students must earn a minimum grade of a 'C' to continue. Prerequisites: AUTO106N, AUTO113N, AUTO121N.

AUTO210N Engine Performance I 3 Credits

Theory of operation and diagnosis of the intake and exhaust systems, computerized fuel delivery systems and ignition systems are covered. Testing of these systems is covered in the lab with use of various pressure gauges, lab scopes and multi-meter. Prerequisites: AUTO106N, AUTO113N, AUTO121N.

AUTO215N Engine Performance II 3 Credits

A continuation of Engine Performance I with a focus on advanced diagnostics of engine control systems using, OBD-II interface and lab scopes. The function and operation of the supporting emission systems to include exhaust Catalyst, EVAP and EGR systems will be covered. Prerequisites: AUTO210N.

AUTO221N Automotive Heating & Air Conditioning 3 Credits

The theory and operation of automotive heating, ventilation and air conditioning systems will be covered including safety, maintenance, adjustment, diagnosis and repair. Major areas of study will include automotive ventilation systems, heating and air conditioning theory, manual and automatic climate control systems, air conditioning component repair and replacement procedures, and refrigerant safety, recovery, recycling and recharge. Prerequisites: AUTO121N, AUTO113N; Corequisite: PHYS101N.

AUTO226N Automotive Power Trains 4 Credits

This course is designed to introduce students to the basic principles employed in the construction, operation and diagnosis of the various components and systems involved in the manual drive train of current automotive vehicles. Topics for this course include clutches, manual transmissions/transaxles, both front and rear wheel drive train components including drive shafts, axles and differentials. Four-wheel drive and all-wheel drive systems are discussed as well. This course is designed to meet the requirements of NATEF certification in the topic of manual drive train and axles. Prerequisites: AUTO106N, AUTO121N.

AUTO227N Automatic Transmissions 4 Credits

This course covers the theory of operation and overhaul of automatic transmissions. The lecture focuses on the operation of automatics and uses case studies to show common failures and diagnostic steps. The lab focuses on hands-on diagnosis and repair, R&R of complete units, transmission overhauls and the installation of Shift kits. Prerequisites: AUTO106N, AUTO113N, AUTO121N.

AUTO228N Automotive Engine Repair: A Capstone Course 4 Credits

This course is designed to give students a better understanding of current practices involved in the diagnosis, disassembly, cleaning, repair and reassembly of today's modern engines. Topics for this course will include engine diagnostic procedures, engine removal practices, proper teardown, cleaning and inspection processes, best practices for component repair/replacement, reassembly and engine reinstallation. There will also be discussion about engine design, performance modifications and specifics regarding certain engine features that are manufacturer specific. This course is designed to meet all of the

requirements for NATEF certification in the Engine Repair section. There is also a Capstone Assignment that is part of this course. Prerequisites: AUTO106N, AUTO113N, AUTO114N, AUTO115N, AUTO121N, AUTO122N, AUTO210N, AUTO226N, AUTO227N. Prerequisite/ Corequisite: PHYS101N; Corequisites: AUTO215N, AUTO221N.

AVTN101N Maintenance Forms & Records 3 Credits

This course is a study of selection and use of FAA technical and legal publications in order to perform the duties of an aircraft maintenance technician. Maintenance publications, forms and records, mechanic privileges, weight and balance problem solving, aircraft weighing procedures and establishing an aircraft equipment list will be covered.

AVTN102N Airframe Structures I 4 Credits

This course is a study of repair procedures on aircraft fabric surfaces and wood structural members in accordance with FAA and manufacturer's instructions, as well as an introduction to sheet metal repairs using correct repair procedures, tools and materials. The application of aircraft finishing including enamel, lacquer and dope for fabric covered surfaces will also be discussed.

AVTN103N Airframe Structures II 5 Credits

The various materials and processes used in constructing aircraft are covered in this course. The proper use and selection of materials, rivets, fasteners for structural and nonstructural applications and welding are covered. In addition the following materials and their repair procedures will be covered: honeycomb, fiberglass, plastic and laminated surfaces. Prerequisites: AVTN102N, AVTN108N.

AVTN104N Materials and Processes 3 Credits

This course is a study of identification, selection and inspection of aircraft hardware and materials; use of precision measurement equipment and related tools; identification and performance of nondestructive tests and interpretation of the results. Ground operation and servicing as well as corrosion control will be presented.

AVTN105N Aircraft Systems 4 Credits

This course incorporates aircraft instruments and aircraft systems. Topics include basic airframe instruments, correct handling and installation procedures for instruments, ice and rain control systems, fire protection systems, position and warning systems, cabin atmosphere and control systems, fuel systems, inspection, checks, servicing and repair of the various systems and their components.

AVTN106N Aviation Electronics 3 Credits

An introduction to DC and AC electricity, including their disassembly and maintenance. This course will also include generators and alternators. Emphasis will be placed on understanding control elements: electrical, hydraulic and pneumatic. The capstone of the course will be the ability to troubleshoot electromechanical problems.

AVTN107N Digital Logic 3 Credits

Digital logic gates, flip-flops, PLAs and memory are studied as microprocessor support chips. Gate reduction techniques are introduced. Logic and control circuits using relay logic are a part of this course. Prerequisite: AVTN106N.

AVTN108N Aviation Drafting & Blueprint Reading 3 Credits

The study of the fundamentals of drafting and blueprint reading. This course will enable students enrolled in the Aircraft

Maintenance Training program to develop the required skills to meet the FAA basic drafting and blueprint reading standards.

AVTN202N Airframe Electrical Systems 3 Credits

The application and use of the principles of basic electricity to troubleshoot and repair aircraft electrical systems in accordance with the manufacturer's service instructions, fundamentals of navigation-communication equipment, antenna installation and theory, as well as the operation of the auto pilot systems will be covered in the course. Prerequisite: AVTN106N.

AVTN203N Hydraulics & Pneumatics 5 Credits

This course is a study of the theory of operation, maintenance requirements and adjustment of various hydraulic and pneumatic components. Testing, inspecting, troubleshooting and servicing hydraulic and pneumatic system components in accordance with FAA and manufacturers' specifications as well as troubleshooting and repairing wheel and brake systems in accordance with manufacturers' specifications will be covered.

AVTN204N Assembly & Rigging 4 Credits

Assembly and rigging of fixed and rotary winged aircraft are introduced, including the checking and alignment of structures, balancing and rigging of movable control surfaces, jacking aircraft and the final assembly and inspection of the aircraft. Students also receive instruction in airworthiness inspection procedures. Prerequisites: AVTN103N, AVTN203N.

AVTN206N Reciprocating Engines I 5 Credits

This course will provide the student with a detailed understanding of the aircraft reciprocating engine, its theory, development and versatile application on today's modern aircraft. Reciprocating engine configurations, such as Horizontally Opposed Engines, Radial engines, In-line and V-Engines, will also be covered. Reciprocating engine reliability, durability, operating flexibility and streamline ability will be discussed with emphasis on the importance of all these key engine requirements. The course will also include an in-depth look at Horizontally Opposed and Radial Engine construction, including all of the many internal components, mechanisms and assemblies. The student will have a hands-on understanding of each of these components, their design and how they all work together to provide safe, efficient and reliable engine power and thrust. Prerequisites: AVTN104N, AVTN203N.

AVTN207N Reciprocating Engines II 5 Credits

This course provides the student with a more enhanced knowledge and understanding of the aircraft internal combustion engine. To include engine disassembly and reassembly procedures. Performing detailed visual inspections, including (NDT) Non Destructive Testing, troubleshooting techniques, servicing and repair. Assuring powerplant conformity, airworthiness practices and inspections as mandated by the (FAA) Federal Aviation Administration, thru (FAR) Federal Aviation Regulations and manufactures procedures. Prerequisite: AVTN206N.

AVTN208N Engine Systems 3 Credits

This course will provide the student with a detailed understanding of the many aircraft engine systems. These include the

Lubrication, Exhaust, Cooling, Fire Detection and Extinguishing Systems. Also the Engines Instrument systems will be presented to provide the student with an in-depth knowledge on how all these systems work together to provide safe and efficient engine performance. The student will also have a hands-on knowledge of each of these systems, along with their many parts and components. The course will also discuss the importance of providing the pilot and technician with reliable and accurate engine parameters, at all times, for flight safety and effective troubleshooting and adjustments. Corequisite: AVTN206N.

AVTN209N Aircraft Propellers 3 Credits

This course is a study of the physical laws and design characteristics governing propeller operation. Students receive instruction on propeller theory and maintenance, propeller control system components, types of propellers and propeller installations, identification and selection of propeller lubricants, inspecting, servicing and repairing of fixed pitch, constant speed and feathering propellers, propeller governing systems, propeller synchronizing and ice control systems.

AVTN210N Turbine Engine & Systems 4 Credits

The theory and maintenance of gas turbine engine systems and installation are covered in this course. Topics include theory of operation, operating characteristics, axial and centrifugal flow compressors, combustion chambers, exhaust sections, fan and bypass turbine engines, thrust reversing systems, turbine section and turbine blade design. Inspection and adjustment of gas turbine engines are included. Prerequisite: AVTN208N.

AVTN211N Carburetion & Fuel Systems 3 Credits

This course is a study of the accessory systems used in aircraft powerplants. Carburetion; engine fuel systems; fuel metering systems; inspection, checking; servicing, troubleshooting and repair of reciprocating and turbine engine fuel metering systems are covered. Prerequisite: AVTN105N.

AVTN212N Engine Electrical Systems 4 Credits

This course covers additional powerplant accessory systems including magnetos, high and low tension systems, reciprocating and turbine engine ignition systems, and engine electrical systems and components. Engine fire protection systems will also be discussed. Prerequisites: AVTN202N, AVTN206N.

BCPT101N Computer Technology & Applications 3 Credits

Computer technology concepts, terminology, course management software and hardware are emphasized. The student will apply word processing skills and applications for academic and career success. The windows operating platform will be used.

BCPT119N Software Applications 3 Credits

Students will learn basic to intermediate applications of end-user productivity software, this includes word processing, spreadsheet, presentation and relational database software. (Microsoft Office Windows platform based course)** Prerequisite: BCPT101N. **Any major integrated software suite may be implemented in this course to meet the needs of the learner or business environment.

BCPT204N Word Processing: WORD 3 Credits

Intermediate and advanced word processing concepts, theory

and applications will be studied and applied. Students perform activities in creating styles, outlines, tables, table of contents, mail merge, on-screen forms and managing multi-page documents. Integrating WORD with other applications and the World Wide Web as well as customizing WORD are studied. Prerequisite: BCPT101N.

BCPT208N Spreadsheets: EXCEL 3 Credits

This course provides students with knowledge of EXCEL, a spreadsheet program for managing and presenting data in the Microsoft Windows environment. EXCEL offers spreadsheets, charting, drawing, scenario, data maps, and macros. Prerequisite: BCPT101N.

BCPT213N Database Management: ACCESS 3 Credits

A study of the uses of data and files, database design, and the physical utilization of database access systems. Topics include database design, terminology, and the creation of tables, forms, queries, reports and macros and Structured Query Language (SQL). The lab component will include the development of applications using MS Access, a relational database. Prerequisite: BCPT101N or CSCN101N for Computer Networking majors.

BCPT216N Desktop Publishing 3 Credits

InDesign desktop publishing software is used to create and publish computer-generated digital publications. Students learn to produce advertisements, newsletters, brochures and business forms. Emphasis is placed on the understanding and application of graphic design principles to create and produce high quality digital publications. Prerequisite: BCPT101N.

BIOL101N Germs 101 4 Credits

This General Education science course introduces students to the fascinating, invisible, Microbial world we live in. Through a variety of hands-on projects, students will garner understanding of the importance of Microbes to life on Earth. Students will learn to see microbes as organisms, both harmful and beneficial. This course does not meet the requirements of Microbiology for the Nursing Program nor for Biology majors. **This course fulfills a General Education Core Requirement: Science.**

BIOL105N Biology in Focus I 4 Credits

Scientific study of living things: Their fundamental processes, their unity and diversity, and connections to everyday lives. Areas of inquiry include cellular organization, metabolism and respiration, photosynthesis, and genetics from classic Mendelism to current biotechnologies. A minimum of 12 laboratory exercises support lecture topics and are designed to develop scientific inquiry and critical thinking. This course is equivalent to a college-paced Advanced Placement Biology course. **This course fulfills a General Education Core Requirement: Science. (Except research Biology students).**

BIOL106N Biology in Focus II 4 Credits

A continuation of Biology in Focus I, scientific study of living things: An integrated lecture-lab experience that introduces the basic principles of evolution, biological diversity of living things, population and community ecology, and conservation biology. This course provides students the opportunity to develop critical thinking utilizing current ecological topics. Prerequisite: BIOL105N. This course is equivalent to a college-paced

Advanced Placement Biology course.

BIOL107N Principles of Biology I 4 Credits

This course introduces topics in more depth than BIOL105N, faster pace, higher expectation of learning through project-based environment to implement new methodology and critical thinking in and out of the laboratory. Topics covered include the chemical and physical basis of life, biochemistry, cell structure and function, genetics with emphasis on replication, transcription, expression, bioinformatics linking, structure to function at cellular level, individual, population, and community levels of organization and evolution. This course is designed for students pursuing careers in biological sciences, biotechnology or areas related to medicine, biomedical research. Prerequisites: Successful completion (C or higher) of college preparatory Biology and Chemistry within the past five years or be able to pass a biology entrance exam with a 'C-' or better. **This course fulfills a General Education Core Requirement: Science.**

BIOL108N Principles of Biology II 4 Credits

This course introduces topics in more depth than BIOL106N, faster pace, higher expectation of application through project-based learning environment to implement new methodology and critical thinking in and out of the laboratory. This Biology II is an integrated lecture-lab experience that introduces the basic scientific principles of evolution; biological diversity of living things; population and community ecology; and conservation biology. This course provides students the opportunity to develop critical thinking utilizing current ecological topics and project-based laboratory experiences. Prerequisite: Successful completion (C or higher) of college preparatory Biology and Chemistry within the past five years or be able to pass a biology entrance exam with a 'C-' or better.

BIOL111N Basic Human Anatomy & Physiology 4 Credits

An introductory course centering on the structure and function of the human body with a concentration on normal anatomy with emphasis on system functions and interrelations between systems. This course is for the beginning student. A series of laboratory experiences are included to provide practical support for concepts presented in lecture.

BIOL115N Nutrition 3 Credits

This survey course covers basic facts and principles of nutrition. The course is designed for anyone interested in nutrition and how it relates to overall health and wellness. The course examines what role the nutrients serve in the body, their sources, and how the body absorbs and utilizes them. Other topics covered include energy balance, weight management, fitness, and nutrition throughout the life cycle. **This Course fulfills a General Education Core Requirement: Science.**

BIOL201N Anatomy & Physiology I 4 Credits

This course focuses on the chemical and molecular organization of the human body and the complementarity of structure and physiological functions. Topics from chemistry of life to organ systems including integumentary, skeletal, muscular and nervous are included with emphasis on physiology. Hands-on classroom and laboratory experiences augment lecture topics and including cytology, histology, physiological experimentation, study of human

anatomical models, and dissection of appropriate specimens. Prerequisite: Placement into college-level English and math; C+ or better in: high school biology or BIOL105N; and high school chemistry or CHEM110N, all in the past 5 years or with permission from the Coordinator.

BIOL202N Anatomy & Physiology II 4 Credits

This course is a continuation of BIOL201N that focuses on understanding how the biochemistry of each system affects the function of the whole organism. Systems covered in this course include endocrine, cardiovascular, immune, respiratory, digestive, excretory, and reproductive. Other topics pertinent to overall homeostasis and survival, including: imbalances, nutrition, metabolism, acid/base and fluid/electrolyte balance and genetics. Hands on experiences and laboratories designed to augment learning, include cytology, histology, physiological experimentation both wet lab and computer-assisted, study of human anatomical models, and dissection of appropriate specimens. May provide independent research option. Prerequisite: BIOL201N.

BIOL205N Basic Pathophysiology 3 Credits

This upper level pathophysiology course will discuss many current health issues at the depth of the cell. This course is designed to provide the student with an understanding of the various cellular mechanisms by which human diseases develop and includes a survey of common disorders involving each of the major body systems. Students should have a solid background in cell biology by successfully completing BIOL131N/BIOL202N with a 'C' or better, before taking this course. This course fulfills an Advanced Biology Topic for Biology majors. Prerequisites: BIOL202N with a grade of 'C' or better or permission from Program Coordinator.

BIOL207N Immunology 3 Credits

This upper level introductory Immunology course will discuss many current health immunology-related issues at the depth of the cellular mechanisms. This course is designed to provide the student with an understanding of the various cellular mechanisms by which human/murine models have developed to provide normal protection; includes a survey of disorders including infections, autoimmunity and developing carcinomas. This course fulfills the Advanced Biology Topic for Biology majors. Prerequisites: BIOL210N/215N or BIOL202N with a grade of 'C' or better or permission of the Program Coordinator.

BIOL210N Medical Microbiology 4 Credits

This course introduces the principles and practices of medical microbiology intended nursing students. Topics include: the nature and behavior of microorganisms; principles of growth and reproduction of microorganisms; identification of microorganisms using staining, pure culture, biochemical and antigenic techniques; and the epidemiology, clinical features, laboratory diagnosis and control measures for microbial diseases caused by viruses, bacteria, fungi, protozoa and helminthes. Students are required to complete an organism identification project. Prerequisite: BIOL201N or BIOL105N with a grade of 'C' or better. This course does not meet the requirements for Biology majors.

BIOL215N Microbiology 4 Credits

This is a comprehensive study of the principles of microbiology. A brief survey of the history of the science and evolutionary

taxonomy is given. Emphasis is placed on understanding the variety and differences among microbes, their metabolism, genetics, and their relationships as pathogens or probiotics to humans and activity in the environment. Also covered are molecular biology technologies, including genetic engineering, gene therapy, PCR genomics, and cloning. Laboratory study accompanies this course requiring successful completion of topic supportive exercises and of completing an unknown project where a mixed culture is given to each student for isolation and identification as partial requirement of the course. This course fulfills Biology major requirements. Prerequisites: ENGL101N or ENGL110N, CHEM110N or CHEM130N, and BIOL105N or BIOL107N in the past 5 years or approval of Program Coordinator.

BIOL220N Ecology 4 Credits

The course covers factors that influence the distribution of organisms; populations and species interactions, such as competition and predation; communities, their structure, dynamics, and the flow of energy; and ecosystems, their structure and dynamics, and particularly the effects of changing climate. Also covered are the role of evolution and human impact, including effects of harvesting, pesticides, invasive species, and restoration ecology. This one-semester course is geared toward preparing students for upper division courses in biology and related fields. Laboratory investigation will involve some field-study techniques and support topics discussed in class. Prerequisites: BIOL107N and BIOL108N. BIOL105N with permission of Coordinator.

BIOL230N Genetics 4 Credits

This course covers chemical structure of genetic material, Mendelism, gene recombination, and chromosome mapping. mutation, gene expression and regulation, recombinant DNA, quantitative inheritance and population genetics. Students will use bioinformatics for a class project. The laboratory includes: Hands-on experience with some of the important organisms used for research in genetics (*Drosophila*, *E. coli*, yeast, *C. elegans*, and plants). The course also includes investigation of fundamental genetic concepts in the laboratory, experience with transmission and molecular genetic techniques, introduction to bioinformatics, and analysis and interpretation of data. Prerequisites: ENGL101N/110N, CHEM110N/131N and BIOL105N/107N in the past 5 years or approval of Coordinator.

BIOL260N Scientific Inquiry & Techniques 2 Credits

This methods course is designed to develop scientific inquiry and physical laboratory skills to ensure students are ready for their Science Capstone Experience. The course is taught in three project based research modules so that students will develop the proficiencies needed in several science topics and techniques in molecular biology, bioengineering, bacteriology, biochemistry, etc. This course fulfills the needs of many disciplines within the sciences, teaching students general library literacy in finding and interpreting peer reviewed scientific journals that can be applied to making summaries and predictions regarding the topic of interest. Students will be encouraged to compare and contrast merits of various techniques and analyses methods. In the laboratory, students will reinforce and enhance their knowledge with hands-on experience with these new techniques learning and following all appropriate safety procedures (Good Laboratory Practices). Prerequisites: BIOL107N and CHEM131N; corequisite:

BIOL215N.

BIOL270N Advanced Topics in Biology 3 or 4 Credits

Advanced Topics in Biology will rotate through different upper-level science courses per semester, and may include endocrinology, biochemistry, molecular biology, cellular biology, or other topics. This course is designed to increase students' scientific knowledge, hone organizational techniques, advance analytical reasoning and enhance critical thinking skills. Students will have the opportunity to apply basic theories and skills learned in their previous science courses to collect data from scientific databases, assess quality of the cited research, and design analytic rubrics while learning the more in-depth language and content of an upper-level course. In addition to classroom instruction, students will work individually under the supervising faculty member to synthesize information from various current sources with their theoretical knowledge into a final project paper. Laboratory experiences may be added to increase student understanding of the scientific techniques being used in current literature. Students may be asked to present their research to the college community. Laboratory: Any laboratory experience will be project-based and not research based. Emphasis will be on development of technical skills, understanding results from new techniques and applying previous knowledge to problem-solving. Prerequisites: BIOL108N or BIOL230N and CHEM130N.

BIOL280N Science Capstone Experience 3 Credits

This course is designed to develop students' critical thinking, design, and organizational skills that will result in formulating plausible research proposals. Students will have the opportunity to apply basic theories and skills learned in their fundamental science courses to design test of principle experiments, to develop skills in data collection, use of databases, designing analytic rubrics that will result in a logical written research proposal that students can take to their transferring university or college and present to a collegiate body. Students will work, as individuals or in small groups, under supervising faculty member to apply their knowledge of the laboratory experience in a research environment and in synthesizing and evaluating the developing research proposals. Laboratory: The laboratory work includes applying new techniques to their individual or group research questions. Research laboratory will have a formal technique portion, followed by individualized and closely guided open labs. Emphasis will be on development of technical skills, reasoning, laboratory safety and proposal development. Prerequisite: BIOL260N.

BUS101N Introduction to Business 3 Credits

This is an introductory course designed to survey the functions of business, while exploring current trends and learning about business opportunities. Topical discussions will include, but will not be limited to the environment in which businesses operate, business structures, business ownership models, industry competitiveness, and resource utilization.

BUS104N Principles of Marketing 3 Credits

This course places an emphasis on the four P's of marketing: Product, price, promotion, and place (distribution). In-depth analysis of consumer versus business customers, products, pricing strategies, consumer behavior, advertising, promotion, personal selling, and distribution channels are offered. Marketing

strategic planning and marketing research are covered as well.

BUS110N Principles of Management 3 Credits

This is a survey course designed to expose the student to nature of the organizational environment and the major activities performed by its managers. The course is organized around the functions of management: planning, organizing, leading, and controlling; thus making it possible for students to use the techniques of management in a systematic way. Case studies are used to apply the principles of management to hypothetical business situations.

BUS201N Human Resources Management 3 Credits

The purpose of the course is to familiarize the student with the scope and content of the human resource management function. Through case analyses and lectures, this course studies the relationship between employees and human resource managers in employment planning, staff recruitment and selection, training and development, performance appraisal and compensation systems, and the promotion of equal employment opportunity. Prerequisite: BUS110N.

BUS202N Labor Relations Management 3 Credits

The overall objective of this course is to introduce the student to labor union relationships in both private and public sectors of business. A historical approach will show how unions evolved and continue to evolve in the contemporary global business environment. Topics of discussion include establishing a union, negotiating a collective bargaining agreement, dispute resolution, and contract enforcement. Prerequisite: BUS201N or Permission of the Instructor.

**BUS204N Small Business Management:
A Capstone Course 3 Credits**

This is the Management capstone course, which studies management techniques as applied to small businesses. Topics involve the requirements necessary to launch a new venture and manage it as an ongoing business. Discussions will cover business plan development, computer applications, human resources, purchasing, marketing, taxation, risk management, and control procedures. The development of a comprehensive business plan allows students to plan for a new venture of their choosing, which is presented in both an oral and written proposal. Prerequisites: ACCT101N, BUS110N.

BUS207N Sales 3 Credits

This course covers the planning, direction, organization, and control of the personal selling effort. Emphasis is placed on the relationships between sales and selling activities, as well as other marketing functions. Students will have numerous opportunities to create different types of sales presentations aiming at the business to business, and business to consumer markets.

**BUS210N Marketing Strategies
A Capstone Course 3 Credits**

This capstone course integrates the theories, models, and concepts covered in other marketing courses. Special emphasis is placed on the development and application of creative analytical problem solving techniques to a wide range of marketing problems. Prerequisite: BUS104N, BUS215N.

BUS213N Principles of Advertising 3 Credits

This course is an introduction to the field of advertising, which covers the procedures and theories of creating and using advertisements. The course also focuses on the marketing manager's role in designing the firm's advertising program within an overall corporate strategic plan.

**BUS215N Integrated Marketing
Communications 3 Credits**

This course provides an overview of marketing communications methods such as advertising, public relations, personal selling, and sales promotion. Emphasis is placed on how these methods are used for direct marketing campaigns. The relationship selling model is emphasized within the overall framework of marketing communications. Students utilize these methods and develop and integrated marketing communications plan. This course assumes some basic knowledge of marketing communication and promotion theory and practice on the part of the students but does not require any specific work experience. Prerequisite: BUS104N.

**BUS220N Honors Leadership
in the Workplace 3 Credits**

This course provides the critical element of analytical and intellectual examination and reflection of certain core issues in the practice of leadership. Understanding of these concepts will be achieved through open discussion, honest self-assessment, experiential exercises and observation of real-life leadership practice. Traits and behaviors of leaders setting the ethical tone of the organization are also studied. Examination of the confusion and gray areas involved in leadership initiatives sets the tone for this as an honors level course.

**BUS230N Introduction to Management of
Information Systems 3 Credits**

This course is designed to provide a descriptive and functional definition of management information concepts. The organization will be viewed as a total system with three subsystems: management, operations, and information. The student will examine the interactions and procedures of the information subsystems, such as scheduling, production, inventory, sales, purchasing, planning, finance, accounting, and human resource management. Discussion topics include the information requirements of an organization and the interaction of systems hardware, software and data management.

BUS240N Business Law 3 Credits

This is an introductory course in business law. Discussion topics include the origin of law, the federal and state court systems, contract law, and the Uniform Commercial Code. The case study approach will be used so that legal concepts can be applied to various business scenarios.

**BUS290N Management/Small Business
Entrepreneurship Internship 3 Credits**

An internship program in the Department of Business is a hands-on learning experience at a for-profit or not-for-profit organization, which allows the student to practice competencies and skills learned in the classroom under the direct supervision of an on-site internship advisor. Prerequisite: Completion of all catalog-listed courses for the first three semesters in a business student's respective program of study.

BUS294N Marketing Internship 3 Credits
An internship program in the Department of Business is a hands-on learning experience at a for-profit or not-for-profit organization, which allows the student to practice competencies and skills learned in the classroom under direct supervision of an on-site internship advisor. Prerequisite: Completion of all catalog-listed courses for the first three semesters in a business student's respective program of study.

CAD111N CADD I 5 Credits
CADD I is the study of graphical communication. The drafting fundamentals studied in this course will include 3D Solid Modeling, blueprint reading, measurement, geometric construction, orthographic projection, section views, dimensioning, threads and fasteners. All work is performed using current CAD software (Solidworks) on personal computers.

CAD112N CADD II 5 Credits
CADD II will continue the study of graphical communication exploring advanced 3D Solid Modeling, geometric dimensioning and tolerancing, manufacturing methods, spring and cam design. Students will learn all of the components necessary to design in a 3D environment including solids, surfaces, parts and assemblies, applying materials, and creating animated assemblies. Prerequisite: CAD111N or Permission of the Instructor.

CAD131N Technical Drawing 3 Credits
This course covers the basics of drafting fundamentals including blueprint reading, measurement, geometric construction, orthographic projection, section views, auxiliary views, dimensioning and tolerancing, threads and fasteners. All work is performed using current CAD software (Solidworks) on personal computers. This course is designed for the Precision Manufacturing student.

CAD215N CADD III 5 Credits
CADD III will continue advanced 3D graphic communications using CREO (formerly Pro Engineer) solid modeling software. Students will learn advanced 3D solid design, tolerancing, detail and assembly drawings, mass properties and advanced manufacturing techniques. Communications between different CAD programs will be introduced. Students will learn the basic steps in the design process including design for manufacture concepts. Prerequisites: CAD112N, MTTN118N, or Permission of the Instructor.

CHEM110N Introduction to Chemistry 4 Credits
This introductory chemistry course provides students with conceptual and hands-on experience with fundamental principles of chemicals. Included are topics in atomic structure, chemical bonding, periodic table, solutions, gas laws, acid-base and reduction/oxidation reactions, chemical equilibrium, thermodynamics, and an introduction to organic and biochemistry. This course does not fulfill the requirements of CHEM130N & CHEM131N or Organic Chemistry I & II. **This course fulfills a General Education Core Requirement: Science.**

CHEM130N General Chemistry I 4 Credits
This chemistry course introduces the student to the principles of chemistry included in the first semester of a two-semester chemistry course. The course will include topics such as matter, stoichiometry, chemical reactions, gas and kinetic-molecular

theory, thermochemistry, quantum theory and atomic structure, chemical periodicity, chemical bonding, and molecular geometry. Principles taught in lectures will be reinforced in laboratory experiments. Prerequisite: Accuplacer score with placement into MATH110N or MATH120N.

CHEM131N General Chemistry II 4 Credits
This general chemistry course is designed to teach students the principles of chemistry included in the second semester of a two semester chemistry course. This course will include topics such as intermolecular forces, properties of solutions, kinetics, chemical equilibrium, acid-base equilibrium, electrochemistry, and thermodynamics. Prerequisite: CHEM130N with a 'C' or better; corequisite: MATH120N.

CHEM136N Honors Chemistry Through Forensics 3 Credits
This Honors chemistry course introduces the student to the principles of chemistry as they apply to forensic problems such as evidence, drugs, and fire. The course will include topics such as matter, atomic structure, chemical reactions, stoichiometry, chemical bonding and molecular geometry, solutions, introductory organic chemistry, and thermochemistry. This is a non-lab science offering for non-science majors. Prerequisite: Accuplacer Math placement test.

CHWN101N Foundations of Health & Wellness 3 Credits
This survey course familiarizes the student with the broad and varied methods and techniques currently recognized in the field of Alternative Health and Wellness. Most frequently used options for treatment of self and others will be explored at some depth. Emphasized will be both Eastern and Western modalities. Furthermore, this course assists the student in choosing one or more areas of focus within the overall program.

CHWN115N Introduction to Herbology 3 Credits
This survey course will familiarize the student with the properties and the usage of herbs from around the world. At least 12 herbs will be studied in depth, with the students developing monographs of the herbs studied in class. At the conclusion of this course the student will have developed a Materia Medica and will be able to create herbal products for their own use.

COMM101N Introduction to Media Studies 3 Credits
This course will introduce students to the application of writing principles for various forms of media copy: print news and features; broadcast news for radio and television, public service announcements, advertising, social media, and public relations. Topics covered in this class include: Hard news, feature writing, AP style, crafting effective leads, editing, organizational media, interviewing techniques, blogging, identifying and targeting audiences, public service announcements, press releases, and communications ethics and theory. **A minimum grade of B- is required to remain in the Communications program.** Prerequisite: ENGL101N or ENGL110N. **This course fulfills a General Education Core Requirement: English/Communications.**

COMM102N Principles of Communication 3 Credits
A survey of the basic theories and principles of human communication by first exploring the fundamental processes

central to communication (e.g. listening, verbal and nonverbal communication, message, channel, medium) and then applying those processes to various communication contexts including interpersonal, intrapersonal, small group, public, organizational, and mass communication. Prerequisite: ENGL101N or ENGL110N.

COMM115N Introduction to Media Writing 3 Credits

This course will introduce students to the application of writing principles for various forms of media copy: print news and features; broadcast news for radio and television, public service announcements, advertising, social media, and public relations. Topics covered in this class include: hard news; feature writing; AP style; crafting effective leads; editing; organizational media; interviewing techniques; blogging; identifying and targeting audiences; public service announcements; press releases; and communications ethics and theory. **A minimum grade of B- is required to remain in the Communications program.** Prerequisite: ENGL101N or ENGL110N.

COMM120N Introduction to Public Relations 3 Credits

This course introduces the student to the public relations process and management in addition to the role of the public relations practitioner. The course will discuss how public relations differs from other communication disciplines and how corporate and nonprofit institutions use public relations as a strategic communication tool. Ethics and social responsibility and the impact of social media will be defined. Students will apply public relations practice through a course service learning component. Prerequisite: ENGL101N or ENGL110N.

COMM125N Introduction to Broadcasting 3 Credits

This course will introduce the student to the study of broadcast media. It will trace the development of radio and television through inception to the present day. Social, cultural, economic, and political issues associated with the industry are presented allowing the student to gain greater insight into the origin, roles, operation, and changing philosophy of broadcasting in the United States. Examples of news gathering and reporting, advertising and entertainment are examined. Prerequisite: ENGL101N or ENGL110N.

COMM130N Blog Writing 3 Credits

Applying principles used in business and industry, students will analyze existing blogs, create a blog, use writing skills and graphics to create compelling blog posts, and learn how to market and promote their blog online. Prerequisite: ENGL101N or ENGL110N

COMM204N Screenwriting 3 Credits

Students will learn and apply the techniques and principles of scripting movies and will examine the writing process from idea conception to completed work. Topics covered include: Writing scripts that connect to audiences; screenplay story structures, conventional and unconventional; the sophisticated nature of storytelling through description; the language of screenwriting; characterization and arc; and peer evaluation. Prerequisite: ENGL101N or ENGL110N with a grade of 'C' or better.

COMM206N Social Media 3 Credits

Today's society is directly impacted by social media. Twenty-

first century political, social and economic changes have been effected through the use of social networking. In the competitive media world, journalists must possess social media skills. This course will focus on the analysis and use of current and emerging social media, such as Twitter, Facebook, Tumblr, YouTube, SnapChat, Pinterest, Reddit, and other platforms. Students will explore the history, effect, appropriate uses of social media and will learn to craft appropriate messages utilizing the various platforms for different genres of journalism. Prerequisite: ENGL101N or ENGL110N.

COMM210N Perspectives in Film 3 Credits

This course explores a body of narrative and or non-narrative films related by virtue of style, director, themes, technology or historical perspective. Analysis of the films allows students to critically consider the role and value of film as part of a participatory culture in a shifting media landscape. Prerequisite: ENGL101N or ENGL110N.

**COMM285N Communications Internship:
A Capstone Experience 3 Credits**

This course prepares students for an advanced study of communications at the bachelor degree level and will serve as the capstone experience for Communications students enrolled in the Liberal Arts program. The course is designed to help students synthesize the learning and skills acquired in their program with reality-based application through an on-site internship. Career planning may be strengthened by mentoring relationships developed through the internship experience. Pre-approval of the internship site and intended project by the program coordinator before placement; approved placement is expected prior to the semester start. Prerequisites: Completion of 45 credits of coursework applicable to the Liberal Arts-Communications program. Minimum grade of 'B-' in ENGL101N or ENGL110N, COMM101N and COMM115N must be achieved to register for COMM285N.

CRMJ101N Introduction to Criminal Justice 3 Credits

This course provides an introduction to the American criminal justice system. Students will learn about the core components of the criminal justice system, including the police, courts, and the correction field. The overall goals of the criminal justice system will be addressed with particular attention given to the competing goals of the crime control and due process models. Students will learn about the interconnectedness of the various components of the criminal justice system from a 'systems' perspective.

CRMJ102N Criminology 3 Credits

This course offers students an opportunity to think critically about crime and criminals in American society. Students will review the history of crime in the United States and evaluate the ongoing relationship between crime and significant events in society, such as economic crises and the development of new technologies. Emphasis will be given to understanding both the relationship between social structure and crime and the role of socialization and primary relationships. Students also explore the ways that cultural beliefs, fear, and stereotypes shape the way we think about and respond to crime. Corequisite: SOCI101N.

CRMJ121N Criminal Investigation 3 Credits

This course introduces the fundamental principles and techniques of criminal investigation. Students will explore a variety of topics including crime scene processing, evidence collection, the development of information sources, identification by witnesses, interviews and interrogation, admissions, and case preparation. Prerequisite: CRMJ101N.

CRMJ122N Law Enforcement Organizations 3 Credits

This course examines the organization, management, and administration of criminal justice agencies from a theoretical perspective. Students will be given the opportunity to evaluate how the structure and functions of such agencies affect the administration of justice at the local, state, and federal levels. Prerequisite: CRMJ101N.

CRMJ220N Juvenile Justice 3 Credits

In this course, students will examine theories, causative factors, and treatment in regard to youthful offenders. The philosophy behind and development of treatment and rehabilitative practices are explored. Adolescent behavior, peer pressure, and the role of the family will be examined. This course also includes legal, procedural, and substantive issues pertaining to the juvenile justice system. Prerequisite: CRMJ102N.

CRMJ240N Criminal Law and Prosecution 3 Credits

In this course, students will examine the purposes, scope, and sources of criminal law. Students will learn to differentiate the jurisdictional issues and requirements within the criminal court system and discover the essential elements of a crime. The relationship between these elements and an investigation will be explored. Students will evaluate a variety of criminal offenses and the application of criminal liability, criminal responsibility, and an individual's capacity to commit a crime. Students will gain an understanding of criminal prosecution and the corresponding criminal defenses. Prerequisite: CRMJ101N.

CRMJ260N Criminal Procedure 3 Credits

In this course, students will analyze the constitutional issues in the United States which have direct bearing on the role and policies of the criminal justice system. Application of these issues as they relate to investigations, arrest, pretrial and appeal will be emphasized. Prerequisite: CRMJ240N.

CRMJ265N Corrections 3 Credits

In this course, students will study the correctional processes and services, standards, personnel and principles of management; allocation of resources, training and staffing; the role of sentencing and work release programs; special programs and the use of outside contracts will be examined. Prerequisite: CRMJ122N.

CRMJ280N Criminal Justice Internship 3 Credits

In this course, students will have the opportunity to put learned theory into practical application as an intern. The student is responsible for seeking out the agency placement, with the assistance of the course instructor. The internship requires the completion of a mandatory minimum number of hours. A journal is maintained by the student and the final grade is based on a combination of the completion of hours, the journal, a supervising

agency assessment, and an analytical report. Prerequisite: Completion of 45 credits of coursework applicable to the Criminal Justice associate degree program.

CRMJ285N Criminal Justice Senior Project 3 Credits

In this course, through on-going and individualized contact with the supervising instructor, the student develops a topic pre-approved through a prospectus presented to the instructor. The student may develop any topic raised in any major class and is not limited by category. Empirical studies, surveys, literature reviews are among the acceptable categories of research. The final grade is determined by a review of the final product and the extent to which the student has followed the course guidelines. Prerequisite: Completion of 45 credits of coursework applicable to the Criminal Justice associate degree program.

CRTN101N Basic Collision Repair 4 Credits

The theory and development of skills required in making auto body sheet metal repairs. Procedures in the proper use of equipment, tools and materials to straighten, shrink, and restore automobile sheet metal will be covered. Students will learn vehicle disassembly procedures. Shop safety will be stressed and applied. A minimum grade of 'C' is required for progression in Collision Repair Courses.

CRTN102N Introduction to Collision Repair 3 Credits

This course covers the following: The Auto Body Industry, shop operations, OSHA and EPA Regulations, hand and power tools, shop equipment, service procedures, fasteners and hardware. Students will explore various opportunities in the Auto Body Repair Industry. A minimum grade of 'C' is required for progression in Collision Repair Courses.

CRTN105N Basic Automotive Refinishing 4 Credits

The theory and development of skills required to properly prepare an automobile for refinishing. Topics include the selection of abrasives, primers, sealers and other refinishing materials. The proper use of painting equipment such as compressed air systems, respirators, spray guns, paint booths, and drying systems will be covered. Spray gun handling and technique will be covered. Laws, regulations and safety regarding the handling of paint materials will be emphasized. A minimum grade of 'C' is required for progression in Collision Repair Courses.

CRTN125N Intermediate Automotive Refinishing 4 Credits

The theory and development of skills required to properly prepare various panels and vehicle bodies for refinishing. Students will learn to identify paint codes, utilize proper masking techniques, mix and apply single and two stage finishes. Procedures in the application of chip resistant coatings and seam sealers plus final detailing of vehicle finishes will be covered. Shop safety will be stressed and applied. Prerequisites: CRTN101N, CRTN102N, CRTN105N.

CRTN135N Mechanical/Electrical Systems I 3 Credits

The development of skills and knowledge working with automobile cooling systems, HVAC and basic electrical systems will be covered. Shop safety will be stressed and applied. Prerequisites: CRTN101N, CRTN102N, CRTN105N.

CRTN140N Collision Repair Welding 3 Credits
This course is designed to develop basic welding and cutting skills for metals used in the construction of automobiles. Students will learn the proper selection, set up and operation of Oxy-Acetylene, GMAW (MIG), TIG, Resistance Spot Welding and Plasma Cutting. Discussion about aluminum welding will be covered. A minimum grade of 'C' is required for progression in Collision Repair Courses.

CRTN151N Intermediate Collision Repair 4 Credits
Students will receive instruction and practice in the removal and replacement of mechanically attached panels, including but not limited to: Fenders, doors, bumpers, hoods and deck lids. Instruction on moveable glass, stationary glass, water leaks and wind noise will be covered. Shop safety will be stressed and applied. Prerequisites: CRTN101N, CRTN102N, CRTN105N.

CRTN201N Advanced Collision Repair 4 Credits
Theory and development of skills to repair and replace welded and bonded panels used in automobile construction. Students will study and practice repair to plastic panels such as bumpers and exterior trim. Practice in removing and replacing fixed glass in accordance with industry accepted procedures. The study of aluminum panel repair will be discussed. Shop safety will be stressed and applied. A minimum grade of 'C' is required for progression in Collision Repair Courses. Prerequisite: CRTN151N.

CRTN210N Structural Analysis and Repair 4 Credits
Students will practice anchoring, straightening and repairing structural components of full frame and unibody vehicles. Demonstrations and hand on activities repairing and replacing various components such as frame rails, radiator supports, pillars and quarter panels will be covered. Identifying methods of cold stress relief and using heat to straighten metal will be discussed. Shop safety will be stressed and applied. Prerequisites: Successful completion of first year Collision Repair courses; corequisites: CRTN211N, CRTN235N, PHYS101N.

CRTN211N Structural Analysis and Measuring 3 Credits
Students will analyze collisions causing structural damage to full frame and unibody constructed vehicles. The study and practice of measuring damage using tape measures, tram gauges, mechanical measuring and computer aided laser measuring systems will be covered. Shop safety will be stressed and applied. Prerequisites: Successful completion of first year Collision Repair courses; corequisites: CRTN235N and PHYS101N.

CRTN225N Advanced Automotive Refinishing 5 Credits
This course covers the skills and procedures needed to apply topcoat finishes to the automobile. The course will cover such topics as color theory, paint mixing, blending and tinting techniques, and paint defects. Application of topcoat finishes will include single stage, basecoat/clearcoat, multi-stage, waterborne, and custom paint systems. Safety and proper handling of refinish materials will be emphasized. All students will refinish body panels and complete vehicles in a controlled environment. Prerequisites: CRTN201N.

CRTN230N Estimating and Customer Service: A Capstone Experience 3 Credits
Students will learn to assess damages using industry accepted estimating service provider's information. The study of economics in damaged vehicles and their repairs will be discussed. Customer relations and sales skills will be practiced. Students will learn about working with the customer, the insurance company and developing a repair plan. This course includes a Capstone project. A minimum grade of 'C' is required for this course. Prerequisites: Successful completion of all Collision Repair coursework or permission of Program Coordinator; corequisites: CRTN225N, CRTN245N.

CRTN235N Mechanical/Electrical Systems II 3 Credits
The study of automotive steering and suspension systems, braking systems and drive trains. Students will have demonstrations and hands-on exposure to typical repairs encountered in a collision repair shop. Shop safety will be stressed and applied. Prerequisites: Successful completion of all first year Collision Repair courses.

CRTN245N Mechanical/Electrical Systems III 3 Credits
Students will learn electrical component testing and diagnosis on switches, relays, motors, connectors and wiring. Discussion and demonstrations of safety with high voltage systems on hybrid vehicles will be covered. Inspection and replacement of fuel system and exhaust system components. Students will have hands on practice replacing supplemental restraint systems and components as well as diagnose DTC's related to SRS. Shop safety will be stressed and applied. Prerequisite: CRTN235N.

CSCI102N Website Development I 3 Credits
This is the first course in the website development sequence. The student is introduced to fundamental concepts needed to design and build a website. Topics introduced include purpose definition, audience definition, content planning, structure design, elementary page design, and typography/color considerations. Students are required to develop and present a final project using a web authoring tool and concepts learned in the course.

CSCI103N Website Development II 3 Credits
This course is the second course in the website development sequence. The web page and website design principles will be reinforced while the student studies the syntax and semantics of XHTML and CSS tags. Students will explore World Wide Web concepts such as client/server, and search engine optimization. Students are required to develop and present a final hand coded project. The course also contains an optional service learning component or assignment. Prerequisite: CSCI102N.

CSCI106N Introduction to Software & Web Development 3 Credits
This is a survey course for both the Web Application and Software Development programs. This course will examine fundamental aspects of computing such as, the role of an operating system, the history of computers, computer data representation and the stored program concept. The student is introduced to these concepts in order to form a foundation to be utilized and enhanced by other program-related courses.

**CSCI140N Essentials of System
Analysis & Design 3 Credits**

This course provides an introduction to systems analysis and design. Students will be introduced to the basic principles and concepts of software engineering thereby providing the necessary foundation for subsequent software engineering courses. Topics include basic terminology and core software engineering concepts; the Software Development Life Cycle (SDLC); systems requirements gathering and selection; modeling systems using Data Flow Diagrams (DFD) and the Unified Modeling Language (UML); project scheduling using GANTT charts; database environment; and an introduction to a relational model. Prerequisite: CSCI161N.

CSCI161N Introduction to Programming 3 Credits

This course serves as the first computer programming course. It introduces students to the concepts of problem solving, code development, and code organization. Students learn how to: Define a problem, develop a solution, translate the solution into code, compile it, and run the program. Students learn basic principles of declaring variables and memory allocation. They learn control structures such as single, double, and multiple selections and various forms of looping. Students also learn simple data structures such as arrays, and simple on disk file structures such as text and random files. Finally, students learn to analyze existing algorithms and develop their own algorithms for solving applied problems. These concepts are taught using a contemporary programming language. Graphics are incorporated into the course to enhance the class content and enrich the content in a visual manner. Prerequisite: ACCUPLACER[®] score with placement into MATH110N or concurrent enrollment in MATH110N.

CSCI175N Programming Using C++ 3 Credits

This course is the first course in C++. The student's problem solving skills will be strengthened while learning C++. The importance of variable data types, arrays, if, if else, loops, and functions will be emphasized. Additionally the student will be introduced to pointers, structures, and selected preprocessor directives. Prerequisite: MATH110N or higher recommended.

**CSCI201N Client-Side Scripting
Using JavaScript 3 Credits**

This course is an introduction to JavaScript programming. The students will be introduced to the following topics: Language constructs, form handling, input validation using regular expressions, events and event handlers, creating and using cookies, DOM (Document Object Model), and Ajax (Asynchronous JavaScript and XML). Students are required to develop and present a final project. Prerequisite: CSCI103N, CSCI161N.

CSCI202N Java Programming 3 Credits

The students will reinforce their understanding of basic programming concepts such as variables, loops, conditions, arithmetic operations, functions, parameters and arrays while learning the Java programming language and the Java SDK. The key concepts of the object-oriented programming such as classes, objects, inheritance, and encapsulation are also addressed as well as object oriented problem conceptualization

and class definition. Additionally graphical user interface (GUI) and event driven programming concepts are reinforced. Prerequisite: CSCI161N.

CSCI203N Introduction to UNIX 3 Credits

The student will be able to perform ordinary tasks in the UNIX operating system. This would include user file and directory management, use of shell/template, use of an editor, executing commands and managing processes. The student will also learn to customize the work environment, use UNIX utilities and learn simple scripting. (Although there is no prerequisite for this course, students who are new to working with computers should consider taking CSCN101N either before or along with this course.)

CSCI206N Server-Side Scripting Using PHP 3 Credits

The student is introduced to the fundamentals of server side scripting in a web server based environment. This course focuses on the fundamentals needed to design and create dynamic and interactive HTML/XHTML pages that access information on the server. Students learn to design and develop applications for use in an intranet/internet environment. Prerequisite: CSCI103N, CSCI161N.

CSCI207N Database Design & Management 3 Credits

This course is an introduction to database design and management. The students will be introduced to the following topics: Database environment, the database development process, including information architecture and system planning, database analysis, database planning and design, the relational theory and terminology as well as normalization. The course will also introduce the student to CASE tools and their uses in the database development process. Additionally the course will study the Structured Query Language (SQL). Students will apply their knowledge with hands-on projects designed to teach the intricacies of database design. Prior knowledge of a programming language as approved by the Program Coordinator is required.

**CSCI230N Object Oriented Programming
Using: C++ 3 Credits**

In this course, the student will continue to develop proficiency in problem solving using more in depth abstract programming constructs using the C++ programming language and object oriented techniques. They will strengthen their knowledge of classes, inheritance and polymorphism. Templates and the Standard Template Library (STL), Exception handling and Operator Overloading will be discussed in detail. File processing will be discussed in greater detail. Students will be familiar with the data structures and algorithms as applied to the solving of everyday problems. Prerequisite: CSCI175N.

CSCI278N Data Structures Using C++ 3 Credits

This course is the fourth in the software development sequence. It introduces the student to algorithms used to represent data in an efficient manner. Standard data structures and problem solving techniques will be introduced. The data structures studies will involve stacks, queues, linked lists, trees, graphs and hash tables. These structures will be presented in an object-oriented manner using C++ language. Prerequisite: CSCI230N.

**CSCI284N Senior Website Development Lab:
A Capstone Experience 3 Credits**

This is the website development program's capstone course. Students, in cooperation with supervising faculty members, demonstrate their mastery of website development competencies. They select a project and perform the work necessary to move it through the phases of the SDLC including project definition, project planning, systems analysis and process modeling including data flow and UML, systems design including GUI design and data structure design, project scheduling and project implementation and testing using one or more scripting or programming languages. Students are expected to present the completed project documents as well as to present the actual project to fellow students and department faculty members. Corequisite: CSCI206N.

**CSCI285N Senior Software Development Lab:
A Capstone Experience 3 Credits**

This is a capstone course in the software development and website development programs. Students, in cooperation with supervising faculty members, demonstrate their mastery of their software development or website development competencies. They select a project and perform the work necessary to move it through the phases of the SDLC including project definition, project planning, systems analysis and process modeling including data flow and UML, systems design including UI or GUI design, project scheduling and project implementation including testing using one or more 3GL programming languages. Students are required to present the completed project documents as well as to present the actual project to fellow students and department faculty members. Prerequisite or Corequisite: CSCI278N.

CSCI290N Computer Science Internship 3 Credits

The internship program allows the student to apply, in a work environment, competencies and skills learned in the classroom. Internship activities include a weekly seminar in which the different business structures and work experience will be shared. Students will keep a journal of their work experience. A final report will be written to evaluate work experience. This course offers a service learning option. Prerequisite: Substantial completion of all catalog-listed courses for the first three semesters in the Computer Science program and approval of the internship coordinator.

**CSCN101N Computer Architecture and
Operating Systems 3 Credits**

Computer architecture refers to the basic components that make up a computer system. This includes the operation and interrelation of its internal components and peripheral devices, its memory organization, the Basic O/O (BIOS) system, and storage. Students will become sufficiently familiar with computer hardware to be able to build or fix computers. Windows, Linus, Mac OS and Android operating systems will be introduced with emphasis on Windows OS. Students will be introduced to very basic administration both in native and virtualized systems. Command line and scripting leading to the first programming concepts will be presented. Shell scripting or interpreter, such as Python, may be used. The content of this course is intended to reflect the objectives of the industry recognized A+ Certification, which identifies skills required by IT technicians. This course offers an

optional service learning component. Students who take this course online should plan on having computer parts available.

**CSCN104N Introduction to
Telecommunications 3 Credits**

Introduction to Telecommunications prepares a student to understand, design, implement, and maintain a modern communications system. Current systems are focusing on the convergence of voice, data, and video all transmitted across a common network structure. This course introduces the various media that are used in the transmission process. It includes, but is not limited to: Twisted Pair Cable, Coaxial Cable, Fiber Optic Cable, and Wireless technologies. It offers an introduction to both analog and digital signaling and the use of the Internet Protocol to integrate the various types of content. Students learn about the equipment to which the cabling connects and the roles of the key players who own that equipment and cabling. Students will be expected to learn to communicate their technical knowledge to both technical and non-technical audiences.

CSCN105N Internet Server Management 3 Credits

The student will learn how to set up and maintain internet servers on the Microsoft platform. The course will include setup and configuration of web, ftp, email, and SSL servers. The student will also learn to set up user accounts, utilize NTFS security, monitor network transmissions, manage DNS, and utilize log files.

CSCN116N Networking Basics 3 Credits

This course introduces the basic concepts and principles that underlie computer networking using the Open Systems Interconnection (OSI) model and TCP/IP protocol suite. It presents an overview of networking terminology, examines different networking topologies and architectures, discusses the physical components of computer networks and reviews the principles of network connectivity. It also examines the implementation through design and installation of simple Ethernet networks. Although there is no prerequisite for this course, students who are relatively new to working with computers should consider taking CSCN101N, CSCN104N, or BCPT101N as a prerequisite or corequisite.

CSCN150N Fundamentals of Cybersecurity 3 Credits

This class is an introductory survey course in Cybersecurity. It is based on the Certified Information System Security Professional Common Body of Knowledge Book. Students will be introduced to the major domains of cybersecurity: Security and Risk Management, Asset Security, Security Engineering, Communications and Network Security, Identity and Access Management, Security Assessment and Testing, Security Operations, and Software Development Security. This course is a first step towards providing a deep technical knowledge needed to effectively design, implement and manage overall cybersecurity of an organization. Although there is no prerequisite for this course, students who are relatively new to working with computers should consider taking CSCN101N and CSCN104N as a prerequisite.

CSCN170N Linux Essentials 3 Credits

This course is a basic introduction to how computers operate. CPU, memory, and disk concepts will be discussed. The layering

of software on top of the operating system and hardware will be discussed. Students will learn how to use computers in both a scripting command line environment, and through a GUI. Differences will be outlined. The concepts will be explained using Linux Operating System. Students will start with basic user account and login concept and will progress to system installation and setup. File system structure and security will be discussed. From there students will move to explore shell scripting and other scripting tools provided by the Linux environment. Compiled programs will be demonstrated via C++ and application examples. Foundations for future learning of client server architecture will be presented.

CSCN204N Administering Windows Servers 3 Credits

This course will introduce students to the current Microsoft Windows Server operating system through lectures, demonstrations, discussions, and hands-on labs. Students will perform an installation of how to manage Active Directory objects. Students will use Microsoft Management Console to monitor system performance and to administer user accounts, and group policies. They will learn how to administer print services and also learn how to manage and maintain hardware in a Windows Server environment. Prerequisite: CSCN116N.

**CSCN209N UNIX System Administration
Using Linux 3 Credits**

This course will teach the students how to set up and operate Linux based system as a server for a network of computers. The course will start with set up of a local system including booting and shutting down the system. The student will know how to create user accounts on the system, install software on the system and set up the two most popular user interfaces GNOME and KDE. Students will learn how to set up basic Internet services: DNS, FTP, Web Server (Apache), SMTP Mail, POP mail, DHCP, and Secure Shell (SSH). Special attention will be given to setting up and working with Apache Web server. The student will be exposed to some of the Intranet issues: NFS (Network File Server), NIS (Network Information Services), Samba (Windows Connectivity), printing. Finally some more advanced Networking topics will be explored. The TCP/IP will be examined from the system administrator's point of view and from the point of view of setting up firewalls. Prerequisite: CSCN170N.

CSCN210N Advanced Windows Servers 3 Credits

This course is a continuation of CSCN204N, Administering Windows Servers. The course covers the skills and knowledge necessary to configure, manage and troubleshoot a Microsoft Windows Server network infrastructure, including such servers as DHCP, DNS, Routing and Remote Access Server, File Server, Print Server, Windows Software Update Services Server, and Active Directory Certificate Service. The student will also utilize a number of security tools, such as IPsec and Network Access Protection, as well as a number of monitoring tools provided by the operating system. Prerequisite: CSCN204N.

CSCN211N Network Security Monitoring 3 Credits

Network Security Monitoring is an essential activity for enterprise cybersecurity. This course will introduce tools and methods needed for carrying out this task. In current environment it is unlikely that a network will be free of any intrusion attempts.

Detecting these attempts and mitigating them makes a difference between a small incident and a major compromise of the network. The students will learn to use open source solutions such as Security Onion and Snort for collecting data, detecting intrusion and analyzing the data. Upon completion of this course students will gain skills needed to be an effective network security analyst. Prerequisite: CSCN116N.

CSCN216N Routing & Switching Essentials 4 Credits

This course is the second in our series that covers the skills required for Cisco's CCENT and CCNA certifications. It describes the architecture, components, and operations of routers and switches in a small network. Students learn how to configure a router and a switch for basic functionality. By the end of this course, students will be able to configure and troubleshoot routers and switches and resolve common issues with RIPv1, RIPng, single-area OSPF, virtual LANs, and inter-VLAN routing in both IPv4 and IPv6 networks. Prerequisite: CSCN116N.

CSCN217N Scaling Networks 3 Credits

This course is the third in our series to prepare students for CCENT and CCNA certification. It describes the architecture, components, and operations of routers and switches in a larger and more complex network. Students learn how to configure routers and switches for advanced functionality. By the end of this course, students will be able to configure and troubleshoot routers and switches and resolve common issues with OSPF, EIGRP, and STP in both IPv4 and IPv6 networks. Prerequisite: CSCN216N.

CSCN218N Connecting Networks 3 Credits

This course is the fourth course in our series to prepare students for CCENT and CCNA certification. It discusses the WAN technologies and network services required by converged applications in a complex network. The course enables students to understand the selection criteria of network devices and WAN technologies to meet network requirements. Students learn how to configure and troubleshoot network devices and resolve common issues with data link protocols. Students will also develop the knowledge and skills needed to implement IPsec and virtual private network (VPN) operations in a complex network. Prerequisite: CSCN217N.

CSCN220N Android I 3 Credits

This is the first introduction to Android Operating Systems, Android Studio and Mobile Systems. This course will teach students how to develop applications for Mobile Devices. Since it is an entry level course, it will deal with data entry, processing and storage. Basic control structures will be introduced. Life cycle of the product will be discussed. Students will learn about user interfaces, built-in widgets and components. Prerequisite: CSCN170N.

CSCN221N Android II 3 Credits

This course solidifies and extends knowledge of Android Operating System, Android Studio and Mobile Systems. This class builds on the knowledge of basic mobile systems development. A large emphasis will be on mining existing systems and on data base development and SQL Lite as present on the Android systems. Students will learn about network connectivity on mobile

devices. Prerequisite: CSCN220N.

CSCN250N CCNA Security 3 Credits

CCNA Security equips students with the knowledge and skills needed to prepare for entry-level security specialist careers. This course is a hands-on, career-oriented e-learning solution that emphasizes practical experience. CCNA Security is a blended curriculum with both online and classroom learning. CCNA Security aims to develop an in-depth understanding of network security principles as well as the tools and configurations available. This course prepares students for the CCNA Security certification exam. The following tools are covered: Protocol sniffers/analyzers; TCP/IP and common desktop utilities; Cisco IOS Software; Cisco VPN client; Packet Tracer (PT); Web-based resources. Prerequisites: CSCN217N or CCNA certification or equivalent experience.

CSCN286N Networking Capstone Project 3 Credits

This course draws together the major goals of the Computer Networking degree: designing a network, implementing that design, providing services to users on that network and maintaining that network. In addition, the course integrates the important ability to communicate technical information to both technical and non-technical individuals. Students will choose, design, or be assigned a project that incorporates the components identified above in the form of a Request for Proposals. Both a written solution and an oral presentation of that solution will be required. Prerequisites/Corequisites: CSCN217N, CSCN210N

CSCN290N Computer Science Internship 3 Credits

The internship program allows the student to apply, in a work environment, competencies and skills learned in the classroom. Internship activities include a weekly seminar in which the different business structures and work experience will be shared. Students will keep a journal of their work experience. A final report will be written to evaluate work experience. This course offers a service learning option. Prerequisite: Substantial completion of all catalog-listed courses for the first three semesters in the Computer Science program and approval of the internship coordinator.

CULA103N Culinary Skills and Procedures 3 Credits

This is a foundation course for students embarking on culinary careers. It emphasizes basic cooking techniques, culinary terminology and the proper uses of culinary tools. The class consists of a one hour weekly lecture and a five hour lab consisting of a demonstration of food preparation by the instructor followed by hands-on food production by the students. Goals of the course include learning the importance of detailed organization, or "Mise en Place," correct cooking procedures and appropriate attitudes towards the culinary profession as developed by the culinary program and the American Culinary Federation.

CULA105N Food Safety and Sanitation 3 Credits

This aspect of the Culinary Arts Program delivers consistent food safety and sanitation training to culinarians and culminates in an exam where the student has the opportunity to take an examination to become Serve-Safe Certified.

CULA120N Fundamentals of Baking 3 Credits

This course introduces students to the fundamental elements of baking terminology, methods, science, ingredients, weights and measures, formula conversion, and storage. Topics include formulation of yeast-based products, the functions and properties of various flours, fats sugars, leaveners, and other baking ingredients. Students will spend lab time applying their knowledge in the production of various products. Proper sanitation and safety techniques on the bakery will be emphasized. Corequisite: CULA105N.

CULA140N Nutritional Cuisine 3 Credits

Students will learn to apply sound nutritional principles to food preparation and menu planning, in order to provide nutritionally balanced but appealing meals for today's health conscious consumer. The importance of nutritional guidelines, food selection, alternative preparation techniques and presentation is stressed and demonstrated in daily production. Prerequisite: CULA103N.

CULA145N Menu Development and Cost Controls 2 Credits

This course introduces students to the intricacies of menu development for foodservice establishments. Topics to be covered include menu development, descriptions, layout, design, and pricing, sales mix, and station balance. Students will also be introduced to proper procedures for purchasing, receiving, storage and issuing of perishable and non-perishable foods. Emphasis is on the development and use of purchasing specifications, quality control, and cost control in purchasing and menu applications. Students will be involved in critiquing and creating menus from the perspective of concept, clarity, cost, price, and efficiency.

CULA210N Intermediate Food Preparation 3 Credits

In this course students will advance their studies from the basic food preparation course. Topics include a full range of food preparation techniques including advanced soups, sauces, salads, fish and other seafood, poultry, meats, vegetables, starches and grains. A la Carte and buffet setups will be utilized as presentation methods. Prerequisite: CULA103N.

CULA211N American Regional Cuisine 3 Credits

This course will present culinary principles and techniques of Escoffier. Students will learn cooking techniques, timing, and presentation and learn history and terms pertaining to foods and menus with emphasis on American regional cuisines. Prerequisite: CULA210N.

CULA212N International Cuisine 4 Credits

This course provides a food tour of the world. Students will study the individual cultures and religions of chosen global regions and the cultural effects upon the predominant indigenous cuisine from them. The class will include lecture, some video, cooking demos and cooking techniques along with daily product identification to showcase how different ingredients and products shaped specific cuisines. There will be a strong emphasis on preparation and setup for volume production and buffet presentation. Recipes will be provided for each day and will be scrutinized to produce authentic food that reflects ethnic tradition and food production methods of each global region. Prerequisite: CULA210N.

CULA215N Garde Manger 3 Credits

This laboratory-based class emphasizes garde manger utilization

and preparation of appetizers, forcemeats, condiments, and hors d'oeuvres. Topics include hot and cold hors d'oeuvres, patés and terrines, sausages, canapés, garnishing, carving, and decorating. Prerequisite: CULA210N

CULA222N Classical Cuisine 3 Credits

This course will explore the history of classical cuisine and its origins. The accomplishments of our forefathers will be explored and their impact on cooking discussed. Students will absorb these concepts and hone their techniques in order to apply them to modern day cooking. Historical chefs like Escoffier and Careme will be introduced and explored. Classical cuisine will be an overview of how cooking has evolved throughout time and will conclude with modern technology, equipment development and the evolution of food products. Prerequisite: CULA210N.

CULA225N Intermediate Baking 3 Credits

This course is a continuation of CULA120N. A lecture and lab format is used to introduce students to techniques used in the production of chiffon, Bavarian creams, mousses, pastry cream and other fillings, phyllo dough products, cakes and icings. Basic cake decorating techniques are also introduced. Prerequisite: CULA120N.

CULA230N Quantity Food Production 3 Credits

The fundamentals of food preparation, and application of these principles to quantity food production in commercial and non-commercial settings. Emphasis is placed on the use of quantity food preparation equipment, and menu planning. In addition, the nutritional components of each food will be reviewed to ensure students are aware of the quality and nutritional values of various foods and methods for maintaining nutrition throughout food preparation and service. Students will also learn work simplification, and standardized production. Major cooking equipment will also be discussed. Prerequisite: CULA103N.

CULA235AN Customer Service I 2 Credits

This course focuses on the basic principles of customer service in the hospitality industry from a front of the house perspective. Theories will be explored in the context of a changing service industry. Hiring, training, motivation, directing, delegation and solving problems are emphasized. Traditional service styles, pairing of food and wine, beverage service and liability and table side cooking are taught. In the service lab students will practice a variety of service styles and participated in advanced service and supervisory duties as they relate to the operation of public restaurants and banquet facilities. Service periods may include weeknights and Saturdays. Prerequisite: CULA145N.

CULA235BN Customer Service II 3 Credit

This course focuses on the basic principles of customer service in the hospitality industry from a front of the house perspective. Theories will be explored in the context of a changing service industry. Hiring, training, motivation, directing, delegation and solving problems are emphasized. Traditional service styles, pairing of food and wine, beverage service and liability and tableside cooking are taught. In the service lab students will practice a variety of service styles and participate in advanced service and supervisory duties as they relate to the operation of public restaurants and banquet facilities. Service periods may include weeknights and Saturdays. Prerequisite: CULA235AN.

CULA236N Classical Baking and Plate Composition 3 Credits

Students in this course will expand on the baking knowledge they attained in CULA 225N (Intermediate Baking). Students will become more proficient in baking techniques through lectures, demonstrations and participation in baking labs. Emphasis is placed on the basic techniques and presentations of American and traditional desserts, terminology, equipment and techniques. Particular emphasis is given to decorative projects. Prerequisite: CULA 225N.

CULA290N Culinary Internship 3 Credits

This hands-on culinary internship is a supervised work experience at hotels, restaurants, country clubs, and catering operations. A weekly journal, written assignments, and meeting with a supervisor are required components of the internship experience. The internship requires students to complete 160 hours of the internship by the end of the semester in which the internship is offered. A cumulative grade point average of 3.0 in Culinary Arts classes as well as a 2.0 in General Education electives are required. Prerequisite: Completion of all catalog-listed courses for the first three semesters in the Culinary Arts Program and approval of the Program Coordinator.

ECE101N Foundations of Early Childhood Education 3 Credits

This course provides an introduction to and analysis of the early childhood profession in relationship to society, community, the family, the child and self. The historical context, teaching and learning theories, types of programs best practices, ethical guidelines, current issues and trends, laws and regulations are covered. The impact of the multiple and diverse influences of family, culture and society on the child and the early childhood professional will be explored. This course requires six hours of observation field work.

ECE102N Growth and Development of the Young Child 3 Credits

This course examines the growth and development of the young child from birth through age eight. The characteristics, patterns and theories of development in the areas of physical/ motor, emotional, social, language, and cognitive development are covered. The complex and diverse influences of culture, environment and individual needs are considered as the young child is studied in relationship to family, school and community. The role of the early childhood professional in relationship to the development of the young child is considered. This course requires six hours of field observation and offers the student a Service Learning option experience.

ECE103N Safe, Healthy & Nutritional Programs for Early Childhood Education 3 Credits

This course provides an in-depth study of the planning for and evaluation of safe, healthy, nutritional early childhood environments. Settings and curriculum that are developmentally, individually and culturally sensitive in the areas of health, nutrition and safety will be explored. The course reviews the relevant policies, regulations and quality guidelines that support healthy, safe environments for the young child, birth through age eight. Topics include: Planning, creating and evaluating play in learning environments and curriculum; the "whole child",

family needs, related community resources, issues, trends, and advocacy needs. This course requires a minimum of four hours of observation and six hours of participatory advocacy work in support of the young child's, health, safety, and nutritional needs.

ECE104N Curriculum for Early Childhood Care & Education 3 Credits

An exploration of current theories of teaching and learning techniques used in early childhood education for children ages three through eight years. Special emphasis is placed on the impact of the constructivist, play, and process approaches on the environment, curriculum planning, instructional techniques, behavior guidance and teacher interactions. Attention is paid to the role of the teacher in the development and assessment of activities, materials, and environments that support the developmental as well as the cultural and special learning needs of the individual child and their families. This course requires a minimum of 8 hours of field work in an approved early childhood setting. Prerequisites: ECE101N, ECE102N.

ECE105N Children with Special Needs & Their Families 3 Credits

This course will examine the child with a special need, birth through age eight, within the family context and in an inclusive early childhood setting. The characteristics of typical and atypical development and the most common exceptionalities will be covered. Emphasis will be on identification, observation, screening, assessment, family-centered early supports and services, natural and inclusive environments, individualized plans, the IEP and IFSP, community resources, current issues and trends. The role and impact of family and cultural, linguistic diversity on the child with a special need will be emphasized. This course requires six hours of field work and offers a service learning option. Prerequisites: ECE101N, ECE102N.

ECE190N Practicum I 3 Credits

This course will provide students with an experiential learning opportunity during which the student will be actively involved in all aspects of the children's learning. Emphasis will be placed on the student learner's interactions with the children, parents, and professionals that will be encountered in the experience as well as various theories in child development, curriculum, observation and environment planning. The student will apply and integrate the skills, theories, and knowledge base acquired in the pre-requisite course work. The student will participate in an approved, field based, licensed early childhood setting for 125 hours under the supervision of an experienced and degreed early childhood teacher. This course is a capstone course for the Certificate student. The course addresses all five of the NAEYC Standards for Early Childhood Professional Preparation. Prerequisites: ECE101N, ECE102N, ECE104N, ECE105N.

ECE200N Developmentally Appropriate Programs for Infants & Toddlers 3 Credits

This course is a study of current research, theories, and models of teaching and learning techniques used in the care and early childhood education of children birth to three years of age. The role, responsibilities of and relationships between families and early childhood caregivers and educators will be emphasized. Topics will include the developmental stages of infants and toddlers, the components of quality programs, supportive

environments and curriculum with sensitivity to attachment and separation, trust, communication and nurturing. Attention is paid to the role of the caregiver/teacher in the development and assessment of activities, materials, environments and routines that support the child and families individual and special needs. This course requires six hours of field work in an approved early childhood setting. Prerequisites: ECE101N, ECE102N.

ECE201N Organization & Management in Early Childhood Education 3 Credits

This course provides a survey of the organization and management of early childhood programs and child care centers. Topic covered will include planning, managing and evaluating programs and facilities for children. The topics of marketing, record keeping, budgeting, funding, licensing, accreditation and professional standards, hiring, motivating/evaluating staff and family involvement will be included. Emphasis will be placed on ethical guidelines, professional standards, the role of the early childhood program in the community and the sensitivity of cultural and family diversity. This course requires a minimum of 4 hours of fieldwork. Prerequisites: ECE101N, ECE102N, ECE103N, ECE104N.

ECE203N Emerging Literacy in Early Childhood Education 3 Credits

This course provides an in-depth study of the literacy and language development of the young child. The component of a literacy and language-rich environment that is culturally and individually sensitive will be explored. Topics covered will include literacy and language arts; developmental characteristics and needs according to the child's stage; special needs of the individual child and the ESOL developing child; pre-reading and reading skills; methods and techniques of lesson presentations; diverse language and literacy materials and activities; partnerships with families and communities to support literacy development, and trends in literacy. This course contains a service learning experience option and requires a minimum of six hours of fieldwork. Prerequisites: ECE101N, ECE102N, ECE104N.

ECE204N Behavior Guidance & Classroom Management in Early Childhood Education 3 Credits

This course provides a study of theories and strategies related to the positive, supportive, developmentally appropriate guidance of the young child in the group environment. Emphasis is placed on creating environments that are flexible and respectful, and are socially and culturally sensitive for all children and their families. Strategies for building an encouraging classroom in order to minimize disruptive behavior and support the development of the young child will be explored. Workable strategies for conflict management, quick intervention and crisis management techniques will be examined. This course requires a minimum of eight hours of field observation. Prerequisites: CE101N, ECE102N, ECE104N.

ECE215N Creativity and the Young Child 3 Credits

This course provides a study of the creative nature of the young child as it relates to the creative arts, math and science. Emphasis will be on an experiential application of developmentally appropriate, constructivist, play and process curriculum methods in early childhood curriculum for children ages three through eight years. The impact of the creative,

exploratory approach on behavior guidance and classroom management will be included. This experiential course will provide the student with the opportunity to plan, create and implement activities, as well as to develop teaching strategies, technique and skills. This course requires a minimum of eight hours of fieldwork in an approved early childhood setting. Prerequisites: ECE 101N, ECE102N, ECE104N.

**ECE230N The Early Childhood Profession
& Professional Portfolio 2 Credit**

This course reviews the teaching and ethical standards of the early childhood profession. The assembling and presentation of a professional portfolio for assessment and the processes of selecting best work samples that present evidence of competency in program outcomes will be covered. Topics include; the role of the teacher in connection to the child, family and community, professional standards and code of ethics, selection of and reflection on artifacts and evidence of learning and demonstration of the self as an early childhood professional. Corequisite: This course must be taken in conjunction with ECE190N for the Certificate student or ECE290N for the Degree student. A final presentation of the completed portfolio is required.

**ECE290N Early Childhood Education:
Capstone Course 3 Credits**

This capstone course is an opportunity to apply and integrate the skills, theories and knowledge base the student has acquired in the course work in the Early Childhood Associate Degree. The student will participate in an approved, field-based, licensed early childhood setting under the supervision of an experienced and degreed level early childhood teacher.

This practicum experience includes observation, development and implementation of developmentally appropriate learning experiences and environments, classroom management, and working with parents and a teaching team. The student will complete a minimum of 130 hours on-site and attend a weekly, 1 hour seminar. Students will culminate this experience with the development and presentation of a professional portfolio and a major project. This capstone experience addresses all five of the NAEYC Standards for Early Childhood Professional Preparation. Prerequisite: A grade of 'C' or better in ECE190N; Corequisite or Prerequisite: ECE203N.

ECON201N Microeconomics 3 Credits

This course analyzes the economic behavior of the individual components (e.g., consumers, households, businesses, industries, government) that comprise a national economy. Topics will include supply, demand, and elasticity; consumer choice; cost and productivity in the firm; various forms of competition; government involvement including antitrust laws, regulation, and deregulation; and resource markets. The use of mathematics and graphing skills will illustrate various economic principles and relationships. Prerequisites: Placement into a college-level math.

ECON202N Macroeconomics 3 Credits

This course provides an analysis of the basic characteristics of a modern market-directed economy influenced by global development. Topics discussed include supply and demand; gross domestic product; consumer price and confidence indexes; the business cycle; inflation and unemployment; fiscal, supply-

side and monetary policy; and the Federal Reserve System. The use of mathematics and graphing skills will illustrate various economic principles and relationships. Prerequisites: Placement into a college-level math..

EDU130N Foundations of Education 3 Credits

This course examines the philosophical, historical, legal and social/cultural aspects of education in the United States. Students will have an opportunity to investigate teaching as a profession, the laws governing professional practice, the requirements for educator certification, and the definition and standards of effective teaching practices (NH Task Force, NH Standards, InTASC). As part of their portfolio, students will formulate a beginning philosophy of education. Students will develop skills to "use an understanding of individual differences and diverse communities to ensure" each child achieves to the highest level possible. Each student will write a paper based on current research in an area of his/her interest and teach the rest of their class what they have learned through this work. Twenty hours of observation and participation in a school setting outside of class time are required and count as 20 percent of the course grade.

EDU132N Introduction to Exceptionalities 3 Credits

This course examines the psychological, physiological, social and educational characteristics of children who demonstrate an exceptionality and who are in need of special education services. An overview of the most common exceptionalities, standard interventions, and social and educational trends connected to these exceptionalities is included. Students will explore the historical foundations of special education, as well as current trends, federal laws that regulate special education, and the basic values and philosophies that underlie the supports provided for the student. Investigation into research-based strategies and supports will demonstrate ways to help students succeed in the classroom. The process for referring a student for services will be addressed, and then students will develop a mock IEP, gaining an understanding of the purpose of the Team, including the importance of working with families and available resources. Students must complete 10 hours of field experience outside of class time.

**EDU135N Supporting the Reading & Writing
Skills of Diverse Learners 3 Credits**

Students will learn how to identify effective reading and writing curricula designed to teach K - 8 students to become independent learners. They will then develop sample lesson plans tied to standards and curricula including the differentiation strategies that adapt instruction to meet the diverse needs of children in their classrooms. They will learn about the common tools used to assess elementary and middle school students' literacy skills. Each student will develop a personal portfolio in which to store a variety of literacy tools and resources, including those found online, and for personal and student use. Students will be expected to complete a minimum of 10 hours of observation in a setting where students are working on reading and writing competencies (K - 8 classroom, after-school programs, tutoring settings, etc.) This hybrid course is designed as an elective course for students in the Associate's in Arts Degree in the Educator Preparation program, as a required

course for individuals in the School-aged Paraeducator II Certificate Program.

EDU231N Teaching with Technology 3 Credits

Tomorrow's teachers need to develop the knowledge, skills and dispositions to a) utilize technology for personal and professional use b) integrate technology into their future classrooms and c) teach their students to become effective and creative users of technologies themselves. This course will introduce future teachers to resources and the most commonly used 21st Century learning tools that support National Educational Technology Standards for teachers and students and the NH Information Computer Technology Standards. Students will learn to use Canvas, various word processing, spreadsheets, Web 2.0 and social networking sites such as Google for Educators, social bookmarking sites, presentation tools, graphic organizers, online resources, and utility tools. They will analyze the pros and cons of various tools and apply these different applications to a digital portfolio that highlights research-centered best practices for integrating technology effectively in the classroom. The course culminates in the creation and class presentation of a digital portfolio that highlights research-centered best practices for integrating technology effectively in the classroom. Students must have access to the internet and complete 10 hours of field experience for this hybrid course. Prerequisite: EDU130N or EDU132N.

EDU240N Creating Positive Learning Environments 3 Credits

As school personnel focus on academic achievement, there is also a growing emphasis on the school/classroom environment as a critical factor in assuring that all students have an opportunity to learn and grow to higher levels. Children need to feel safe; to be encouraged to take risks in their learning; to believe that others will treat them and that they are expected to treat others with respect; and that the world is an exciting place to explore and use twenty-first century knowledge, skills and dispositions to achieve their dreams and to become college and career ready. Students in this class will learn how to establish routines, rituals and classroom practices that will ensure that each child has the opportunity to learn and grow as individuals and within a diverse group. The interrelationships between student to student; adult to student; and adult to adult will be explored. Topics will include creating safe and constructive learning environments, social and emotional learning of students at a variety of ages, Professional Learning Communities/Network, diversity, as well as bullying, harassment, and sexual abuse and neglect in children. Students must complete 20 hours of classroom observations/field experiences, which count as 20 percent of their course grade. Students are expected to take the Praxis Core of Academic Skills tests (or equivalent) prior to graduation. This may be offered as day or evening class; 100% online or a hybrid course. Prerequisite: EDU130N or EDU132N.

EDU295N Curriculum, Instruction & Assessment in the Elementary Classroom 3 Credits

In this course, students as future elementary teachers will develop effective teaching skills necessary for constantly reviewing their professional practice, building their own knowledge and skills to assure that students are able to grow and achieve to the highest levels possible. Topics include: national and state laws, rules and regulations that govern professional practice; educational

philosophies and implementation of effective elementary curricula related to them; instruction and assessment models at the elementary level; honoring and instructing for diversity in the classroom; and focusing on one's personal traits as an effective teacher. Students must create unit of instruction with at least 5 lesson plans for grades K – 6/8 which they will share with their class. Students will be expected to add to their portfolio demonstrating competencies as an effective elementary teacher; selection of and reflection on artifacts and evidence of learning; demonstrations of the self in regard to readiness to continue one's education.

Each student must complete and develop a well-written report about 20 hours of field experience in an elementary classroom which will count as 20 percent of the course grade. Students are expected to take the Praxis Core of Academic Skills for Educators tests (or equivalent) prior to graduation. Prerequisites: EDU130N with a grade of 'C' or better. Pre/corequisite: EDU132N.

EDU296N Curriculum, Instruction & Assessment in the Secondary Classroom 3 Credits

This course will review the history of secondary schools and look at reform efforts to improve education for adolescents today, including the changes that stem from increasing diversity, maintaining safety, and trying to prepare students for college/ career readiness and an uncertain future that will span well into the twenty-first century. Students will learn to apply content from NH Curriculum Frameworks and the Common Core Standards to their curricula; develop course syllabi; differentiate instructional lessons; select effective strategies, including the use of instructional technology, to enhance student learning; and analyze assessment for appropriate purposes and for reporting results. Current trends in secondary education, laws (ESSA, NH laws, etc.) and working with PLC's and the community-at-large will be discussed both as they affect students' understanding of the teaching profession (ethics, work environment, etc.) and for the impact on curriculum, instruction and assessment and student learning outcomes. Each student must complete and develop a well-written report about 20 hours of field experience in a secondary classroom, which will count as 20 percent of their course grade, and create unit of instruction with at least 5 lesson plans for gr. 5 - 12 which they will share with their class. Students are expected to take the Praxis Core of Academic Skills for Educators tests (or equivalent) prior to graduation. Prerequisites: EDU130N with a grade of 'C' or better. Pre/corequisite: EDU132N.

ELET115N Introduction to Programming Using C++ 3 Credits

This course introduces the fundamentals of programming and logical problem solving using object-oriented methods and C++ language. The primary objective will be to develop problem solving skills applicable in the area of computers. Students will learn I/O operations, algebraic manipulations, simple control structures and string manipulations. Use of professional programming design approaches and coding style will be used in laboratory assignments. After introduction of fundamentals of programming, an object-oriented approach will be presented and developed. Prerequisite: Placement into college-level math.

ELET121N Digital Circuits I 3 Credits

This course is a presentation of fundamental concepts in digital theory needed for more advanced study of digital circuits. The

subject areas are number systems, digital codes, Boolean algebra, Karnaugh mapping techniques, basic logic gates, and flip-flops. Prerequisite or Corequisite: MATH110N.

ELET131N Circuit Analysis I 4 Credits

This includes theory and laboratory work on DC current, voltage, resistance, Ohm's law, energy, power, series-parallel circuits, network theorems and networks. Introduction to AC current, voltage and power. Prerequisite or Corequisite: MATH110N.

ELET132N Circuit Analysis II 4 Credits

Theory and laboratory work on AC current, voltage, impedance, power, series-parallel circuits, network theorems and networks. Theory and laboratory work on magnetism and magnetic circuits, resonant circuits, transformers, and filters. Prerequisite: ELET131N and MATH110N; Corequisite: MATH120N (or permission of the Program Coordinator).

ELET141N Electronics I 4 Credits

This is a study of the physical behavior of electronic devices. Emphasis is on analysis and application of electronic circuits utilizing semiconductor diodes, bipolar transistors, and field effect transistors. Topics covered include rectification, clipping and clamping circuits, regulated power supplies, basic circuits, biasing of transistors, and simplified AC modeling of transistor circuits. Simulation tools are used to reinforce the theory. Laboratory experimentation reinforces classroom theory with practical work. Prerequisites: ELET131N and MATH110N; Corequisite: MATH 120N (or permission of the Program Coordinator).

ELET221N Advanced Digital Circuits 4 Credits

Advanced topics in digital electronics are covered in the course. These topics include the internal structure of logic families, complex digital circuits, Flip-Flop operations, applications, counter designs using state machine, state diagrams, K-Maps, shift registers and memory devices. A/D and D/A conversion, timing diagrams, computer bus systems, and complex circuit debugging are also included. The topic of digital interfacing is also covered. This includes interfacing various logic families to each other as well as interfacing logic to various I/O loads, such as inductive loads and 120V AC loads. Theory and laboratory work on advanced concepts in digital circuit design will be covered. Prerequisites: MATH120N, ELET121N.

ELET241N Electronics II 4 Credits

This course is a continuation of Electronics I covering more advanced electronics topics with a variety of applications. Emphasis is on analysis and application of operational amplifiers. The non-ideal characteristics of op-amps and other electronic devices will be discussed with applications emphasizing offset, gain and linearity. Other topics may include but are not limited to; differential amplifiers, frequency response, A/D and D/A circuits, active filters, troubleshooting of lab test circuits and analysis using computer electronic analysis simulation. Prerequisites: ELET141N, ELET132N, MATH120N or permission of the EET Program Coordinator.

ELET245N Communication Theory 3 Credits

Study of principles of radio frequency communication, modulation systems, pulse, digital modulation circuits, transmission line and propagation. This course is offered in the evening only. Prerequisite: A grade of 'C-' or better in ELET241N and

MATH210N.

ELET250N Microcontrollers 4 Credits

Today's computers fall into two categories. The first uses high performance microprocessors such as the Intel Pentium Class of Processors. The second category focuses on issues of space, cost, low power and fast development in products such as wireless phones, automobiles, security systems, and appliances. These lower performance processors are called Microcontrollers and are merely a lower power version of the larger microprocessors. The principles of operation are the same. This course focuses on this second category and the Hardware and Software design of these Microcontrollers. Prerequisites: ELET115N, ELET141N.

ELET274N EET Capstone Project 2 Credits

An independent lab project using the student's knowledge of digital/analog electronic circuits and microprocessors. Students will design and build a working model of their selected project. The project will be built, troubleshot and demonstrated by the end of the semester. This course is offered in the evening only. Prerequisites: ELET132N, ELET250N.

ELMT203N Applied Mechanics I 3 Credits

Introduction to material science, stress and strain in materials, and failure modes in materials. The study of mechanical components such as springs and fasteners is begun. Corequisite: PHYS130N or PHYS101N.

ELMT204N Fluid Power Design 2 Credits

The dynamics of liquids and gases encountered in traditional manufacturing, industrial automation, and vehicular applications. Prerequisite: ELMT203N.

ELMT210N Applied Mechanics II 2 Credits

Continuation of the study of mechanical components with shafts, clutches, belt and chain drives, etc. Emphasis is on proper selection and operating conditions for reliable operation. Prerequisite: ELMT203N.

ENGL101N College Composition 4 Credits

In this course, students learn to write clearly and effectively for defined audiences through a variety of strategies. Emphasis is on the writing process from pre-writing through drafting, revising and editing. Students gain confidence through learning the basic principles of effective expository composition and the application of these principles in writing essays and documented papers. Students become aware of the variety of strategies, behaviors, habits and attitudes and choose those that help them improve. Students will also read and examine a wide variety of writers and writing styles. This class is a core requirement for all degree programs at NCC. Students who do not satisfactorily place into ENGL101N with the required Accuplacer or SAT scores will be required to enroll in the corresponding Co-Requisite Workshop.

ENGL102N College Composition II: Writing About Literature 3 Credits

Building upon skills learned in College Composition (ENGL101N), this writing and literacy course further explores the dimensions of writing based on selected readings that explore relevant themes and issues in today's world. Emphasis is placed on expository

and persuasive writing within a research context. (Formerly College Composition II.) Prerequisite: ENGL101N, ENGL110N.

This course fulfills a General Education Core Requirement: English/Communications.

ENGL103N Professional Writing & Presentations 3 Credits

The course is designed to prepare the student to use the principles of and to practice effective communications in business and industry. The course emphasizes formatting, design, style, and organization. Students receive practice and advice in written communications such as letters, memos, and reports, and in oral communications such as oral presentations, group conferences, and interviewing, according to professional standards. Visual presentation software such as PowerPoint will also be taught.

For students taking the online version of ENGL103N, you must have a webcam and microphone, phone camera with internet connection, or video camera for the required oral presentation portion of the course. Prerequisite: ENGL101N or ENGL110N. BCPT101N is strongly recommended. **This course fulfills a General Education Core Requirement: English/Communications.**

ENGL105N Introduction to Literature 3 Credits

This course studies societal issues and events in the twentieth and twenty-first centuries, which are portrayed through a selection of modern literature. Works vary accordingly at the discretion of the instructor and may include fiction and nonfiction pieces. Prerequisite: ENGL101N or ENGL110N. **This course fulfills a General Education Core Requirement: English / Communications.**

ENGL109N Public Speaking 3 Credits

Public Speaking is designed to prepare students to assume active participation in those phases of industrial and social life requiring effective oral communication. Through practical exercises, students will learn the skills associated with professional speaking. Emphasis will be placed on planning and organization, as well as the importance of the audience. Since writing is often the basis for many public speaking activities, some written assignments are also required. In addition, students will use visual software, such as PowerPoint, in some presentations. Students taking an online version of ENGL109N must have a webcam and microphone, phone camera with internet connection, or video camera for the required presentations in this course (Formerly Oral Communication). Prerequisite: ENGL101N or ENGL110N. This course fulfills a General Education Core Requirement: English/Communications.

ENGL110N Honors Expository Writing 4 Credits

This course is intended for the student who has already demonstrated a high degree of proficiency in the use of language and who is motivated to pursue an advanced level of writing. Each student will be encouraged to develop his or her own distinctive voice and style, to make sharp and effective word choices, to become his or her own best critic, and to ultimately experience the satisfaction that comes from producing relevant, effective, and polished pieces of writing. The course will be organized around a specific socio-cultural issue or theme and will incorporate readings about that theme from a variety of

disciplines. The objective of the course is to enhance the depth and quality of students' written expression through sustained engagement in the semester theme. The student will practice writing about that theme for various purposes and audiences with systematic feedback from peers and the instructor. The course employs a workshop approach that incorporates critical reading, discussion, and a series of intense writing activities including analysis of rhetorical strategies used by other writers, and reading and responding to the work of others. Working in small groups, students will develop original ideas about the semester theme through active discussion and critique. Prerequisites: Permission of the Honors Program Coordinator or Admission into the Honors Program. This course satisfies the ENGL101N, College Composition, requirement toward the associate degree.

ENGL122N Technical Writing 3 Credits

Applying principles used in business and industry, students will analyze technical documents and write a variety of technical assignments including memos, instructions, feasibility reports, and proposals. Prerequisite: ENGL101N or ENGL110N. **This course fulfills a General Education Core Requirement: English /Communications.**

ENGL206N Writing Short Stories 3 Credits

This course puts emphasis on discussion of student short stories by peers. It depends on growth through exposure to other types of writing as well as through in-depth discussion of the strengths, weaknesses and potential of each piece. Prerequisite: ENGL101N or ENGL110N.

ENGL215N Literature by American Women 3 Credits

Using novels and the short story fiction genre, students will learn about the evolution of American female writers from the 19th through the 21st centuries by studying their literature and examining it against the backdrop of the historical periods in which they wrote. Students may explore such themes as women and marriage, women and madness, women and sexuality, gender, race, and ethnicity, motherhood, women and body, women and aging, or other themes pertinent to the female experience. Students will enrich their understanding of literature and the roles and experiences of women in shaping such literature. The course will explore the works of American female writers such as Kate Chopin, Katherine Anne Porter, Maya Angelou, Sandra Cisneros, Joyce Carol Oates, Elizabeth Bishop, Willa Cather, Sylvia Plath, Alice Walker, Carson McCullers, Tillie Olsen, and/or others at the professor's discretion each semester. This is a reading and writing intensive course as it examines women's roles from multiple perspectives. Prerequisite: ENGL101N or ENGL110N; recommended: ENGL102N.

ENGL220N Honors Contemporary Dramatic Literature 3 Credits

This course presents drama as a literary form, focusing on American plays from the twentieth and twenty-first centuries, covering the modern and contemporary eras. The plays will be read as literary texts and not as the basis for live performance. Drama elements, including style, theme, dialogue, and character, will be the basis for discussion and analysis of the plays through historical, political, social and cultural implications. Playwrights are at the discretion of the instructor. Prerequisite: ENGL101N or

ENGL110N.

ENGL230N British Literature Middle Ages to 1800 3 Credits

This course will survey selections of various genres and forms of British literature from the Middle Ages to 1800. Each of the readings will be examined within the context of the character and history of British literature. Works and major British writers such as Beowulf, Chaucer, Sir Thomas More, William Shakespeare, Donne, Jonson, Milton, Dryden, Swift, Pope and others may be selected for study. Prerequisite: ENGL101N or ENGL110N. **This course fulfills a General Education Core Requirement: English/Communications.**

ENGL231N British Literature 1800 to Present 3 Credits

This course will survey selections of various genres and forms of British literature from 1800 to the present. Each of the readings will be examined within the context of the character and history of British literature. Works of major British writers such as Blake, Burns, Byron, the Brownings, Dickens, the Brontes, Eliot, Wilde, Shaw, Hardy, Conrad, Forster, Woolf, Joyce, Orwell, Thomas, Hughes, Heaney and others may be selected for study. Prerequisite: ENGL101N or ENGL110N. **This course fulfills a General Education Core Requirement: English/Communications.**

ENGL235N Poetry Workshop 3 Credits

Building on writing principles and critiquing abilities learned in College Composition, students will begin to investigate the differences between prose and poetry. Through exercises and revision, and especially by reading and discussing some contemporary poems, students will learn to recognize and employ some of the basic tools of free verse. Working together on their own and one another's poems with the emphasis on sharing work and offering constructive criticism, students will learn what does, and what does not, work in their own poems. Prerequisite: ENGL101N or ENGL110N.

ENGL240N American Literature Early Colonialism to Civil War 3 Credits

This course samples American literature from the colonial period to the late nineteenth century. Each of the readings will be examined within the context of the character and history of US literature. The course covers the evolution of literature as a contributing factor to the development of a nation. Works of major American writers such as William Bradford, Anne Bradstreet, Cotton Mather, Benjamin Franklin, Thomas Paine, Thomas Jefferson, Phillis Wheatley, James Fenimore Cooper, Edgar Allan Poe, Herman Melville, Henry David Thoreau, or Louisa May Alcott may be selected for study. Prerequisite: ENGL101N or ENGL110N. **This course fulfills a General Education Core Requirement: English/Communications.**

ENGL241N American Literature Civil War to Present 3 Credits

This course samples American literature from the late nineteenth century to contemporary time. Each of the readings will be examined within the context of the character and history of US literature. The course covers the evolution of literature as a contributing factor to the development of a nation. Works of

major American writers such as Walt Whitman, Emily Dickinson, Sarah Orne Jewett, Mark Twain, Edith Wharton, Robert Frost, Willa Cather, Eugene O'Neill, F. Scott Fitzgerald, Langston Hughes, Allen Ginsburg, Sylvia Plath, Amy Tan, Toni Morrison and others may be selected for study. Prerequisite: ENGL101N or ENGL110N. **This course fulfills a General Education Core Requirement: English/Communications.**

ENGL250N Honors Advanced Creative Writing 3 Credits

This course is designed to provide students who are serious about their writing an opportunity to focus on a particular genre (fiction, poetry, or creative non-fiction) beyond what is covered in ENGL206N or ENGL235N. Students come to this course with a firm grasp of all the elements of writing fiction, poetry, and/or non-fiction. Using a workshop format, the course also provides the student with an opportunity to compile a portfolio of significantly revised completed works. In addition to extensive reading within the chosen genre, workshops require participation in class discussions, student presentations and analyses of other students' work. Prerequisites: A grade of 'B' or higher in ENGL110N or ENGL101N.

ENGL255N Honors Humor in Literature & Other Media 3 Credits

Students will examine and enjoy a variety of forms of humor and comedy from early Greece to Elizabethan England to present day England and America while developing and strengthening their writing skills in critical analysis and evaluation. The readings and visual presentations will cover a broad spectrum of humor, including romantic comedy, comedy of manners, absurdist comedy, situation comedy, wit, satire, parody, irony, stereotyping, and farce. Through discussions and writing, students will examine the various techniques through which humor criticizes human nature, analyzes society, and expresses differing political and world views. Students will learn to write effective literary analyses and evaluative reviews. The authors and performers of humor and comedy under study may include Aristophanes, Shakespeare, Moliere, Wilde, Twain, Will Rogers, Winston Churchill, Thurber, Flannery O'Conner, Neil Simon, Edward Albee, Dick Gregory, Jon Stewart, and Tina Fey. Prerequisites: A grade of 'B-' or higher in ENGL110N or ENGL101N and permission of the Honors Program Coordinator. **This course is equivalent to ENGL102N and fulfills a General Education Core Requirement: English / Communications.**

ENGL285N Topics in English Studies Seminar 3 Credits

This course provides students with an opportunity to learn about an area not covered by existing courses in the English curriculum and in particular prepares students for an advanced study of English at the bachelor degree level. The course is a program requirement for English students enrolled in the Liberal Arts program with a focus on writing or literature. As a summative assessment, students will apply knowledge and skills learned through previous coursework by producing a project that integrates writing through strategies of research, interpretation, and/or audio-visual skills. Students select a topic of interest through the guidance of their instructor; topics include literature, professional or creative writing, or English education.

Prerequisites: For English majors: Completion of 45 credits of coursework applicable to Liberal Arts-English degree. Minimum grade of 'B-' in ENGL101N, ENGL110N, ENGL102N for English.

ENVS101N Environmental Science 4 Credits

The course introduces students to the study of major environmental problems and issues facing society today. Topics include ecosystem structure and function; population trends and dynamics; pollution of air, land, and water; and the management of resources. This course contains a service learning option. **This course fulfills a General Education Core Requirement: Science.**

ENVS105N Earth Science 4 Credits

Explores the basics of Earth Science including introductions to geology, meteorology and astronomy. The geology section includes the many Earth processes that change the face of the planet such as plate tectonics and erosion. Students will study meteorology and astronomy as it pertains to Earth Science. **This course fulfills a General Education Core Requirement: Science.**

ENVS135N Honors Environmental Science: Impact of Key Elements 4 credits

The course introduces students to the study of environmental pollution in light of examining the role of the key elements by which ecosystems and human health are primarily affected. The periodic table is travelled through in order to combine the chemistry of those elements with relevant environmental processes. Describing global and regional pollution impact, the course is to show the importance of environmental protection and will include topics such as global warming, acid rain, photochemical smog, acid mine drainage, toxic elements, and radioactivity. This course fulfills a General Education Lab Science requirement. Prerequisite: Minimum grade of 'B' in high school chemistry or with an interview with the course instructor (or a score of 3 or more in AP Chemistry) or minimum grade of 'C' in CHEM 110N or CHEM 130N.

ESOL074N Grammar for Writing IV 4 Credits

This course is for non-native speakers of English. This intermediate course is designed to give students instruction in grammar to improve written English. The course will focus on a variety of grammar structures, especially related to grammar problems that are most common in writing. This course will cover areas of difficulty in grammar such as parts of speech, verbs, nouns, and articles; subject-verb agreement, modals; prepositions, adjectives, sentence patterns, sentence types, and common grammar errors. Credits do not count toward degree requirements. Prerequisites: Permission of the Department Chair/Program Coordinator.

ESOL075N Grammar for Writing V 4 Credits

This course is for non-native speakers of English. This is an intermediate/advanced course designed to give students instruction in grammar to improve written English. The course will focus on helping students to notice the gap between their current language skills and correct English. A variety of grammar structures, especially related to grammar problems that are most common in writing, will be discussed. This course will cover areas of difficulty in grammar such as: nouns, articles, pronouns and possessive adjectives, verb tense review, problems with verbs,

subject-verb agreement, prepositions, word forms, adjectives, modals, gerunds, and infinitives. Credits do not count toward degree requirements. Prerequisites: ESOL074N or permission of the Department Chair/Program Coordinator.

ESOL076N Grammar for Writing VI 4 Credits

This course is for non-native speakers of English. This is an advanced course designed to give students instruction in grammar to improve written English. The course will focus on a variety of grammar structures, especially related to grammar problems that are most common in writing. This course will cover areas of difficulty in grammar such as verb tenses, passive voice, conditionals, word order and word combinations, adjective, adverb, and noun clauses, fragments, run-ons, and comma splices, parallel structure, and confusing words and structures. Credits do not count toward degree requirements. Prerequisites: ESOL075N or permission of the Department Chair/Program Coordinator.

ESOL083N ESL Speaking, Listening & Pronunciation 4 Credits

This course is for non-native speakers of English. The main focuses are developing oral and aural communication skills. Goals for students include improving communication skills for school, work, and daily life. Class activities will include oral journals, oral presentations, listening activities, and field studies. Credits do not count toward degree requirements.

ESOL085N Listening, Speaking, & Pronunciation II 4 Credits

This course is for non-native speakers of English. The main focus is continued development of oral and aural communication skills. Goals for students include improving communication skills for school, work, and daily life. Class activities will include oral journals, oral presentations, listening activities, and technology integration. Credit do not count toward degree requirements. Prerequisite: ESOL083N.

ESOL086N Academic Writing for English Language Learners II 4 Credits

This course provides intensive preparation for the ESL student who will be attending college classes for the first time or the student who is already in college. Students will learn to adapt to the United States social and educational system. Emphasis is placed upon independent and critical thinking skills and problem solving. Grammar and mechanics are addressed in context. Activities will include journal writing, authentic readings and college lectures, and peer conferencing. Credits do not count toward degree requirements.

ESOL088N Academic Writing for English Language Learners III 4 Credits

This is an intermediate course designed to give students ample practice in writing paragraphs and developing essays. The course will be focused on a variety of writing tasks building on prior knowledge of paragraph structures. Writing will include continued development of paragraphs and an introduction to essays. Students will benefit from reading, vocabulary and grammar exercises that support improved writing and language skills. Credits do not count toward degree requirements.

ESOL096N Academic Writing for English Language Learners IV 4 Credits

This course is for students who speak English as a second language. This preparatory course emphasizes grammar and usage, vocabulary, sentence structure, and essay development. Reading selections will strengthen comprehension skills. The course includes a special emphasis on problematic written and oral skills for non-native speakers of English. Credits do not count toward degree requirements.

ESOL098N Academic Writing for English Language Learners V 4 Credits

This course is for non-native speakers of English. This is an advanced course designed to give students ample practice in writing academic essays. The course will be focused on a variety of writing tasks building on prior knowledge of essays. Students will benefit from reading, vocabulary and grammar exercises that support improved writing and language skills, as well as information synthesis. Credits do not count toward degree requirements.

FREN101N French I 3 Credits

An introductory course for first year language study that takes a communicative, functional approach to teaching and learning French at the college level. The course includes grammar and conversation. At the end of the course, the student will be able to speak and write basic French. **This course fulfills a General Education Core Requirement: Global Awareness.**

FREN102N French II 3 Credits

French II initially reviews, then builds on the simple sentence structures and vocabulary learned in French I. The goal of this course is to teach students to understand and converse in day-to-day French and know basic aspects of French culture(s). Students are also taught reading skills for comprehending authentic materials and basic literature, and they are taught to write letters and short essays. Course activities accommodate all learning styles and are both innovative and relevant to student experiences. Video materials bring French to life for students by illustrating in context the grammar and vocabulary students are learning. Prerequisite: FREN101N.

FYE101N First Year Experience 1 Credit

First Year Experience is a one-credit course that enables students to develop the attitudes and skills necessary to reach their academic goals and succeed in the college environment. Emphasis will be placed on exploring what it takes to become a successful community college student by developing the requisite skills to enhance performance while building strong connections to Nashua Community College. (Formerly known as Freshman Seminar and College Success Strategies).

GEOG110N World Regional Geography 3 Credits

This survey course provides students with an understanding of contemporary issues through a spatial, specifically regional, context. World Cultures including political, economic, historical, and societal issues are emphasized and connected to their physical environment. Geographical models and principles are also examined. **This course fulfills a General Education Core Requirement: Global Awareness.**

GEOG130N Human Geography 3 Credits

This course examines important global themes and controversial issues in the context of human/environmental interactions. Using geographical tools and skills, the course explores the world around us in relation to people, cultures, places, and space. It seeks to facilitate critical thinking on complex problems such as uneven development, inequality, regional differences, and environmental degradation, so students can understand the causes of these problems and suggest possible remedies. **This course fulfills a General Education Core Requirement: Global Awareness.**

GERM101N German I 3 Credits

German I is the first of two semesters of elementary German, which will acquaint the student with the basic vocabulary and structures of the German language. At the end of the course the student will be able to understand, speak, read, and write basic German sentences, using all sentence forms, including questions as well as commands. In addition to grammatical structure and use, the course will introduce the student to some of the culture, history, and geography of German-speaking countries. **This course fulfills a General Education Core Requirement: Global Awareness.**

GERM102N German II 3 Credits

German II is the second of two semesters of elementary German. The course will continue to emphasize listening, reading, speaking, and writing skills within culturally significant contexts. Students will study the dative and genitive cases, dative and genitive prepositions, nouns with "der-" and "ein-" words, imperatives, modals, subordinate clauses, the future and past tenses, and adjective endings. Students study vocabulary related to mass media, movies, and cultural performances. They are introduced to German foods, restaurants, and eating habits. Prerequisite: GERM101N.

HATN113N Honda Electricity and Wiring 4 Credits

This course is designed to introduce students to how electricity works and is utilized in today's automobiles. Topics for this course will include theory, Ohm's law, watt's law, voltage, current and resistance, tool identification/usage, and proper multimeter usage. There will also be discussion about how to properly diagnose electrical issues and how to read wiring schematics provided by Honda. This course is designed to meet requirements for NATEF certification as well as Electrical Fundamentals section of the Honda Curriculum.

HATN114N Honda Steering & Suspension 4 Credits

Honda automotive suspension, steering systems and wheel alignment procedures will be studied. This course will include the development of knowledge towards understanding the forces that affect vehicle control, suspension system design, wheel alignment angles and vehicle stability systems. Students will be trained in four wheel alignment procedures, suspension system repairs and steering system diagnosis and repair. Prerequisites: HATN121N.

HATN121N Honda Service & Maintenance 4 Credits

This course is designed to introduce students to basic Honda automotive dealership repair. The course is centered around the topics outlined in both the NATEF Maintenance and Light Repair topics (MLR) and the proper procedure for executing the Honda Express Tech Service/Acura Accelerated Service. the students will

receive instruction in proper shop safety, proper tool identification and application, vehicle lifting, basic undercar diagnosis, and methods of research for proper vehicle repairs. The skills learned in this course will be directly applied once a student has secured a required internship at a certified Honda/Acura dealership. A grade of 'C' or better is required for progression.

HATN122N Honda Brakes & Stability Systems 4 Credits

The study of manual, power, disc, and drum braking systems with an emphasis on the diagnosis and repair procedures of master cylinders, wheel cylinders, calipers, brake pad and shoe assemblies and the machining of drums and disc brake rotors. The study of brake subsystems such as parking brakes and anti-lock brakes will be included. Honda specific task objectives shall be covered in detail through the use of Honda training modules as required by the PACT core curriculum. Prerequisites: HATN113N, HATN121N.

HATN190N Honda Dealer Internship I: Capstone Course 2 Credits

The Honda Internship course is designed to be a supplement to the Honda PACT program learning experience. Students will be required to complete a total of 192 hours of in dealership work experience per semester per 2 credit internship course. The internship experience is a paid internship that must take place at a Honda or Acura dealership. Students will be responsible for completing a journal that will document their hours worked, assigned workload, and overall dealership experience. This course will be designated as a Pass/Fail course. Periodic internship visits will be performed by the assigned instructor to monitor student progress. Note: Students will be required to complete any two of HATN190N, HATN 191N, HATN192N (total 4 credits) and HATN195N (3 credits) for a total of 7 credits and 640 internship hours. Prerequisites: HATN131N, HATN113N.

HATN191N Honda Dealer Internship III: Capstone Course 2 Credits

The Honda Internship course is designed to be a supplement to the Honda PACT program learning experience. Students will be required to complete a total of 192 hours of in dealership work experience per semester per 2 credit internship course. The internship experience is a paid internship that must take place at a Honda or Acura dealership. Students will be responsible for completing a journal that will document their hours worked, assigned workload, and overall dealership experience. This course will be designated as a Pass/Fail course. Periodic internship visits will be performed by the assigned instructor to monitor student progress. Note: Students will be required to complete any two of HATN190N, HATN 191N, HATN192N (total 4 credits) and HATN195N (3 credits) for a total of 7 credits and 640 internship hours. Prerequisites: HATN131N, HATN113N.

HATN192N Honda Dealer Internship IV: Capstone Course 2 Credits

The Honda Internship course is designed to be a supplement to the Honda PACT program learning experience. Students will be required to complete a total of 192 hours of in dealership work experience per semester per 2 credit internship course. The internship experience is a paid internship that must take place at a Honda or Acura dealership. Students will be responsible for completing a journal that will document their hours worked, assigned workload, and overall dealership experience. This course will be designated as a Pass/Fail course. Periodic internship visits will be performed by the assigned

instructor to monitor student progress. Note: Students will be required to complete any two of HATN190N, HATN 191N, HATN192N (total 4 credits) and HATN195N (3 credits) for a total of 7 credits and 640 internship hours. Prerequisites: HATN131N, HATN113N.

HATN195N Honda Dealership Internship II: Capstone Course 3 Credits

The Honda Internship course is designed to be a supplement to the Honda PACT program learning experience. Students will be required to complete a total of 288 hours of in dealership work experience per semester per 3 credit internship course. The internship experience is a paid internship that must take place at a Honda or Acura dealership. Students will be responsible for completing a journal that will document their hours worked, assigned workload, and overall dealership experience. This course will be designated as a Pass/Fail course. Periodic internship visits will be performed by the assigned instructor to monitor student progress. Note: Students will be required to complete any two of HATN190N, HATN191N, HATN192N (total 4 credits) and HATN195N (3 credits) for a total of 7 credits and 640 internship hours. Prerequisites: HATN121N, HATN113N.

HATN205N Honda Advanced Electrical & Electronic Systems 4 Credits

This course is designed to give students a better understanding of the theory, operation, diagnosis and repair practices that are utilized in Honda advanced electrical systems. The topics include, charging systems, starting systems, computer controlled systems, electric motor circuits, computer communication systems, restraint systems and hybrid systems. In addition, students will be required to complete all Advanced Electrical self-study modules, all Restraint self-study modules as well as Honda designated skill module for successful completion of this course. Prerequisite: HATN113N.

HATN210N Honda Engine Performance I 4 Credits

The basic principles of engine computer management systems that control engine performance, emissions and economy will be covered. The ignition, fuel, valve timing, throttle and modulated displacement systems will be covered. Included in the study will be sensor operations, diagnosis and testing required to service and repair engine malfunctions related to the ignition, fuel and emission controls. Prerequisites: HATN113N, HATN121N, HATN205N.

HATN221N Honda Heating & Air Conditioning Systems 4 Credits

The theory and operations of Honda climate control systems including safety, diagnosis, service and repair will be covered. Major areas of study will include: manual and automatic controls for heating and air conditioning systems, diagnosis and repair of failed components and recovery/evacuation and charging of refrigerant systems. There will be an emphasis on safety and refrigerant recovery procedures as well as the proper use of test equipment. Prerequisites: HATN121N, HATN113N; Corequisite: PHYS101N

HATN226N Honda Transmissions & Drivelines 4 Credits

This course is designed to introduce students to the basic principles employed in the construction, operation and diagnosis of the various components and systems involved

in the transmissions (manual, automatic and CVT) of current automotive vehicles. Topics for this course include cover clutches, transmissions/transaxles, both front and rear wheel drive train components including drive shafts, axles and differentials. Four-wheel drive and all-wheel drive systems are discussed as well. This course is designed to meet the requirements of NATEF certification in the topic of manual drive train and axles as well as automatic transmissions. All required Honda modules (both self-study and skill) will be included as course work for this course. Prerequisites: HATN114N, HATN121N.

HATN228N Honda Engine Repair 4 Credits

This course is designed to give students a better understanding of current practices involved in the diagnosis, disassembly, cleaning, repair and reassembly of today's modern engines. Topics for this course will include engine diagnostic procedures, engine removal practices, proper teardown, cleaning and inspection processes, best practices for component repair/replacement, reassembly and engine reinstallation. There will also be discussion about engine design and some specifics regarding certain engine features that are manufacturer specific. This course is designed to meet all of the requirements for NATEF certification and Honda modules in the Engine Repair section. Prerequisites: HATN205N, HATN210N; corequisite: PHYS101N.

HIST101N Western Civilization From Ancient Times to 1700 3 Credits

This course will trace the development of western culture from ancient times through the early modern era. A wide variety of topics will be explored including the origins of early civilizations, the contributions of Greece and Rome, the emergence of medieval Europe, the Renaissance, the Reformation, exploration and colonization, and the rise of modern nation states. Special emphasis will be placed on identifying the ideas, people, and events that have helped to shape the modern world. In addition, this course will introduce students to a variety of essential skills such as discerning frame of reference in primary and secondary sources, hypothesis formation using the historical method of inquiry, writing persuasive essays, and documenting sources. **This course fulfills a General Education Core Requirement: History/Political Science.**

HIST102N Western Civilization From 1600 to the Present 3 Credits

This course provides an overview of European history from early modern times to the present. A wide variety of topics will be explored including the Scientific Revolution, the Enlightenment, the French Revolution and Napoleon, industrialization, the impact of ideas such as nationalism and socialism, imperialism, the Russian Revolution, the World Wars, the Cold War, and recent trends. Special emphasis will be placed on identifying the ideas, people, and events that have helped to shape the modern world. In addition, this course will introduce students to a variety of essential skills such as discerning frame of reference in primary and secondary sources, hypothesis formation using the historical method of inquiry, writing persuasive essays, and documenting sources. **This course fulfills a General Education Core Requirement History/Political Science**

HIST110N Ancient Civilizations of the World 3 Credits

This survey course provides an introduction to the ancient civilizations of the Near East, Egypt and Africa, China and East Asia, India and Mesoamerica. The influence of Greece and Rome

will also be considered. Discussion will focus on comparing and contrasting the characteristics of these civilizations as well as identifying their political, technological, economic, ideological, and cultural achievements. In addition, this course will introduce students to a variety of essential skills such as discerning frame of reference in primary and secondary sources, hypothesis formation using the historical method of inquiry, writing persuasive essays, and documenting sources. **This course fulfills a General Education Core Requirement: History/Political Science.**

HIST140N U.S. History from the Colonial Era to Reconstruction 3 Credits

This course will provide an overview of the political, social, economic, and cultural development of the United States from the Pre-Columbian Era through 1877. While a wide range of topics will be explored, emphasis will be placed on examining the European and colonial roots of American democracy; the Revolutionary War period; the Constitutional Convention and the evolution of the new republic; nationalism versus the growth of sectionalism; the Civil War and Reconstruction. In addition, this course will introduce students to a variety of essential skills such as discerning frame of reference in primary and secondary sources, hypothesis formation using the historical method of inquiry, writing persuasive essays, and documenting sources. **This course fulfills a General Education Core Requirement: History/Political Science.**

HIST141N U.S. History Since Reconstruction 3 Credits

This course will provide an overview of the political, social, economic, and cultural development of the United States from 1865 to the present. A wide range of topics will be explored including Reconstruction, Industrialization, the emergence of the United States as a world power, the Progressive Movement, the First World War, the Depression, World War II, the Cold War Era, the expansion of civil rights, and recent trends. In addition, this course will introduce students to a variety of essential skills such as discerning frame of reference in primary and secondary sources, hypothesis formation using the historical method of inquiry, writing persuasive essays, and documenting sources. **This course fulfills a General Education Core Requirement History/Political Science**

HIST215N New Hampshire History 3 Credits

This course examines New Hampshire history from the pre-historic era through the present day. Through an analysis of primary and secondary sources, each student will learn about local people and events and consider the extent to which New Hampshire history reflects larger, national developments. Students enrolled in this course will be expected to apply their knowledge by completing a research project utilizing primary sources or participating in a service learning project at a local historical society, non-profit agency, or other approved site. Prerequisite: ENGL101N or ENGL110N.

HIST232N History of Modern Asia 3 Credits

This course examines the political, economic, and social development of Asia from the 19th century to the present. Special emphasis will be placed on China, Japan, Korea, and India - Asian nations that play an increasingly important role in today's global economy. Discussion topics will include Western imperialism and its legacy, strategies of modernization, the rise of nationalism, communism in Asia, World War II, the Cold War,

the emergence of Asian countries into the global economy, the modernization and exportation of Asian cultures, and 21st century trends. Prerequisite: ENGL101N or ENGL110N.

HIST241N American Constitutional History 3 Credits

A study of the evolution of American constitutional law includes the drafting and ratifying of the Constitution and the doctrine of judicial review and chronicles the development of major constitutional principles. Prerequisite: ENGL101N or ENGL110N.

HIST246N Modern America 3 Credits

This course will cover important political, technological, economic, and social developments since World War II. Discussion will focus on exploring three themes/topics: the impact of rapid technological innovation on society; the paradox of American democracy and popular demands for change; and the role of the United States government at home and in an increasingly interconnected world. By the end of the course, students should understand that knowledge of the post-World War II period provides them with a valuable historical perspective for critically assessing current events. Prerequisite: ENGL101N or ENGL110N.

HIST260N History of Multiculturalism 3 Credits

A wide variety of cultural groups will be examined, probing the historical circumstances that motivated them to come to this country. How and why they have been able or unable to maintain an ethnic identification over the generations will be explored. Students will begin to develop an appreciation of the influence of one's cultural heritage and will gain a greater understanding of the cultural value, beliefs, and behaviors of members from different cultures. Prerequisite: ENGL101N or ENGL110N.

HIST262N Honors Movies and Social History of USA 3 Credits

This course will explore the effectiveness of movies as a source for understanding social history. Topics include modernization, the struggle to escape poverty, prejudice, family life in the suburbs, gender roles, and the rise of youth culture. We will study the accuracy of how our movies portray various social groups, from high society to the suburban middle class to gangsters, as well as what they reveal about changing attitudes, norms and problems faced by various segments of our society, from the gilded age and the roaring twenties to the end of the 20th century. Analytic writing, independent research and joining Netflix for the term will be required. Prerequisite: Admission into the Honors Program or Permission of the Coordinator of the Honors Program; ENGL110N or ENGL101N with a grade of 'B-' or higher. **This course fulfills a General Education Core Requirement: History / Political Science.**

HIST265N Latin American History From Independence to the Present 3 Credits

This course explores the history of Latin America and the Caribbean from 1800 to the present day. Discussion topics will include the 19th century nation-building, caudillismo, 20th century revolutions, modernization, cultural developments, Latin American relations with Europe and the United States, and recent trends. While the experiences of individual countries will be considered, the course will focus on larger political, economic, and social themes that shaped the entire region. Prerequisite: ENGL101N or ENGL110N.

HIST280N Special Topics in History 3 Credits

This course provides students with an opportunity to learn about an area not covered by existing courses in the history curriculum. While the topics may vary from semester to semester depending on faculty and student interest, this course emphasizes a core set of essential skills common to all history courses at Nashua Community College. A course description will be made available prior to the start of registration. Prerequisite: ENGL101N or ENGL110N.

HIST285N Introduction to Historical Research Methods 3 Credits

This course is designed for students with an interest in history who wish to strengthen their research skills. In this course, students "become" historians as they learn about the process used to study the past. Subjects addressed include understanding the nature of history and historical thinking, historiography, locating and critically assessing primary and secondary sources, applying the method of historical inquiry, citing sources effectively, and writing history. The approach to learning is "hands-on" as students investigate a topic of their own choosing. As a summative assessment, students share their original findings in a research paper and in a presentation to other students, faculty, and staff. Prerequisite: ENGL101N or ENGL110N and one history course with a grade of 'C' or better.

HOS101N Introduction to Hospitality 3 Credits

This survey of the hospitality industry covers the history, contemporary practices, future of the industry, restaurant/food service operations, hotel management, managing in the service industry, operations management (including housekeeping), and the management of personnel.

HOS110N Front Office Operations/ Revenue Management 3 Credits

This course presents a systematic approach to front office procedures by detailing the flow of business through a hotel, from the reservations process to check-out and settlement of payment. The course also examines the various elements of effective front office management, paying particular attention to the planning and evaluation of front operations and to human resources management. Front office procedures and management are placed within the context of the overall operation of a hotel. Special emphasis is placed on guest-employee relations. In addition, attention is paid to the management of revenue. Particular emphasis is placed on setting rates, managing seasonal rates, and determining average daily rates. Prerequisite: HOS101N.

HOS201N Hospitality Sales & Marketing 3 Credits

This course will focus on practical sales and marketing techniques for the hospitality industry. The course will cover a marketing plan and advertising campaign for a hotel, including indentifying target markets, prospecting for sales leads, and using sales techniques. Prerequisites: HOS101N, BUS104N.

HOS210N Principles of Food & Beverage Management 3 Credits

This course is designed to provide students with a basic understanding of food and beverage management. Topics include the origins of the food service industry, a focus on menu management, production and service, and design finances and automation. Students will prepare for "safe-service" certification as part of the course. Prerequisite: HOS101N.

HOS211N Bar & Beverage Management 3 Credits
This course builds upon skills acquired in Principles of Food and Beverage Management. In addition to experience in food and beverage service, the course emphasizes beverage management and operational controls. Topics include service, procurement, storage, control of wines, fermented beverages, and distilled beverages. Upon completion of the course, students should be able to demonstrate knowledge of the beverages consumed in a hospitality operation. TIPS (Training for Intervention Procedures) alcohol training certification will be offered as part of the course. Prerequisite: HOS210N.

HOS290N Hospitality & Restaurant Management Internship 3 Credits
This internship is a College-supervised introduction to hospitality work experience at a participating industry property for a full semester. A journal and written assignments are required components of the internship experience. Prerequisite: A cumulative GPA of 3.0 in major courses, an overall GPA of 2.0 in General Education courses, completion of all catalog-listed courses for the first three semesters in the Hospitality and Restaurant Management Program and approval of the Program Coordinator.

HSV111N Introduction to Human Services 3 Credits
This course will provide an introduction to the background information and concepts necessary to understand the theory and practice of human services. The information will be drawn from disciplines of history, sociology, and psychology, joined together by values-based themes of social role valorization, ethical behavior, and quality of life. Current influences on Human Services such as managed care will be discussed. Corequisite: ENGL101N or ENGL110N, PSYC101N.

HSV123N Supportive Communication Skills 3 Credits
This course provides an awareness and general practice of interactional communication skills expected in a supportive relationship. Supportive communication will be taught through verbal instructions, case studies, and peer and self assessment. Observation and evaluation methods will be incorporated to assess the student's communication skills. Prerequisites: HSV111N; Corequisite: PSYC206N.

HSV190N Fieldwork I 3 Credits
A lab course designed to provide comprehensive experience in application of knowledge and values learned in previous course work. Students will select a program or facility which provides social services and will work at this site as a supervised intern. Regular meetings with the internship advisor and fellow interns will provide opportunities for discussion and evaluation of the fieldwork experience. This internship is focused on direct observation of professionals in human services. Educational and direct service activities will also be credited as part of the internship experience. Students will be able to continue on with the current internship placement for the following internship. Students will not be able to do all three field placements at the same agency. Pre-approval of fieldwork site by Department Chairperson is required before placement. **Students are expected to have field work placement before class begins.** Prerequisite: BCPT101N. Prerequisites or corequisites: HSV123N, General Education Core Requirement: Behavioral Social Science.

HSV225N Family Dynamics 3 Credits
This course examines the most widely used theories of family therapy. This will include an overview of couple therapy, marriage counseling and family systems approach. Prerequisites: PSYC212N; Corequisite: PSYC222N.

HSV291N Capstone Experience (Fieldwork) 3 Credits
Pre-approval of fieldwork site by Department Chairperson is required before placement. A GPA of 2.0 is recommended. A lab course designed to provide comprehensive experience in application of knowledge, skills and values learned in previous coursework. The focus is on synthesis, integration and application of previous learned knowledge both in the classroom and in the field. Students will select a program or facility which provides human services and will work at that site as a supervised intern. Weekly meetings with the instructor and fellow interns will provide opportunities for discussion and evaluation of the work experience. This internship continues the work focusing more on direct service activities that was started in Fieldwork I. Assessment, planning, and intervention skills will be emphasized as well as activities dealing with advocacy, case management, documentation and recording competencies, with a focus on the information/referral process. **Students are expected to have field work placement before class begins.** Educational/observational activities will also be credited as part of the internship experience. Prerequisite: HSV190N; Corequisites: HSV225N, PSYC222N.

HUMA101N Introduction to the Humanities 3 Credits
An overview of the content and purpose of the humanities, this course explores the relationship of the individual to society through materials from various humanities disciplines. Creative imagination and social context, universal versus culture-specific qualities of human experience and expression, the connection between appreciation and analysis, as well as the concept of criteria for evaluative judgments, are explored through sample topics from a variety of Humanities subjects. Sources from the visual arts, literature, religion, philosophy, history and the social sciences will be included. The terms and methods of analysis used in these various fields of study will be stressed. **This course fulfills a General Education Core Requirement: Humanities / Fine Arts.**

HUMA102N Art Appreciation 3 Credits
This course combines experience in the appreciation of painting, sculpture and architecture so that the student may analyze and interpret works of art. The class will study the artist's materials, messages and language (i.e. color, line, shape, shade, texture, volume space and composition). Field trips may be part of this curriculum and students may incur nominal fees. **This course fulfills a General Education Core Requirement: Humanities / Fine Arts.**

HUMA103N Music Appreciation 3 Credits
This course is a survey of music history from the Middle Ages to the present and includes selected listening samples. The course looks at music's relationship to other art forms along with significant societal and historic events. Focus is on selected composers, the elements of music, its forms, and the musical characteristics of each period. Attendance at a rehearsal or concert performed by professional musicians is a requirement of

this course and may incur a nominal fee. **This course fulfills a General Education Core Requirement: Humanities / Fine Arts.**

HUMA104N Jazz & Its Roots 3 Credits

For most of the twentieth century, jazz was not only one of the most important cultural developments in America but was also deeply involved in important political, intellectual and social developments. This course will focus on the development of jazz, its roots and its impact on society. Students will learn both to appreciate "America's art form" and to recognize how jazz reflected and shaped important developments in modern American history. This course fulfills a General Education Core Requirement: Humanities / Fine Arts.

HUMA107N World Religion 3 Credits

A survey course exploring the universality of religion in human experience and in various cultures. This course will cover the religious traditions that have a major influence in our world today: Taoism, Buddhism, Hinduism, Islam, Judaism, Christianity, the Sikhs, Baha'i, and Native American spirituality. Cultural or societal change and the relationship of religion with socio-political conditions will be referenced, but emphasis will be placed on a comparison of religious ideas, ethics, rituals, devotional practices and the teachings of the founders, prophets, and major leaders who have shaped each religious tradition (rather than on institutional history). A portion of the study of each religion will focus on reading selections from its primary sources: sacred myths, scriptures and devotional literature. Prerequisite: ENGL101N, ENGL110N **General Education Core Requirement: Global Awareness.**

HUMA110N Critical Thinking Skills 3 Credits

This course explores the relationship between communication and critical thinking. It explores logical thought and analysis with an emphasis on cause-and-effect and logical premise-and-conclusion arguments. Students will examine how to assess effective arguments and how to determine fallacious reasoning. Prerequisite: ACCUPLACER® placement score equivalent to ENGL101N or concurrent enrollment in ENGL101N. **This course fulfills a General Education Core Requirement: Humanities / Fine Arts.**

HUMA120N Introduction to Theatre 3 Credits

In this course, students will engage in an overview of the world of theatre through the study of theatre history, dramatic literature, theatre performance and production, and the practical application of theatre skills to a real life situation. Emphasis is on theatre as an important aspect of our culture both historically and in the present day. Through the study of theatre history, dramatic literature, performance, and design, students will improve their understanding of this collaborative art form and its place in today's world. This knowledge will be put to practical use in the form of readings from selected works, observing theatrical performances and becoming actively involved in a theatre event. For an informed understanding of this art, students will attend one live theatrical performance. The student will be responsible for the cost of one ticket for an off campus production. Students will gain confidence in their abilities to be a part of a performing arts event as well as an appreciation for the importance of culture in our daily lives. Prerequisite: ENGL101N or ENGL110N.

HUMA130N Music Composition 3 Credits

This course is designed for the student with little or no knowledge of music. Instruction will begin with the fundamentals of music theory including note values, the Grand Staff, meter, scales, chord structure, and chord progressions. These basics will provide the foundation for creating and harmonizing simple original musical compositions. The process will also include analysis of already existing music, and the development of listening skills including basic music dictation. **This course fulfills a General Education Core Requirement: Humanities / Fine Arts.**

HUMA140N American Cinema 3 Credits

This course explores Hollywood film as an art form, industry and system of representation and communication. In one sense, this is a language course - the language of film. The course will explain how Hollywood films work technically, artistically and culturally to reinforce and challenge America's national self-image.

HUMA145N American Popular Culture 3 Credits

Basic theories of and approaches to the study of popular culture, including various media, folklore, religion and everyday life. Various forms of popular culture including music, film, television, advertising, sports, fashion, literature, and digital media may be analyzed. Students will assess how American popular culture reveals historical, political, sociological and economic forces at work that influence our lives. Prerequisite: ENGL101N, ENGL110N

HUMA220N Classic Myths in Western Civilization 3 Credits

This course will focus on myths from Ancient Greece but will also include Norse myths and material from the Old Testament, Mesopotamia, and Celtic Britain. We will read some of the greatest stories ever told and discuss how to interpret the mythic descriptions of the relationship between immortals and mortals found in these stories of creation and conflict, madness and love, heroic quest and divine punishment.

Some study of historical context will be involved; however, the emphasis will be on exploring the universal qualities that explain why certain myths have outlived their cultural roots to become a meaningful part of the heritage of Western Civilization. Students will explore whether certain elements must be present for a story to be accurately labeled as mythic.

Myths and legends will be read in prose or verse translations. Short excerpts will also be read from some of the major modern European and American authors who have been inspired by them. Evidence of the persistence of mythic and heroic archetypes in the visual arts, music, movies, high fantasy literature and popular culture [including RPGs] will also be explored. This course fulfills a General Education Core Requirement: 'Humanities/Fine Arts'. Prerequisite: Any one of the following courses or by permission of the instructor or department chair: HUMA101N or HUMA107N or HIST101N or PSYC101N.

HUMA230N Ethics in the Workplace 3 Credits

An introductory study of classical and contemporary ethical philosophies and how these philosophies apply to current business practices. The course stresses analytical and problem-solving skills to comprehend the ethical dimensions of business relationships: employer to employee; managers to owners; manufacturers to consumers; and corporations to the environment. Prerequisite: ENGL101N or ENGL110N. **This course fulfills a General Education Core Requirement: Humanities / Fine Arts.**

LEXN110N Service Learning

This course will engage students in service experiences within the community. Service learning is the integration of service and learning where each is valued as necessary for the other. It is a way of learning that takes place through and within the performance of meaningful service to the community, and a way of enriching service through academic learning. Students will commit to a sustained community service project or from faculty for a minimum of 16 hours for the semester and will participate in reflection sessions that take place in bi-weekly seminars.

MASS101N Swedish Massage I 3 Credits

This course introduces the student to the history and theory of massage and will begin the study of the science and art of massage therapy. Course consists of lecture, demonstration and hands-on treatment. Students will be treating each other under the supervision of a licensed massage therapy instructor. This course is devoted to mastering the five basic Swedish strokes: Effleurage, petrissage, friction, tapotement and vibration. Corerequisite: MASS102N.

MASS102N Anatomy & Physiology for Massage and Bodywork 4 Credits

An introductory course centering on the structure and function of the human body with a concentration on normal anatomy with emphasis on system functions and interrelations between systems. This course is for the beginning massage therapy and bodywork student. A series of laboratory experiences are included to provide practical support for concepts presented in lecture.

MASS105N Spa Techniques 2 Credits

This course familiarizes the therapist in general with the various technique offerings of spas, including massage. The most frequently used options will be highlighted including wraps, scrubs, aromatherapy massage, and facials. Prerequisites: MASS101N, MASS102N.

MASS111N Musculo-Skeletal Studies 2 Credits

This course will concentrate on the muscular and skeletal systems of the body, emphasizing identification, anatomical location and physiological function. How each unit studied - muscle and/or bone - relates to the entire human structure will be considered. Prerequisite: MASS102N.

MASS119N Massage Business Practices 3 Credits

Course is lecture and open forum discussion of business laws and practices as it pertains to the licensed massage therapist. Topics included will be employment versus self-employment, business laws, accounting methods, tax-reporting, insurance billing and office filing, and procedures and business start-up.

MASS121N Swedish Massage II 3 Credits

This course continues and completes Swedish or basic massage. Range of motion will be studied as well as more advanced use of the basic strokes on the four quadrants of the body. Prerequisites: MASS101N, MASS102N.

MASS126N Massage Therapy Rules & Ethics 1 Credit

Course is lecture and experiential, focuses upon the specific

ethics of the profession of massage as exemplified in various codes of ethics of major massage organizations. Course will also cover NH Rules governing massage therapy and therapists.

MASS131N Pathology 3 Credits

Students will learn to treat pathological conditions of the musculoskeletal system, joints, movement, and anomalous conditions that limit movement as well as the more recognized pathological conditions of each anatomical system. Communicable diseases are considered, and hygiene included, along with indications and contraindications of massage. Prerequisites: MASS101N, MASS102N.

MASS132N Sports Massage 2 Credits

This course teaches massage techniques that meet the biophysical needs of the athlete. Specific injury treatment with massage is covered, as well as pre and post-event massage and muscular/joint maintenance between activities. Prerequisites: MASS101N, MASS102N.

MASS134N Self Care & Stress Management Techniques 2 Credits

This class is designed to teach professionals specific stress reduction and self care techniques through the use of meditation, visualization, yoga, self massage, breathing techniques, and nutrition. Students will develop skills to incorporate into their practice and self healing process.

MASS135N Deep Tissue Massage 2 Credits

This course introduces the massage student to deeper strokes that include, but are not limited to trigger point, myofascial release and cross-fiber friction. Neuromuscular technique (NMT) will be covered particularly. Prerequisites: MASS102N, MASS121N.

MASS136N Shiatsu 2 Credits

This is an introductory course in oriental acupressure theory and practice. The course covers the twelve organ meridian, the two governing meridians and terminology specific to Chinese acupressure and Shiatsu. Prerequisites: MASS101N, MASS102N.

MASS137N Pre/Post Natal Massage 2 Credits

Special considerations need to be taken when working with pregnant women. Contraindications during each trimester, pressure points and proper positioning will be emphasized. Infant massage will also be included. Prerequisites: MASS101N, MASS102N.

MASS139N Reflexology 2 Credits

Reflexology is the practice of zone therapy and how reflex points on the feet correlate to various parts of the body. Prerequisites: MASS101N, MASS102N.

MASS141N Oriental Theory & Concepts 3 Credits

This course teaches the student basic concepts of Eastern/Asian healing, including the 12 organ meridians, the 5-Elements Theory and forms of chi and how they relate to treatments and overall health of the individual.

MASS143N Chair Massage 2 Credits

Course is lecture and experiential, and focuses upon specific techniques used in this popular modality of massage therapy.

Students will learn all necessary preparations, procedures, and strokes for completing a chair massage - from intake of client to marketing this service to organizations, companies, and the public. Prerequisites: MASS101N, MASS102N.

MASS145N Aromatherapy 2 Credits
Use of essential oils for medical and massage purposes. Student will learn to customize aromas for specific purposes.

MASS148N Somatic Massage 2 Credits
Massage made famous during the 60's and 70's in the US at such noted centers as the Esalen Institute in California, Kripalu Institute in MA and Omega Institute in NY. Somatic massage emphasizes slow, full-body strokes with metaphysical and holistic (physical, psychological and emotional) approaches to the experience of bodywork. Prerequisites: MASS102N, MASS121N.

MASS153N Myofascial Release & Trigger Point Therapy 2 Credits
In myofascial release, the concept of fascial structure within the body will be focused upon. The student will learn major strokes of this technique on various muscle groups. Trigger Point emphasizes specific points on congested muscles for relief of pain and overtonification. Prerequisites: MASS101N, MASS102N.

MASS212N Kinesiology 3 Credits
This course is designed to give the student a basic understanding of normal human body movement as related to skeletal, articular and muscular systems. Anatomical palpations, human gait analysis, and biomechanical principles are also included. Prerequisite: MASS102N.

MASS233N Clinical Evaluation & Treatment 3 Credits
This is a hands-on class emphasizing assessment and corrective techniques. The student will learn evaluation of presenting conditions and have an understanding of causal factors that contribute to musculoskeletal deviations. Integration of all treatment modalities studied and all skills acquired will be coupled with the appropriate application. Medical history taking, SOAP note taking, focusing on specific problems and their treatment will be addressed. Prerequisites: MASS102N, MASS121N.

MASS290N Clinical Internship Capstone 3 Credits
A total of 125 hours of hands-on experience is required by the State of NH in approved programs for massage therapy. NCC offers a unique concept allowing the student the flexibility of completing these hours from second semester onward at their own pace and according to their own scheduling of appointments. However, such independent work must be fully documented and under the regular supervision of a licensed massage therapist. Arrangements for such supervision are left with the student and must also be fully documented. Prerequisite: Completion of all catalog-listed courses for the first two semesters in the massage program of study and approval of the internship coordinator.

MATH099N Algebra I 3 Credits
Algebra I is a preparatory math course that deals with basic and intermediate algebra topics ranging from solving equations, inequalities, systems of linear equations, factoring and simplifying algebraic expressions, to basic graphing techniques. Focus will be on applying these skills to solving problems. A minimum

passing grade of 'C' is required. Credits do not count toward degree requirements. Prerequisite: Appropriate Accuplacer score.

MATH103N Quantitative Reasoning 4 Credits
This course is designed to expose the student to a wide range of general mathematics. Problem Solving and Critical Thinking skills, along with the use of technology, will be emphasized and reinforced throughout the course as the student becomes actively involved solving applied problems. Topics included: Number Theory and Systems, Functions and Modeling, Finance, Geometry and Measurement, Probability and Statistics, and selected subtopics. Students who do not satisfactorily place into MATHN103N with the required Accuplacer or SAT scores will be required to enroll in the corresponding Co-Requisite Workshop. This course fulfills a General Education Core Requirement: Quantitative Literacy.

MATH105N Technical Mathematics 4 Credits
This course is designed for students pursuing degrees in technical trades. Topics covered will include: Quadratic Equations, calculation of areas and volumes; Pythagorean's Theorem, fundamentals of geometry, introduction to statistics, right triangle trigonometry, Law of Sines and Law of Cosines. This course fulfills the mathematics requirement for Advanced Machine Tool Technology only. Students who do not satisfactorily place into MATH105N with the required Accuplacer or SAT scores will be required to enroll in the corresponding Co-Requisite Workshop.

MATH106N Statistics I 4 Credits
An introductory course in modern statistics concerned with the basic concepts involved in the planning and conduct of a statistical analysis. Special emphasis is placed on an integrated coverage and presentation of descriptive and inductive statistical tools and techniques in support of meaningful decision making. Topics include scales of measurement, random sampling, graphs and tables, measures of central tendency, probability and probability distributions, confidence interval, error and sample size estimation, hypothesis testing, linear correlation, regression analysis, and prediction. A Texas Instrument TI83+ or TI84 graphing calculator is required. Students who do not satisfactorily place into MATH106N with the required Accuplacer or SAT scores will be required to enroll in the corresponding Co-Requisite Workshop. **This course fulfills a General Education Core Requirement: Quantitative Literacy.**

MATH107N Honors Statistics I 4 Credits
An introductory course in statistical analysis will explore how the application of statistical methods can be utilized to accurately interpret data from various fields of study. Students will learn how to employ the necessary skills relating to scales of measurement, random sampling, graphs and tables, measures of central tendency, probability distributions, confidence intervals, error and sample size estimation, linear correlation, and regression analysis. The project-based approach will allow students to test hypotheses and clearly communicate research findings through interpretative data. Students will apply mathematical analysis toward the advancement of new interpretations and development of arguments, a critical thinking skill set essential in all academic and professional fields. A Texas Instrument TI 83 or TI 84 graphing calculator is required. Prerequisite: Placement Test. **This course fulfills a General Education Core Requirement:**

Quantitative Literacy.

MATH108N Contemporary Mathematics 3 Credits

This course introduces students to recent advances in mathematics and their application to the social sciences. It focuses on the understanding and application of mathematics in applied situations and includes a number of topics in which mathematical ideas are used to solve modern problems such as: voting systems, weighted voting systems, Fairness, Euler and Hamiltonian Circuits, networks, scheduling problems, and population growth. Prerequisite: Placement Test, SAT scores or Permission of Instructor.

MATH110N Algebra & Trigonometry 4 Credits

This course starts with algebra topics, which include linear, quadratic, and radical equations. Trigonometry topics include trigonometric functions, their graphs, identities, inverse trigonometric functions, laws of Sines and Cosines, trigonometric identities, and vectors are all studied in detail. Applications to problem solving are emphasized. Students who do not satisfactorily place into MATH110N with the required Accuplacer or SAT scores will be required to enroll in the corresponding Co-Requisite Workshop. This course fulfills a General Education Core Requirement: Quantitative Literacy. **This course fulfills a General Education Core Requirement: Quantitative Literacy.**

MATH115N Finite Mathematics 4 Credits

This course examines the fundamental components and most commonly used applications of finite mathematics. Topics include linear models, matrix theory, linear programming, combinatorics, and mathematics of finance. A wide range of applications to economics, life sciences, and social sciences are considered. Students who do not satisfactorily place into MATH115N with the required Accuplacer or SAT scores will be required to enroll in the corresponding Co-Requisite Workshop. **This course fulfills a General Education Core Requirement: Quantitative Literacy.**

MATH120N PreCalculus 4 Credits

This course is intended to prepare students for the study of calculus. Students will investigate the properties of exponential, logarithmic, polynomial, rational and trigonometric functions. Other topics include complex numbers, polar coordinates, conics, vectors, sequences and series, DeMoivre's Theorem and Euler's Theorem. A selection of topics from the following list will be chosen by the instructor: sequences and series, mathematical induction, binomial expansions, systems of equations and inequalities, introduction to derivatives. Mastery of the topics in this course will prepare the student for Calculus. Applications will be integrated throughout the course and particular attention will be paid to the process of problem solving. Prerequisite: Placement Test or MATH110N or permission of instructor. **This course fulfills a General Education Core Requirement: Quantitative Literacy.**

MATH170N Discrete Mathematics 4 Credits

This course is concerned with the finite processes and sets of elements that can be listed. It covers the basics of discrete mathematics including propositional logic, proof techniques, fundamentals of counting, sets, relations, functions, trees, graphs and Boolean algebra. Prerequisites: MATH110N or MATH115N.

MATH206N Statistics II 4 Credits

This course will emphasize the use of statistical procedures in research applications. Students will investigate studies pertaining to business and behavioral sciences and learn to perform the appropriate statistical analysis. Topics include t-tests, hypothesis testing, linear and multiple regression, analysis of variance, and nonparametric statistics. Students will be required to purchase a student version of the computer program SPSS. This course contains a service learning option. A Texas Instruments TI-83 or TI-84 graphing calculator is required. Prerequisite: MATH106N or MATH107N. **This course fulfills a General Education Core Requirement: Quantitative Literacy.**

MATH210N Calculus I 4 Credits

Calculus is introduced through the study of functions, limits, differentiation and higher order derivatives. Derivatives of polynomial, trigonometric, inverse trigonometric, exponential, and logarithmic functions are covered. Problems in optimization, curve sketching and related rates are considered. Integration is introduced by analyzing the definite and indefinite integral. Prerequisite: Placement Test or MATH120N or Permission of instructor. **This course fulfills a General Education Core Requirement: Quantitative Literacy.**

MATH211N Calculus II 4 Credits

This course is a continuation of calculus I. Topics include definite and indefinite integration and the use of calculus in the calculation of areas and volumes. Various integration methods are covered including: integration by parts, trigonometric substitution, and partial fractions. Improper integrals are introduced as well as the study of infinite sequences and series, power series, Taylor series, and determining convergence or divergence of series. Prerequisite: MATH210N

MATH212N Calculus III 4 Credits

A course in the calculus of functions of more than one variable usually follows a year of calculus involving functions of only one variable. This course will commence with discussions of vectors and vector value functions. Partial differentiation, multiple integration, and vector operators including: gradient, divergence, and curl and related integral theorems: Green's theorem, the Divergence theorem, and Stokes' theorem will be introduced and applications will be included throughout. Prerequisite or Corequisite: MATH211N.

MATH214N Honors Calculus I 4 Credits

Students will have an opportunity to explore calculus from a historical perspective with emphasis on discovery and in solving problems. In addition to performing the mathematical calculations involved in the study of calculus, students will read on the history of calculus and a variety of topics including limits, differentiation, related rates, definite and indefinite integrals, area and volume. Not only will students learn the various operational steps of this mathematical study, but they will be challenged with researching the areas of application for calculus. prerequisite: Placement Test or MATH120N AND Acceptance in Honors Program. This course fulfills a General Education Core Requirement: Quantitative Literacy.

MATH215N Linear Algebra 4 Credits

In this course, students will be introduced to both the theory and the computational methods used in the study of matrices, vector spaces, linear transformations, diagonalization, eigenvalues,

and orthogonality. Students are expected to use mathematical reasoning to read and write proofs pertaining to the study of course material. Prerequisite: MATH210N.

MATH220N Differential Equations 4 Credits

This first course in differential equations studies the theory, solutions methods, and application of ordinary differential equations. Topics include separable differential equations, method of integrating factors, method of undetermined coefficients, variation of parameters, Laplace transforms, numerical methods, and series solutions to differential equations. Prerequisite: MATH211N.

**MATH285N Individual Project in Mathematics:
A Capstone Experience 4 Credits**

This course serves as the capstone experience for Mathematics students enrolled in the Liberal Arts program. The course is designed to help students synthesize the learning and skills acquired in their Mathematics degree and prepare them for baccalaureate work. In consultation with the supervising faculty member, the student or small group of students will design and complete a project that integrates the student learning outcomes for the Liberal Arts Mathematics Degree. Prerequisite: Completion of 45 credits of coursework applicable to the Liberal Arts Mathematics Degree. Minimum grade of 'C' in MATH210N and MATH211N.

MDTN110N Automation Programming 3 Credits

Students will learn the basic concept of programming a robot. Students will design, construct, and program robots and machinery for varied design applications. Robots will be both benchtop and IR controlled. Laboratory exercises compliment classroom instruction. Prerequisite: CAD111N.

MDTN285N Mechanical Design Capstone 4 Credits

Students work in teams under the direction of a faculty advisor to complete an engineering design project. Students will create a mockup of their design leading to the development of a prototype to test and verify the effectiveness of their design. Students will present their design and prototype to the Technologies Department Advisory Board for evaluation.

MTTN101N Manufacturing Processes 3 Credits

The student is introduced to the preparation of materials for manufacturing through the extraction and development of ferrous and nonferrous metals and the influence of elements in the production of alloy steels and irons. The classifications of steel, the mechanical and physical characteristics of metals as well as heat treatment processes are also covered. Manufacturing processes such as forging, powdered metal processes, sand castings, additional casting processes, presswork, rolling, drawing, bending, extrusion, welding, electrical discharge machining (EDM), electrochemical machining (ECM), and numerical control (NC) operations are emphasized.

**MTTN111N Machine Tool Processes
and Theory I 6 Credits**

This course introduces the student to the fundamentals of basic machining, the machines covered include: the engine lathe, drill press, vertical mill, cutoff saw and other standard machine tools. Machining topics such as turning, boring, drilling, threading, drill and

lathe tool grinding along with shop safety will be discussed. An in-depth look at lathe tool geometries, drill sharpening, and various off hand grinding techniques along with basic print reading, inspection methods and tools will be covered. **A student must earn a grade of 'C' or better to achieve a passing grade in this course.**

MTTN118N Machining Technology 3 Credits

This course is designed to teach the student the basic operation of the engine lathe and the manual vertical milling machine and the processes associated with them. The course will include the study of lab safety, measuring tools, as well as the fundamentals of reading and interpreting a blueprint to produce a close tolerance part.

**MTTN122N Machine Tool Processes
and Theory II 6 Credits**

This course is a continuation of MTTN111N with an emphasis on advanced lathe and mill operations on more complex parts and assemblies. Conversational programming on CNC machines is introduced on both lathe and mill. Basic Geometric Dimensioning and Tolerancing is taught as part of expanding the understanding and interpretation of modern blueprints. Projects will include assemblies of milled and turned parts as well as heat treated and surface ground parts. Instruction will be given in proper wheel selection and grinding techniques. Students will complete several individual projects that utilize all these machining methods. Mechanical concepts such as gears, simple machines, and machine components will be discussed. **A student must earn a grade of 'C' or better to achieve a passing grade in this course.** Prerequisite: MTTN111N, A grade of 'C' or better is required in MTTN111N.

MTTN123N Principles of CNC 3 Credits

Topics studied in this course include a full description of programming, machine terminology, operations, and equipment used in CNC (computer numerical control). Students will be taught manual programming techniques using standard G and M codes for basic vertical CNC milling applications. The setup and machining of simple projects on the Acu-Rite, Prototrak, and Haas machines will offer students real world machining experience. Prerequisites: MTTN111N or permission of instructor.

MTTN133N CNC Programming & Operation 3 Credits

This course incorporates the basic principles of manual programming for both CNC lathes and milling machines. Emphasis is placed on the designing and writing of programs using G and M codes. The setup and operation of CNC lathes and mills will be taught using a hands on approach to the manufacturing of multiple parts. Prerequisites: MTTN123N.

**MTTN201N. Lean and Green
Manufacturing Methods 3 Credits**

This course introduces the student to the fundamentals of Lean Six Sigma and the philosophies of Dr. W. Edwards Deming and the Toyota Way. These methodologies include production, process and inventory control, continuous improvement methods and how they apply to concepts of Lean Six Sigma. In addition, the application of these philosophies in plant management, safety, waste analysis and work flows will be studied and applied. Green manufacturing innovations, ISO 14000 standards and processes will also be reviewed. Case studies of existing plants will be used in the course. Guest lecturers and possible plant tours to see

these topics in action will be part of the course as schedules permit. Prerequisites: MTTN101N or permission of Program Coordinator/Department Chair.

MTTN210N Metrology and Quality Control 3 Credits

This course will stress the use of a Coordinate Measuring Machine, its use and application to precision measurement. In addition, the use of optical measuring machines such as Micro-Vu and comparator will be emphasized. Quality practices in documentation, compliance with standards and calibration will be covered with an emphasis on current quality management systems. Prerequisites: MTTN101N, MTTN105N/110N. Corequisites: MTTN201N, CAD131N or permission of instructor.

MTTN223N Computer Aided Manufacturing (CAM) 3 Credits

A course designed to introduce students to Computer Aided Manufacturing (CAM) software and its applications to Computer Numerical Control (CNC) machine tools. Students will import CAD files and draw machine parts through the use of Mastercam X, and produce and post programs to run CNC milling machines and CNC lathes. Prerequisites: CAD131N, MTTN123N or permission of instructor.

MTTN231N Advanced Machine Tool Processes and Theory I 6 Credits

The student will increase proficiency and knowledge in the following areas with stress on accuracy and speed: Milling machines, surface grinding, machining with conversationally programmed CNC machines, electrical discharge machining, digital readout units and CNC milling and turning (programming & operation). **A student must earn a grade of 'C' or better to achieve a passing grade in this course.** Prerequisites: MTTN122N. Corequisite: MTTN123N.

MTTN232N Advanced Machine Tool Processes and Theory II: A Capstone Experience 6 Credits

This course will emphasize the application of CAD/CAM in the manufacturing of a quantity of machined parts. Students will utilize CAM software, conversational programming and manual programming skills. Live tooling and fourth axis work will be covered as it relates to the CNC lathe and mill. In addition, students will participate in a service learning project as well as individual projects and/or group projects. Students will also be taught various job hunting techniques such as resume writing and interviewing skills to assist them in their job search. Prerequisites: MTTN123N, a grade of 'C' or better in MTTN231N.

NURS125N Fundamental Concepts & Skills for Nursing Practice 8 Credits

This course introduces the student to major concepts and skills required as a foundation for further studies in nursing and prepares the student to deliver safe nursing care across the lifespan under the supervision of a Registered Nurse. Content in the theory portion of the class includes: Introduction to Nursing, Working in the Healthcare System, Care of the Human Being, the program's conceptual framework, Nursing Process and Critical Thinking, Health Assessment, Meeting Basic Human Needs Across the Lifespan, Patient/Family Education, Concepts of Medication Administration, and Contemporary Contexts for Professional Nursing. During lab and clinical, the student

will practice skills related to the concepts in the theory portion of the class. Upon completion of the course, the student is eligible to seek NH licensure as a nursing assistant. This course also serves as a bridge for the LPN student to pursue studies preparing for RN licensure. The LPN applicant must take the National League for Nursing (NLN) Nursing Acceleration Challenge Exam (NACE) and attain a score of 74% or higher in order to be considered for admission. If admitted, the LPN will be awarded 8 credits applicable to NURS125N. Prerequisites: BIOL201N, PSYC101N; corequisites: PSYC201N, BIOL202N.

NURS140N Nursing Care I: Concepts and Skills 8 Credits

This course introduces the student to the care of patients with chronic altered health conditions across the lifespan. Care of the patient with selected alterations in health, including integumentary, cardiac, respiratory, endocrine, musculoskeletal, and neurological/mental health conditions will be studied. Selected health alterations are explored in light of the program's conceptual framework, pathophysiology, pharmacology, and interdisciplinary interventions. Concepts and skills introduced in NURS125N will be applied and further developed throughout the semester. Clinical experience(s) will occur in a combination of inpatient acute rehab, inpatient/outpatient psychiatric, and clinical simulation settings. Prerequisites: NURS125N, PSYC201N, and BIOL202N.

NURS220N Nursing Care II: Concepts and Skills 9 Credits

This course applies previous learning in nursing, life sciences, social sciences and the nursing process to the care of patients across the lifespan with acute health alterations in gastrointestinal, hepatobiliary, fluid and electrolyte function, acid-base balance, renal, respiratory, hematologic, cardiac, oncologic, immune health, and perioperative care. A systematic approach to each unit will include levels of prevention, pathophysiology, lifestyle alterations, environmental impact and modification, cultural considerations, interdisciplinary care plans, and legal and ethical implications inherent in delivering patient care. Clinical experiences will occur in the acute care hospital setting. Prerequisites: NURS140N, NURS230N.

NURS230N Pharmacology for Nursing Practice 3 Credits

This course is a hybrid course that presents information related to the nurse's role in the pharmacological treatment of health alterations. Foundational principles of drug action, pathophysiology, and a systematic review of common drugs in clinical use will be studied. Safe administration of medication across the lifespan, assessment of its effectiveness, patient and family education, and ethical and legal issues related to the nurse's role in pharmacotherapeutics is emphasized. Prerequisites: NURS125N, NURS140N.

NURS240N Management of Nursing Care Across the Lifespan 9 Credits

This course is a capstone course that requires students to apply all previous learning to the care of patients/families across the lifespan, including patients/families with complex and/or emergent health alterations. Concepts of maternal-child health care, critical care, community health nursing, leadership, management, health care policy and trends, and transition to practice will be studied. Clinical experiences will occur in a combination of acute care hospital and community settings. Prerequisite: NURS220N.

PHIL109N Introduction to Philosophy 3 Credits
An introductory level course covering the basic branches of philosophy: Metaphysics, Epistemology, Ethics, Political & Social Philosophy, Aesthetics and Logic. Students will examine and evaluate their personal philosophies as they relate to the ideas of classical and modern philosophers. Prerequisite: ACCUPLACER® placement score equivalent to ENGL101N or concurrent enrollment in ENGL101N. **This course fulfills a General Education Core Requirement: Humanities / Fine Arts.**

PHIL130N Honors Ancient Greek Philosophy 3 Credits
The main objective of this course is to develop students' understanding of ancient Greek philosophy by examining in depth the work of its three major representatives: Socrates, Plato, and Aristotle. Attention will be given both to the social and historical context in which the ideas of these thinkers arose and to the influence of their ideas across the Western world over the course of history. The course will help the student develop a sense of the intrinsic value of these classical modes of thought for her or his own ethical development as well as to the development of later civilizations. After all, Athenian social life was as fraught as any contemporary society with tensions between truth and deception, virtue and moral relativism, and ethics and self-centeredness. Understanding how the ideas of the classical philosophers evolved in response to these tensions will help students link the relevance of their ideas to the development of individual and social values at almost any point in history. Students will be encouraged to make connections between past and present through exploration of three fundamental questions: What does it mean to live a good life? What is the difference between knowledge and belief? What is an ideal society, and what roles should various groups have within it? Prerequisite or corequisite: ENGL110N or ENGL101N and permission of the Honors Program Coordinator or Admissions into the Honors Program. **This course fulfills a General Education Core Requirement: Humanities / Fine Arts.**

PHYS101N Physical Science I 4 Credits
This course studies the impact of physics on everyday life. Topics include motion, gravity, heat, electricity and magnetism, waves, sound, light and the physics of the atom. Conceptual understanding is emphasized over mathematical manipulation. Prerequisite: MATH099N or Placement Test. **This course fulfills a General Education Core Requirement: Science.**

PHYS115N Astronomy 4 Credits
This course offers an introduction to astronomy. The course offers a broad introduction to the solar system, stars, and stellar evolution, galaxies, and cosmology. **This course fulfills a General Education Core Requirement: Science.**

PHYS116N Meteorology 4 Credits
This course provides an introduction to the science of meteorology. Students will learn about the relationships between weather and the Earth's atmosphere. Topics covered include atmospheric pressure, stability of the atmosphere, fronts, atmospheric circulation, storms and forecasting. Real time data will be used to prepare weather maps and forecasts.

PHYS130N Physics I 4 Credits
Serves as the first semester of a one-year course which surveys the field of physics at a non-calculus level. Topics include force and motion, vectors, gravity, energy and momentum, heat and thermodynamics, and oscillations. Prerequisites: MATH110N (A grade of 'C' or better is recommended). **This course fulfills a General Education Core Requirement: Science.**

PHYS131N Physics II 4 Credits
A continuation of the study of physics at the non-calculus level. Topics include waves and sound, optics, electricity and magnetism, atoms, nuclei and modern physics. Prerequisite: PHYS130N.

PHYS230N Calculus-Based Physics I 4 Credits
A study of classical physics using calculus. Topics include linear and projectile motion, forces, momentum, energy, gravitation and oscillations. Prerequisite or corequisite: MATH210N.

PHYS231N Calculus-Based Physics II 4 Credits
A study of classical physics using calculus. Topics include fluids, thermodynamics, electricity and magnetism. Prerequisite: PHYS230N.

PLGL101N Basic Legal Studies 3 Credits
This course introduces the student to the field of law. The course will examine the role of paralegals working for attorneys in the practice of law. The student will gain an understanding of the structure and operation of the legal systems in the United States, both state and federal, with a fundamental knowledge of the major areas of substantive and procedural law. The student will acquire an understanding of the important ethical rules governing attorneys in the practice of law, and will gain valuable practical knowledge for beginning a career and working in the legal field. Prerequisite or Corequisite: ENGL101N or ENGL110N.

PLGL102N Legal Research and Writing 3 Credits
This course will develop strong legal writing, research and analytical skills. Students will be required to engage in frequent "hands-on" exercises in legal research and legal writing to enhance research, writing and analytical abilities. The student will acquire an understanding of legal research tools, methods and resources. Solid and proficient "book shelf" research will be developed; thereafter, electronic research tools, methods and resources will be learned. The course will demonstrate the importance of thorough legal research and effective and professional legal writing for assisting the attorney in providing competent and quality legal services. Prerequisite: ENGL101N or ENGL110N, PLGL101N.

PLGL210N Litigation and Trial Preparation 3 Credits
This course covers an overview of all phases of civil litigation. Emphasis will be on civil "causes of action" (claims) and defenses at common law, under statutes, and based in tort law and contract law. Functional skills acquired include preparing and maintaining the file, gathering information through client and witness interviews, investigation, drafting pleadings and motions, organizing and indexing documents, compiling evidence, examining public records, preparing briefs and memoranda, preparing discovery, and assisting the lawyer in preparing for trial and at trial. Prerequisite: PLGL101N; Prerequisite or Corequisite: PLGL102N, PLGL230N.

PLGL220N Real Estate Law 3 Credits

This course covers the fundamental principles and procedures in the practice of real estate law. The student will be capable of assisting in most phases of residential real estate transactions. Functional skills acquired include reviewing and understanding real estate instruments and documents, title insurance binders and policies, surveys; assisting in the preparation and drafting of deeds, purchase and sales contracts, title affidavits, escrow agreements, use and occupancy agreements, notes, mortgages and related financing documents; and preparing for and attending residential closings. Prerequisite: PLGL101N; Prerequisite or Corequisite: PLGL102N.

PLGL230N Contracts and Business Organizations 3 Credits

The student will have acquired a complete knowledge of the fundamental legal doctrines and principles of the law of contracts; will be familiar with the significant Articles of the Uniform Commercial Code governing Sales, Negotiable Instruments and Secured Transactions; will have acquired a fundamental and practical knowledge of agency law and employment law. From a legal perspective, the graduate will also have a full understanding of the nature, characteristics, formation, operation and termination of the different for-profit business entities; as well as the legal, duties, rights and liabilities of persons associated with such organizations, and related legal actions. Functional skills acquired include assisting in the preparation of business contracts, employment agreements, and documents in the formation of such business entities including: drafting of articles of incorporation, corporate by-laws; preparing notices and minutes for meetings of the board of directors and shareholders; and drafting partnership agreements. Prerequisite: PLGL101N; Prerequisite or Corequisite: PLGL102N.

PLGL240N Probate, Estates, and Trusts 3 Credits

This course will enable the student to be capable of assisting in the probating, planning and administration of the probate estate. Functional skills acquired include assisting in the preparation of simple wills, revocable trusts, irrevocable trusts, assisting in the preparation of probate documents including inventory forms, final accounting forms, maintaining accounts, and assisting the attorney in the remainder of the probate process. The course will also examine living wills, estate planning, and estate taxes. Prerequisite: PLGL101N; Prerequisite or Corequisite: PLGL102N, PLGL220N.

PLGL250N Family Law 3 Credits

This course will examine the substantive and procedural law relating to family law and particularly with regard to legal ethics, marital and cohabitation agreements, marriage, divorce, separation, division of marital property, annulment, adoption, support of spouse and child, and child custody issues. The student will be prepared to assist the attorney in client interviews, information and document gathering, preparation of matrimonial disclosure forms, the drafting of agreements and pleadings related to divorce and family law proceedings. This course also contains an optional service learning component or assignment. Prerequisite: PLGL101N; Prerequisite or Corequisite: PLGL102N.

PLGL260N Criminal Law 3 Credits

In this course, the student will examine the significant legal

concepts, principles, legal doctrines, procedures and practice of criminal law in the local and state (according to New Hampshire law and procedure) and federal court systems; and will trace the steps by which the criminal procedure is followed: from stop and arrest, prosecution, the initial client interview, pre-trial, through trial, and post-trial procedure, motions and appeals. Prerequisites: PLGL101N; Prerequisite or corequisite: PLGL102N.

PLGL280N Paralegal Capstone Experience 3 Credits

The Paralegal Capstone Course is designed to prepare the student for obtaining and maintaining employment in the paralegal profession. Students will discuss the application of their knowledge of the law and the legal system, the practical knowledge necessary for successfully working as a paralegal in the field of law, and a review of the ethical rules governing attorneys. The students will review the major skills they acquired during the Paralegal Studies Program and apply them to practical assignments and projects. Students will also complete a Portfolio containing selections of their legal work-product, and will prepare a professional resume which best presents their attributes and employment potential. This course will also prepare the student for the employment process, from job search through interview and hiring. Prerequisites: For students in the Degree Program, completion of all catalog-listed courses for the first three semesters.

PLGL290N Paralegal Internship & Seminar 3 Credits

The Internship and Seminar in Paralegal Studies consists of: 1) an internship which is a hands-on learning experience at law firm, public agency, corporation, or other law-related organization, under the direct supervision of a lawyer; and, 2) a capstone seminar of one class contact hour per week designed to prepare the student for obtaining and maintaining employment in the paralegal profession. Prerequisites: For students in the Degree Program, completion of all catalog-listed courses for the first three semesters, a cumulative grade point average of at least 3.0 in the Degree Program, and approval of the faculty internship coordinator. For students in the Certificate Program, completion of six of the eight catalog-listed paralegal specialty courses, a Bachelor Degree from an accredited institution, a cumulative grade point average of at least 3.0 in the Certificate Program, and approval of the faculty internship coordinator.

POLS101N Introduction to Political Science 3 Credits

This course offers an introduction to a variety of contemporary political systems and practices. Topics include an examination of communism, democracy, socialism, authoritarianism as well as other political structures. Political philosophy, theory, culture, structure, and institutions will be examined. **This course fulfills a General Education Core Requirement: History / Political Science.**

POLS102N American Government & Politics 3 Credits

This course provides and introductory examination of the American political system by reviewing the evolution of the executive, legislative, and judicial branches of government. It also covers topics such as: voting and elections; political parties and candidate selection; and the role of the media and interest groups in U.S. politics. Some state and local political topics may also be discussed. **This course fulfills a General Education Core Requirement: History / Political Science.**

POLS106N The Citizen and Society 3 Credits
The course will provide an understanding of the meaning of public policy, its importance, and the role that citizens can take in shaping it. The course will also review operations of government at the local, state and federal levels. Learning techniques to address actual community, state and/or national concerns will be an integral part of the course. Students will engage in the democratic process to apply a model of active citizenship, analyzing and influencing a current public policy. Using deliberation skills, they will work with a group of classmates to accomplish this. Field trips to local and state offices and meeting with public officials may be a part of this course. This course is a requirement for all students in the First Year Program who have not yet selected a major. This course fulfills a General Education Core Requirement: History/Political Science.

POLS210N State and Local Government 3 Credits
This course explores the structure and operation of local and state government. To illustrate general topics, students are presented with specific examples from New Hampshire politics. Field trips to local and state offices and presentations by guest speakers are an integral part of this course. Prerequisite: ENGL101N or ENGL110N.
This course fulfills a General Education Core Requirement: History / Political Science.

POLS215N World Affairs 3 Credits
This course explores major issues of the contemporary world political environment from both theoretical and factual perspectives. Some of the topics covered include basic International Relations theory, such as: Realism, Idealism, Game Theory, and Foreign Policy Decision Making theory. It also addresses current international issues, such as: international trade; globalization; economic interdependence; the UN and other international organizations; human rights and international law; terrorism, the proliferation of weapons of mass destruction; the environment and population. Prerequisite: ENGL101N or ENGL110N.

POLS220N American Politics & Mass Media 3 Credits
This course explores the changing relationship of politics and the mass media. Technology is expanding the definition of mass media and impacting politics by changing how voters participate in the political cycle. Exploring these changes with students will help them to become active and informed political consumers. This course is a hands-on course that not only explores the changing dynamic between the public and its elected leaders, but also challenges students to get involved in local, state or national politics by using the new mass media tools to participate in a political issue. Students must have Internet access to participate in this course. Prerequisites: ENGL101N or ENGL110N.

PSYC101N Introduction to Psychology 3 Credits
Psychology is the scientific study of cognitions, emotions, and behavior. Core topics include human social behavior, personality, psychological disorders and treatment, learning, memory, human development, biological influences, and research methods. Related topics may include sensation, perception, states of consciousness, thinking, intelligence, language, motivation, emotion, stress and health, cross-cultural psychology, and applied psychology. Psychology also critically evaluates "common sense" assumptions about how people function and relate. **This course fulfills a General Education Core Requirement: Behavioral Social Science.**

PSYC130N Human Relations 3 Credits
This course will promote student exploration of intrapersonal (within self) and interpersonal (between self and others) aspects of human relationships. An understanding of basic psychological concepts and their connection to interpersonal relationships will be presented. Integration of effective communication, stress reduction, and team and leadership strategies in both the home and workplace will be encouraged. **This course fulfills a General Education Core Requirement: Behavioral Social Science.**

PSYC201N Human Growth & Development 3 Credits
The study of human growth and development across the lifespan is based primarily in the social sciences of psychology, sociology and anthropology. Emphasis will be given to maturation and development achieved in four interrelated systems: Physical, cognitive, social, and emotional. Development is about change; changes that we share as well as changes that are based on unique environments, social and cultural customs. Attention will be paid to controversies that have developed as a result of living in a diverse and multicultural world. Prerequisite: ENGL101N or ENGL110N. **This course fulfills a General Education Core Requirement: Behavioral Social Science.**

PSYC202N Personality Psychology 3 Credits
This course is designed to provide a basic introduction to personality psychology. Personality is defined as the attributes – behavioral, temperamental, emotional, and mental – that characterize a unique individual and that are relatively stable over time. This course will introduce theories, historical background, modern research, and research methods used in the study of personality. This course will provide the opportunity to broaden understanding of the science of personality and to think critically about the application of personality theory in everyday life. Prerequisite: PSYC101N

PSYC205N Child Psychology 3 Credits
The developmental processes that start once an egg is fertilized are complex and proceed rapidly. The study of child psychology calls upon many disparate disciplines: Biology, medicine, neurology, language and linguistics, as well as psychology fields, to describe and explain this fascinating period of our lives. Emphasis is placed on the interaction of biological, psychological, and sociocultural influences on normal development. The growing child is considered in terms of physical, social, cognitive, emotional, aesthetic, and moral development. The role of culture is examined throughout the course. Prerequisite: PSYC101N.

PSYC206N Learning and Behavior 3 Credits
This course includes examining various methods and techniques suitable for the modification of human behavior, based on the principles and findings of experimental studies of animal and human behavior. Considers how such methods can be used in education, mental health, corrections, and self-directed personal change. This course will also provide mental and behavioral health providers, knowledge and skills for supporting students and others displaying challenging behaviors using frameworks of positive behavioral supports. Prerequisite: PSYC101N.

PSYC207N Social Psychology 3 Credits

This course will examine theory and research in the science of individual human behavior in social situations as well as applications of its major principles in everyday life. The course is designed to illustrate how the individual and society are shaped by mutual interaction of mental processes, situational factors, individual differences, and group phenomena within cultures and social structures. Students will investigate the manner in which the behavior, feelings or thoughts of the individual are influenced or determined by the behavior and/or characteristics of others. Diversity, prejudice, institutional aggression, and the political process will be investigated. Prerequisite: PSYC101N.

PSYC210N Abnormal Psychology 3 Credits

This course explores the diagnosis, treatment and care of the symptoms associated with abnormal behavior. The theoretical causes of various types of psychological disorders—particularly the neurotic, psychotic, and mood disorders will be presented as will a historical perspective regarding treatment. The psychodynamic, cognitive behavioral and medical model approaches to treatment will be emphasized. Prerequisite: PSYC101N.

PSYC212N Individual Counseling: Theory and Practice 3 Credits

This course will present a discussion of the most widely used theories of counseling. Integration of these basic theories with the student's own value system will be encouraged. Prerequisite: PSYC101N.

PSYC220N Research Methods 3 Credits

This course will introduce students to the importance of research techniques and methodologies within the field of psychology (specifically) and to science in general. They will become familiar with the strengths and limitations of empirical studies by exploring the ways in which research is explained to the general public and how essential an adequate understanding can be to the development of programs treatments and policies aimed at improving lives. We will explore the role of ethics in the research process and identify ways that social scientists work to conduct research that helps rather than harms. The course will also examine both quantitative and qualitative approaches to social science research and students will learn and develop, conduct and write research reports. Prerequisites: MATH106N or MATH107N, PSYC101N.

PSYC222N Group Dynamics & Counseling 3 Credits

This course will provide a study of therapeutic interventions as carried out through a group. The course design includes academic discussion of group processes and dynamics. Theory will be incorporated into application for students to increase their awareness of their group roles and increase their leadership and group problem solving abilities. This course is a combination of didactic and experiential activities. Students are exposed to the various theories of group work, the basics of group process and professional and ethical issues involved in group counseling. Emphasis is placed on determining how students can incorporate the best of each of the models into their own personalized eclectic model—one that is consistent with their philosophy and suits them personally. One aim of this course is a didactic or teaching purpose that focuses on learning how groups function, learning about group dynamics, and acquiring specific skills necessary to effectively lead groups. The other aim is

to provide a climate of support and challenge that will encourage students to get personally involved to the extent that they will be given some tools to continue taking an honest look at themselves as persons and to assess how their personal characteristics might either facilitate or inhibit their ability to lead groups. Prerequisite: PSYC212N.

PSYC240N Drugs and Alcohol 3 Credits

This course is designed to examine alcohol use, drug use and misuse, addiction and personal and social consequences. The effect on the family system and roles of family members will also be explored as well as etiology, symptomatology and current treatment modalities. This course contains an optional service learning component. Prerequisite: PSYC101N or Permission of the Instructor.

PSYC290N Psychology Internship: A Capstone Experience 3 Credits

This capstone course is intended to provide the student with an internship as a means for enhancing learning and unifying the knowledge and experience **for the student in the Associate of Arts Psychology degree program.**** This course will provide an opportunity for students to integrate classroom learning with real world activities. Critical thinking will be encouraged by demonstrating the student's ability to integrate and synthesize past course material and then illustrate this understanding in a final paper. This course will give the student multiple opportunities to be active and collaborative learners through the application of psychological principles and ethical issues such as confidentiality and values. Career planning can also be strengthened with mentoring relationships developed during this experience. **Field work** positions may include placement in mental health, applied developmental and industrial settings as well as social service agencies, educational intervention programs and adolescent crisis centers. **Pre-approval of fieldwork site by Department Chairperson before placement. Students are expected to have field work placement before class begins.** Prerequisite: Completion of 45 credits of coursework applicable to the **Associate in Arts Degree in Psychology ***

SOCI101N Introduction to Sociology 3 Credits

This course provides the student with an understanding of the development of sociological thought and the theories and methods used to study social structure and interaction. It emphasizes the influence of culture on human behavior and social relationships. Students will learn how people's location in society and its institutions shapes their experiences and life chances, and how individuals and groups can influence the process. **This course fulfills a General Education Core Requirement: Behavioral Social Science.**

SOCI208N Sociology of Conflict 3 Credits

This course examines major social scientific theories of conflict with an emphasis on the need for theories to inform our ability to resolve conflict. The course weaves together ideas from conventional disciplines with new approaches to the cause of deep-rooted conflict. A major focus is on the analysis as a tool. Prerequisite: ENGL101N or ENGL110N

SOCI228N Social Inequalities: Theory and Practice 3 Credits

This course will allow students to view the development and maintenance of social inequalities in contemporary American culture by exploring how power, privilege, and social status are tied to race, social class, gender, and sexuality. Students will understand the

historical roots of prejudice and discrimination as they relate to the production and maintenance of social stratification. Students will examine the role of power in our society by studying various models of authority (e.g. hierarchical vs. flat-power or power-over vs. power-to perspectives). The course will also explore what it means to have privilege and build awareness of the impact that it has in our lives. This course will enable students to understand multiple social issues and to develop their own perspective about why some have more than others. Prerequisites: PSYC101N, ANTH110N, or SOCI101N or permission of program coordinator or Department Chair.

SOCI250N Societal Approaches to Health Care Systems 3 Credits

Today's health care providers must not only be competent in the skills required by their role in health care delivery; they must also understand and function adaptively in the complex system(s) within which they work. A large portion of health-related decisions are made not by the patient and/or care provider, but by legislators, insurers, institutions, and others who lack the information available from those delivering direct and indirect health care. Care providers need a background in public policy and the U.S. health care system in order to understand how it has evolved, how it affects health care delivery, and how to influence its future course. Prerequisite: ENGL101N or ENGL110N.

SOCI260N Special Topics in Sociology 3 Credits

This course provides students with an opportunity to learn about an area not covered by existing courses in the social science curriculum. While the topics may vary from semester to semester depending on faculty and student interest, this course emphasizes a core set of essential skills common to all sociology courses at Nashua Community College. A course description will be made available prior to the start of registration. Prerequisites: ENGL101N or ENGL110N, and SOCI101N or ANTH110N.

SPAN105N Spanish I 3 Credits

An introductory course for the first year language study that takes a communicative, functional approach to learning Spanish at the college level. The course includes grammar, conversation, culture, and readings. At the end of the course the student will be able to speak and write basic Spanish. Students who have taken two or more years of high school Spanish will be required to take a Spanish placement test. **This course fulfills a General Education Core Requirement: Global Awareness.**

SPAN106N Spanish II 3 Credits

Spanish II initially reviews, then builds on the simple sentence structures and vocabulary learned in Spanish I. Students will understand and converse in day-to-day Spanish and know basic aspects of various Hispanic cultures. Students will also read authentic materials and basic literature, and will write letters and short essays. Course activities accommodate all learning styles and are both innovative and relevant to student experiences. Video materials bring Spanish to life for students by illustrating in context the grammar and vocabulary students are learning. Prerequisite: SPAN105N or Spanish placement test score of 75 or higher.

SPLN111N Speech & Language Development 3 Credits

The information presented in this course concerns the language development of children throughout the course of their development. Beginning with a review of child and language

development theories, the course will follow the way a child acquires the sounds, meanings, and grammar/syntax of their native language as well as the ways a child learns to use language to communicate with others. There will be a focus not only on early language development but also on the higher order language constructs that are typically seen in children in their later school years. Social and pragmatic skill development will also be discussed. There will also be discussions regarding language diversity and the importance of literacy to language learning.

SPLN112N Anatomy and Physiology of the Speech and Hearing Mechanism 3 Credits

This course provides a basic introduction to anatomy and physiology of the mechanisms involved in speech production and hearing. Functional aspects of the five interactive components of speech (respiration, phonation, articulation, audition and the nervous system) are discussed.

SPLN114N Survey of Communication Disorders 3 Credits

This course introduces the student to the profession of Speech-Language Pathology while focusing on the role of the Speech-Language Pathology Assistant. Basic concepts and terminology central to the recognition and management of various communication disorders are presented. Disorders of language, articulation, voice, fluency, and hearing are discussed. Relevant assistive technology will be introduced. Prerequisite: Minimum grade of 'C' in SPLN111N.

SPLN115N Phonetics 3 Credits

Students will learn how the speech sounds of American English are produced, described, and classified. Theories of phonological analysis will be presented, including distinctive features and phonological processes as well as intonation patterns and dialect variations. In addition, students will learn the sound-symbol correlations of the International Phonetic Alphabet and apply this knowledge to the transcription of normal and disordered speech. Prerequisites: SPLN111N, SPLN112N.

SPLN121N Language Disorders 3 Credits

This course addresses deficits in the content, form, and use of the native language that result in ineffective communication. Etiology and evaluation of disorders in listening comprehension and oral expression are presented, and clinical/technical skills are emphasized. Prerequisites: Minimum Grade of 'C' in SPLN111N, SPLN114N.

SPLN123N Articulation and Phonological Disorders 3 Credits

Instruction will include normal articulation and phonological development, etiologies, assessment, and treatment of articulation and phonological disorders. Theory and clinical skills will be emphasized. Prerequisites: Minimum Grade of 'C' in SPLN111N, SPLN114N, SPLN112N, SPLN115N.

SPLN220N Advanced Communication Disorders 3 Credits

This course will focus on three selected topics which are areas that those working in the SLPA/SLP field have requested more in-depth knowledge. The selected topics may include, but not be limited to: Alternative and Augmentative Communication (AAC),

Motor Speech Disorders, Acquired Disorders of Language, Cognitive-Linguistic Disorders in Traumatic Brain Injury (TBI), Autism, Fluency, Dysphagia, Central Auditory Processing Disorders, and Aural Rehabilitation. Each of the three selected topics will be covered in 5 classes. Prerequisites: A minimum grade of 'C' in SPLN121N, SPLN123N; Corequisite: PSYC206N.

**SPLN221N Clinical Procedures in
Speech-Language Pathology 3 Credits**

This course emphasizes how to provide direct therapy incorporating principles of learning theory and behavioral modification. The students will be trained in observing and recording speech and language behaviors, in tracking and reporting progress, and developing and implementing treatment activities based on treatment plans developed by speech and language pathologists. Prerequisites: Minimum grade of 'C' in SPLN220N.

**SPLN290N Seminar in Speech-Language
Pathology: Capstone Course 2 Credits**

This seminar provides a guided student exchange on trends, roles, and issues found in the discipline of communication disorders related to practicum/fieldwork experiences. Prerequisites: Minimum grade of 'C' in SPLN221N; Corequisite: SPLN291N, SPLN292N

**SPLN291N Speech-Language Pathology
Assistant Practicum I 1 Credit**

The student will work in an approved setting under the supervision of an ASHA-certified Speech and Language Pathologist. This practicum course will provide thirty-four hours of direct client contact, giving students comprehensive experience in the application of knowledge and therapeutic intervention skills acquired in previous coursework. Periodic conferences between the site supervisor and the practicum coordinator are scheduled to monitor and evaluate student progress. Fifteen hours of educational/observational activities will also be credited as part of the fieldwork experience. Prerequisites: Minimum grade of 'C' in all Speech-Language Pathology Assistant coursework, PSYC206N, and approval of the Practicum Coordinator. Prerequisite or corequisite: SPLN290N.

**SPLN 292N Speech-Language Pathology
Assistant Practicum II 2 Credit**

The student will work in an approved setting under the supervision of an ASHA-certified Speech and Language Pathologist. The practicum course will provide sixty-six hours of direct client contact, giving students comprehensive experience in the application of knowledge and therapeutic intervention skills acquired in previous coursework. Periodic conferences between the site supervisor and the practicum coordinator are scheduled to monitor and evaluate student progress. Twenty-nine hours of educational/observational activities will also be credited as part of the fieldwork experience. Prerequisites: Minimum grade of 'C' in all Speech-Language Pathology Assistant coursework, PSYC206N, and approval of the Practicum Coordinator. Prerequisite or corequisite: SPLN290N.

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Ph.D., University of Kansas

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Emeriti Administration

Keith W. Bird, Ph.D.

President-Emeritus 1995-1997

Robert E. Bloomfield

President-Emeritus 1970-1995

2018 - 2019

STUDENT CALENDAR

Fall Semester 2018 August 27, 2018 - December 14, 2018

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|-----------------|---|
| August 13: | Tuition Due for Fall 2018 Semester |
| August 27: | Fall Semester Classes Begin |
| September 3: | Labor Day Holiday |
| September 4: | Last Day to Add Full Semester Classes (except online) without Instructor Permission |
| September 4: | Last Day to Withdraw with a Full Refund from First-half Semester Courses (8/27 - 10/19/2018) |
| September 10: | Last Day to Withdraw with a Full Refund (Full Semester Courses) |
| September 14: | Last Day to Resolve "I" Grades from Summer Term |
| September 28: | Last Day to Withdraw with a Grade of "W" from First-half Semester Courses (8/27 - 10/19/2018) |
| October 12: | Last Day to Withdraw with a Grade of "WP/WF" from First-half Semester Courses (8/27 - 10/19/2018) |
| October 22: | Second-Half Semester term begins (10/22 - 12/14/2018) |
| October 22: | Final Grades (First-half Semester) due to Registrar's Office no later than 10 a.m. |
| October 29: | Last Day to Withdraw with a Full Refund from Second-half Semester Courses (10/22 - 12/14/2018) |
| November 1: | Last Day to Withdraw with a Grade of "W" (Full Semester Courses) |
| November 12: | Veterans' Day Holiday Observed - No classes |
| November 21: | No Evening Classes |
| November 22-23: | Thanksgiving - No classes (including Saturday Classes) |
| November 26: | Last Day to Withdraw with a Grade of "W" from Second-half Semester Courses (10/22 - 12/14/2018) |
| December 7: | Last Day to Withdraw with a Grade of "WP/WF" (Full Semester Courses) |
| December 7: | Last Day to Withdraw with a Grade of "WP/WF" from Second-half Semester Courses (10/22 - 12/14/2018) |
| December 10-13: | Finals |
| December 14: | Fall Semester Ends |
| December 19: | Final grades available for viewing on Student Information System |

2018 - 2019

STUDENT CALENDAR

Spring Semester January 22, 2018 – May 10, 2018

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|--------------|---|
| January 8: | Tuition Due for Spring 2019 Semester |
| January 21: | Martin Luther King Holiday/Civil Rights Day |
| January 22: | Spring Semester Classes begin |
| January 22: | Last Day to Add Full Semester Classes (except online) without Instructor Permission |
| January 28: | Last Day to Withdraw with a Full Refund from First-half Semester Courses (1/22 - 3/15/2019) |
| February 4: | Last Day to Withdraw with a Full Refund (Full Semester Courses) |
| February 8: | Last Day to Resolve "I" Grades from Fall Term |
| February 18: | Presidents Day Holiday – No Classes |
| February 22: | Last Day to Withdraw with Grade of W from First-half Semester Courses (1/22 - 3/15/2019) |
| March 8: | Last Day to Withdraw with Grade of "WP/WF" from First-half Semester Courses (1/22 - 3/15/2019) |
| March 18-22: | Spring Break |
| March 25: | Second-Half Semester term begins (3/25 - 5/10/2019) |
| April 1: | Last Day to Withdraw with a Full Refund from Second-half Semester Courses (3/25 - 5/10/2019) |
| April 1: | Last Day to Withdraw with a Grade of "W" (Full Semester Courses) |
| April 22: | Last Day to Withdraw with a Grade of "W" from Second-half Semester Courses (3/25 - 5/10/2019) |
| May 3: | Last Day to Withdraw with a Grade of "WP/WF" (Full Semester Courses) |
| May 3: | Last Day to Withdraw with a Grade of "WP/WF" from Second-half Semester Courses (3/25 - 5/10/2019) |
| May 7-10: | Finals |
| May 10: | Spring Semester Ends |
| May 15: | Final grades available for viewing on Student Information System |
| May 18: | Graduation 11 a.m. |

Nashua Community College (NCC) is one of the seven colleges in the Community College System of New Hampshire.
For more information about CCSNH, call 800.247.3420.

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Nashua Community College is a smoke-free campus. This catalog is current as of September 1, 2018

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