

NHTI—Concord's Community College

Academic Catalog 2019-2020



www.nhti.edu

DISCLAIMER: The information contained in this catalog is to be used as a guide to NHTI—Concord's Community College for the students, staff members, prospective students and other educational institutions. All information including but not limited to: costs, rules, regulations, program requirements, course content and staff, is subject to change at any time. The college reserves the right to modify aspects of college operations as well as to change tuition and other charges without notice.

Limitations: The information contained in this catalog is to be used as a guide to NHTI—Concord's Community College for its students, staff members, prospective students and other educational institutions. Information provided in the publication is reflective of that which is in effect at the time of preparation July 19, 2019. Program information, program requirements as well as information on policies, courses and fees are subject to change without notice. An Addendum containing updated information not included in this publication is available at the Academic Affairs Office of NHTI—Concord's Community College. NHTI—Concord's Community College reserves the right to cancel, postpone, or combine class sections, to limit registrations, as well as change instructors.

Table of Contents

| | | | |
|---|-----------|---|------------|
| Table of Contents | 3 | Cross Cultural Opportunities..... | 25 |
| Academic Programs (Alphabetical) | 4 | Campus Life | 26 |
| Degree and Professional Certificate Programs | 4 | Student Activities | 26 |
| Certificate Programs | 4 | Intercollegiate Athletics | 26 |
| Academic Calendar..... | 5 | Intramural Sports and Wellness Center | 26 |
| Welcome Message | 7 | Orientation Program..... | 26 |
| Mission/Vision/Values Statement | 7 | Residence Life..... | 26 |
| Educated Person Statement of Philosophy | 8 | Student Organizations | 26 |
| Accreditations and Memberships | 9 | Student Leadership..... | 26 |
| Admission..... | 11 | Student Senate | 26 |
| Financial Aid | 16 | Campus Services..... | 27 |
| Tuition and Fees..... | 17 | Bookstore | 27 |
| Residence Hall Costs | 18 | Campus Safety | 27 |
| Payment and Refund Policies..... | 19 | Community Service..... | 27 |
| Payment of Tuition and Fees | 19 | Counseling Services | 27 |
| Third Party Payments | 19 | Food Service..... | 27 |
| Delinquent Accounts Collections Policy | 20 | Health Services..... | 27 |
| NHTI Refund Policies | 20 | Programs of Study..... | 28 |
| Residence Hall Policies | 20 | Complete Listing of Academic Programs by Department.. | 28 |
| New Hampshire Residency Status..... | 22 | General Education Courses | 30 |
| New England Residency Status | 22 | Arts, Humanities and Communications..... | 32 |
| Military/Veterans Education Benefits | 22 | Business and Accounting | 38 |
| Tuition Rate for Military/Veterans | 22 | Education..... | 94 |
| Books and Supplies..... | 23 | Health Sciences and Services | 44 |
| Protested Check Policy (Insufficient Funds Check) | 23 | Hospitality | 76 |
| Academic Support Services..... | 24 | Social, Educational and Behavioral Sciences..... | 83 |
| Library | 24 | STEM (Science, Technology, Engineering & Math) ... | 115 |
| Academic Advising Center..... | 24 | About NHTI | 153 |
| Career Counseling and Placement Services..... | 24 | Statement of Nondiscrimination..... | 154 |
| Academic Center for Excellence (ACE)..... | 24 | Flexible Learning Options | 155 |
| Accessibility Services | 25 | Business Training Center..... | 155 |
| Placement Testing..... | 25 | | |

Academic Programs (Alphabetical)

Degree and Professional Certificate Programs

| | |
|---|-----|
| Accounting | 38 |
| Addiction Counseling | 83 |
| Advanced Manufacturing Process Technology | 136 |
| Animation and Graphic Game Programming | 125 |
| Architectural Engineering Technology | 140 |
| Biology | 115 |
| Business Administration | 40 |
| Civil Engineering Technology | 142 |
| Computer Engineering Technology | 144 |
| Criminal Justice | 85 |
| Dental Assisting (Professional Certificate) | 44 |
| Dental Hygiene | 46 |
| Diagnostic Medical Sonography (Professional Certificate) | 51 |
| Early Care and Education for Young Children with Disabilities | 95 |
| Early Childhood Education | 98 |
| Education | 105 |
| Electronic Engineering Technology | 146 |
| English | 32 |
| Environmental Sciences | 116 |
| General Studies | 33 |
| Health Science | 57 |
| Nutrition and Wellness Concentration | 58 |
| Hospitality and Tourism Management | 77 |
| Human Service | 86 |
| Human Service Option | 86 |
| Mental Health Option | 87 |
| Gerontology Option | 87 |
| Industrial Design Technology | 148 |
| Information Technology – Networking | 128 |
| Information Technology – Software Development | 129 |
| Landscape and Environmental Design | 118 |
| Liberal Arts | 33 |
| Manufacturing Engineering Technology | 149 |
| Mathematics | 152 |
| Mechanical Engineering Technology | 150 |
| Nursing (Associate Degree) | 61 |
| Generic Option | 62 |
| LPN-RN Completion Option | 63 |
| Orthopaedic Technology | 66 |
| Paralegal Studies | 89 |
| Paramedic Emergency Medicine | 69 |
| Radiation Therapy | 52 |
| Radiologic Technology | 55 |
| Recreation and Leisure Studies | 79 |
| Robotics and Automation Engineering Technology | 151 |
| Sustainable Agriculture | 120 |
| Sustainable Agriculture Degree with Certificate Option | 121 |
| Sustainable Agriculture Degree with Transfer Option | 122 |
| Sports Management | 42 |
| Visual Arts | 37 |

Certificate Programs

| | |
|--|-----|
| Accounting (Basic) | 39 |
| Accounting (Advanced) | 39 |
| Advanced Manufacturing Processes | 138 |
| Advanced Human Service | 84 |
| Advanced Software Development | 124 |
| Applied Career Fundamentals for Advanced Manufacturing | 139 |
| Building Inspector and Plans Examiner | 141 |
| Career & Technical Education Alternative Certification | 94 |
| Coaching | 44 |
| Computed Tomography | 49 |
| Computer Aided Design – Architectural Concentration | 143 |
| Computer Technology Programming (Advanced) | 145 |
| Digital Communications | 76 |
| Early Childhood Education | 101 |
| Early Childhood Education (Advanced) | 102 |
| Education | 106 |
| Electronic Technology | 147 |
| English Speakers of Other Languages (ESOL) | 107 |
| Entry Level Software Development | 127 |
| Event/Conference Management | 76 |
| Game Development Programming | 127 |
| Hotel Administration | 78 |
| Human Service | 88 |
| Information Technology Entry Level Networking | 130 |
| Information Technology Hardware and Software | 131 |
| Information Technology Microsoft Servers | 131 |
| Information Technology Network Associate | 132 |
| Information Technology Networking | 132 |
| Information Technology Security | 133 |
| Information Technology Software Development | 133 |
| Information Technology Tech Support | 134 |
| Information Technology Virtualization | 134 |
| Information Technology VoIP (Voice Over IP) | 135 |
| Landscape Design | 119 |
| Legal Nurse Consultant | 60 |
| Linux | 135 |
| Management | 41 |
| Medical Coding | 59 |
| Mindful Communication | 36 |
| Orthopaedic Technology | 68 |
| Paralegal Studies | 90 |
| Radiation Therapy | 53 |
| Recreation and Leisure Studies | 80 |
| Special Education | 108 |
| Sports Management | 43 |
| Substance Use Disorder Treatment (SUD Tx) | 92 |
| Sustainable Agriculture Technology | 122 |
| Teacher Education Conversion Programs | 109 |
| Travel and Tourism | 80 |
| Wedding Planning Management | 81 |
| Young Children with Autism and Exceptionalities | 114 |

Academic Calendar

For most up-to-date and comprehensive academic calendar, go to

www.nhti.edu/academics/academic-calendar

Fall Semester 2019

August

- 12 Tuition due for Fall 2019 semester
- 14 New Student Orientation/Registration
- 15 New Student Orientation/Registration
- 15 Open House 4:30 – 6:30 pm
- 25 Residence Halls open to new and returning students at 12:00 Noon
- 26 Full semester Day, Evening, Online classes begin
- 26 First ½ semester classes begin (end October 18)
- 26 Last day to add a first ½ semester class without instructor permission
- 26 Last day to add a full semester Online class without instructor permission

September

- 2 Labor Day holiday – NHTI closed
- 3 Last day to add a full semester class without instructor permission
- 3 Last day to drop a first ½ semester Day/Evening class with a refund
- 9 Last day to drop a full semester Day/Evening class with a refund
- 10 Convocation - all NHTI
- 10 Activities Fair and Campus Barbecue
- 13 Last day to resolve 'I' grades for summer classes
- 23 Mid semester warning grades available on SIS for first ½ semester classes
- 27 Last day to drop a first ½ semester course with a "W"

October

- 14 Columbus Day - All classes meet
- 15 CCSNH – No Day Classes
- 18 First ½ semester classes end
- 21 Mid semester warning grades available on SIS for full semester classes
- 21 Final course grades available on SIS for first ½ semester classes
- 21 Second ½ semester classes begin (end December 13)
- 21 Last day to add a second ½ semester class without instructor permission
- 23 Open House at 4:30 – 6:30 pm
- 28 Last day to drop a second ½ semester class with a refund
- 30 Last day to drop a full semester course with a "W" grade
- 30 60% completion for Financial Aid requirements

November

- 3 Daylight Savings Time ends; set clocks back one hour
- 11 Veterans' Day holiday – NHTI closed
- 12 Registration for Spring 2020 Semester Begins
- 18 Mid semester warning grades available on SIS for second ½ semester classes
- 25 Last day to drop a second ½ semester class with a "W" grade
- 27 Residence Halls close at 5:00 pm
- 27 No Evening Classes
- 28-29 Thanksgiving holiday – NHTI closed

December

- 1 Residence Halls re-open at 12:00 Noon
- 2 Classes Resume
- 6 Last day of full-semester Day Classes
- 9-12 Final Exams for full semester Day Classes
- 12 Residence Halls close at 5:00 pm
- 13 Snow Day for Final Exams
- 13 Last day of Evening & Online classes
- 18 Final Grades available for students on SIS
- 24 Chancellor's Holiday – NHTI closed
- 25 Christmas Holiday – NHTI closed

Spring Semester 2020

January

- 1 New Year's holiday – NHTI closed
- 7 Tuition due for the Spring 2019 semester
- 14 New Student Orientation/Registration
- 15 Snow Date – New Student Orientation/Registration
- 20 Residence Halls open at 12:00 Noon
- 20 Martin Luther King, Jr./Civil Rights Day holiday - NHTI closed
- 21 Full semester Day, Evening, Saturday, Online classes begin
- 21 First ½ semester classes begin (end March 13)
- 21 Last day to add a first ½ semester class without instructor permission
- 21 Last day to add a full semester online class without instructor permission
- 27 Last day to add a full semester class without instructor permission
- 27 Last day to drop a first ½ semester class with a refund

February

- 3 Last day to drop a full semester class with a refund
- 7 Last day to resolve 'I' grades for fall semester classes
- 17 Mid semester warning grades for first ½ semester classes available on SIS
- 17 Presidents' Day holiday - No Day Classes; Evening classes Meet
- 21 Last day to drop a first ½ semester class with a "W" grade

March

- 8 Daylight Savings Time begins; set clocks ahead 1 hour
- 13 First ½ semester classes end
- 13 Residence Halls close at 5:00 pm
- 14-22 Spring Break; No Day or Evening classes
- 16 Final course grades for first ½ semester classes available on SIS
- 16 Mid semester warning grades for full semester classes available on SIS
- 16 Second ½ semester Online classes begin (end May 8)
- 16 Last day to add a second ½ semester Online class without instructor permission
- 22 Residence Halls re-open at 12:00 Noon
- 23 Classes resume
- 23 Second ½ semester Day & Evening classes begin (end May 8)
- 23 Last day to add a second ½ semester Day/Evening class without instructor permission
- 23 Last day to drop a second ½ semester Online class with a refund
- 23 Registration for Summer & Fall 2019 Semesters Begins
- 30 Last day to drop a second ½ semester Day/Evening class with a refund
- 30 Last day to drop a full semester course with a "W" grade
- 30 60% completion for Financial Aid requirements

April

- 13 Mid semester warning grades available on SIS for second ½ semester classes
- 17 Last day to drop a second ½ semester online class with a "W" grade
- 20 Last day to drop a second ½ semester day/evening class with a "W" grade

May

- 4 Last day for full-semester Day Classes
- 5-8 Final Exams for full-semester Day Classes
- 8 Last day of Evening & Online classes for Spring semester
- 8 Residence Halls close at 5:00 pm
- 12 Final course grades available on SIS
- 22 Commencement at 10:00 am

Summer Session 2020

Unavailable at publication print date. Visit <https://www.nhti.edu/academics/academic-calendar> for the most up-to-date academic calendar.

Welcome Message

Student success, open access and affordability are the tenets of NHTI—Concord’s Community College. With over 90 degree and certificate programs, our 4,600 students have incredible opportunities to prepare for high-demand workforce careers in STEM, including robotics and engineering; health fields, including our competitive dental and nursing programs; and information technology, such as our networking, game development and security certificate programs. Additionally, students earn general education credits that transfer to our 4-year institutional partners throughout the state and region. Our mission reflects our student-centered focus with opportunities for students to develop leadership abilities, marketable skills while enjoying a robust student life with residence halls, athletics, theater productions, lecture series and more! At NHTI, students have opportunities for meaningful workstudy employment, and scholarships, and we ensure tuition and expenses are the lowest in New Hampshire's higher education.

What we are most proud of are our students, who are the heart and soul of our college. Learning from our dedicated faculty, staff and administration, we are committed to helping our students achieve their personal and academic goals. Please take some time to learn about the college. Stop by our beautiful, riverside campus and picture yourself as a student here. When you come, you are invited to visit and meet with our students and faculty or staff. NHTI is the best place to help you develop your careers and your futures; as we proudly state: “Start here . . . go anywhere!”

NHTI is a comprehensive community college accredited by the New England Commission of Higher Education (NECHE).

Mission/Vision/Values Statement

WE ARE ALL TEACHERS. WE ARE ALL LEARNERS.

MISSION

NHTI is a dynamic public institution of higher learning providing accessible, rigorous education, serving students, businesses, and the community by creating pathways for lifelong learning, career advancement, and civic engagement.

VISION

By strengthening and expanding partnerships across the education and business spectrum, NHTI will create an environment that fosters innovative teaching and learning, supports economic vitality, and meets the needs of a diverse community of global citizens.

VALUES

These values support our Mission and Vision:

| | |
|-----------------------|---|
| Learning | We foster intellectual curiosity and the application of knowledge to promote lifelong critical and creative thinking. |
| Mutual respect | We encourage an environment in which civility, humor, kindness, and collegiality cultivate an open exchange of ideas. |
| Engagement | We actively seek interaction, collaboration, and partnership with individuals, businesses, and community organizations for mutual enrichment in a diverse community and global economy. |
| Accountability | We are committed to individual and institutional responsibility in the stewardship of our human, physical, and fiscal resources. |
| Innovation | We support responsible risk-taking and the pursuit of new ideas to thrive in an evolving world. |
| Integrity | We expect all members of the college community to demonstrate fairness, honesty, and ethical behavior in all of their actions and interactions. |

Revised Fall 2013

Educated Person Statement of Philosophy

Acknowledging that students will not only be workers but also citizens, family members, consumers, and life-long learners in a democratic society, NHTI seeks to foster in its students an understanding of the intellectual, cultural, aesthetic, economic and social dimensions of the world in which they live. While our students learn not only the technical theory and practice which will make them successful in their work, they also learn to analyze those ideas and values which will enable them to participate fully in the culture of their community. With this philosophy as a guide, therefore, NHTI stresses the acquisition of knowledge and skills which will allow students to be successful in a variety of roles: workers, students, community members, leaders, consumers, etc. Therefore, we commit ourselves to the following outcomes which we feel define the educated person:

1. demonstrates the values of integrity, responsibility, perseverance, tolerance of ambiguity, and appreciation for diversity;
2. reads, writes, speaks, and listens on a level that will facilitate the ability to work in a discipline and participate and contribute in a democratic community;
3. demonstrates a process for gathering, evaluating and applying information rationally and consistently to guide moral and ethical behavior;
4. demonstrates an understanding of diverse ideas, emotions and modes of expression, as expressed through literature and the arts;
5. evaluates the effect of historical trends, events, institutions, and social systems on society;
6. recognizes own strengths and weaknesses as a learner, and develops strategies for time management, documentation, evaluation processes, and personal improvement;
7. performs mathematical operations necessary to be competent in both a personal and professional setting;
8. demonstrates scientific thought, both quantitatively and qualitatively, by learning to recognize and formulate questions for analysis of human and technical problems;
9. demonstrates basic applications of computer technology to be competent on both a professional and personal level.

Accreditations and Memberships

Accreditations

Institutional

NHTI is accredited by the New England Commission of Higher Education (NECHE).

Accreditation of an institution of higher education by the Commission 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 Commission 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 status of NHTI's accreditation by the NECHE should be directed to NHTI's Office of Academic Affairs Office at (603)230-4020. A hard copy of the most recent Accreditation Self-Study Report may be viewed at the NHTI Library or by contacting the Office of Academic Affairs.

Individuals may also contact:

New England Commission of Higher Education
3 Burlington Woods Drive, Suite 100, Burlington, MA 01803-4514
(781) 425-7785

E-Mail: cihe@neche.org

NHTI has been accredited since 1969. Initial accreditation was through the Commission on Technical and Career Institutions (CTCI). In 2001, NHTI earned accreditation from the New England Association of Schools and Colleges (NEASC), Inc's, Commission on Institutions of Higher Education (CIHE). In 2018, NEASC became New England Commission of Higher Education (NECHE).

To view NHTI's accreditation history with NECHE, please visit their website at <https://www.neche.org/institution/nhti-concords-community-college/>

Specialized Accreditations

Accounting - Accreditation Council for Business Schools and Programs (ACBSP)*

Architectural, Computer, Electronic, Manufacturing and Mechanical Engineering Technologies - Accredited by the ETAC Commission of ABET, www.abet.org

Business Administration - Accreditation Council for Business Schools and Programs (ACBSP)*

Dental Assisting - The program in dental assisting is accredited by the Commission on Dental Accreditation and has been granted the accreditation status of "approval without reporting requirements". The Commission is a specialized accrediting body recognized by the United States Department of Education. The Commission on Dental Accreditation can be contacted at (312) 440-4653 or at 211 East Chicago Avenue, Chicago, IL 60611. The Commission's web address is: <http://www.ada.org/en/coda>.

Dental Hygiene - The program in dental hygiene is accredited by the Commission on Dental Accreditation and has been granted the accreditation status of "approval without reporting requirements". The Commission is a specialized accrediting body recognized by the United States Department of Education. The Commission on Dental Accreditation can be contacted at (312) 440-4653 or at 211 East Chicago Avenue, Chicago, IL 60611. The Commission's web address is: <http://www.ada.org/en/coda>.

Diagnostic Medical Sonography - Commission on Accreditation of Allied Health Education Programs (CAAHEP)

Child & Family Development Center - National Association for the Education of Young Children (NAEYC)

Hospitality and Tourism Management - Accreditation Council for Business Schools and Programs (ACBSP)*

Legal Nurse Consultant - Approved by the American Bar Association

Nursing - The NHTI Nursing Associate Degree program is approved by the New Hampshire Board of Nursing (NHBON), 121 South Fruit Street, Concord, NH 03301;(603) 271-2323; www.nh.gov/nursing. The Program is also accredited by the Accreditation Commission for Education in Nursing (ACEN), 3343 Peachtree Road NE, Suite 850, Atlanta, GA 30326; (404) 975-5000; www.acenursing.org.

Orthopaedic Technology - Recognized by National Association of Orthopaedic Technologists (NAOT)

Paralegal Studies - Approved by American Bar Association as a legal assistant education program

Paramedic Emergency Medicine - Accredited by the Commission on Accreditation of Allied Health Education Programs (www.caahep.org) upon the recommendation of the Committee on Accreditation of Educational Programs for the Emergency Medical Services Professions (CoAEMSP).

Radiation Therapy - Joint Review Committee on Education in Radiologic Technology (JRCERT)

Radiologic Technology - Joint Review Committee on Education in Radiologic Technology (JRCERT)

Sports Management - Accreditation Council for Business Schools and Programs (ACBSP)*

Teacher Education Conversion Programs - New Hampshire State Board of Education

* The most recent report to ACBSP on student learning and academic achievement in NHTI business programs is available at www.nhti.edu/docs/busstudassess.pdf

Affiliations and Memberships

NHTI is one of the seven colleges of the [Community College System of New Hampshire](#), the public system of comprehensive community colleges that serves all of New Hampshire.

NHTI is a full institutional member of the [American Association of Community Colleges](#) and the [League of Innovation](#). NHTI also has [National League for Nursing](#) agency membership in the Council of Associate Degree Programs. Memberships are also held in the [New England Association for College Admission Counseling](#), [National Association for College Admission Counseling](#), [New England Board of Higher Education](#), [Institute of Electrical and Electronics Engineers](#), [National Association of Colleges](#) and [American Society for Engineering Education](#). The College is a member of [Campus Compact for New Hampshire](#). NHTI is affiliated with the New Hampshire Forum on Higher Education with the [New Hampshire College and University Council](#) (the membership of the Community College System of NH). NHTI is a member of the [National Collegiate Honors Council](#).

NHTI's intercollegiate athletics program is a member of, and its teams compete in, the [Yankee Small College Conference \(YSCC\)](#), and the [United States Collegiate Athletic Association \(USCAA\)](#).

Admission

Applying to NHTI

Admission to NHTI and its academic programs is based on a number of considerations. Waiver of any portion of either general NHTI admission requirements or specific program admission requirements due to special situations may be achieved only through consultation with the specific Department Chairs and the Director of Admissions. To apply to NHTI:

1. **Choose a program of study.** See page 28 for a complete list of associate degree, diploma, professional certificate and certificate programs. If you have questions or need help deciding on a program, contact the Admissions Office.
2. **Complete the application for admission** online at <https://www.nhti.edu>. For a paper application, contact the Admissions Office at (603) 230-4011, (800) 247-0179 or nhtiadm@ccsnh.edu, or download the application at <https://www.nhti.edu/admissions>.
3. **Apply for federal financial aid** at <https://www.nhti.edu/admissions/financial-aid>.

Fees

- Students accepted into following programs: Dental Assisting, Dental Hygiene, Diagnostic Medical Sonography, Nursing (RN & LPN-RN Option), Orthopaedic Technology (Degree & Certificate), Paramedic Emergency Medicine, Radiation Therapy (Degree & Certificate), and Radiologic Technology) must submit a non-refundable \$100 tuition deposit to secure their spot in the program to which they were accepted. This deposit will be credited toward first semester tuition.
- Students who have been formally accepted into a program and who wish to be considered for a room in a Residence Hall on campus must submit the \$100 housing deposit with the residence hall application; the tuition and housing deposits must both be paid in order for the application to be considered.
(See *Residence Life* at <https://www.nhti.edu/student-life/residence-life>)

General Admission Requirements

1. Have official transcripts forwarded to NHTI by secondary and postsecondary institutions previously attended (**Note: It is the applicant's responsibility** to request that official transcripts of previous study be mailed directly to the Admissions Office);
2. Submit a copy of your high school equivalency certificate, if applicable, including scores and official transcripts reflecting completed school work and grades prior to leaving school;
3. Perform satisfactorily on any entrance examinations required by the academic program to which admission is desired;
4. Complete all additional requirements as indicated in the "Specific Admission Requirements" for the desired program, which are listed on each program page;
5. Though not required for admission to any program, it is recommended that the scores of one of the standardized national college admission tests (SAT or ACT) be forwarded to the Admissions Office if the scores are no more than 5 years old. Test scores provide an additional piece of information that expands our knowledge of a student's academic background and may be used to waive ACCUPLACER placement testing. Because standardized test scores are only one means of evaluating applicants, no specific minimum score is required. Students considering transfer to four-year institutions are especially urged to submit SAT scores since the transfer institution may require them;
6. Arrange for personal interview if required; and
7. Submit to Health Services such certification of good health by a health care provider as required by a specific program **and** NHTI **before** registering for classes. You may visit the Health Services website at <https://www.nhti.edu/student-life/health-and-counseling-services/health-services>.

Send transcripts to:

NHTI—Concord's Community College
Admissions Office
31 College Drive
Concord, New Hampshire 03301-7412

Specific Program Requirements

Programs may have additional admission requirements which are listed on the academic program pages. Applicants are responsible for knowing these requirements, any specific deadlines, and submitting appropriate documents as noted. Students who do not meet the specific academic prerequisite course requirements for their desired program may be offered admission to either the Associate in Science in General Studies program (for those pursuing an allied health degree), or the Associate in Arts in Liberal Arts program, and take these prerequisite courses at NHTI. Grades of "C" or higher are required in each prerequisite course, in addition to fulfillment of the other general and specific requirements, to be considered for the acceptance into the desired program.

Professional Certificate and Certificate Programs

Students seeking to earn a certificate should consult the “Programs of Study” section of this catalog to determine specific entrance requirements, if any, for the program in which they are interested. As with Associate degree programs, students must formally apply to, and be accepted into, a professional certificate or certificate program in order to be eligible for federal financial aid and in order to receive their certificates upon completion of program requirements.

Placement Testing

Students entering degree programs at NHTI are required to complete [placement testing](#) before registering for classes. Testing may be waived based on performance on standardized tests and/or grades in specific college courses. Department Chairs of academic programs will use testing data to help advise students in course selection. Both national and NHTI data indicate that students benefit from assessment and placement. For more information, students may contact Admissions at (603) 230-4011, the Academic Center for Excellence (ACE) at (603) 230-4027, or the Department Chair of the program in which they are interested or to which they have been admitted.

Students who submit SAT scores no more than five years old may be waived from taking certain placement tests. A Math SAT score of 530 or higher places a student directly into college-level Math and waives the student from taking the math placement test. A Critical Reading and Writing SAT score of 480 or higher waives a student from taking the reading placement test. An Essay SAT score range of 6 – 8 places a student directly into college-level English and waives the student from taking the writing placement test. All SAT scores should be submitted to Admissions prior to or at the point of acceptance in order to better facilitate registering for first semester courses.

A student may be eligible to substitute a higher-level course for the course prescribed in the curriculum if indicated by an evaluation of the student’s competencies. The substitution can be made only with the joint approval of the student’s Department Chair and the Department Chair of the area offering the course. The approval form is available in the Registrar’s Office. This does not negate the student’s responsibility to fulfill prerequisites.

International Students

In addition to the General Admission Requirements and Specific Admission Requirements for the desired program, international students must submit the following:

1. Official transcripts of all secondary school and university academic records; if transcripts are not in English, they must be accompanied by an official English translation.
2. Applicants whose native language is not English* must take the Test of English as a Foreign Language (TOEFL) and earn a score of:
 - 500 or higher on the paper-based test; or
 - 173 or higher on the computer-based test; or
 - 61 or higher on the internet-based test.
3. Inquiries regarding the test should be addressed to: TOEFL, Educational Testing Service, Box 899, Princeton, NJ 08540, USA or www.ets.org. Official TOEFL scores must be sent directly from the testing site to the Admissions office. Students earning a TOEFL score lower** than those listed above may be evaluated for language study.
4. Letter of support from the person(s) who will be financially responsible for the student; letter should include student’s name, intent to attend NHTI—Concord’s Community College and the amount of money available, must be in English and funds must be stated in US dollars.
5. Letter from the financial institution which holds funds of the person(s) financially responsible for the student; statement should be on official letterhead, indicate the sponsor’s and student’s names, the amount of money available for the student stated in US dollars and be in English.
6. Copies of current passport and immigration documents including current visa, Duration of Status (D/S) card, I-20, etc.
7. All International Students must also submit a one-time International Student Admissions fee of \$100 at the time of application.
8. International Students currently in the US with an F-1 visa at another college must forward official transcripts from that college and submit an International Student Transfer form, available from the Admissions Office or online at:
<https://www.nhti.edu/sites/default/files/content/documents/intertrans.pdf>

Health care in the United States is expensive; all International Students are required to submit proof of health insurance to the Health Services Department prior to registration. A listing of insurance companies is available here:

<https://www.nhti.edu/sites/default/files/content/documents/interins.pdf>

Dollar amounts promised by the sponsor and available in the sponsor’s bank account should be sufficient to cover a minimum of one year of expenses (out-of-state tuition, fees, room, 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 to be considered for admission into a program, be accepted into a program and have submitted the required TOEFL score and financial documents listed above. Students may view an estimate of expenses online at:

<https://www.nhti.edu/sites/default/files/content/documents/intercost.pdf>

Any International Student planning to request an F-2 visa for dependents must also submit copies of the dependent’s current passport and immigration documents, and plan to include the cost for the dependent’s expenses in their financial support documents (an additional \$9,900 for the first dependent, \$3,500 for each additional dependent). A letter must accompany the dependent’s documents, specifying the dependent’s name, date of birth, country of birth, country of citizenship, and relationship to the International Student.

- * *Applicants who reside in the US and have had English as their language of instruction for both their primary and secondary schooling may be permitted to take an institutional assessment to determine language abilities.*
- ** *Applicants who score between 380-499 (paper based), 83-172 (computer-based), or 26/27-61 (internet-based) may apply for the General Studies program taking a minimum of 9 credits of preparatory ESOL coursework for their first two semesters as well as a course in computer applications for ESOL students. These courses are designed to help students develop English language skills as well as self-confidence in dealing with challenges in learning, communication, and cultural adjustment in various academic programs at NHTI or other colleges. Students scoring below a 380 on the TOEFL will not be admitted to the college or a program at NHTI.*

Readmission

When applying for readmission, students must meet current entrance requirements for the desired program. Upon readmission, students will follow the curriculum published in the current catalogue. However, any common courses will be carried forward and every attempt will be made to make appropriate substitutions when previous courses have been replaced with updated ones. In order to approve a substitution, the Department Chair will make a recommendation to the Vice President of Academic Affairs, who will make the final decision.

Students who have been absent for more than three semesters will be declared inactive; an inactive student wishing to return to NHTI must apply for readmission and meet current entrance requirements for the program. (See Inactive Status at www.nhti.edu/academics/requirements-policies/inactive-status).

Readmission to the Allied Health programs is based on clinical site availability and recommendation of the department. Contact the program Department Chair regarding the specific departmental readmission policy.

Academic Amnesty

A student who has previously attended NHTI 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 NHTI 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 NHTI will be used to meet course requirements (where appropriate).
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 NHTI for a period of at least 3 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.

Please note that Academic Amnesty is designed for students who exhibited poor academic performance during previous attendance. It is not designed for students who achieved a cumulative GPA above 1.7 during previous attendance. **Students who are granted academic amnesty should be aware that while previous grades are not used to calculate the new grade point average, they will be used to evaluate "satisfactory academic progress" for financial aid purposes in accordance with Federal Financial Aid Regulations.**

Transferring to NHTI

Students requesting transfer to NHTI should submit all documents listed for general admission and must meet the specific admission requirements for their desired program. In addition, official transcripts from postsecondary institutions attended are needed to evaluate transfer credit. Awarding of transfer credits is based on the following:

1. Only those courses required in the desired program will be considered;
2. Courses must be equivalent in content and credit hours to those required in the desired program;
3. Grades must be "C" or higher, based on NHTI standards;
4. Science and other technical courses, including but not limited to Anatomy and Physiology I & II, Microbiology, taken more than five years prior to the desired date of entry must be repeated or challenged to be applied toward most Allied Health programs; this time limit may also apply towards some computer courses; final decisions rest with the Department Chair;
5. Most other general education courses do not have time limits but final decisions rest with the Department Chair;
6. College credit will be granted to students with military training, experience, or coursework that is recognized by the American Council on Education (ACE). Students seeking credit for their military experience will submit a hardcopy of their military transcript to the Admissions Office for the review/evaluation process;
7. International Baccalaureate (IB) exams will be considered for transfer credit only if score reports from the International Baccalaureate Organization are submitted. Of the two IB examination levels (Higher Level and Standard Level), only the Higher Level examinations where a score of 5, 6, or 7 has been achieved will be considered for transfer credit. Credit will not be given for Standard Level examinations;
8. CLEP and Advanced Placement exams will be considered for transfer credit only if score reports from the College Entrance Examination Board are submitted. Students who have taken both AP and IB examinations do not receive credit for both;
9. Challenge Exams, Credit by Exam and Pass/Fail courses taken at other institutions will not be considered for transfer credit;

10. Course descriptions, syllabi and course outlines may be requested;
11. The Director of Admissions, in consultation with the Vice President of Academic Affairs and Academic Department Chair, if necessary, is responsible for determining the appropriateness and acceptance of transfer credits.
12. Students seeking transfer credit for prior college coursework completed at an institution outside of the United States will need to provide an official foreign credential evaluation to the Admissions Office for review; a list of accredited credential evaluation services can be viewed at <http://www.naces.org/members.html>.

Transfer credits may be used to satisfy specific degree course requirements. Grades associated with such credits will not be included in the determination of the student's Grade Point Average, which reflects only achievement in courses completed at NHTI.

Transferring into an Allied Health program for Advanced Standing (i.e., transferring a clinical course from another institution to begin the program in an upper level course at NHTI) is based on clinical site availability and the specific transfer policy of the individual department.

In the event that a student fails a course at NHTI, subsequently satisfactorily completes a comparable course at another institution and requests transfer, those credits may be used to satisfy NHTI program requirements at the discretion of the program Department Chair. However, the grade received at NHTI will remain a part of the transcript, and it will be utilized in determining the student's Grade Point Average (GPA). Only successfully repeating the failed course at NHTI will discount the failing grade from the GPA calculation. (See Course Repeat Policy, Program Residency Requirements policy, and Transferring to Other Institutions at <https://www.nhti.edu/academics/requirements-policies>)

Change of Program

Currently enrolled matriculated students may request a change in their major program of study by using the "Change of Program/Dual Major Request" form available in the Admissions Office. Signatures must be received from the current major and new major Department Chairs. Signatures do not guarantee or imply acceptance into the new program. (See Change of Program/Dual Admission at <https://www.nhti.edu/academics/requirements-policies/change-program>)

Collaborative High School Programs

NHTI has established an Early College program that specifically allows current New Hampshire high school students to take NHTI college level credit-bearing courses on the NHTI campus in Concord, NH at a discounted tuition. These credits may be applied toward a degree at NHTI or possibly transferred to another college or university.

Students who successfully complete college courses through the Early College program will receive an official transcript from NHTI. Participating students must receive approval from their high school counselor or administrator, and complete and submit the Permission to Enroll form and Early College course registration form to the college.

For more information visit: <https://www.nhti.edu/academics/collaborative-high-school-programs/early-college>.

eStart

eStart is a dual credit program that affords NH high school students the opportunity to take 100% online college courses through the Community College System of New Hampshire (CCSNH), while earning both high school AND college credit simultaneously

- Earn high school AND college credit for the same online course
- Access your class anytime/anywhere to fit your busy schedule
- Learn from highly qualified CCSNH faculty
- Gain valuable experience with college coursework
- Transfer credits to many colleges and universities
- Save money - tuition is only \$150 plus the cost of textbook

For more information visit: www.nhti.edu/admissions/general-admission-requirements/collaborative-high-school-programs

Project Lead the Way®

Project Lead the Way is an initiative which allows high school students to explore careers in engineering or engineering technology by completing a designated sequence of courses as part of their high school curriculum. Courses include Introduction to Engineering Design, Digital Electronics, Principles of Engineering and Computer Integrated Manufacturing. Students who have successfully completed any of these courses may be eligible to apply some of the credits to meet requirements in NHTI's Mechanical/Manufacturing Engineering Technology major.

For more information visit: www.nhti.edu/admissions/general-admission-requirements/collaborative-high-school-programs

Project Running Start

Project Running Start offers high school students the opportunity to take challenging college courses while at high school at a reduced tuition rate. Students who successfully complete college courses through Running Start receive an official transcript from the Community College System of New Hampshire college with which the high school is associated. Some examples of courses offered include Psychology, Accounting, Human Biology, Networking, Macroeconomics, English Composition, and Chemistry. In addition, introductory engineering courses have been available through Project Lead the Way such as Introduction to Engineering Design, Digital Electronics and Principles of Engineering.

Running Start courses will be evaluated for transfer credit using the same guidelines as listed under “Transferring to NHTI (see page 13 or visit <https://www.nhti.edu/admissions/general-admission-requirements/transferring-nhti>).” Students applying to NHTI who have taken Running Start courses should have an official transcript sent to the NHTI Admissions Office from the community college associated with the Running Start course(s) taken. They should also respond to the Running Start questions on the NHTI application for admission.

For more information visit: <https://www.nhti.edu/admissions/general-admission-requirements/collaborative-high-school-programs>

Home-Schooled Students

NHTI encourages applications from students who are home-schooled. 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 the following:

1. A letter or other documentation from the student’s local school district stating that the student has completed a home school program at the high school level.
2. A list of courses taken and grades earned and/or portfolio of work accomplished.
3. High school equivalency or other testing, if applicable.

Contact the Director of Admissions with any questions regarding documentation and/or admission to NHTI programs at (603) 230-4011 or nhtiadm@ccsnh.edu.

CLEP Testing Service

NHTI is a College-Level Examination Programs® (CLEP) testing center. CLEP is a nationwide credit-by-examination program that offers students the opportunity to obtain recognition for college-level achievement through a program of exams in undergraduate college courses. It is the most widely accepted credit-by-examination program in the United States, helping students of a wide range of ages earn credit for what they already know. CLEP exams are available in 34 college-level subjects. With satisfactory exam scores, students can earn credits toward their college degree, depending on the exam subjects and the students’ major field of study. For more information, go to <https://www.nhti.edu/student-resources/where-can-i-get-help-my-studies/clep-testing-service>.

Individual Course Enrollment

Some students may wish to register for individual courses without applying to degree or certificate programs; that is, they may wish to enroll in courses as non-matriculated students. (See Enrollment Status at <https://www.nhti.edu/academics/requirements-policies/enrollment-status>) Most general education and some program-specific courses are open to all, assuming course prerequisites are met and space is available after matriculated students have registered.

Non-matriculated students must meet the same course prerequisites, complete the same course requirements, and follow the same college and course rules, policies, and procedures as other students. **Therefore, individuals who are considering registering as non-matriculated students are strongly urged to consult with an academic advisor at NHTI prior to enrolling in any course.** In addition to providing information about NHTI as a whole, the academic advisor will assist individuals in evaluating their readiness for any course(s) in which they are interested. In some cases, the advisor may recommend that the individual work with the Academic Center for Excellence (ACE) to take one or more of NHTI’s assessment tests in Reading, Writing, Mathematics, and/or Computer Literacy. The advisor may also recommend that the individual consult with the Department Chair responsible for the course in question, especially in situations involving evaluation of relevant work experience.

Additionally, individuals who are considering registering as non-matriculated students should be aware that the content and teaching methods of college courses are consistent with the assumption that registered students are adult learners. Classroom discussions, as well as content material presented, assume an adult level of maturity, attitude, and experience in addition to appropriate academic preparation.

Academic advisors may be reached at (603) 230-4021. Names, telephone numbers, and email addresses for academic Department Chairs may be found on the NHTI website at <https://www.nhti.edu/community-visitors/campus-directory/academic-department-heads-listing>.

Non-matriculated students, those not formally accepted into academic programs, are not eligible to apply for financial aid. To be considered for admission to an academic program, contact the Admissions Office at (603) 230-4011 or nhtiadm@ccsnh.edu.

Financial Aid

What is Student Financial Aid (SFA)?

1. SFA is assistance for students matriculated (formally accepted) in a financial aid-eligible program, i.e., those programs with total program credits of 16 or more.
2. Eligibility for financial aid is based on the number of credits for which a student is enrolled in a particular semester. NHTI defines enrollment as:
 - Full time = 12 or more credits per semester
 - $\frac{3}{4}$ time = 9-11 credits per semester
 - Part-time = 6-8 credits per semester
3. Students not planning to enroll at least half-time (6 credits) should check with the Financial Aid Office to determine eligibility.
4. SFA helps to cover educational expenses, including tuition and fees; room and board; books and supplies; and transportation.

Most aid is need-based, and the four types of aid are grants, loans, Federal Work-Study and scholarships. Information and application materials for these programs are available from the Financial Aid Office at (603) 230-4013 or from the website at www.nhti.edu/admissions/financial-aid.

In addition to these sources, Financial Aid is sometimes available in the student's hometown. Local agencies often provide low cost loans or scholarships. Listings of such sources are available through high school guidance counselors. New Hampshire Higher Education Assistance Foundation (NHHEAF) has information on other financial resources. NHHEAF can be reached at (800) 525-2577.

NHTI's priority deadline is May 1 for the receipt of the following: electronic Free Application for Federal Student Aid (FAFSA), NHTI financial aid verification form and appropriate tax returns, if requested. Students must also be matriculated (formally accepted) into an eligible degree, certificate, or professional certificate program (total program credits of 16 credits or more).

The Financial Aid Office encourages all students who are interested in receiving aid to apply for admission to NHTI before January 1 to assure timely processing of financial aid awards.

Federal regulations and NHTI policy require that students continue satisfactory academic progress and remain in good academic standing to receive federal or state financial aid.

Process to Apply for Financial Aid

- Complete the electronic version of the Free Application for Federal Student Aid (FAFSA);
- Review the Student Aid Report (SAR) for accuracy; this will be mailed or emailed to students one to four weeks after submitting the FAFSA;
- Contact the Financial Aid Office, if needed, for further assistance.

Federal Student Aid (Title IV)

- Federal Pell Grant is a form of financial aid that does not have to be repaid.
- Federal Supplemental Educational Opportunity Grant (SEOG) is a form of financial aid that does not have to be repaid.
- Federal Work-Study money is for educational expenses and is paid by the school for on-campus or community-based work. Students receive pay checks as work is completed.
- Federal Perkins Loan is a low-interest loan available to NHTI students who demonstrate financial need.
- Federal Direct Loans Program (DL) are low interest loans and include Federal Direct Subsidized Loans, Federal Direct Unsubsidized Loans and Federal Direct Parent Loans (PLUS).

Return of Federal Title IV Funds

As mandated by law, students who withdraw from the college on or before the 60% point in a semester will have to repay a portion or all of their aid. (See Standards of Satisfactory Progress at <https://www.nhti.edu/admissions/financial-aid>)

Tuition and Fees

The following table presents a summary of fees established for the 2018-2019 academic year. Fees for 2019-2020 will be set around July 1, 2019. For most current rates go to <https://www.nhti.edu/student-resources/how-do-i-pay-my-tuition-and-fees/tuition-and-fees>. Tuition and fees are due two weeks prior to the first class day each semester. Some programs require specific uniforms and/or special instruments, and all programs require textbooks. Students are responsible for the purchase of these materials.

ALL CHARGES ARE SUBJECT TO CHANGE WITHOUT NOTICE.

For most current rates go to <https://www.nhti.edu/student-resources/how-do-i-pay-my-tuition-and-fees/tuition-and-fees>.

| | Tuition Costs | | | |
|-----------------|---------------|-----------|---------|----------------------------|
| | NH Resident | Veterans* | NERSP** | Out of State/International |
| Per Credit Cost | \$ 215 | \$ 215 | \$ 323 | \$ 490 |

Tuition rates are based on per credit hour cost. (Other mandatory fees below must be added to tuition cost.)

* Tuition Rate for Veterans (see page 22)

** New England Regional Student Program (see page 22)

- **Tuition Deposit:** A non-refundable \$100 tuition deposit is required for the follow programs: Dental Assisting, Dental Hygiene, Diagnostic Medical Sonography, Nursing (RN & LPN-RN Option), Orthopaedic Technology (Degree & Certificate), Paramedic Emergency Medicine, Radiation Therapy (Degree & Certificate), and Radiologic Technology and will be applied toward tuition in the first semester.
- **Comprehensive Fee:** \$25 per credit hour
(Supports Student Center, Student Activities and Organizations, Wellness Center, Athletics, Health Services, and Campus Safety.)
- **Academic Instruction Fee:**
An Academic Instruction Fee for credit courses is charged to all students taking lab, clinical, field experience, or practicum courses. 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. (See example below.) This fee will be added to the normal tuition charge for that course. No academic instruction fee will be charged for co-ops and internships.
Example: BIOL 195C A&P I (Lecture) 3 (Lab) 2 (Credit) 4 $4 - 3 = 1 \times 110 = \$110$
- **Child and Family Development Center (CFDC) Lab Fee:** All students taking the following courses ECE 101C, ECE 143C, ECE 155C, ECE 167C, ECE 188C and ECE 215C will be charged **\$25** lab fee for each class.
- **Clinical Surcharge:** \$500 per semester
All students enrolled in clinical Dental, Diagnostic Medical Imaging, Nursing, Orthopaedic Technology and Paramedic Emergency Medicine courses will be charged a \$500/per semester clinical surcharge. The following courses carry this charge: ADED 113C, ADED 114C, ADED 191C, ADED 196C, ADED 212C, ADED 221C, CAT 204C, CAT 206C, DGMS 296C, DGMS 297C, DGMS 298C, NURS 115C, NURS 116C, NURS 117C, NURS 178C, NURS 215C, ORTH 150C, ORTH 220C, PEM 194C, RADT 159C, RADT 164C, RADT 165C, RADT 294C, RADT 295C, RDTH 190C, RDTH 195C, RDTH 290C, RDTH 293C, RDTH 295C and RDTH 296C
- **Manufacturing and Mechanical Engineering Technology Materials Fee:** All students taking the following courses will be charged the following materials fees: MFET 111C, **\$20**; MFET 220C, **\$30**, and MCET 105C, **\$10**.
- **Nursing NCLEX-RN Licensure Exam Preparation Fees:** All students taking the following courses will be charged the following fees to help cover the costs associated with ATI online practice and proctored assessments and tutorials, detailed individualized remediation plans, and end of program testing to prepare students for the NCLEX-RN licensure exam:
 - NURS 115C, \$305 taken Fall semester;
 - NURS 116C and NURS 117C, \$250 if taken Fall or Spring semester;
 - NURS 178C, \$280 taken any semester;
 - NURS 215C, \$250 taken Spring semester, plus an additional \$350 for an ATI Live NCLEX-RN Review Course.
- **Orthopaedic Technology Specialty Supplies Fee:** \$500 per semester
All students enrolled in the Orthopaedic Technology Degree or Orthopaedic Technology Certificate Program will be charged a \$500 per semester clinical surcharge. The following courses carry this charge: ORTH 105C and ORTH 205C
- **Paralegal Studies Fee:** A \$125 fee will be assessed for all students taking PLGL 104C and PLGL 225C. This fee will cover costs associated with ABA dues, Lexis/Nexis, and UNH Franklin Pierce School of Law Library.
- **Teacher Education Conversion Program (TECP) Fee:** A \$25 fee will be assessed for all students taking TECP 50C, TECP 51C, TECP 60C, TECP 62C, TECP 66C, TECP 87C and TECP 88C to cover the cost of clinical practice.
- **Theater Materials Fee:** A \$25 theater materials fee will be assessed for all students taking THTR 185C and THTR 250C
- **Travel Fee:** A \$75 fee will be assessed for all students taking HSTM 101C. The fee will be used to defray some of the costs associated with student travel experiences. There will be additional costs to students associated with some of the more extensive trips.
- **Visual Arts Ceramic Studio Fee:** A \$50 ceramic studio fee will be assessed for all students taking VRTS 135C and VRTS 235C.

- **Visual Arts Chemical Fee:** A \$20 fee will be assessed for all students taking VRTS 130C and VRTS 230C to cover the cost of chemicals used in this class and the disposal of these chemicals.
- **Visual Arts Model Fee:** A \$20 fee will be assessed for all students taking VRTS 133C and VRTS 210C to cover the cost of live modeling.
- **Liability Insurance: Personal Professional Liability Insurance** is mandatory for all students in health and human service related programs which include clinical requirements. The cost is approximately \$25 per year. (**Note:** Liability insurance may be required for students in other programs who participate in an off-campus practicum or internship.)

Residence Hall Costs (for the academic year 2019-2020)

| OCCUPANCY | ROOM | BOARD† | RESIDENT ACTIVITY FEE | ROOM TOTAL |
|----------------------|-----------------|-----------------|--------------------------|------------------|
| Double/Triple | | | | |
| Fall 2019 Semester | \$ 3,285 | \$ 1,691 | \$ 75 | \$ 5,051 |
| Spring 2020 Semester | 3,285 | 1,691 | 75 | 5,051 |
| Total | \$ 6,570 | \$ 3,382 | \$ 150 | \$ 10,102 |
| Single | | | | |
| Fall 2019 Semester | \$ 3,944 | \$ 1,691 | \$ 75 | \$ 5,710 |
| Spring 2020 Semester | 3,944 | 1,691 | 75 | 5,710 |
| Total | \$ 7,888 | \$ 3,382 | \$ 150 | \$ 11,420 |

† 15-meal plan: \$1691 (\$1591 + \$100 flex)/semester; 19-meal plan: \$1838 (\$1738 + \$100 flex)/semester. (If a student does not specify which meal plan they want; they automatically get the 15-meal plan. For meal plan changes student must fill out a Meal Change Form and return it to the Student Affairs Office.)

Payment and Refund Policies

Payment of Tuition and Fees

Due date and Payment options: Each semester tuition and fees are due two weeks prior to the first class day. It is the student's responsibility to view their tuition, fees, and housing charges online through the Student Information System (SIS). Accounts should be monitored after a student registers and routinely throughout the semester. NHTI does not send paper bills.

Students can make payment through their SIS account using a bank account (e-check) or credit/debit card. Payment can also be made in person at the Bursar's Office using cash, check, MasterCard/VISA, Discover and debit cards. Checks can be mailed to NHTI, Attn: Bursar Office, 31 College Drive, Concord, NH 03301. NHTI also offers an online installment payment plan option each semester. Additional information regarding NHTI's payment options is available under the *How to Pay Your Tuition and Fees* section of the NHTI Bursar website at <https://www.nhti.edu/student-resources/bursar>

Unpaid Balances: If payment arrangements have not been made for the entire balance by the tuition due date, a late fee of \$50 may be applied. Students with outstanding balances at the end of the semester will be sent to an outside collection agency, which will result in additional fees being added to the student's balance. Please see NHTI's *Delinquent Accounts Collection Policy* at <https://www.nhti.edu/student-resources/how-do-i-pay-my-tuition-and-fees/non-payment-policies> for more information regarding NHTI's collection policy.

Financial Aid Recipients: All financial aid requirements must be completed to have financial aid applied to the tuition bill. To verify that you that financial aid requirements are completed, please do the following:

1. **Be sure that all financial aid requirements are met:** Go to SIS and click on the "Financial Aid" tab. Choose "Overall Financial Aid Status." Select Campus. Select 2019-2020 Aid Year. If outstanding requirements need to be completed, the message "You have unsatisfied student requirements for this aid year" will be displayed. Click on the link to view requirements.
2. **Verify that Financial Aid will cover tuition charges:** Go to SIS and click on the "Financial Aid" tab. Choose Award. Choose Award for Aid Year. Select Campus; Select 2019-2020 Aid Year. Click on Award Overview Tab. Scroll down to "Financial Aid Award by Term." If financial aid has been awarded, the amount of estimated aid for the term will be displayed here. Deduct the estimated total amount of the award for the term from tuition charges.

Please Note: Students that do not have financial aid in place by the tuition due date, or have a remaining balance due after the estimated financial aid award, may have a \$50 late fee assessed.

Students with questions about financial aid should contact the Financial Aid office at nhtifinaid@ccsnh.edu or (603) 230-4013.

Military Benefit Recipients: Students eligible to receive military education benefits should complete the following steps:

1. Complete all paperwork required through military service and/or the VA at least 8 weeks prior to the start of the term (the VA may take 8 weeks to process your paperwork).
2. Submit VA eligibility paperwork, Guard and Reservist tuition assistance/tuition waiver authorizations to NHTI's School Certifying Official.
3. Be sure to make payment arrangements for semester charges that are not covered by military benefit by the semester due date. Tuition will always be due two weeks prior to the start of the semester.
4. Additional information on applying for VA educational benefits may be found on the NHTI Veterans webpage at <https://www.nhti.edu/student-resources/veterans>.

Third Party Payments

In order for NHTI to invoice your employer, company, or agency directly for your courses, the following conditions are required:

1. If the employer, company or agency (insurance company, voc rehab, CAP, etc.) is paying for tuition, have an official letter or Tuition Authorization Form from the company authorizing NHTI to bill them. This must be submitted at the time of registration for day, evening, online or business training courses prior to the meeting of the first class for all classes. The company must be willing to pay upon receipt of invoice.
2. **If the third party states that there are any contingencies, (i.e. grade of "C" or better, upon completion, reimbursement, etc.), NHTI cannot bill the third party. The student must pay the semester charges by the tuition due date and receive reimbursement directly from the third party.**
3. For NHTI to send an invoice to a company the letter must be on official letterhead and include:
 - Student Name
 - Company Contact Name
 - Company Billing Address and email address

Company Telephone

If applicable, the course and/or maximum amount of tuition allowable.

Note: It is the student's responsibility to make sure that the company pays the invoice. If the company fails to pay the invoice, the student is responsible for the bill and will not be eligible to register for any future courses until the bill is paid in full.

4. A separate letter is needed for each semester.
5. If the company offers a reimbursement program, the student is responsible for tuition. NHTI does not offer deferments. For payment information go to the Bursar's Office webpage at <https://www.nhti.edu/student-resources/bursar>.
6. NHTI reserves the right to not accept authorization for payment from companies that are not in good standing with NHTI.
7. Student with questions should contact the Third Party Payables representative in the Bursar's Office at (603) 230-4000 ext. 4112.

Delinquent Accounts Collections Policy

Any account balance 90 days past due may be turned over to an independent, outside collections agency. When this happens, no payments will be accepted by NHTI and the debt will be reported to the credit bureau. The cost of the outside collection agency (up to a maximum of 35% of the amount due), any legal fees, and any bounced check fees will be added to the total amount owed. Students that owe a past due balance will not be eligible to receive official transcripts or register for courses at NHTI and/or other CCSNH colleges until the balance is paid in full.

NHTI Refund Policies

Refunds from overpayment of account (including but not limited to Title IV Stafford Sub/Unsub Loans, Scholarships, Grants, Parent Plus loans, or overpayment): Students can choose to receive a refund by ACH Direct Deposit, Paper Check, or Reloadable Debit Card; this is done through the Student Information System (SIS). For more information on how to sign up for electronic refunds and/or monitor the status of a refund please visit Community College System of NH Refunds webpage at <https://www.ccsnh.edu/ccsnh-student-refunds>

Students may check SIS to find out when a credit has been issued (due to a dropped class or disbursement of financial aid funds) or when an NHTI Refund has been posted. Once the NHTI Refund is processed students can expect to receive it as follows:

- ACH Direct Deposit and Reloadable Debit Card in three business days from the date that the refund is viewable on the Student Choice Refund page of the SIS.
- Paper check refunds up to 14 business days from the date that the refund is viewable on the Student Choice Refund page of the SIS.
- Please make sure the most current mailing address is on file with our college (address changes are made in the Registrar's Office).

All Federal Title IV funds (i.e. PELL, SEOG, Perkins Loan) are refunded according to the rules and regulations mandated by the U.S. Department of Education.

Refunds from cancelled/dropped courses or withdrawing from the college:

Students must contact the Registrar's Office or the Academic Advising Center, by phone, fax, email or in person, prior to the published date for last day to withdraw with refund. Students that do not formally withdraw from a course by the deadline to drop with a refund, will be responsible to pay for the course. A list of drop dates can be found on the Dropping Classes/Withdrawing from NHTI website at <https://www.nhti.edu/academics/requirements-policies/dropping-classeswithdrawing-nhti>. Please note that certain fees are non-refundable.

(See related webpages: Withdrawal from NHTI <https://www.nhti.edu/academics/requirements-policies/withdrawal-nhti>; Academic Requirements and Policies <https://www.nhti.edu/academics/requirements-policies/withdrawal-nhti>; Financial Aid Standards of Satisfactory Progress <https://www.nhti.edu/admissions/financial-aid/standards-satisfactory-progress#withdrawal>; Withdrawal <https://www.nhti.edu/academics/requirements-policies/withdrawal-nhti>.)

Refunds from Business Training Center (BTC) courses and workshops:

Participants registered for workshops through the Business Training Center (BTC) must notify the BTC at least five business days prior to the first workshop session in order to receive a full refund. This includes Dental Continuing Education workshops. There may be exceptions for certain programs or workshops due to enrollment restrictions. Please consult the website or contact the Business Training Center directly by (603) 230-4022 or via e-mail nhtibtcc@ccsnh.edu with any questions.

Residence Hall Policies

I. Terms of Agreement

This agreement is for a period of (a) one academic year, both Fall and Spring semesters; (b) only the Spring semester; or (c) the Summer session, for a period equal to the duration of the student's summer courses. Housing accommodations are not provided during NHTI vacation periods. All housing services, including access to the room, begin on the designated Residence Hall opening day and end by 5:00 pm after a student's last final exam or cancellation of the agreement. Graduation, official withdrawal from NHTI, academic dismissal or suspension from NHTI, or mutual consent of the parties constitute the only basis for release from this agreement. There are no refunds for dismissal or suspension from housing due to student conduct violations. If a housing renewal is not extended to a returning student or if a returning student is

excluded from the second semester of the academic year, the result will be a cancellation of the agreement and charges assessed based on the refund schedule. Students residing at NHTI and who are enrolled at another College or University are subject to the same terms of agreement, payment, termination, and refund schedule as NHTI students.

II. Deposit/ Payment

NHTI establishes housing fees annually and announces proposed fees for each academic year. All students intending to reserve a space in NHTI housing must pay a housing deposit at the time of application. Tuition, fees and housing charges are due two weeks prior to the first class day of the semester. It is the students' responsibility to view and verify their charges through SIS. (Log in. Select Student. Select Student Records. View Account Detail.) NHTI does not send paper bills. Payments can be made online through the student's account, by phone (603-230-4012) or in the Bursar's Office. Payment methods include cash, check, MasterCard/VISA, Discover and Debit Card. All student accounts with outstanding charges at the end of the semester will be sent to collections. In addition, a hold will be placed on the students' accounts and they will not be able to register for future classes or receive official transcripts. For more payment information visit www.nhti.edu/student-resources/bursar.

III. Cancellation/ Refund Schedule

In order to ensure that accommodations are available to students wishing to live on campus, NHTI will refund the student's housing fee in accordance with the refund schedule. Subsequent to occupancy, no release from this agreement or refund can be provided unless the assigned room is left clean and all sign-out procedures, including return of keys and settlement of obligations, are completed. Effective date of release will be determined by the date of such completion.

Academic Year Provisions:

- A. If the housing agreement is cancelled, any amount of housing refund due to a student will first be applied to said student's current NHTI balance.
- B. The deposit is refundable if a written cancellation from the student is received by the Director of Residence Life by the end of the last business day before the student takes occupancy of the assigned room. After the student has taken occupancy of the assigned room, the Residence Hall Refund Schedule applies.
- C. If by Friday of the second week of classes, as designated by the academic calendar, the agreement is cancelled by mutual consent, or cancelled for any of the reasons in the Terms of Agreement, the student receives an 80% refund of the semester's housing fee. If a student fails to occupy their room by the Friday after the start of classes, the student is considered a "no show." The housing assignment is rescinded and the housing deposit is forfeited. 100% of the housing and meal charges are credited back to the student's account in the event of a no show.
- D. Cancellation for any of the reasons in the Terms of Agreement or by mutual consent after Friday of the second week of classes and before the fifth week, as designated by the academic calendar, will result in a 50% refund of the semester's housing fee.
- E. Cancellation for any of the reasons in the Terms of Agreement or by mutual consent up to the tenth week of classes, as designated by the academic calendar, will result in a 25% refund of the housing fee.
- F. Cancellation for any of the reasons in the Terms of Agreement or by mutual consent after the tenth week of classes, as designated by the academic calendar, will result in no refund of the housing fee.
- G. There are no refunds if a student is dismissed or suspended for student conduct violations.
- H. If a student requests early termination of the housing contract at the end of the Fall semester, the request will be considered only if received in writing by the Director of Residence Life before the second Friday of January. Early termination is subject to the Terms of Agreement and Residence Hall Refund Schedule.
- I. If the student is not enrolled at NHTI for the Spring semester and requests termination of the housing contract by the second Friday of January, the student will be released from the Agreement and not responsible for Spring semester charges.
- J. If the resident is enrolled at another College or University for the Spring semester while residing at NHTI, they will be subject to refunds based on the Refund Schedule (see above).

Summer Provisions:

- A. Request for early termination of this agreement before the start of the summer session can be considered only if received in writing by the Director of Residence Life by the Friday before the start of the summer session.
- B. If on or before the Friday of the first week of classes the student fails to occupy the assigned room or cancels the agreement by mutual consent for any of the reasons in the Terms of Agreement, the agreement is cancelled and the student receives an 80% refund of the housing fee.
- C. Cancellation for any of the reasons in the Terms of Agreement or mutual consent after the Friday of the first week will result in no refund of the housing fees.

IV. Board Refunds

Board fees that are prorated for the remainder of the semester may be refunded when a resident student officially withdraws from housing. The fees will be computed on a weekly basis from the first day of the week following withdrawal.

New Hampshire Residency Status

To qualify for New Hampshire resident tuition rates, a student must have been a legal resident of the state for a minimum of 12 consecutive months immediately preceding the student's NHTI enrollment date (first day of classes).

Students who change legal residence to New Hampshire during their studies at NHTI must still be legal residents of New Hampshire for 12 months prior to being eligible for resident rates. Change of address does not necessarily constitute change of legal residence.

In order to begin the process of eligibility, students must provide the Admissions Office with proof of residency, such as a notarized statement or rent receipts, that accurately reflects the effective date of residency. A New Hampshire driver's license is not sufficient proof of legal residency status.

New England Residency Status

The New England Regional Student Program enables a resident of a New England state to enroll in a public college or university in the six state region at 50% above in-state tuition for certain degree programs if:

1. The program is not available in the home-state public college;
2. The out-of-state, public institution is nearer to the student's residence than the in-state institution that offers a similar certificate, diploma or associate degree program.

Students eligible for NERSP should submit a written request to the Director of Admissions when they apply to NHTI. NHTI considers New England Regional status to be a form of financial aid. For further information, contact a high school guidance counselor or NHTI Admissions Office.

Military/Veterans Education Benefits

The academic programs at NHTI—Concord's Community College have been approved by the NH Department of Education for Veterans Education benefits, for persons eligible for GI Bill® and Federal Tuition Assistance. Students who have questions regarding their eligibility should contact the VA at 1-888-442-4551 or their Education Service Specialist in their military branch. Any student who will be using VA educational benefits must contact NHTI's School Certifying Official for Military Education Benefits in the Registrar's Office to ensure that all necessary paperwork has been processed. For more information about Veterans educational programs visit:

<https://www.nhti.edu/student-resources/does-nhti-have-special-resources-veterans/veterans-educational-programs>

GI Bill® is a registered trademark of the U.S. Department of Veterans Affairs (VA). More information about education benefits offered by VA is available at the official U.S. government website at <http://www.benefits.va.gov/gibill>.

Tuition Rate for Military/Veterans

NHTI charges qualifying Veterans and Dependents at the in-state tuition rate, in accordance with Section 702 of the Veterans Access, Choice and Accountability Act of 2014 ("Choice Act"), for payment of benefits under the Post-9/11 GI Bill and Montgomery GI Bill-Active Duty, and under the following policy (Community College System of New Hampshire finance policies at 421.01.1):

- f. A member of the Armed Forces of the United States stationed in New Hampshire under military orders, or stationed in a contiguous state but temporarily living in NH, 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 New Hampshire is continued. Furthermore, military personnel who are residents of another state but choose New Hampshire as their residence within 90 days of being discharged from the military will be considered New Hampshire residents and charged in-state tuition.
- g. 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.
- h. 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.

This letter verifies that 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).

Books and Supplies

Students are responsible for the purchase of all books and supplies required for the courses in which they are enrolled. The estimated cost of these books and supplies varies depending on the academic program. For example, students in health-related programs are responsible for purchasing uniforms.

NHTI Bookstore personnel can provide estimates for the cost of books for a given major. Students should contact their Department directly for the estimated cost of additional supplies and instruments.

For more information visit: www.nhti.edu, click Student Resources and then click Where Do I Buy My Books?

Protested Check Policy (Insufficient Funds Check)

Whenever any check, draft or money order issued in payment of any fee or for any purpose is returned to NHTI, NHTI shall charge a fee of \$35 in addition to the amount of the check, draft or money order to the person presenting the check, draft or money order to NHTI.

Academic Support Services

Library

The NHTI library is the learning and information hub of the college and includes quiet study rooms, a state-of-the-art instructional lab – based on Biophilic design, collaborative learning and tablet technology – natural lighting, soft seating, treadmill and standing study desks, numerous data ports, scanning capabilities, wireless connectivity and wireless printing creating a comfortable and dynamic environment for research and study. Tablets for library use are checked out at the library's Services Desk. An academic, teaching library with professional and experienced, knowledgeable, friendly and helpful staff, it offers the services and collections - such as the New Hampshire collection among others - of the traditional library while embracing technology; offering complete research services – including robust Reference services - and capabilities including access to internet resources - which are available both on-campus and remotely. The library offers, among other things, an unparalleled collection of over 60,000 books, over 300,000 eBooks, as well as numerous print and electronic journals, periodicals through *Flipster*, Blu-rays, DVD's, streaming resources, audio books, audio recordings, and an extensive Music CD collection. The library's comprehensive services – in support of the college's initiatives on information literacy and the educated person - include online integrated searching (EDS) of over 90 carefully selected databases as well as a myriad of other library resources; bibliographic instruction (including the all-important evaluation of resources); copyright clearance; and, cooperation with many other academic, public and special library networks - such as the statewide system of the New Hampshire State Library (see Interlibrary Loan for this service). The library is the designated home library for the New Hampshire Chapter of the American Institute of Architects (AIANH) and the Structural Engineers of New Hampshire (SENH). The college archives, located in the library, contain records, documents, photographs and other ephemera of NHTI history. The library is the host venue for NHTI's Wings of Knowledge lecture series and is the home of the Library Art Gallery where various artists - including NHTI student artists in the Visual Arts program - exhibit throughout the year.

Academic Advising Center

At NHTI, we encourage students to work closely with an academic advisor to help define academic, career, and life goals. Whether a student needs guidance selecting classes, transferring to a four-year school, or clarifying long-term goals, an advisor is available to assist in the process.

Students who are enrolled in academic programs like Criminal Justice, General Studies, or Nursing are advised by their Department Chairs or other faculty advisors in their departments. The Academic Advising Center, located in Sweeney Hall 103, serves students who are taking classes exclusively in the evening or are not enrolled in an academic program. Selected General Studies and Liberal Arts students are also advised in the Academic Advising Center.

Philosophy and Goals for Advising

The advising program at NHTI provides students with the knowledge needed to identify their personal, academic, and career goals; develop an appropriate educational and career plan; and monitor their progress toward achieving those goals.

- To empower students to be active participants in their own decision-making processes
- To connect students to the community through facilitating active participation in school resources, student clubs and organizations, athletic teams, work-study programs, and student activities
- To help students understand themselves, develop critical thinking and reasoning skills, and clarify personal values
- To provide advising services that are visible and available to all students

Career Counseling and Placement Services

Career Counseling and Placement Services provides support to students who are deciding on a college major or career direction, exploring their interests, and seeking employment. Students and alumni can visit the Career Resources page on the NHTI website to support their college major selection and career development efforts including viewing job listings from area employers. The Career Resources page is located at <https://www.nhti.edu> under Student Resources.

NHTI encourages students to use these resources as one strategy for maximizing career success. Students who secure part-time positions related to their college major/career interests or have practicum or internship experiences while attending NHTI increase their chances of securing employment after graduation. Additionally, about 50% of graduating students continue to higher levels of education.

Academic Center for Excellence (ACE)

The Academic Center for Excellence (ACE) is located in the library and supports academic success by promoting independent, self-directed learning in a positive environment. Free resources and services available to students include:

- Math Lab
- Writing Center & Study Solutions Lab
- Peer Tutoring
- Computer Lab

Office of Accessibility Services

Accessibility Services provides equal educational access, opportunities and experiences to all qualified students with documented disabilities who register with the college's Accessibility 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.

Placement Testing

All students who enroll in degree programs at NHTI are required to take placement tests prior to registering for classes. Non-matriculated students who have been away from school for several years or are unsure of their skills are also encouraged to take these tests. Students take tests in writing, reading and math. Test scores are used to assist in proper course selection, as well as to help students identify their academic strengths and challenges.

Students who submit SAT scores no more than five years old may be waived from taking certain placement tests. A Math SAT score of 530 or higher places a student directly into college-level Math and waives the student from taking the math placement test. A Critical Reading and Writing SAT score of 480 or higher waives a student from taking the reading placement test. An Essay SAT score range of 6 – 8 places a student directly into college-level English and waives the student from taking the writing placement test. All SAT scores should be submitted to Admissions prior to or at the point of acceptance in order to better facilitate registering for first semester courses.

Cross Cultural Opportunities

Cross-Cultural Education and ESOL, through Academic Affairs, initiates, develops, and coordinates programs and services to meet the growing educational needs of our diverse population on campus and in the community.

- **ESOL:** NHTI offers credit courses that are leveled to meet ESOL students' specific needs. With the institutional language placement test, students will be guided to take either a full academic load of ESOL courses or one or two ESOL courses along with courses in their desired academic program.
- **ESOL Tutoring and Support Services:** ESOL students receive free assistance with academic work including help in writing English essays, research papers, preparing oral presentations, pronunciation and other communicative support, understanding take-home exams, and completing other assignments and projects. One-on-one tutoring sessions are designed to aid students in improving their reading comprehension, vocabulary, writing, pronunciation, and conversational skills. Quiet testing rooms, extended testing time, and other appropriate testing accommodations are also available to ESOL students in content coursework. This support and outreach extends to content instructors working with the ESOL population.
- **Advising and Counseling for ESOL/International/Multicultural Students:** The Office of Cross-cultural Education and ESOL provides to its students academic advising and support with academic planning, course registration, financial aid, socio-cultural advising and community resources, and immigration-related information and assistance.
- **Cross-cultural Programs and Projects:** In an effort to broaden cross-cultural opportunities and promote cross-cultural competence at NHTI and in the community, our office coordinates the following programs and projects: 1) The Conversation Partners Program is designed to bring together native English-speaking and multilingual students on campus; 2) Cross-cultural competence trainings and workshops are available on campus and for our community's businesses and organizations; 3) Non-credit Language and Culture Series is a set of courses introducing the community to languages and cultures less commonly taught such as Arabic, Japanese, Greek, and others.
- **ESOL Non-Credit Courses:** These non-credit courses are designed according to specific needs. Examples of courses offered include TOEFL iBT Preparation and Learning English in the Cultural Context for learners with limited English proficiency, and Job-Related ESOL Training that can be offered on-site.

Campus Life Student Activities

NHTI offers a broad range of programs and services to engage students in the academic and social life of the campus and enhance their educational experience. The Student Center is the hub for social, cultural, entertainment and recreational activities on campus. Its 16,000 sq.-ft. space includes a great room with fireplace, lounge, games area and conference rooms. It houses a variety of student service offices including campus clubs and organizations, health and counseling services, campus activities and community service, residence life and Student Affairs.

Intercollegiate Athletics

NHTI offers students the opportunity to participate in a variety of intercollegiate athletic competition at both the regional and national levels, competing for New England and national championships. This is done as a member of the Yankee Small College Conference (YSCC), and the United States College Athletic Association (USCAA).

To learn more about the NHTI Lynx sports tradition, visit www.nhti.edu/student-life/athletics or call (603) 230-4041.

Intramural Sports and Wellness Center

Students may participate in a wide variety of intramural and wellness programs, both on and off campus. The Dr. Goldie Crocker Wellness Center has a full gymnasium, as well as free weights and cardiovascular equipment. Outdoor facilities include soccer, baseball and softball fields, tennis, volleyball and basketball courts, and horseshoe pits. Activities include basketball, volleyball, indoor soccer, flag football, ultimate frisbee, golf, softball, cross country and floor hockey, tournaments and special events, aerobics, conditioning clinics, health seminars and many more.

Orientation Program

NHTI has a unique orientation program to facilitate a smooth transition to college life. Students and their guests have the opportunity to tour campus; ask questions; meet current students, alumni, faculty, and staff; and become familiar with college organizations, activities and services.

Residence Life

Residence living is an integral part of the total educational experience at NHTI. Every effort is made to provide a safe, secure and clean living environment conducive to the academic and personal development of the student. NHTI has three coeducational residence halls housing a total of 350 students. Each hall has a full-time professional Residence Director and a staff of Resident Assistants. The resident assistant staff is selected from successful students and receives training in all areas of student development from fire and safety concerns to peer counseling. Assignment to a residence hall is open, based on space availability, to students carrying an academic load of at least nine (9) credits. For details, go to www.nhti.edu/student-life/residence-life.

Student Organizations

A student activity period is scheduled from 12 -2 pm every Tuesday to provide time for students, faculty, and staff to participate in clubs and activities. There are over 30 active student organizations with new groups forming every year. Some of these student organizations are directly related to academic majors while others are special interest groups.

Student Leadership

The Leadership, Enrichment and Action Program (LEAP) provides valuable leadership skills through a variety of training activities. The LEAP program received the National Association of Student Personnel's award for "Program of the Year" in 2009. Throughout the program students apply their training through various leadership roles such as resident assistants, club officers, captains of athletic teams, orientation leaders, peer mentors, and campus tour guides. Students will hone these skills as they pursue their career prospects and educational goals even after leaving NHTI.

Student Senate

NHTI encourages a democratic form of student government to develop individual initiative and a sense of group responsibility. The Student Senate is responsible for NHTI affairs which are not academic in nature. The Senate is comprised of elected representatives from all academic departments and is responsible for the promotion and coordination of student activities. The Student Senate President sits on the College's Institute Leadership Team.

Campus Services Bookstore

The campus bookstore, located in the Library, makes books and supplies available to students for all classes, at the store or online. Clothing, gift items, health and beauty aids, and snacks are also available. MasterCard, Visa and Discover are accepted. To purchase books online or for more information about bookstore policies, please visit: www.nhti.edu, click Student Resources and then click Where do I Buy My Books?

Campus Safety

The Campus Safety Department operates 24/7 and offers a wide variety of services, such as a walking escort service, unlocking/jumpstarting motor vehicles, parking permits, lost and found, investigations, issuing lockers, event coverage, issuing student ID's and response to complaints and emergencies.

NHTI Campus Safety encourages the reporting of potential or actual criminal activity and other emergencies by either calling the emergency line at (603) 224-3287 or using one of the Code Blue Phones on campus which contacts the Campus Safety Department directly.

To meet the requirements of the Jeanne Clery Disclosure of Campus Security Policy and Campus Crime Statistics Act of 1998 the NHTI Annual Security Report has been prepared by the NHTI Campus Safety Department using statistical and other information supplied by NHTI Concord's Community College, the Concord Police Department and the NH State Police. To view the Annual Security Report please visit <https://www.nhti.edu/sites/default/files/content/documents/camps-safety-security-report.pdf>

Community Service

NHTI nurtures a sense of community service that serves to develop students as active citizens through work with community partners and agencies. NHTI is a participating member of Campus Compact for New Hampshire, a consortium of higher education institutions in New Hampshire whose purpose is to advance the integration of service learning, civic responsibility, and meaningful community collaboration throughout institutions of higher education.

NHTI engages students in the community in several different ways. These methods consist of various food and clothing drives, one-time service projects, volunteerism with community partners, educational programs, and a variety of benefit events for worthy causes.

Counseling Services

NHTI Counseling Services works to help students function more effectively and successfully in a college environment. This includes providing counseling to students who may be experiencing situational or psychological difficulties. We also provide educational outreach and programming to meet the developmental needs of our students. The counseling staff is committed to creating and maintaining an open and accepting environment in which all students feel welcomed, safe and valued. While we primarily provide short-term counseling, we also provide outside referrals for longer term counseling, psychiatric services and substance abuse treatment.

Food Service

NHTI's food service provides meals and snacks at two campus locations. The Capital Commons Dining Hall in Little Hall is open seven days a week during the academic year (except holidays and vacations), serving three meals a day Monday through Friday and two meals a day on Saturday and Sunday. Residence Hall students have a choice of two meal/flex cash plans and use the dining hall as their primary dining location. The Sweeney Hall Bistro provides light meals, snacks and beverages, and is open daily when school is in session. Dining Services also offers meal and flex cash plan options to commuting students, faculty and staff.

Health Services

Health Services staff consist of two full time nurses and one part-time nurse practitioner. We offer initial assessment and treatment for a broad spectrum of illnesses and injuries with appropriate follow-up care. Students are encouraged to make an appointment in advance and walk-ins will be seen as soon as possible.

We also offer simple lab procedures (rapid strep, pregnancy and urine dips), unit dose over the counter medications, health monitoring and health education at no cost. Physicals, immunization, TB testing and lab draws for antibody testing are available at a minimal fee.

The Health Services Office is also a resource center where students can learn healthy behaviors to ensure wellness for their lifetimes. We provide presentations and displays on various health topics pertinent to students. For more information, contact us at (603) 230-4043 or stop in to the Health and Counseling office located in the Student Center.

Programs of Study

Complete Listing of Academic

Programs by Department

| | |
|--|-----|
| <u>General Education Courses</u> | 31 |
| <u>Accounting Programs</u> | |
| Accounting..... | 38 |
| Accounting (Basic) Certificate..... | 39 |
| Accounting (Advanced) Certificate..... | 39 |
| <u>Business Programs</u> | |
| Business Administration..... | 40 |
| Management Certificate..... | 41 |
| <u>Computer Programs</u> | |
| Advanced Software Development Certificate..... | 124 |
| Animation and Graphic Game Programming..... | 125 |
| Entry Level Software Development Certificate..... | 127 |
| Game Development Programming Certificate..... | 127 |
| Information Technology - Networking..... | 128 |
| Information Technology - Software Development..... | 129 |
| Information Technology Entry Level Networking Certificate..... | 130 |
| Information Technology Hardware and Software Certificate..... | 131 |
| Information Technology Microsoft Servers Certificate..... | 131 |
| Information Technology Network Associate Certificate..... | 132 |
| Information Technology Networking Certificate..... | 132 |
| Information Technology Security Certificate..... | 133 |
| Information Technology Software Development Certificate..... | 133 |
| Information Technology Tech Support Certificate..... | 134 |
| Information Technology Virtualization Certificate..... | 134 |
| Information Technology VoIP (Voice Over IP) Certificate..... | 135 |
| Linux Certificate..... | 135 |
| <u>Education Programs</u> | |
| Career and Technical Education Alternative Certification..... | 94 |
| Early Care and Education for Young Children with Disabilities..... | 95 |
| Early Childhood Education..... | 98 |
| Early Childhood Education Certificate..... | 101 |
| Early Childhood Education (Advanced) Certificate..... | 102 |
| Education..... | 105 |
| Education Certificate..... | 106 |
| English Speakers of Other Languages (ESOL) Certificate..... | 107 |
| Special Education Certificate..... | 108 |
| Teacher Education Conversion Programs..... | 109 |
| Young Children with Autism and Exceptionalities Certificate..... | 114 |
| <u>Engineering Technology Programs</u> | |
| Advanced Manufacturing Process Technology..... | 136 |
| Advanced Manufacturing Processes Certificate..... | 138 |
| Applied Career Fundamentals for Advanced Manufacturing..... | 139 |
| Architectural Engineering Technology..... | 140 |
| Building Inspector and Plans Examiner Certificate..... | 141 |
| Civil Engineering Technology..... | 142 |
| Computer Aided Design-Architectural Concentration Certificate..... | 143 |
| Computer Engineering Technology..... | 144 |
| Computer Technology Programming (Advanced) Certificate..... | 145 |
| Electronic Engineering Technology..... | 146 |
| Electronic Technology Certificate..... | 147 |
| Industrial Design Technology..... | 148 |
| Manufacturing Engineering Technology..... | 149 |
| Mechanical Engineering Technology..... | 150 |
| Robotics and Automation Engineering Technology..... | 151 |

English Programs

| | |
|----------------------------|----|
| English..... | 32 |
| Mindful Communication..... | 36 |

Environmental Studies Program

| | |
|--|-----|
| Environmental Sciences..... | 116 |
| Landscape and Environmental Design..... | 118 |
| Landscape Design Certificate..... | 119 |
| Sustainable Agriculture..... | 120 |
| Sustainable Agriculture with Certificate Option..... | 121 |
| Sustainable Agriculture with Transfer Option..... | 122 |
| Sustainable Agriculture Technology Certificate..... | 122 |

General Studies Program.....

Health and Science Programs

| | |
|---|-----|
| Biology..... | 115 |
| Dental Assisting (Professional Certificate)..... | 44 |
| Dental Hygiene..... | 46 |
| Diagnostic Medical Imaging..... | 49 |
| Computed Tomography..... | 49 |
| Diagnostic Medical Sonography (Professional Certificate)..... | 51 |
| Radiation Therapy..... | 52 |
| Radiation Therapy Certificate..... | 53 |
| Radiologic Technology..... | 55 |
| Health Science..... | 57 |
| Health Science: Nutrition and Wellness Concentration..... | 58 |
| Coaching Certificate..... | 44 |
| Medical Coding Certificate..... | 59 |
| Nursing (Associate Degree)..... | 61 |
| Generic Option..... | 62 |
| LPN-RN Completion Option..... | 63 |
| Orthopaedic Technology..... | 66 |
| Orthopaedic Technology Certificate..... | 68 |
| Paramedic Emergency Medicine..... | 69 |

Human Service Programs

| | |
|--|----|
| Addiction Counseling..... | 83 |
| Advanced Human Service Certificate..... | 84 |
| Human Service..... | 86 |
| Human Service Option..... | 86 |
| Mental Health Option..... | 87 |
| Gerontology Option..... | 87 |
| Human Service Certificate..... | 88 |
| Substance Use Disorder Treatment (SUD Tx) Certificate..... | 92 |

Justice/Legal Studies Programs

| | |
|---|----|
| Criminal Justice..... | 85 |
| Legal Nurse Consultant Certificate..... | 60 |
| Paralegal Studies..... | 89 |
| Paralegal Studies Certificate..... | 90 |

Liberal Arts Program.....

Mathematics Program.....

Sports, Recreation and Tourism Studies Programs

| | |
|---|----|
| Digital Communications Certificate..... | 76 |
| Event/Conference Management Certificate..... | 76 |
| Hospitality and Tourism Management..... | 77 |
| Hotel Administration Certificate..... | 78 |
| Recreation and Leisure Studies..... | 79 |
| Recreation and Leisure Studies Certificate..... | 80 |
| Sports Management Certificate..... | 43 |
| Sports Management Degree..... | 42 |
| Travel and Tourism Certificate..... | 80 |
| Wedding Planning Management Certificate..... | 81 |

Visual Arts Program.....

Note:

1. Refer to individual program pages for Specific Admission Requirements.
2. Number sequencing in the columns to the right of the course name means the following:

CL Column (first digit)

Numbers in the CL column designate the number of lecture/classroom hours per week for the course.

LAB Column (second digit)

Numbers in the LAB column designate the number of simulation laboratory, laboratory or clinical hours per week for the course.

CR Column (third digit)

Numbers in the CR column designate the number of credit hours for the course.

What if I need more time to complete my program?

While the programs on the following pages are designed to be completed in the format stated, many students choose to take more time, depending on their individual circumstances. Students who anticipate taking more time, or decide while in the program to do so, are strongly urged to consult with their Department Chair each semester to ensure that prerequisite requirements are met and course selection is appropriate.

General Education Courses

All Associate in Science and Associate in Arts degree programs offered at NHTI include a minimum number of credits in General Education courses distributed in accordance with the policy of the Community College System of New Hampshire as published at:

<https://www.ccsnh.edu/sites/default/files/System%20Policies-%20600-%20Academic-%2012%2005%2018.docx.pdf>. Courses fulfilling General Education requirements are designed to supplement and expand upon the knowledge and skills acquired in the student's major field courses to help ensure that graduates meet the definition of an "educated person" as set forth in NHTI's Educated Person Statement of Philosophy (see page 8).

The following list is provided so that students can determine which courses are appropriate in fulfilling General Education requirements in the areas of Communications, Literature, Humanities/Fine Arts/Foreign Language, Mathematics, Science, and Social Science. In programs where a General Education Elective is indicated, courses may be selected from any of the categories. Credits are indicated in parentheses.

- * Available in Honors format
- ** Service Learning is a component of this course
- *** All Visual Arts courses can meet Fine Arts requirement

COMMUNICATIONS

ENGL 120C Communications (3)*
ENGL 120MC Communication: Mindful (3)
ENGL 125C Communication and the
Literature of Science & Technology (3)
ENGL 227C Professional Communications & Public Speaking (3)

ENGLISH

All literature courses listed plus the following:
ENGL 120C Communications (3)*
ENGL 120MC Communication: Mindful (3)
ENGL 135C Introduction to Media Studies (3)
ENGL 201C English Composition (3)
ENGL 286C/TECP 86C Introduction to Linguistics (3)

FINE ARTS

All Visual Arts courses listed plus the following:
DANC 101C Dance Survey I (2)
DANC 102C Dance Survey II (2)
DANC 140C Introduction to Modern Dance (3)
DANC 141C Ballet Fundamentals (1)
MUSC 105C Introduction to Music (3)
MUSC 106C The History of Jazz, Blues and Rock and Roll (3)
MUSC 107C World Music (3)
MUSC 150C Introduction to Guitar (3)
MUSC 155C Vocal Production and Performance (3)
THTR 101C Acting I (3)
THTR 102C Acting II (3)
THTR 110C/ENGL 110C Introduction to the Theatre (3)
THTR 185C Children's Theatre (3)
THTR 220C Playwriting (3)
THTR 250C Musical Theater (3)
THTR 255C Directing (3)

FOREIGN LANGUAGE

ASL104C American Sign Language for Beginners (3)
ASL 105C Advanced American Sign Language (3)
CHIN 130C Mandarin Chinese I (3)
CHIN 132C Mandarin Chinese II (3)
FREN 121C French I (3)
FREN 122C French II (3)
GERM 115C Elementary German I (3)
GERM 116C Elementary German II (3)
SPAN 111C Elementary Spanish I (3)
SPAN 112C Elementary Spanish II (3)

HUMANITIES +

All literature courses listed plus the following:
HIST 104C Western Civilization: Antiquity to 1650 (3)
HIST 105C Western Civilization: 1650 to Present (3)
INDL 101C STEM in the First Year Experience (3)
INDL 120C Global Public Health Issues (3)
PHIL 110C Introduction to Philosophy (3)
PHIL 226AC Comparative World Religions (3)
PHIL 242C Contemporary Ethical Issues (3)*
+ **Note:** Fine Arts, Foreign Language, Visual Arts and English Literature courses can also be taken to meet the Humanities Elective requirement; contact your Advisor for assistance with course selection.

LITERATURE

ENGL 102C Introduction to Literature (3)*
ENGL 102MC Introduction to Literature (3)*
ENGL 110C/THTR 110C Introduction to Theatre (3)
ENGL 121C Introduction to Film (3)
ENGL 125C Communication and the
Literature of Science & Technology (3)
ENGL 150C Introduction to Drama (3)
ENGL 160C Introduction to Poetry (3)
ENGL 210C British Literature I (3)
ENGL 211C British Literature II (3)
ENGL 214C American Literature Survey I: to 1865 (3)
ENGL 215C American Literature Survey II: 1865 to the Present (3)
ENGL 221AC Images of Light (3)
ENGL 221BC Films of 1962 (3)
ENGL 221CC American Independent Cinema (3)
ENGL 221DC The Modern Classics (3)
ENGL 221EC German Expressionism (3)
ENGL 221FC American Cult Cinema (3)
ENGL 221GC Darkness & Light: Film Noir (3)
ENGL 221HC Alfred Hitchcock (3)
ENGL 221IC Stanley Kubrick (3)
ENGL 240C Cultural Identity through Young Adult Fiction (3)
ENGL 251C Contemporary Drama (3)
ENGL 255C Shakespeare (3)
ENGL 260C The Novel (3)*
ENGL 272C Modern Short Fiction (3)
ENGL 285C Literature, Technology and Culture (3)
ENGL 287C Women in Literature (3)
ENGL 291AC Comparative Issues and World Literature: Contemporary
Latin American Literature (3)
ENGL 291BC Comparative Issues and World Literature: Contemporary
Spanish Literature (3)
ENGL 295AC Creative Writing: Fiction (3)*
ENGL 295BC Creative Writing: Poetry (3)
ENGL 295CC Creative Writine—Nonfiction (3)
ENGL 295DC Playwriting (3)

ENGL 295EC Creative Writing: Young Adult Fiction (3)

MATHEMATICS

MATH 120C Quantitative Reasoning (4)
MATH 120XC Quantitative Reasoning (4)
MATH 124C College Algebra (4)*
MATH 124XC College Algebra (4)
MATH 125C Finite Mathematics (4)
MATH 130C Geometry (4)
MATH 140C Precalculus (4)
MATH 205C Calculus I (4)
MATH 206C Calculus II (4)
MATH 208C Multivariable Calculus (4)
MATH 210C Differential Equations (4)
MATH 215C Mathematical Proofs (4)
MATH 220C Elementary Linear Algebra (4)
MATH 251C Statistics (4)
MATH 271C Probability and Statistics for Engineers and Scientists (4)

SCIENCE

BIOL 111C General Biology I (4)
BIOL 112C General Biology II (4)
BIOL 115C Introduction to Ecology (4)
BIOL 116C Field Ornithology (4)
BIOL 117C Introduction to Plant Biology (4)
BIOL 120C Human Biology (4)
BIOL 122C Basic Pathophysiology (3 no lab)
BIOL 123C The Biology of Human Reproduction (3 no lab)
BIOL 125C Human Genetics and Society (4)
BIOL 129C Introduction to Sports Nutrition (3 no lab)
BIOL 159C Personal Nutrition (4)
BIOL 180C Tropical Ecology and Conservation (4)
BIOL 195C Anatomy and Physiology I (4)
BIOL 196C Anatomy and Physiology II (4)
BIOL 202C Microbiology (4)
BIOL 211C Genetics (4)
BIOL 212C Ecology (4)
BIOL 215C Freshwater Ecology (4)
BIOL 222C Pathophysiology (3 no lab)
BIOL 229C Nutrition in Exercise and Sports (3 no lab)
BIOL 235C Principles of Evolution (3 no lab)
BIOL 239C Public Health Nutrition (3 no lab)
BIOL 259C Normal and Therapeutic Nutrition (4 no lab)
BIOL 260C Cell Biology (4)
BIOL 279C Life Cycle Nutrition (3 no lab)
CHEM 103C General Chemistry I (4)
CHEM 104C General Chemistry II (4)
CHEM 105C Chemistry (4)
CHEM 110C Introduction to Biochemistry (4)
CHEM 115C Brewing: The Science Behind Beer (4)
CHEM 120C Introduction to Forensic Science (4)
CHEM 125C Introduction to General, Organic, and Biochemistry (4)
CHEM 205C Organic Chemistry (4)
ENVS 101C Fundamentals of Environmental Science (4)
ENVS 220C Introduction to Soil Science
ENVS 250C Agroecology (4)
GEOL 101C Essentials of Geology (4)
PHYS 133C Physics I (Algebra-Based) (4)
PHYS 135C Physics II (Algebra-Based) (4)
PHYS 231C Physics I (Calculus-Based) (4)
PHYS 232C Physics II (Calculus-Based) (4)
PHYS 233C Physics III (Calculus-Based) (4)
SCI 104C Astronomy and Space (4)
SCI 107C Introduction to Meteorology (4)
SCI 110C Alternative Energy Fundamentals (4)

SOCIAL SCIENCE

ANTH 101C Introduction to Anthropology (3)
ANTH 210C Native American Studies I (3)
ECON 101C Macroeconomics (3)
ECON 102C Microeconomics (3)
GEOG 110C Introduction to Cultural Geography (3)
HIST 120C United States History: to 1870 (3)
HIST 121C United States History: 1870 to present (3)
HIST 131C World History I: to 1500 (3)
HIST 132C World History II: 1500-present (3)
HIST 221C New Hampshire History (3)
INDL 101C STEM in the First Year Experience (3)
INDL 120C Global Public Health Issues (3)
POLS 110C American Government (3)
POLS 210C State and Local Government (3)
PSYC 105C Introduction to Psychology (3)*
PSYC 205C Crisis Intervention (3)
PSYC 209C Educational Psychology (3)
PSYC 210C Abnormal Psychology (3)
PSYC 220C Human Growth and Development: The Life Span (3)*
PSYC 225C Social Psychology (3)
PSYC 226AC Sport and Exercise Psychology (3)
SOC 105C Introduction to Sociology (3)*
SOC 180C Environment and Society (3)
SOC 205C The Individual and Society (3)
SOC 214C Race and Ethnic Relations (3)
SOC 226AC Service, Citizenship and Community (SRV)** (3)
SOC 240C Marriage, Family and Personal Relationships (3)
SOC 298C Study Abroad Experience (3)

VISUAL ARTS ***

VRTS 101C Introduction to Drawing (4)
VRTS 102C Introduction to the Visual Arts (3)
VRTS 103C Two-Dimensional Design (3)
VRTS 104C Three-Dimensional Design (3)
VRTS 111C Survey of Western Art History I (3)
VRTS 112C Survey of Western Art History II (3)
VRTS 115C History of Modern Art (3)
VRTS 120C Introduction to Oil Painting (4)
VRTS 121C Introduction to Watercolor (4)
VRTS 125AC Woodworking in the Hand Tool Tradition (4)
VRTS 126C Introduction to Printmaking (4)
VRTS 130C Introduction to Photography (4)
VRTS 133C Introduction to Figural Sculpture (4)
VRTS 135C Introduction to Ceramics (4)
VRTS 140C Digital Photography (3)
VRTS 193C Introduction to Photoshop (3)
VRTS 195C Introduction to Illustrator (3)
VRTS 201C Drawing II (4)
VRTS 210C Life Drawing (4)
VRTS 220C Painting II (4)
VRTS 230C Photography II (4)
VRTS 235C Ceramics II (4)

* Available in Honors format

** Service Learning is a component of this course

*** All Visual Arts courses meet the Fine Arts requirement.

Arts, Humanities and Communications

English

The degree of Associate in Arts in English will be awarded upon successful completion of the program.

Twenty-one credits to be taken in Literature, the credits to be divided up in such a way as to provide students with a working knowledge of genres and history while also allowing room for more concentrated course work in a student's particular interest.

By the end of this program of study, the successful student will have broad understanding of the history, development, and continued place of literature in Western society. The student will demonstrate a knowledge of generally recognized periods of literature, literary genres, and literary criticism. The Associate in Arts—English may serve as a stepping stone to a four-year degree in English or related majors.

Specific Admission Requirements

1. One year of college preparatory mathematics (Algebra I) with a grade of "C" or higher or NHTI's MATH 092C with a grade of "C" or higher

| General Requirements | | | Credits |
|----------------------|---------------|---|-----------|
| ENGL | 101C | English Composition | 4 |
| ENGL | 102C | Introduction to Literature | 3 |
| | | Humanities | 9 |
| | | (HIST 105C Western Civilization II and XX xxxC Humanities/Fine Arts/Foreign Language Elective) | |
| | | Mathematics * | 8 |
| | | (MATH 120C Quantitative Reasoning <i>or</i> higher level math course <i>and</i> MATH xxxC) | |
| | | Science (with lab) | 8 |
| | | (excluding BIOL 100C, CHEM 100C, and PHYS 100C) | |
| | | Social Sciences | <u>9</u> |
| | | (three courses with ANTH, ECON, HIST, POLS, PSYC, or SOCI prefix, excluding HIST 104C and HIST 105C) | |
| | | | 41 |
| Concentration | | | |
| ENGL | 1xxC | Introductory Genre courses beyond ENGL 102C | 6 |
| ENGL | 2xxC and 2xxC | Sequential Survey Courses | 6 |
| ENGL | 255C | Shakespeare | 3 |
| ENGL | 2xxC | Upper level electives | <u>6</u> |
| | | | 21 |

Minimum of 60 credits required for Graduation

* Milestone Course – A course necessary to pass to advance in the program.

Note: a minimum of 16 credits hours must be earned through instruction at NHTI with a minimum of 8 credit hours in courses numbered at the 200-level.

Internship Considerations, see page 152.

General Studies Program

The degree of Associate in Science in General Studies will be awarded upon successful completion of the program.

The General Studies Program provides maximum flexibility for those seeking to begin or to continue their higher education. This program, in which students may design their own curriculum, is especially appealing to those who have unique career or academic goals.

General Studies might be right for you if you:

- Are seeking entry into an NHTI allied health program: Nursing, Radiologic Technology, Dental, Orthopaedic Technology, Paramedic Emergency Medicine, Radiation Therapy, or Diagnostic Medical Sonography. Transfer into these programs is not guaranteed; students who are successful in the General Studies program strengthen their candidacy.
- Would like to custom-design a Degree that meets your specific career goals;
- Would like to combine one of our certificate programs (Paralegal, Accounting, Management, etc.) with other required credits to complete the degree. To see a listing of NHTI's certificate programs, see page 4.

Deciding between Liberal Arts and General Studies? Find out more about Liberal Arts on page 35.

Specific Admission Requirements

Please refer to starred* statement on the next page regarding mathematics graduation requirement.

General Education Core for both Options

| | Credits |
|---|---------------|
| A. ENGL 101C English Composition | 4 |
| B. Social Sciences (two courses with ANTH, ECON, HIST, POLS, PSYC, or SOCI prefix, excluding HIST 104C and HIST 105C) | 6 |
| C. Mathematics * (MATH 120C or higher with the exception of MATH 129C; MATH 129C does not meet the minimum math requirements in this category) | 4 |
| D. Lab Science (excluding BIOL 100C, CHEM 100C, and PHYS 100C) | 4 |
| E. Humanities (ENGL xxxC [excluding ENGL 100C, ENGL 120C, ENGL 120MC, ENGL 135C and ENGL 201C] and XX xxxC and Humanities/Fine Arts/Foreign Language Elective) | 3 <u>3</u> |
| TOTAL CREDITS | 24 |

Other Required Courses for both Options

| | |
|---------------------|----------|
| A. General Elective | <u>3</u> |
| TOTAL | 3 |

Exploration Option

The General Studies Exploration curriculum provides students with broad general knowledge as well as an opportunity to explore an area of concentration. It allows flexibility for students who either have transfer credit or who wish to transfer to another two or four-year program. While students may custom-design their concentration area, they should select these electives based on their intended fields of specialization.

| | Credits |
|--|--------------|
| A. GST 100C College Success Seminar <i>or</i> GST 102C Study Strategies | 1 2 |
| B. Liberal Arts and Sciences electives | 12 |
| C. Electives (courses to meet individual interests and goals; may include a certificate program) | 20-23 |
| TOTAL | 33-37 |
| TOTAL CREDITS | 60-64 |

Experiential Credit Option

The Experiential Credit Option is for individuals who would like to earn as many as 20 experiential credits for previous occupational experience. It is also possible to complete a certificate program for inclusion in this option. The experiential credit, whether combined with a certificate or with coursework in a specific subject area, must relate to and support the student's chosen subject concentration; it may or may not be transferable.

| | Credits |
|---|-------------------|
| A. GST 101C Assessment of Prior Learning | 1 |
| B. Experiential Credit ** | maximum 16 |
| C. Certificate in a specific program area ** (<i>must relate to experiential credit</i>) | variable |
| And/Or | |
| D. Coursework in a specific subject area ** (<i>must relate to experiential credit</i>) | minimum <u>15</u> |
| TOTAL | 32 |
| TOTAL CREDITS | 60 |

* Students must complete MATH 120C to graduate. Depending on results of placement testing, students may be required to complete MATH 092C prior to MATH 120C (please note that MATH 092C Introduction to Algebra with a grade of "C" or higher, or the high school equivalent with a grade of "C" or higher, is the prerequisite for MATH 120C).

** If the combination of experiential credit and certificate program courses totals less than 35 credits, additional coursework must relate to the concentration subject area and must be approved by the General Studies Department Chair.

Note: a minimum of 16 credits hours must be earned through instruction at NHTI with a minimum of 8 credit hours in courses numbered at the 200-level.

Internship Considerations, see page 152.

Liberal Arts

The degree of Associate in Arts in Liberal Arts will be awarded upon successful completion of the program.

The Liberal Arts curriculum provides students with broad general knowledge and skills in the arts and sciences. It is designed to provide a foundation for transfer to four-year programs at other colleges and universities. The Liberal Arts program also provides a starting point for undecided students, as well as those planning to complete prerequisite courses to transfer into Engineering Technology, Math, Biology, Health Science, Environmental Science, or Accounting at NHTI. The program is flexible - students select courses based on the requirements of the program or college to which they plan to transfer.

Deciding between Liberal Arts and General Studies? See page 33 about General Studies.

| Core Requirements | | Credits |
|---------------------------|--|--------------------------|
| ENGL | 101C English Composition | 3-4 |
| ENGL | xxxC English Elective | 3 |
| MATH | xxxC Two Math Electives: MATH 120C or higher MATH xxxC* | 6-8 |
| XX | xxxC Three Humanities Electives: Any INDL, PHIL, ASL, CHIN, FREN, GERM, SPAN, THTR, MUSC, DANC, VRTS, HIST 104C, HIST 105C, or English Literature | 9 |
| XX | xxxC Three Social Science Electives: Any ANTH, ECON, INDL, POLS, PSYC, SOCI or HIST xxxC (excluding HIST 104C and HIST 105C) | 9 |
| XX | xxxC Two Science Electives: One science from the following areas must have a lab: BIOL, CHEM, PHYS, SCI, ENV | 7-8 |
| Total Core Credits | | 37-41 |
| Electives | | |
| XX | xxxC Four to Five Liberal Arts and Sciences Electives (Any General Education Elective) | 12-15 |
| XX | xxxC Three General Electives (Any credited course) | 9-12 |
| TOTAL CREDITS | | 60 credit minimum |

* Milestone Course – A course necessary to pass to advance in the program.

Please Note:

For Optimal Transfer the following courses are recommended: Philosophy Elective, History Elective, Fine Arts Elective, Anthropology or other culture/diversity class. Please refer to target program for specific recommendations.

Other recommended courses: IST 102C PC Applications, as needed, and ENGL 120C or ENGL 120MC based on interest.

All students must complete a minimum of 60 credits of college level coursework with a minimum cumulative GPA of 2.0.

All students must earn at least 15 credits at NHTI with at least eight (8) of those credits numbered at the 200 level.

Internship Considerations, see page 152..

Mindful Communication Certificate

The 11-credit Mindful Communication Certificate consists of four English (ENGL) courses with the "MC" extension. MC courses infuse mindful communication and emotional intelligence (EI) into the teaching of core course content. Students who take these courses as part of their degree program can graduate with both an Associate Degree and a Mindful Communication Certificate.

A certificate in mindful communication makes students more marketable across a broad range of fields, including information technology, healthcare, business, education, and human services. Emotional intelligence is widely recognized as helping people succeed and move up in their careers, and studies also suggest that those with high EI often earn higher salaries than those with low emotional intelligence.

Mindfulness has been linked with an increased ability to focus, improved working memory, improved problem solving, reduced reactivity, reduced stress, and improved health. For more information, contact Department Chair Alan Lindsay at (603) 271-6484 x4242 or alindsay@ccsnh.edu, or Professor Dan Huston at (603) 271-6484 x4212, dhuston@ccsnh.edu.

The certificate is not financial aid eligible as a stand-alone certificate. The certificate is financial aid eligible only when the MC courses are completed as part of a degree program.

| | | CL | LAB | CR |
|------------|-------------------------------------|----|-----|-----------|
| ENGL 120MC | Communication: Mindful | 3 | 0 | 3 |
| ENGL 101MC | English Composition: Mindful | 4 | 0 | 4 |
| ENGL 102MC | Introduction to Literature: Mindful | 3 | 0 | 3 |
| ENGL 294MC | Communicating Mindfully | | | |
| | Capstone | 1 | 0 | <u>1</u> |
| | TOTAL CREDITS | | | 11 |

Visual Arts

The degree of Associate in Arts in Visual Arts will be awarded upon successful completion of the program.

The Visual Arts program provides students the opportunity to acquire a thorough knowledge of the basic means of visual expression and broad exposure to the history of art in preparation for transfer into four-year colleges and universities and a career in the visual arts. The structured curriculum emphasizes visual perception, technical acuity and artistic philosophy geared toward developing a personal aesthetic.

The first-year curriculum provides all students with a common foundation in basic artistic techniques. The following year, students will focus on advanced studio disciplines and prepare a professional portfolio of their work.

All studio classes are held at the Smokestack Realty Building, 254 North State Street, Unit M, Concord, NH.

FIRST YEAR

| FALL SEMESTER | | | CL LAB CR | | | SPRING SEMESTER | | |
|---------------|----------------------------------|--|-----------|---|----------|-----------------|-----------------------------------|--------------|
| ENGL 101C | English Composition | | 4 | 0 | 4 | ENGL xxxC | English Elective | 3 0 3 |
| # VRTS 101C | Introduction to Drawing (studio) | | 2 | 4 | 4 | # VRTS 104C | Three-Dimensional Design (studio) | 2 3 3 |
| # VRTS 103C | Two-Dimensional Design (studio) | | 2 | 3 | 3 | # VRTS 112C | Survey of Western Art History II | 3 0 3 |
| # VRTS 111C | Survey of Western Art History I | | 3 | 0 | <u>3</u> | # VRTS 201C | Drawing II (studio) | 2 4 4 |
| | | | | | 14 | # XX xxxC | Social Science Elective* | 3 0 <u>3</u> |
| | | | | | | | | 16 |

SECOND YEAR

| FALL SEMESTER | | | CL LAB CR | | | SPRING SEMESTER | | |
|---------------|--|--|-----------|-----|----------|-----------------|---|--------------|
| MATH xxxC | Math Elective** | | 3-4 | 0 | 3-4 | MATH xxxC | Math Elective** | 3-4 0 3-4 |
| # VRTS xxxC | Studio Elective | | 2 | 4 | 4 | # VRTS 290C | Visual Arts Capstone Practicum ⁺ | 1 0 1 |
| # VRTS xxxC | Visual Arts Elective (may be studio or history) | | 2-3 | 0-4 | 3-4 | # VRTS 2xxC | Studio Elective (#2) | 2 4 4 |
| XX xxxC | Lab Science Elective*** | | 3 | 2 | 4 | XX xxxC | Lab Science Elective*** | 3 2 4 |
| XX xxxC | Social Science Elective* | | 3 | 0 | <u>3</u> | XX xxxC | General Elective | 3-4 0 3-4 |
| | | | | | 17-19 | XX xxxC | Social Science Elective* | 3 0 <u>3</u> |
| | | | | | | | | 18-20 |
| | | | | | | | | 65-69 |

TOTAL CREDITS

- # Indicates major field courses.
- * Any course with a prefix of ANTH, ECON, HIST, POLS, PSYC or SOCI (except HIST 104C and HIST 105C).
- ** MATH xxxC #1 must be MATH 120C or higher level mathematics course (excludes "institutional credit only" math courses and excludes MATH 129C); MATH xxxC #2 must be a higher level mathematics course than MATH xxxC #1.
- *** BIOL 100C, CHEM 100C and PHYS 100C do not meet this requirement.
- + The final studio course will serve as the capstone course during which the student will create a portfolio of work to be displayed at a public showing.

Specific Admission Requirements

Note: Applicants should be aware that all associate degree programs at NHTI require successful completion of at least one semester of college level mathematics. Therefore, the college strongly recommends that all applicants successfully complete high school Algebra I with a grade of "C" or higher prior to admission. Those students whose placement testing does not demonstrate readiness for college level mathematics may require more than two years to complete their degree.

Internship Considerations, see page 152..

Business and Accounting

Accounting

The degree of Associate in Science with a major in Accounting is awarded upon successful completion of the program.

Excellent is the best word to describe the career potential for today's accounting students. The U.S. Bureau of Labor Statistics states that jobs for bookkeeping, accounting, and auditing clerks are projected to grow 11 percent through 2022. As the number of organizations increases and financial regulations become stricter, there will be greater demand for these workers to maintain books and provide accounting services. Accounting is a critical component of every type and size of business and industry including government, health care, education, not-for-profit, and military organizations. Entry-level accounting employees provide much of the information used by these organizations to help them make financial decisions.

The NHTI Accounting program provides a broad educational background for students who seek careers in accounting, business or finance. Courses in accounting, business law, management, marketing, spreadsheets, economics, English and mathematics are all part of the program.

The NHTI Accounting degree is designed to provide students with accounting skills that prepare them for a variety of entry-level positions and/or transfer to four-year colleges and universities.

The Associate in Science in Accounting degree program is accredited by the Accreditation Council for Business Schools and Programs (ACBSP). The most recent report to ACBSP on student learning and academic achievement in NHTI business programs is available at <https://www.nhti.edu/sites/default/files/content/documents/busstudassess.pdf>.

NHTI has articulation agreements for accounting program students with Franklin Pierce University, New England College, Southern NH University, and a 2 + 2 agreement with Plymouth State University.

Complete this degree during the day, evening or online.

Specific Admission Requirements

1. College preparatory course (or equivalent) in English and/or communications; good verbal abilities and writing skills are major considerations for acceptance into the program;
2. High school Algebra I with a grade of "C" or higher or NHTI's MATH 092C with a grade of "C" or higher.

TRADITIONAL FORMAT FIRST YEAR

| FALL SEMESTER | | CL | LAB | CR |
|-----------------|---------------------------|----|-----|----|
| # ACCT 101C | Accounting I | 3 | 0 | 3 |
| # BUS 170C | Principles of Marketing | 3 | 0 | 3 |
| ENGL 101C | English Composition | 4 | 0 | 4 |
| IST 102C | PC Applications | 3 | 0 | 3 |
| MATH124C | College Algebra <i>or</i> | | | |
| MATH xxxC | Higher level math | 4 | 0 | 4 |
| | | | | 17 |
| SPRING SEMESTER | | CL | LAB | CR |
| # ACCT 102C | Accounting II | 3 | 0 | 3 |
| ENGL xxxC | English Elective | 3 | 0 | 3 |
| IST 200C | Spreadsheets | 3 | 0 | 3 |
| MATH125C | Finite Math <i>or</i> | | | |
| MATH 251C | Statistics | 4 | 0 | 4 |
| XX xxxC | Lab Science Elective* | 3 | 2 | 4 |
| | | | | 17 |

SECOND YEAR

| FALL SEMESTER | | CL | LAB | CR |
|----------------------|--|----|-----|-----------|
| # ACCT 205C | Intermediate Accounting I | 4 | 0 | 4 |
| # ACCT 250C | Cost Accounting | 3 | 0 | 3 |
| # BUS 225C | Business Law I | 3 | 0 | 3 |
| # BUS 270C | Principles of Management | 3 | 0 | 3 |
| | | | | 13 |
| SPRING SEMESTER | | CL | LAB | CR |
| # ACCT 206C | Intermediate Accounting II | 4 | 0 | 4 |
| # ACCT 230C | Taxes | 4 | 0 | 4 |
| ECON 101C | Macroeconomics or | | | |
| ECON 102C | Microeconomics | 3 | 0 | 3 |
| XX xxxC | Humanities/Fine Arts/ Foreign Language Elective | 3 | 0 | 3 |
| | | | | 14 |
| TOTAL CREDITS | | | | 61 |

100% ONLINE FORMAT FIRST YEAR

| FALL SEMESTER | | CL | LAB | CR |
|-----------------|--------------------------------|----|-----|----|
| # ACCT 101C | Accounting I (first 8 week) | 3 | 0 | 3 |
| # ACCT 102C | Accounting II (second 8 week) | 3 | 0 | 3 |
| IST 102C | PC Applications (first 8 week) | 3 | 0 | 3 |
| IST 200C | Spreadsheets (second 8 week) | 3 | 0 | 3 |
| | | | | 12 |
| SPRING SEMESTER | | CL | LAB | CR |
| # ACCT 205C | Intermediate Accounting I | 4 | 0 | 4 |
| ENGL 101C | English Composition | 4 | 0 | 4 |
| # BUS 270C | Principles of Management | 3 | 0 | 3 |
| XX xxxC | Lab Science Elective* | 3 | 2 | 4 |
| | | | | 15 |
| SUMMER SEMESTER | | CL | LAB | CR |
| # ACCT 230C | Taxes | 4 | 0 | 4 |
| # ACCT 250C | Cost Accounting | 3 | 0 | 3 |
| | | | | 7 |

SECOND YEAR

| FALL SEMESTER | | CL | LAB | CR |
|----------------------|--|----|-----|-----------|
| # ACCT 206C | Intermediate Accounting II | 4 | 0 | 4 |
| # BUS 225C | Business Law I | 3 | 0 | 3 |
| ENGL xxxC | English Elective | 3 | 0 | 3 |
| MATH 124C | College Algebra | 4 | 0 | 4 |
| | | | | 14 |
| SPRING SEMESTER | | CL | LAB | CR |
| # BUS 170C | Principles of Marketing | 3 | 0 | 3 |
| ECON 101C | Macroeconomics or | | | |
| ECON 102C | Microeconomics | 3 | 0 | 3 |
| MATH 251C | Statistics | 4 | 0 | 4 |
| XX xxxC | Humanities/Fine Arts/ Foreign Language Elective | 3 | 0 | 3 |
| | | | | 13 |
| TOTAL CREDITS | | | | 61 |

- # Indicates major field courses.
 * BIOL 100C, CHEM 100C and PHYS 100C do not meet this requirement

Technical Requirements

Students who enroll in the program should comprehend the English language, both oral and written, and have sufficient manual dexterity to produce legible written documents in a timely manner. They should be able to sit or stand at a desk or workstation and stay on task for extended periods of time. They should be detail-oriented, able to read small print, and perform basic mathematical operations.

Accounting Basic Certificate

The basic accounting certificate is designed to provide students with specific accounting, computer and related business skills for entry into business or industry. Upon completion of the basic accounting certificate, students will have sufficient skills to obtain jobs as accounts receivable clerks, accounts payable clerks, accounting technicians, bookkeepers or payroll clerks. For more information, contact Lynn Hedge at (603) 271-6484 x4202. This program is available days and evenings. **This program is financial aid eligible.** To be eligible for federal financial aid, students must submit an official, final high school transcript, or the equivalent documentation that demonstrates high school completion, to the NHTI Admissions Office. Complete this degree during the day, evening or online.

| | CL | LAB | CR |
|----------------------------------|----|-----|-----------|
| ACCT 101C Accounting I | 3 | 0 | 3 |
| ACCT 102C Accounting II | 3 | 0 | 3 |
| BUS 170C Principles of Marketing | 3 | 0 | 3 |
| BUS 225C Business Law I | 3 | 0 | 3 |
| IST 102C PC Applications | 3 | 0 | 3 |
| IST 200C Spreadsheets | 3 | 0 | <u>3</u> |
| TOTAL CREDITS | | | 18 |

Accounting Advanced Certificate

The advanced accounting certificate is designed to build upon the skills learned in the basic accounting certificate. Upon completion of the advanced accounting certificate, students will have sufficient skills to obtain jobs as full-charge bookkeepers or junior accountants. The Basic Accounting Certificate must be successfully completed in order to receive the Advanced Accounting Certificate.

Although students completing the advanced certificate will have the necessary background to perform the tasks of a full-charge bookkeeper or a junior accountant, students should be aware some employers will require the completion of an associate degree to be considered for employment in these job categories. For more information, contact Lynn Hedge at (603) 271-6484 x4202. The advanced accounting certificate is available days and evenings. **This program is financial aid eligible.** To be eligible for federal financial aid, students must submit an official, final high school transcript, or the equivalent documentation that demonstrates high school completion, to the NHTI Admissions Office. Complete this degree during the day, evening or online.

| | CL | LAB | CR |
|--------------------------------------|----|-----|-----------|
| ACCT 205C Intermediate Accounting I | 4 | 0 | 4 |
| ACCT 206C Intermediate Accounting II | 4 | 0 | 4 |
| ACCT 230C Taxes | 4 | 0 | 4 |
| ACCT 250C Cost Accounting | 3 | 0 | 3 |
| BUS 270C Principles of Management | 3 | 0 | <u>3</u> |
| TOTAL CREDITS | | | 18 |

Prerequisite: Applicants must submit proof of high school level Algebra I with a grade of “C” or higher or NHTI’s MATH 092C with a grade of “C” or higher. Note also that the Account Basic certificate is a prerequisite for Accounting Advanced.

Business Administration

The degree of Associate in Science with a major in Business Administration is awarded upon successful completion of the program.

The Business Administration Program is designed to prepare students for the day-to-day challenges in the dynamic field of business. The program offers a broad background for students who seek careers in many areas of business. The associate degree curriculum includes courses in accounting, business law, supervision, computer applications, economics, English, mathematics and applied behavioral sciences.

NHTI has transfer affiliations with four-year institutions including Franklin Pierce University, Granite State College, New England College, Plymouth State University, Rivier University, Southern New Hampshire University, and UNH-Manchester.

The Associate in Science in Business Administration degree program is accredited by the Accreditation Council for Business Schools and Programs (ACBSP). The most recent report to ACBSP on student learning and academic achievement in NHTI business programs is available at <https://www.nhti.edu/sites/default/files/content/documents/busstudassess.pdf>.

Complete this degree during the day, evening or online.

Specific Admission Requirements

1. College preparatory course (or equivalent) in English and/or communications; good verbal abilities and writing skills are major considerations for acceptance into the program.

Note: Applicants should be aware that all associate degree programs at NHTI require successful completion of at least one semester of college level mathematics. Therefore, the college strongly recommends that all applicants successfully complete high school Algebra I with a grade of "C" or higher prior to admission. Those students whose placement testing does not demonstrate readiness for college level mathematics may require more than two years to complete their degree.

FIRST YEAR

| FALL SEMESTER | CL | LAB | CR | SPRING SEMESTER | CL | LAB | CR |
|---|----|-----|----------|---------------------------------------|----|-----|----------|
| ACCT 101C Accounting I | 3 | 0 | 3 | ACCT 102C Accounting II | 3 | 0 | 3 |
| # BUS 101C Introduction to Business | 3 | 0 | 3 | # BUS 170C Principles of Marketing | 3 | 0 | 3 |
| ENGL 101C English Composition | 4 | 0 | 4 | BUS xxxC Business Elective* | 3 | 0 | 3 |
| IST 102C PC Applications | 3 | 0 | 3 | ENGL 120C Communications <i>or</i> | | | |
| MATH120C Quantitative Reasoning <i>or</i> | | | | ENGL xxxC English Elective | 3 | 0 | 3 |
| MATH xxxC Higher level math | 4 | 0 | <u>4</u> | MATH125C Finite Mathematics <i>or</i> | | | |
| | | | 17 | MATH251C Statistics | 4 | 0 | <u>4</u> |
| | | | | | | | 16 |

SECOND YEAR

| FALL SEMESTER | CL | LAB | CR | SPRING SEMESTER | CL | LAB | CR |
|-------------------------------------|-----|-----|----------|--|----|-----|--------------|
| ACCT 110C Managerial Accounting | 3 | 0 | 3 | # BUS 240C Small Business Management | 3 | 0 | 3 |
| # BUS 225C Business Law I | 3 | 0 | 3 | # BUS 273C Human Resource Management | 3 | 0 | 3 |
| # BUS 270C Principles of Management | 3 | 0 | 3 | XX xxxC Lab Science Elective** | 3 | 2 | 4 |
| BUS xxxC Business Elective* | 3-4 | 0 | 3-4 | XX xxxC Humanities/Fine Arts/ Foreign Language Elective | 3 | 0 | <u>3</u> |
| ECON 101C Macroeconomics <i>or</i> | | | | | | | 13 |
| ECON 102C Microeconomics | 3 | 0 | <u>3</u> | | | | |
| | | | 15-16 | TOTAL CREDITS | | | 61-62 |

Indicates major field course.

* BUS, ACCT, or IST course that is not a required course, as well as HLTH 101C or HLTH 104C

** BIOL 100C, CHEM 100C and PHYS 100C DO NOT meet the science requirement.

Internship Considerations, see page 152.

Management Certificate

This certificate is designed for students who either seek employment in supervisory/management positions or wish to increase their knowledge and update their skills for advancement with their current employer. Flexibility is the key, with four core courses and two choices for electives. Students with an interest in marketing, for example, could take Marketing and Sales, while others who are following a human resource interest might enroll in Organizational Behavior and Human Resource Management.

This program is available days and evenings **and is financial aid eligible**. To be eligible for federal financial aid, students must submit an official, final high school transcript, or the equivalent documentation that demonstrates high school completion, to the NHTI Admissions Office.

Complete this degree during the day, evening or online.

| Required Core Courses | CL | LAB | CR |
|-------------------------------------|-----------|------------|-----------|
| ACCT 101C Accounting I | 3 | 0 | 3 |
| BUS 101C Introduction to Business | 3 | 0 | 3 |
| BUS 225C Business Law I | 3 | 0 | 3 |
| BUS 270C Principles of Management | 3 | 0 | <u>3</u> |
| | | | 12 |
| <i>Choose two electives:</i> | | | |
| BUS 152C Foundations of Leadership | 3 | 0 | 3 |
| BUS 170C Principles of Marketing | 3 | 0 | 3 |
| BUS 174C Principles of Sales | 3 | 0 | 3 |
| BUS 221C Health Care Management | 3 | 0 | 3 |
| BUS 242C Business Ethics | 3 | 0 | 3 |
| BUS 245C Organizational Behavior | 3 | 0 | 3 |
| BUS 273C Human Resource Management | 3 | 0 | <u>3</u> |
| | | | 6 |
| TOTAL CREDITS | | | 18 |

Sports Management Degree

The degree of Associate in Science in Sports Management will be awarded upon successful completion of the program.

The sporting industry is a growing industry with many job opportunities working in many areas such as media, event planning, retail management, amateur and professional sport organizations. Students will take courses specializing in sports management with seasoned faculty who have years of professional experience.

Sports management is an exciting field because it offers a wide variety of career options and paths. Some of the areas include media, retail sports, sports travel, facility and event management. Whether a person's dream job is coaching or promoting sporting events, understanding the business, legal and marketing aspects of sports management is an invaluable tool.

The economic impact of the sports industry is \$14.3 billion per year. The industry contributes 456,000 jobs with an average salary of \$39,000 per job. According to the New Hampshire Job Outlook, a Public Relations Specialist earns over \$50,000 with 21 openings per year. Many career opportunities exist in sports related fields, but such jobs require appropriate preparation. The thorough curriculum and relevant internship experiences offered by the Sports Management Program prepares NHTI students for immediate employment in the field, or for further studies on the baccalaureate or graduate levels.

The Associate in Science in Sports Management degree program is accredited by the Accreditation Council for Business Schools and Programs (ACBSP). The most recent report to ACBSP on student learning and academic achievement in NHTI business programs is available at <https://www.nhti.edu/sites/default/files/content/documents/busstudassess.pdf>.

Specific Admission Requirements

1. College preparatory course (or equivalent) in English and/or communications; good verbal abilities and writing skills are major considerations for acceptance into the program.

Note: Applicants should be aware that all associate degree programs at NHTI require successful completion of at least one semester of college level mathematics. Therefore, the college strongly recommends that all applicants successfully complete high school Algebra I with a grade of "C" or higher prior to admission. Those students whose placement testing does not demonstrate readiness for college level mathematics may require more than two years to complete their degree.

| FIRST YEAR | | | | | | | | | |
|--|----|-----|----------|--|--|--|--|--------------|--------------|
| FALL SEMESTER | | | | SPRING SEMESTER | | | | | |
| | CL | LAB | CR | | | | | CL | LAB CR |
| DCOM105C Digital Communications | 3 | 0 | 3 | ACCT 101C Accounting I | | | | 3 | 0 3 |
| ENGL 101C English Composition | 4 | 0 | 4 | ECON 101C Macroeconomics <i>or</i> | | | | | |
| MATH120C Quantitative Reasoning <i>or</i> | | | | ECON 102C Microeconomics | | | | 3 | 0 3 |
| higher level math course [^] | 4 | 0 | 4 | MATH251C Statistics | | | | 4 | 0 4 |
| # SPTS 101C Introduction to Sports Management | 3 | 0 | 3 | BUS 107C Principles of Marketing <i>or</i> | | | | | |
| SOCI xxxC Social Science Elective+ | 3 | 0 | <u>3</u> | # SPTS 170C Sports and Recreation Marketing | | | | 3 | 0 3 |
| | | | 17 | # SPTS 180C Public Relations and Advertising | | | | 3 | 0 <u>3</u> |
| | | | | for the Sports Industry | | | | | 16 |
| SECOND YEAR | | | | | | | | | |
| FALL SEMESTER | | | | SPRING SEMESTER | | | | | |
| | CL | LAB | CR | | | | | CL | LAB CR |
| # ACCT 102C Accounting I | 3 | 0 | 3 | BUS 225C Business Law I <i>or</i> | | | | | |
| # SPTS 210C Sports and Fitness Facilities | | | | # SPTS 225C Sports and Recreation Law | | | | 3 | 0 3 |
| Management | 3 | 0 | 3 | # BUS 270C Principles of Management | | | | 3 | 0 3 |
| # SPTS 220C Sports Communication | 3 | 0 | 3 | # SPTS 250C Sports and Society | | | | 4 | 0 4 |
| # SPTS 290C Sports Management Internship <i>or</i> | 0 | 9 | 3 | XX xxxC Science Elective* [^] | | | | 3-4 | 0 <u>3-4</u> |
| SPTS/BUS/DCOM xxxC | | | | | | | | | 13-14 |
| SPTS/BUS/DCOM Elective | 3 | 0 | 3 | TOTAL CREDITS | | | | 61-62 | |
| XX xxxC Humanities/Fine Arts/Foreign | | | | | | | | | |
| Language Elective | 3 | 0 | <u>3</u> | | | | | | |
| | | | 15 | | | | | | |

Indicates major field courses.

[^] Advising is important to explain to students which course(s) will transfer to a 4-year institution.

+ Any course with a prefix of ANTH, ECON, HIST, POLS, PSYC or SOCI (except HIST 104C and HIST 105C).

* BIOL 100C, CHEM 100C and PHYS 100C do not meet this requirement

Internship Considerations, see page 152.

Sports Management Certificate

This 8-course certificate program is designed to orient students to the world of sports-related businesses while providing a broad overview regarding possible careers or future studies in sports management. Courses in this program will transfer into the associate degree program at NHTI entitled Associate in Science in Business Administration with a Concentration in Sports Management.

This program is financial aid eligible. To be eligible for federal financial aid, students must submit an official, final high school transcript, or the equivalent documentation that demonstrates high school completion, to the NHTI Admissions Office.

| | | CL | LAB | CR |
|-----------|---|----|-----|-----------|
| SPTS 101C | Introduction to Sports Management | 3 | 0 | 3 |
| SPTS 170C | Sports and Recreation Marketing | 3 | 0 | 3 |
| SPTS 180C | Public Relations and Advertising for the Sports Industry | 3 | 0 | 3 |
| SPTS 210C | Sports Facilities | 3 | 0 | 3 |
| SPTS 220C | Sports Communication | 3 | 0 | 3 |
| SPTS 225C | Sports and Recreation Law | 3 | 0 | 3 |
| SPTS 250C | Sport and Society | 4 | 0 | 4 |
| SPTS 290C | Sports Management Internship or SPTS/BUS/RECR xxxC | 0 | 9 | 3 |
| | SPTS/BUS/RECR Elective | 3 | 0 | <u>3</u> |
| | TOTAL CREDITS | | | 25 |

Internship Considerations, see page 152.

Health Sciences and Services

Coaching Certificate

The Coaching Certificate program focuses on enhancing the leadership skills of not only the coach but the athlete as well. Courses emphasize practical topics that foster successful coaching strategies at any level. This specialization is designed for those interested in athletic coaching opportunities, while also offering professional development for existing coaches, through an exploration of current, sports-relevant topics. Students have an opportunity to apply their interests and abilities in a variety of courses. The curriculum is designed to develop a working knowledge of the skills needed to coach successfully and to facilitate a transfer to a four-year college or university program. **This program is financial aid eligible.** To be eligible for federal financial aid, students must submit an official, final high school transcript, or the equivalent documentation that demonstrates high school completion, to the NHTI Admissions Office.

FIRST YEAR

| FALL SEMESTER | CL | LAB | CR |
|---|----|-----|----------|
| ENGL 120C Communications | 3 | 0 | 3 |
| HLTH 150C Introduction to Personal Wellness | 1 | 1 | 1 |
| PHIL 242C Contemporary Ethical Issues | 3 | 0 | <u>3</u> |
| | | | 7 |
| SPRING SEMESTER | | | |
| BIOL 129C Introduction to Sports Nutrition | 3 | 0 | 3 |
| HLTH 120C Care and Prevention of Athletic Injuries | 3 | 2 | 4 |
| HLTH 125C Coaching Principles I | 3 | 0 | <u>3</u> |
| | | | 10 |
| TOTAL CREDITS | | | 17 |

Dental Assisting Professional Certificate

A Professional Certificate in Dental Assisting is awarded upon successful completion of the program.

The Allied Dental Education Dental Assisting Certificate is the **only Commission on Dental Accreditation of the American Dental Association accredited Program in the State of New Hampshire**. The one-year program offers students an excellent opportunity to become involved in a health care profession as a member of the dental team in private dental offices, public dental clinics, and institutions.

The dental assistant must possess knowledge of procedures and practices in patient care, laboratory work, and office management. The Dental Assisting Program emphasizes clinical training in the campus clinic and in private dental offices. Theoretical courses are enhanced by laboratory experiences, and students perfect their clinical skills working in a variety of dental offices including general and specialty practices.

The program in dental assisting is accredited by the Commission on Dental Accreditation and has been granted the accreditation status of "approval without reporting requirements". The Commission is a specialized accrediting body recognized by the United States Department of Education. The Commission on Dental Accreditation can be contacted at (312) 440-4653 or at 211 East Chicago Avenue, Chicago, IL 60611. The Commission's web address is: <http://www.ada.org/en/coda>.

Students in the Dental Assisting Program may be exposed to blood-borne pathogens and infectious diseases while providing clinical services. It is for this reason that students are provided with instruction on infectious diseases, mechanisms of disease transmission, and infection control procedures, to reduce the risk of disease transmission, including those published by national public health agencies, the Occupational Safety and Health Administration (OSHA) and the U.S. Centers for Disease Control and Prevention (CDC).

Background and Drug/Alcohol Testing

As a pre-clinical requirement, students will be required to undergo a criminal background check and drug and alcohol screening through agencies chosen by the Dental Assisting program. In addition, all students are subject to random screening throughout the program. No student will be exempt from this process. Students are provided with procedural and cost information subsequent to admission to the dental assisting program and are responsible for all costs associated with these testing procedures.

Clinical Clearance

Once admitted to the Dental Assisting Program, students must provide verification of Clinical Clearance from the Health Services Office by July 13th. Clinical Clearance forms are completed by the staff of the NHTI Health Services Office. **Failure to submit this information will prohibit the student from entering the program.** For a complete list of Clinical Clearance health requirements for NHTI Allied Health Programs, see the Health Services web page at <https://www.nhti.edu/student-life/health-and-counseling-services/health-services>. Professional liability insurance is available through the college and automatically charged to the student's account.

This program is financial aid eligible. To be eligible for federal financial aid, students must submit an official final high school transcript, or the equivalent documentation that demonstrates high school completion, to the NHTI Admissions Office. Students may also apply for admission into the Health Sciences Program and, with an additional year of study, receive a degree of Associate in Science with a major in Health Science.

Specific Admission Requirements

Preference will be given to applicants whose applications are complete and received by the NHTI Admissions Office no later than January 24, 2020, for Fall 2020 admission (with the exception of the interview).

1. A course in high school science (biology or chemistry), or the equivalent, must have been completed with a minimum grade of “C”;
2. An informational group interview with the Dental Admissions Committee is required; qualified candidates will be contacted after the deadline to arrange an interview;
3. Observe professional practices in a dental office for a period of not less than twenty (20) hours; please submit the completed Observation Form to the NHTI Admissions Office no later than the application deadline. Please note: the observation is only valid for 2 years. A form is available on the website at <https://www.nhti.edu/sites/default/files/content/documents/daobservationform.pdf>. (Dental office employees are not required to complete the hours of observation, but are required to complete and submit the form.)
4. Also, see Health, Character, and Technical Standards, page 70, for additional requirements.

Please Note: Students who wish to enter the Dental Assisting program and are currently enrolled in another NHTI program must complete and submit the Change of Program form on the website at https://www.nhti.edu/sites/default/files/content/documents/change_program_dual_major.pdf prior to the application date listed above.

| FALL SEMESTER | | | | CL LAB CR | | | | SPRING SEMESTER | | | | CL LAB CR | | | |
|---|---|--|--|------------------|---|--|----|--|---|----|--|------------------|---|--|----|
| # ADED 110C Dental Assisting Science I | | | | 3 | 0 | | 3 | # ADED 111C Dental Assisting Science II | | | | 2 | 0 | | 2 |
| # ADED 105C Dental Radiology for Dental Assisting | 2 | | | 3 | | | 3 | # ADED 155C Oral Hygiene Education/Nutrition | 2 | | | 2 | 0 | | 2 |
| # ADED 161C Dental Materials - Dental Assisting | 2 | | | 3 | | | 3 | # ADED 182C Office Procedures and Management | | | | | | | |
| # ADED 175C Dental Assisting Theory I | 2 | | | 0 | | | 2 | with Computer Applications | 1 | | | 0 | | | 1 |
| # ADED 191C Dental Assisting | | | | | | | | # ADED 196C Dental Assisting Clinical | | | | | | | |
| Clinical Experience I** | | | | 0 | 4 | | 1 | Experience II** | 0 | 15 | | 5 | | | |
| ENGL 101C English Composition | 4 | | | 0 | | | 4 | # ADED 239C Concepts of Risk Management | 2 | | | 0 | | | 2 |
| PSYC 105C Introduction to Psychology | 3 | | | 0 | | | 3 | # ADED 275C Dental Assisting Theory II | 1 | | | 3 | | | 2 |
| | | | | | | | 19 | ENGL 120C Communications* | 3 | | | 0 | | | 3 |
| | | | | | | | | | | | | | | | 17 |
| | | | | | | | | SUMMER SEMESTER | | | | CL LAB CR | | | |
| | | | | | | | | # ADED 298C Dental Assisting Clinical | | | | | | | |
| | | | | | | | | Experience III (6 weeks) | 2 | 8 | | 4 | | | |
| | | | | | | | | | | | | | | | 4 |
| | | | | | | | | TOTAL CREDITS | | | | | | | |
| | | | | | | | | | | | | | | | |

Indicates major field courses.

* May be taken in the Spring or Summer semester in order to access Financial Aid which requires a minimum of six (6) credit hours.

** All students enrolled in a clinical course will be charged a \$500 per semester clinical surcharge. The following courses carry this charge: ADED 191C and ADED 196C.

Internship Considerations, see page 152.

Health, Character and Technical Standards, see page 70.

Use of Computers in the Allied Dental Education Programs

Allied Dental Education students will be using computers throughout their programs. Faculty will be instructing them in the application of dental software, as well as the use of conventional software to generate papers, do oral presentations and spreadsheets. To make this process easier for students, it is strongly recommended that they have a good working knowledge of computers before entering the program. Computer literacy courses, such as IST 102C, are available through the college.

Dental Hygiene

The degree of Associate in Science with a major in Dental Hygiene is awarded upon successful completion of the program.

The Allied Dental Education Program's Dental Hygiene Degree program is the **only Dental Hygiene program accredited by the Commission on Dental Accreditation of the American Dental Association in the State of New Hampshire.**

The Dental Hygiene program provides an extensive educational background for students seeking careers as Dental Hygienists. The program places a major emphasis on clinical work experience in the NHTI campus clinic as well as a variety of outside agencies and clinics. The clinical work is combined with classroom study in Dental Sciences, Biological Science, Nutrition, English and Social Sciences.

Graduates are able to find employment as Registered Dental Hygienists or to continue their education at the baccalaureate level.

The program in dental hygiene is accredited by the Commission on Dental Accreditation and has been granted the accreditation status of "approval without reporting requirements". The Commission is a specialized accrediting body recognized by the United States Department of Education. The Commission on Dental Accreditation can be contacted at (312) 440-4653 or at 211 East Chicago Avenue, Chicago, IL 60611. The Commission's web address is: <http://www.ada.org/en/coda>.

Students in the Dental Hygiene Program may be exposed to blood-borne pathogens and infectious diseases through the provision of clinical services. It is for this reason that students are provided instruction on infectious diseases, mechanisms of disease transmission, and infection control procedures to reduce the risk of disease transmission, including those published by national public health agencies, the Occupational Safety and Health Administration (OSHA) and the U.S. Centers for Disease Control and Prevention (CDC).

The Policy for Dental Hygiene Students Regarding Bloodborne Pathogens and Infectious Diseases and the Policy Regarding Individuals with Bloodborne Pathogens and Infectious Diseases may be found at <https://www.nhti.edu/academics/programs-study/health-and-science-programs/dental-hygiene-degree> or upon request to the Dental Hygiene Department.

Background and Drug/Alcohol Testing

As a pre-clinical requirement, students will be required to undergo a criminal background check and drug and alcohol screening through agencies chosen by the Dental Hygiene program. In addition, all students are subject to random screening throughout the program. No student will be exempt from this process. **Students are provided with procedural and cost information subsequent to admission to the dental hygiene program and are responsible for all costs associated with these testing procedures.**

Admission to the Dental Hygiene program is very competitive. Selection is determined by a cumulative point system; points are awarded based on prerequisite course grades, the grades for any college courses previously taken that are required in the dental hygiene curriculum, and the CDA (Certified Dental Assistant) credential if applicable. A copy of the Dental Assisting National Board certificate must be submitted to the Admissions Office in order to be included in the review.

In addition, double points are awarded for grades earned in the college science courses, i.e. Anatomy & Physiology I and II, Microbiology and Introduction to General, Organic and Biochemistry; these science courses must be completed with a grade of "C" or higher and no more than 5 years prior to the start term of the program to be applicable.

Though an associate degree program, successful applicants complete most of their college liberal arts courses in advance of applying to the program to obtain a sufficient number of points to be competitive. Only courses completed (with final grades) by the application deadline will be considered as part of the admissions review process.

Clinical Clearance

Once admitted to the Dental Hygiene Program, students must provide verification of Clinical Clearance from the Health Services Office by July 13th. Clinical Clearance forms are completed by the staff of the NHTI Health Services Office. Failure to submit this information will prohibit the student from entering the program. For a complete list of Clinical Clearance health requirements for NHTI Allied Health Programs, see the Health Services web page at <https://www.nhti.edu/student-life/health-and-counseling-services/health-services>. Professional liability insurance is arranged by the College and will automatically be charged to the student's account.

NHTI has a transfer affiliation with Vermont Technical College.

For information about transferring to other institutions see Academic Requirements & Policies at <https://www.nhti.edu/academics/requirements-policies>.

Admission

Applicants must complete an Application for Admissions, available at <https://www.nhti.edu/admissions/how-apply>, and submit all required application materials to the Office of Admissions by January 24, 2020 application deadline for the Fall 2020 semester. Materials received after the priority deadline will only be reviewed pending space availability in the program. **All Specific Admission Requirements must be met for consideration.**

Specific Admission Requirements

1. College preparatory level courses in biology and chemistry, with labs, with grades of "C" or higher;
2. Algebra I with a grade of "C" or higher or NHTI's MATH 092C with a grade of "C" or higher;

- An informational group interview with the Dental Admissions Committee; qualified candidates will be contacted after the deadline to arrange an interview;
- Observe professional practices in a dental office for a period of not less than twenty (20) hours; please submit the completed Observation Form to the NHTI Admissions Office no later than the application deadline listed above; the form is available on the website at <https://www.nhti.edu/academics/programs-study/health-and-science-programs/dental-hygiene-degree> or by contacting the Admissions Office at (603) 230-4011. Please note: the observation is only valid for 2 years.

Please Note: Students who wish to enter the Dental Hygiene program and are currently enrolled in another NHTI program must complete and submit the Change of Program form on the website at https://www.nhti.edu/sites/default/files/content/documents/change_program_dual_major.pdf prior to the application date listed above.

FIRST YEAR

| FALL SEMESTER | CL | LAB | CR | SPRING SEMESTER | CL | LAB | CR |
|---|----|-----|----------|---|-----------|------------|-----------|
| # ADED 100C Dental Hygiene I | 2 | 0 | 2 | BIOL 196C Anatomy and Physiology II | 3 | 2 | 4 |
| # ADED 113C Clinical Dental Hygiene I+ | 1 | 8 | 3 | # ADED 103C Dental Hygiene II | 2 | 0 | 2 |
| # ADED 134C Oral Anatomy I | 2 | 1 | 2 | # ADED 114C Clinical Dental Hygiene II+ | 1 | 8 | 3 |
| BIOL 195C Anatomy and Physiology I | 3 | 2 | 4 | # ADED 136C Oral Anatomy II | 2 | 0 | 2 |
| CHEM 125C Introduction to General, Organic, and Biochemistry | 3 | 2 | 4 | # ADED 140C Dental Radiology for Dental Hygiene 2 | 3 | 3 | |
| ENGL 101C English Composition | 4 | 0 | <u>4</u> | MATH 120C Quantitative Reasoning <i>or</i> | | | |
| | | | 19 | MATH xxxC higher level Mathematics Elective* | 4 | 0 | <u>4</u> |
| | | | | | | | 18 |
| | | | | SUMMER SEMESTER | CL | LAB | CR |
| | | | | # ADED 162C Dental Materials for Dental Hygiene | 2 | 3 | 3 |
| | | | | # ADED 201C Dental Hygiene III | 2 | 1 | 2 |
| | | | | # ADED 244C Pain Management | | | |
| | | | | for the Dental Hygienist I | 1 | 3 | 2 |
| | | | | BIOL 202C Microbiology | 3 | 3 | <u>4</u> |
| | | | | | | | 11 |

SECOND YEAR

| FALL SEMESTER | CL | LAB | CR | SPRING SEMESTER | CL | LAB | CR |
|--|----|-----|----------|--|----|-----|-----------|
| # ADED 126C Nutrition | 2 | 0 | 2 | # ADED 221C Clinical Dental Hygiene IV+ | 1 | 12 | 4 |
| # ADED 212C Clinical Dental Hygiene III+ | 1 | 12 | 4 | # ADED 225C Dental Hygiene Community Clinic** | 0 | 4 | 1 |
| # ADED 242C Community Dental Health I | 2 | 0 | 2 | # ADED 227C Dental Ethics and Jurisprudence | 1 | 0 | 1 |
| # ADED 247C Dental Hygiene Science – Pharmacology | 2 | 0 | 2 | # ADED 243C Community Dental Health II | 1 | 0 | 1 |
| # ADED 248C Dental Hygiene Science – Oral Pathology | 2 | 0 | 2 | # ADED 246C Pain Management for the Dental Hygienist II | 0 | 4 | 1 |
| PSYC 105C Introduction to Psychology | 3 | 0 | <u>3</u> | ENGL 120C Communications | 3 | 0 | 3 |
| | | | 15 | SOCI 105C Introduction to Sociology | 3 | 0 | 3 |
| | | | | XX xxxC Humanities/Fine Arts/ Foreign Language Elective | 3 | 0 | <u>3</u> |
| | | | | | | | 17 |
| | | | | TOTAL CREDITS | | | 80 |

Indicates major field courses.

* Students may elect to take a higher level math course; MATH 120C or MATH 124C meet this requirement.

** ADED 225C Dental Hygiene Community Clinic will be offered in the fall semester and completed in the Spring semester.

+ All students enrolled in a clinical course will be charged a \$500 per semester clinical surcharge. The following courses carry this charge: ADED 113C, ADED 114C, ADED 212C and ADED 221C.

A grade of “C” or higher is required in BIOL 195C, BIOL 196C, BIOL 202C and CHEM 125C, and in ADED courses (unless course syllabi state otherwise), to progress in the Dental Hygiene Program. Courses with virtual/online labs are not accepted.

Internship Considerations, see page 152.

Health, Character and Technical Standards, see page 70.

Readmission Policy for Dental Hygiene Program

Readmission to the NHTI Dental Hygiene Program is not guaranteed. Students who have withdrawn from the program due to extenuating circumstances or students who have been suspended from the program due to a failure in a non-clinical course may be considered for readmission only one time. **Students who have been dismissed from the program due to failure in a clinical course will not be considered.** Applicants for

readmission for any semester of the first clinical year (semester 1 and 2) who have been absent for one semester or longer will be required to repeat ADED 113C, Clinical Dental Hygiene I, and ADED 114C, Clinical Dental Hygiene II (if completed previously). Acceptances for readmission for the first year dental hygiene program are based on a careful review of the student's academic record, a study of the reasons for readmission, and an assessment of the student's potential for academic progress in the future.

Applicants for readmission for any semester of the second clinical year (semester 3-5), who have been absent one semester or longer, will be required to repeat the clinical course scheduled in the semester readmission is requested. The process of reconsideration will include:

1. Careful review of the student's academic record.
2. Study of the reasons for readmission.
3. Assessment of the student's potential for academic progress in the future
4. Successful passing of a comprehensive test on the basic skills required up to the point of withdrawal from the program to assure clinical competency for patient care.

Diagnostic Medical Imaging

Mission Statement

In concert with the College's Mission Statement, the Diagnostic Medical Imaging Department provides the highest standards of theoretical and clinical educational experiences for its students, thereby empowering them to improve the public's health by ensuring access to quality Sonographic and Radiologic health care. Through a process of continuous improvement, we will exceed expectations in educating our students.

Computed Tomography Certificate

The certificate of Computed Tomography (CT) is awarded upon the successful completion of the program.

The Computed Tomography program integrates scientific concepts and working skills through intensive clinical experience and classroom study. The program requires 3 semesters/12 months of study. The CT technologist specializes in the medical application of CT imaging techniques and equipment used in screening, diagnosis, and treatment. Graduates are eligible to apply for the post-primary pathway and sit for the CT certification examination conducted by the American Registry of Radiologic Technologists (ARRT). Graduates find employment in hospitals and private clinics. **This program is financial aid eligible.** To be eligible for federal financial aid, students must submit an official, final high school transcript, or the equivalent documentation that demonstrates high school completion, to the NHTI Admissions Office.

Specific Admission Requirements

Preference will be given to applicants whose applications are complete and received by the NHTI Admissions Office no later than January 3, 2020 for Summer 2020 admission (with the exception of the interview).

1. Before the start of the program, the applicant must be certified and registered by The American Registry of Radiologic Technologists® (ARRT) in any of the following disciplines:
 - Radiography
 - Nuclear Medicine Technology
 - Radiation Therapy
2. The following college level courses are required with grades of “C” or higher:
 - Algebra, statistics or higher level mathematics course;
 - Human Anatomy and Physiology I and II, with laboratories;
 - Communication Skills (may be met by a variety of courses including English, speech or composition);
 - General college-level physics and/or radiographic physics.
3. Personal interview will be arranged with the applicant by the Admissions Office once the admission file is complete;
4. Three letters of recommendation must be submitted to the admissions department;
5. The applicant must complete a course in Cardiopulmonary Resuscitation and Airway Obstruction Management for the Healthcare Provider/Professional Rescuer before program registration.

Admission to the Computed Tomography program

Selection is determined by a cumulative point system that is based on college courses and grades and a personal interview. Radiography and Radiation Therapy programs are offered at NHTI.

| FIRST YEAR | | | | | | | | | | | |
|----------------------------|-----------------------------------|---|----|----------|------------|--------------------------------|--|---|----|----------|----|
| SUMMER SEMESTER (11 WEEKs) | | | CL | LAB | CR | SPRING SEMESTER | | | CL | LAB | CR |
| # CAT 201C | Principles of Computed Tomography | 3 | 0 | 3 | # CAT 205C | Computed Tomography | | | | | |
| # CAT 202C | Computed Tomography Image | | | | | Procedures II | | 3 | 0 | 3 | |
| | Production | 3 | 0 | <u>3</u> | # CAT 207C | Computed Tomography | | | | | |
| | | | | 6 | | Registry Review | | 1 | 0 | 1 | |
| FALL SEMESTER | | | | | # CAT 206C | Computed Tomography Clinic II* | | 0 | 16 | <u>3</u> | |
| # CAT 203C | Computed Tomography Procedures I | 3 | 0 | 3 | | | | | | 7 | |
| # CAT 204C | Computed Tomography Clinic I* | 0 | 16 | <u>3</u> | | TOTAL CREDITS | | | | 19 | |
| | | | | 6 | | | | | | | |

Indicates major field courses.

* All students enrolled in a clinical course will be charged a \$500 per semester clinical surcharge.

Internship Considerations, see page 152.

Health and Technical Standards, see page 70.

Program Comments

Prior to the start of clinical Computed Tomography courses, students are required to have on file in the Health Services Office (603) 230-4043 documentation of: current medical insurance; a complete physical examination; current immunizations; current CPR certification for one and two-person adult, infant and child. Professional liability malpractice insurance is arranged by the College and will automatically be charged to the student's account.

The Computed Tomography Program integrates all theory coursework with clinical experience. All Computed Tomography Program courses must be passed with a "C" or above before proceeding to the next level.

Academic and Clinic Schedules

Every attempt is made to optimize classroom schedules; however, we cannot always create the optimal schedule for everyone. Students accepted into the program are expected to make their education their number one priority; please plan to organize work schedules and personal commitments around the academic and clinical obligations.

Please note that the weekly schedule listed below is subject to change at any time. Clinical start times may vary based on the clinical site, but generally run 8:00 am-4:00 pm.

Summer semester: Class on Monday and Wednesday evenings; no clinical rotation.

Fall semester: Class on Monday evening; clinic on Tuesday, and Thursday.

Spring semester: Class on Monday and Wednesday evenings; clinic on Tuesday, and Thursday.

Diagnostic Medical Sonography Professional Certificate

A Professional Certificate in Diagnostic Medical Sonography is awarded to upon successful completion of the program.

The Diagnostic Medical Sonography program combines didactic and clinical study that enables the graduate to function in the medical community as a Diagnostic Medical Sonographer. Sonographers perform medical imaging using sophisticated ultrasound instrumentation. The program is four semesters of full-time study. Graduates find employment in hospitals and private clinics.

This certificate is financial aid eligible.

Accreditation Status: Accredited

The Diagnostic Medical Sonography Program is accredited by the Commission on Accreditation of Allied Health Education Programs (<https://www.caahep.org/>) upon the recommendation of the Joint Review of Education in Diagnostic Medical Sonography.



Commission on Accreditation of Allied Health Education Programs
25400 US Hwy 19 N., Suite 158
Clearwater, FL 33763
(727) 210-2350
<https://www.caahep.org/>

Students who graduate from programs accredited through CAAHEP are qualified to take national certification examinations with no additional work experience required.

Joint Review Commission on Education in Diagnostic Medical Sonography (JRC-DMS)

6021 University Boulevard
Suite 500
Ellicott City, MD 21043
Phone: (443) 973-3251
Fax: (866) 738-3444
Website: www.jrcdms.org
Email: mail@jrcdms.org

As a pre-clinical requirement, students will be required to undergo and successfully meet the Diagnostic Medical Imaging Department's criteria for a criminal background check and drug and alcohol screening. No student will be exempt from this process. Students are provided with procedural and cost information subsequent to admission to the Diagnostic Medical Imaging program and are responsible for all costs associated with these testing procedures. Drug and alcohol screening is required prior to clinical and randomly throughout the program.

Specific Admission Requirements

Preference will be given to applicants whose applications are complete and received by the NHTI Admissions Office no later than January 3, 2020 for Fall 2020 admission (with the exception of the interview).

1. Applicants must have completed a two year AMA or AMA equivalent allied health training program that is patient care related. e.g. radiologic technology, nursing, physical therapy, etc. (Note: Medical Assisting is not generally considered an AMA Allied Health Program.)
2. In lieu of #1, a Bachelor's Degree with a major in a Science field qualifies for admission;
3. The following college level courses are required with grades of "C" or higher:
 - Algebra, statistics or higher level mathematics course;
 - Human Anatomy and Physiology I and II, with laboratories (Please note: Courses with virtual/online labs are not accepted);
 - Communication Skills (may be met by a variety of courses including English, speech or composition);
 - General college-level physics and/or radiographic physics.
4. Medical Terminology is strongly recommended;
5. A personal interview is required; qualified candidates will be contacted after the deadlines to arrange an interview;
6. Three letters of recommendation must be submitted to the admissions department;
7. The applicant must complete a course in Cardiopulmonary Resuscitation and Airway Obstruction Management for the Healthcare Provider/Professional Rescuer before program registration.

Please Note: Students who wish to enter the Diagnostic Medical Sonography program and are currently enrolled in another NHTI program must complete and submit the Change of Program form on the website at

https://www.nhti.edu/sites/default/files/content/documents/change_program_dual_major.pdf prior to the application date listed above.

FIRST YEAR

| FALL SEMESTER | CL | LAB | CR | SPRING SEMESTER | CL | LAB | CR |
|---|----|-----|----------|--|-----------|------------|-----------|
| # DGMS 201C Principles of Sonography | 3 | 2 | 4 | # DGMS 221C Sonographic Physics | 3 | 0 | 3 |
| # DGMS 265C Sonographic Anatomy and Pathology I | 3 | 0 | 3 | # DGMS 266C Sonographic Anatomy and Pathology II | 3 | 0 | 3 |
| # DGMS 275C Sonographic Principles of OB/GYN I | 3 | 0 | 3 | # DGMS 277C Sonographic Principles of OB/GYN II | 3 | 0 | 3 |
| # DGMS 291C DMS Clinical Procedures I | 0 | 12 | <u>4</u> | # DGMS 296C DMS Clinic II* | 0 | 24 | <u>6</u> |
| | | | 14 | | | | 15 |
| | | | | SUMMER SEMESTER (10 weeks) | CL | LAB | CR |
| | | | | # DGMS 241C Principles of Vascular Ultrasound | 3 | 2 | 4 |
| | | | | # DGMS 297C DMS Clinic III* | 0 | 21 | <u>5</u> |
| | | | | | | | 9 |

SECOND YEAR

| FALL SEMESTER | CL | LAB | CR |
|------------------------------------|----|-----|-----------|
| # DGMS 233C Seminars in Sonography | 4 | 0 | 4 |
| # DGMS 298C DMS Clinic IV* | 0 | 32 | <u>8</u> |
| | | | 12 |
| TOTAL CREDITS | | | 50 |

Indicates major field courses.

* All students enrolled in a clinical course will be charged a \$500 per semester clinical surcharge. The following courses carry this charge: DGMS 296C, DGMS 297C and DGMS 298C.

Internship Considerations, see page 152.

Technical Standards and Essential Functions, see page 70.

Radiation Therapy

The degree of Associate in Science with a major in Radiation Therapy is awarded upon successful completion of the program.

The Radiation Therapy Program utilizes didactic, laboratory, and clinical education to train students to work as Radiation Therapists in cancer treatment centers. Radiation Therapists work under the direction of an oncologist to treat patients with malignant diseases using ionizing radiation. A certificate option is available for students with prior degrees in Radiological Sciences. Radiation Therapists work in hospitals, private radiation oncology centers and research centers.

Admission to the Radiation Therapy program is very competitive. Selection is determined by a cumulative point system that is based on the high school prerequisite courses and grades, college courses and grades (only those courses required in the Radiation Therapy Program), an observation essay and a personal interview. It is highly recommended that applicants complete as many General Education courses (non-Radiation Therapy courses) as possible prior to application to the program. This will enhance the application for admission as well as lighten the academic load. These courses can be taken at NHTI through the General Studies Program. Once in the General Studies Program students should consult that program's Department Chair regarding course selection. A "Request for Change of Program" form, available from the Admissions Office, should be submitted during the Fall Semester prior to the program start date.

Accreditation

The Radiation Therapy Degree is accredited by the Joint Review Committee on Education in Radiologic Technology (JRCERT). For further information, please contact: JRCERT, 20 N. Wacker Drive, Suite 2850, Chicago, IL 60606, (312) 704-5300, FAX: (312) 304-5304, mail@jrcert.org.

Specific Admission Requirements

Preference will be given to applicants whose applications are complete and received by the NHTI Admissions Office no later than March 13, 2020, (with the exception of the interview) for Fall 2020 admission.

1. High school or college biology with lab and chemistry with lab, both with grades of "C" or higher;
2. College preparatory Algebra I, Algebra II, and Geometry with grades of "C" or higher *or* NHTI's MATH 092C with a grade of "C" or higher;
3. High school level physics is recommended;
4. Clinical observation period in a Radiation Oncology Center; criteria established by and available from program faculty; call (603) 271-6484 x4226 for information;
5. The applicant must complete a course in Cardiopulmonary Resuscitation and Airway Obstruction Management for the Healthcare Provider/Professional Rescuer before program registration;
6. A personal interview will be arranged with the applicant by the Admissions Office once the admission file is complete.

Please Note: Students who wish to enter the Radiation Therapy Degree program and are currently enrolled in another NHTI program must complete and submit the Change of Program form on the website at

https://www.nhti.edu/sites/default/files/content/documents/change_program_dual_major.pdf prior to the application date listed above.

FIRST YEAR

| FALL SEMESTER | | | CL | LAB | CR | SPRING SEMESTER | | | CL | LAB | CR |
|--|--|--|----|-----|----------|---|--|--|----|-----|----------|
| BIOL 195C Anatomy and Physiology I | | | 3 | 2 | 4 | BIOL 196C Anatomy and Physiology II | | | 3 | 2 | 4 |
| # RDTH 101C Introduction to Radiation Therapy | | | 3 | 0 | 3 | ENGL 101C English Composition | | | 4 | 0 | 4 |
| # RDTH 110C Principles and Practice of Radiation Therapy I | | | 3 | 2 | 4 | # RDTH 190C Clinical Practice I* | | | 0 | 16 | 3 |
| # RDTH 115C Patient Care | | | 1 | 0 | 1 | # RDTH 215C Sectional Anatomy and Pathology | | | 3 | 0 | <u>3</u> |
| # RDTH 180C Radiologic Physics for the Radiation Therapist | | | 2 | 0 | <u>2</u> | | | | | | 14 |
| | | | | | 14 | SUMMER SEMESTER | | | CL | LAB | CR |
| | | | | | | MATH 124C College Algebra | | | 4 | 0 | 4 |
| | | | | | | # RDTH 150C Medical Imaging and Processing | | | 2 | 0 | 2 |
| | | | | | | # RDTH 195C Clinical Practice II* | | | 0 | 18 | <u>3</u> |
| | | | | | | | | | | | 9 |

SECOND YEAR

| FALL SEMESTER | | | CL | LAB | CR | SPRING SEMESTER | | | CL | LAB | CR |
|---|--|--|----|-----|----------|---------------------------------------|--|--|----|-----|----------|
| ENGL 120C Communications | | | 3 | 0 | 3 | PHIL 242C Contemporary Ethical Issues | | | 3 | 0 | 3 |
| # RDTH 200C Radiation Protection and Biology | | | 3 | 0 | 3 | # RDTH 205C Treatment Planning | | | 3 | 0 | 3 |
| # RDTH 210C Principles and Practice of Radiation Therapy II | | | 3 | 2 | 4 | # RDTH 220C Radiation Therapy Physics | | | 3 | 0 | 3 |
| # RDTH 290C Clinical Practice III* | | | 0 | 24 | <u>4</u> | # RDTH 293C Clinical Practice IV* | | | 0 | 24 | <u>4</u> |
| | | | | | 14 | | | | | | 13 |
| | | | | | | SUMMER SEMESTER | | | | | |
| | | | | | | PSYC 105C Introduction to Psychology | | | 3 | 0 | 3 |
| | | | | | | # RDTH 280C Registry Review | | | 1 | 0 | 1 |
| | | | | | | # RDTH 295C Clinical Practice V* | | | 0 | 23 | <u>4</u> |
| | | | | | | | | | | | 8 |
| | | | | | | TOTAL CREDITS | | | | | 72 |

Indicates major field courses.

* All students enrolled in a clinical course will be charged a \$500 per semester clinical surcharge. The following courses carry this charge: RDTH 190C, RDTH 195C, RDTH 290C, RDTH 293C, and RDTH 295C.

Internship Considerations, see page 152.

Health, Character and Technical Standards, see page 70.

Program Comments, see page 54.

Radiation Therapy Certificate

The Certificate Program in Radiation Therapy is an advanced placement option for students with prior degrees in the Radiological Sciences. For more information, contact program coordinator Amy VonKadich at (603) 271-6484 x4332. **This program is financial aid eligible.** To be eligible for federal financial aid, students must submit an official, final high school transcript, or the equivalent documentation that demonstrates high school completion, to the NHTI Admissions Office.

The Radiation Therapy Certificate is accredited by the Joint Review Committee on Education in Radiologic Technology (JRCERT). For further information, please contact: JRCERT, 20 N. Wacker Drive, Suite 2850, Chicago, IL 60606, (312) 704-5300, FAX: (312) 304-5304, mail@jrcert.org.

An Associate Degree option is available for students who do not have a degree in Radiological Sciences.

Specific Admission Requirements

Preference will be given to applicants whose applications are complete and received by the NHTI Admissions Office no later than March 13, 2020, (with the exception of the interview) for Fall 2020 admission.

1. High school or college biology with lab and chemistry with lab, both with grades of "C" or higher;
2. College preparatory algebra I with a grade of "C" or higher *or* NHTI's MATH 092C with a grade of "C" or higher;
3. High school level physics is recommended;
4. Clinical observation period in a Radiation Oncology Center; criteria established by and available from program faculty; call (603) 271-6484 x4226 for information;
5. The applicant must complete a course in Cardiopulmonary Resuscitation and Airway Obstruction Management for the Healthcare Provider/Professional Rescuer before program registration;
6. A personal interview with the applicant will be arranged by the Admissions Office once the admission file is complete;
7. Completion of a Radiological Sciences program.

Please Note: Students who wish to enter the Radiation Therapy Certificate program and are currently enrolled in another NHTI program must complete and submit the Change of Program form on the website at

https://www.nhti.edu/sites/default/files/content/documents/change_program_dual_major.pdf prior to the application date listed above.

| FIRST YEAR | | | | | |
|--|----|-----|-----------|---|---------------|
| FALL SEMESTER | CL | LAB | CR | SPRING SEMESTER | CL LAB CR |
| RDTH 101C Introduction to Radiation Therapy | 3 | 0 | 3 | RDTH 205C Treatment Planning | 3 0 3 |
| RDTH 110C Principles and Practice of Radiation Therapy I | 3 | 2 | 4 | RDTH 215C Sectional Anatomy and Pathology | 3 0 3 |
| RDTH 200C Radiation Protection and Biology | 3 | 0 | 3 | RDTH 220C Radiation Therapy Physics | 3 0 3 |
| RDTH 210C Principles and Practice of Radiation Therapy II | 3 | 2 | 4 | RDTH 293C Clinical Practice IV* | 0 24 <u>4</u> |
| RDTH 290C Clinical Practice III* | 0 | 24 | <u>4</u> | | 13 |
| | | | 18 | SUMMER SEMESTER | CL LAB CR |
| | | | | RDTH 295C Clinical Practice V* | 0 23 <u>4</u> |
| | | | | | 4 |
| SECOND YEAR | | | | | |
| FALL SEMESTER | CL | LAB | CR | | |
| RDTH 296C Clinical Practice VI* | 0 | 32 | 6 | | |
| RDTH 280C Registry Review | 1 | 0 | <u>1</u> | | |
| | | | 7 | | |
| TOTAL CREDITS | | | 42 | | |

* All students enrolled in a clinical course will be charged a \$500 per semester clinical surcharge. The following courses carry this charge: RDTH 290C, RDTH 293C, RDTH 295C and RDTH 296C.

Internship Considerations, see page 152.

Health, Character and Technical Standards, see page 70.

Program Comments

1. Prior to the start of clinical Radiation Therapy courses, students are required to have on file in the Health Services Office (603) 230-4043 documentation of: current medical insurance; a complete physical examination; current immunizations; current CPR certification for one and two-person adult, infant and child. Professional liability malpractice insurance is arranged by the College and will automatically be charged to the student's account.
2. College level science and technical courses (i.e., BIOL 195C and 196C) taken more than five years prior to desired entry into the Radiation Therapy program must be either repeated or challenged; final decisions will rest with the Radiation Therapy Program Director. Courses with virtual/online labs are not accepted.
3. The Radiation Therapy Program integrates all theory coursework with clinical experience. All Radiation Therapy major field courses must be passed with a "C-" or above before proceeding to the next level. A grade of "C" or higher in BIOL 195C and BIOL 196C is required to enter or progress in the Radiation Therapy courses.

Radiologic Technology

(Early summer start date each year)

The degree of Associate in Science with a major in Radiologic Technology (RT) is awarded upon the successful completion of the program.

The Radiologic Technology program integrates scientific concepts and working skills through intensive clinical experience and classroom study. The program requires 24 months of study. The Radiographer performs diagnostic medical imaging procedures utilizing ionizing radiation..

Graduates are eligible to sit for the certification examination conducted by the American Registry of Radiologic Technologists to practice as a Registered Radiologic Technologist.

Admission to the Radiologic Technology program is very competitive. Selection is determined by a cumulative point system that is based on the high school prerequisite courses and grades, college courses and grades. Based on the point system, only the best qualified candidates are invited to interview. The number of candidates interviewed will be limited to approximately double the program capacity. It is highly recommended that applicants complete as many of the General Education courses (non-Radiology courses) as possible prior to application to the program. College level science courses (BIOL 195C and BIOL196C) taken more than five years prior to desired entry into the Radiologic Technology program must be either repeated or challenged; final decisions will rest with the Radiologic Technology Program Director. Courses with online/virtual labs are not accepted. A course in Medical Terminology is strongly recommended. Completion of the general education courses will enhance the application for admission as well as lighten the academic load. These courses can be taken at NHTI through the General Studies Program. Once in the General Studies program students should consult that program's department chair regarding course selection.



The Radiologic Technology program at NHTI—Concord's Community College is accredited by the Joint Review Committee on Education in Radiologic Technology ([JRCERT](http://www.jrcert.org)). The program's current length of accreditation is until 2022. JRCERT contact information is: 20 North Wacker Drive, Suite 2850, Chicago, Illinois, 60606-3182; phone: (312) 704-5300; email: mail@jrcert.org; web: <http://www.jrcert.org>. Program effectiveness data may be found at <http://www.jrcert.org>.

Specific Admission Requirements

Preference will be given to applicants whose applications are complete and received by the NHTI Admissions Office no later than January 3, 2020, for Summer 2020 admission (with the exception of the interview).

1. High school or college biology with lab and chemistry with lab, both with grades of "C" or higher;
2. College preparatory algebra I with a grade of "C" or higher **or** NHTI's MATH 092C with a grade of "C" or higher;
3. Personal interview will be arranged with the applicant by the Admissions Office once the admission file is complete;
4. The applicant must complete a course in Cardiopulmonary Resuscitation and Airway Obstruction Management for the Healthcare Provider/Professional Rescuer before program registration.

Please Note: Students who wish to enter the Radiologic Technology program and are currently enrolled in another NHTI program must complete and submit the Change of Program form on the website at

https://www.nhti.edu/sites/default/files/content/documents/change_program_dual_major.pdf prior to the application date listed above.

FIRST YEAR

| SUMMER SEMESTER (8 weeks) | CL | LAB | CR | FALL SEMESTER | CL | LAB | CR |
|--|----|-----|----|--|----|-----|----|
| MATH120C Quantitative Reasoning | 4 | 0 | 4 | BIOL 195C Anatomy and Physiology I | 3 | 2 | 4 |
| # RADT 103C Radiographic Positioning I | 1 | 2 | 2 | # RADT 116C Radiographic Imaging Technology | 2 | 2 | 3 |
| # RADT 109C Introduction to Health Care in Radiologic Technology | 1 | 0 | 1 | # RADT 151C Patient Care for the Radiographer | 2 | 0 | 2 |
| # RADT 180C Radiographic Physics | 3 | 0 | 3 | # RADT 159C Radiographic Positioning II and Clinical Procedures I* | 3 | 26 | 8 |
| | | | 10 | | | | 17 |
| | | | | SPRING SEMESTER | CL | LAB | CR |
| | | | | BIOL 196C Anatomy and Physiology II | 3 | 2 | 4 |
| | | | | # RADT 164C Radiographic Positioning III and Clinical Procedures II* | 3 | 26 | 8 |
| | | | | # RADT 220C Digital Processing & Computed Tomography | 2 | 2 | 3 |
| | | | | | | | 15 |

SECOND YEAR

| SUMMER SEMESTER (11 weeks) | | | FALL SEMESTER | | |
|---|----|------------|--|----|-----------|
| | CL | LAB CR | | CL | LAB CR |
| ENGL 101C English Composition | 4 | 0 4 | ENGL 120C Communications | 3 | 0 3 |
| # RADT 165C Radiographic Clinical Procedures III* 0 | 23 | 4 | PSYC 105C Introduction to Psychology | 3 | 0 3 |
| # RADT 203C Advanced Radiographic Procedures | 3 | 0 <u>3</u> | # RADT 123C Radiation Protection | 3 | 0 3 |
| | | 11 | # RADT 294C Radiographic Clinical Procedures IV* 0 | 16 | <u>3</u> |
| | | | | | 12 |
| | | | SPRING SEMESTER | | |
| | | | PHIL 242C Contemporary Ethical Issues | 3 | 0 3 |
| | | | # RADT 209C Pathology & Cross-Sectional | | |
| | | | Anatomy | 3 | 0 3 |
| | | | # RADT 295C Radiographic Clinical Procedures V* 0 | 16 | <u>3</u> |
| | | | | | 9 |
| | | | TOTAL CREDITS | | |
| | | | | | 74 |

Indicates major field courses.

* All students enrolled in a clinical course will be charged a \$500 per semester clinical surcharge. The following courses carry this charge: RADT 159C, RADT 164C, RADT 165C, RADT 294C and RADT 295C.

Internship Considerations, see page 152.

Health, Character and Technical Standards, see page 70.

Health Science

The degree of Associate in Science with a major in Health Science is awarded upon successful completion of the program.

This program is designed to provide the foundation for any allied health field. The degree may be personalized to meet student interests in diverse careers, from healthcare administration to direct patient contact. The flexible curriculum can be used as a strong base in furthering educational pursuits – degrees in physical therapy, health information management, dietetics, public health, pharmacology, and exercise science, among others – or as a distinct, self-contained degree for professionals seeking career advancement.

Evaluation of credit received from a college or hospital-based program of study in a health-related field may result in transfer credit or advanced-standing credit toward the degree.

A candidate for this highly individualized degree must accumulate a minimum of 60 total credit hours, including those shown in the table that follows.

Specific Admission Requirements

1. High school level courses in chemistry and biology with labs, or the equivalent, must be completed with grades of “C” or higher.

| I. General Education Core | | CL LAB CR | | |
|---|---|------------------|---|----------|
| BIOL | 195C Anatomy and Physiology I +++ | 3 | 2 | 4 |
| BIOL | 196C Anatomy and Physiology II +++ | 3 | 2 | 4 |
| CHEM | xxxC Chemistry Elective* +++ | 3 | 2 | 4 |
| ENGL | 101C English Composition | 4 | 0 | 4 |
| ENGL | xxxC English Elective | 3 | 0 | 3 |
| INDL | 120C Global Public Health** | 3 | 0 | 3 |
| MATH | 120C Quantitative Reasoning <i>or</i> higher Mathematics Elective*** | 4 | 0 | 4 |
| PHIL | 242C Contemporary Ethical Issues+ | 3 | 0 | <u>3</u> |
| | | 29 | | |
| II. Advanced Standing Credits | | If appropriate | | |
| III. Related coursework to complete the degree++ | | Variable | | |
| TOTAL CREDITS | | 60 | | |

NOTE: A minimum of 16 credits hours must be earned through instruction at NHTI, with a minimum of eight credit hours in courses numbered at the 200-level.

Additional credits, up to the required 60 credits, may be taken in areas of interest or need of the individual student, or may be transferred in from another institution.

* CHEM 100C does not meet this requirement.

** Meets Social Science requirement.

*** MATH 129C does not meet the minimum math requirements.

+ Meets Humanities/Foreign Language/Fine Arts requirement.

++ Courses identified as “institutional credit only” do not meet this requirement.

+++ Courses with online/virtual labs for BIOL 195C, BIOL 196C, CHEM xxxC are not accepted

Courses with online/virtual labs are not accepted for major Biology and Chemistry courses.

Internship Considerations see page 152.

Health Science with a Concentration in Nutrition and Wellness

The Associate of Science Degree in Health Science with a concentration in Nutrition and Wellness will be awarded upon successful completion of the program.

This program provides a sound academic foundation for the student who wants to pursue an entry-level position in nutrition, health and fitness, public health, and health education, and/or transfer to a 4-year program in any of those fields. This program is designed to prepare students for the competitive and ever expanding field of healthcare and personal wellness services.

In addition to the core requirements for the Health Science Degree (29 credits), the student will be required to take courses in nutrition, pathophysiology, and personal training, and choose from among many different electives for a program total of 62 credits.

According to the U.S. Bureau of Labor Statistics (BLS) in the 2012-2022 period, employment among healthcare support occupations is expected to increase by 28.1% and healthcare practitioners and technical occupations by 21.4%.

Specific Admission Requirements

High School level courses in chemistry and biology with labs, or the equivalent, must be completed with grades of "C" or higher.

| | | | | | | | | | | | | |
|---|------|--|-----|---|------------------------------|--|-------|----------------------------------|---|------------------|--------------|--|
| I. General Education Core | | | | | Pick four from these: | | | | | CL LAB CR | | |
| BIOL | 195C | Anatomy and Physiology I +++ | 3 | 2 | 4 | BIOL | 202C | Microbiology | 3 | 3 | 4 | |
| BIOL | 196C | Anatomy and Physiology II +++ | 3 | 2 | 4 | BIOL | 229C | Nutrition in Exercise and Sports | 3 | 0 | 3 | |
| CHEM | xxx | C Chemistry Elective* +++ | 3 | 2 | 4 | BIOL | 259C | Normal and Therapeutic | | | | |
| ENGL | 101C | English Composition | 4 | 0 | 4 | | | Nutrition or | 4 | 0 | 4 | |
| ENGL | xxx | English Elective | 3 | 0 | 3 | BIOL | 279C | Life Cycle Nutrition | 3 | 0 | 3 | |
| INDL | 120C | Global Public Health** | 3 | 0 | 3 | HLTH | 101C | Medical Terminology | 3 | 0 | 3 | |
| MATH | 120C | Quantitative Reasoning or | | | | HLTH | 125C | Coaching Principles I | 3 | 0 | 3 | |
| | | higher Mathematics Elective*** | 4 | 0 | 4 | PSYC | 220C | Human Growth and Development: | | | | |
| PHIL | 242C | Contemporary Ethical Issues+ | 3 | 0 | <u>3</u> | | | The Life Span | 3 | 0 | 3 | |
| | | | | | 29 | PSYC | 226AC | Sport and Exercise Psychology | 3 | 0 | <u>3</u> | |
| | | | | | | | | | | | 12-14 | |
| II. Advanced Standing Credits | | | | | If appropriate | Concentration Credits | | | | | 33-38 | |
| | | | | | | TOTAL MINIMUM CREDITS | | | | | | |
| III. Related coursework to complete the degree++ | | | | | Variable | NEEDED TO GRADUATE | | | | | 62 | |
| Required: | | | | | | Note: A minimum of 16 credits hours must be earned through instruction at NHTI, with a minimum of 8 credit hours in courses numbered at the 200-level. | | | | | | |
| BIOL | 122C | Basic Pathophysiology or | 3 | 0 | 3 | | | | | | | |
| BIOL | 222C | Pathophysiology | 3 | 0 | 3 | Additional credits, up to the required 62 credits, may be taken in areas of interest or need of the individual student, or may be transferred in from another institution. | | | | | | |
| BIOL | 129C | Introduction to Sports Nutrition or | 3 | 0 | 3 | | | | | | | |
| BIOL | 159C | Personal Nutrition | 3 | 2 | 4 | * CHEM 100C does not meet this requirement. | | | | | | |
| BIOL | 259C | Normal and Therapeutic | | | | | | | | | | |
| | | Nutrition or | 4 | 0 | 4 | ** Meets Social Science requirement. | | | | | | |
| BIOL | 279C | Life Cycle Nutrition | 3 | 0 | 3 | | | | | | | |
| HLTH | 120C | Care and Prevention of | | | | *** MATH 129C does not meet the minimum math requirements. | | | | | | |
| | | Athletic Injuries | 3 | 2 | 4 | | | | | | | |
| HLTH | 150C | Personal Wellness | 1 | 1 | 1 | + Meets Humanities/Foreign Language/Fine Arts requirement. | | | | | | |
| HLTH | 152C | Personal Training | 3 | 2 | 4 | | | | | | | |
| | | Concentration Elective | 3-4 | 0 | <u>3-4</u> | ++ Courses identified as “institutional credit only” do not meet this requirement. | | | | | | |
| | | | | | 21-24 | | | | | | | |
| | | | | | | +++ Courses with online/virtual labs for BIOL 195C, BIOL 196C, CHEM xxxC are not accepted | | | | | | |

Courses with online/virtual labs are not accepted for major Biology and Chemistry courses.

Internship Considerations, see page 152.

Medical Coding Certificate

Health Information Management is a dynamic field and a growing profession. Coding professionals are trained specialists in classifying medical data and transforming diagnoses, conditions, diagnostic and therapeutic procedures into coded data that serve as the basis for local, regional, state-wide, national and world-wide comparison. Payment for medical care is contingent on the coded data provided by medical coding specialists. Employment opportunities include positions in hospitals, clinics, physician offices, nursing homes, insurance companies, and mental health facilities. Coding specialists work with most current codes, medical information and reimbursement systems. These codes change on a yearly basis and ongoing training is required. Students will gain hands-on experience using 3-M Coding and Grouping software. The program provides students with the necessary tools to sit for the CCA exam. **This program is financial aid eligible.** To be eligible for federal financial aid, students must submit an official, final high school transcript, or the equivalent documentation that demonstrates high school completion, to the NHTI Admissions Office.

This program is only offered online.

FIRST YEAR

| FALL SEMESTER | CL | LAB | CR | SPRING SEMESTER | CL | LAB | CR |
|-------------------------------|----|-----|----------|--|----|-----|----------|
| HLTH 101C Medical Terminology | 3 | 0 | 3 | BIOL 122C Basic Pathophysiology | 3 | 0 | 3 |
| BIOL 120C Human Biology | 3 | 2 | <u>4</u> | HLTH 104C Health Care Data Content and Delivery Systems | 3 | 0 | <u>3</u> |
| | | | 7 | | | | 6 |
| | | | | SUMMER SEMESTER | | | |
| | | | | IST 102C PC Applications | 3 | 0 | <u>3</u> |
| | | | | | | | 3 |

SECOND YEAR

| FALL SEMESTER | CL | LAB | CR | SPRING SEMESTER | CL | LAB | CR |
|--|----|-----|----------|------------------------------------|----|-----|-----------|
| MCOD 118C Introduction to Hospital Diagnosis Coding | 4 | 0 | 4 | MCOD 218C Advanced Hospital Coding | 3 | 0 | 3 |
| MCOD 119C Introduction to Hospital Procedure Coding | 3 | 0 | <u>3</u> | MCOD 219C Ambulatory Coding | 4 | 0 | <u>4</u> |
| | | | 7 | | | | 7 |
| | | | | TOTAL CREDITS | | | 30 |

Prerequisites: Submit proof of high school graduation or the equivalent; keyboarding skills helpful.

Legal Nurse Consultant Certificate

The Legal Nurse Consultant Certificate program is approved by the American Bar Association (ABA) and is designed to prepare students to perform effectively in today's legal and healthcare communities. This program is designed for experienced Registered Nurses who are interested in combining their clinical expertise with specialized legal knowledge enabling them to serve as consultants and liaisons to the legal and healthcare profession. The program will provide the legal knowledge required to evaluate, analyze and offer informed opinions on the delivery of healthcare and resulting outcomes. The program of study combines business and legal theory and analysis with practical field experience.

LNCs are professional nurses with clinical expertise and training in the law. They provide an invaluable service to both the medical and legal professions. LNCs serve in a variety of settings including hospitals and other health care facilities, insurance companies, law firms, medical malpractice and workers' compensation organizations, and private LNC practices. Even though the legal nurse consultant can perform many tasks performed by an attorney, legal work performed by a LNC must be under the supervision and direction of an attorney. The Legal Nurse Consultant may not give legal advice, represent a client in court or engage in the unauthorized practice of law.

Legal Nurse Consultant Certificate Program graduates will be exposed during their course of studies to the legal system and the role of the legal nurse consultant/paralegal within the profession, the ethical rules governing lawyers, paralegals, nurses, doctors and the operation of a law office and a healthcare facility. Through the course sequence in the certificate program, NHTI's graduates will:

- Demonstrate an understanding of the legal system and master the litigation process.
- Utilize legal research skills to analyze issues related to damages, causation, liability within the legal process as well as guidelines and regulatory issues related to the healthcare industry.
- Examine the insurance and healthcare industries as they relate to medical-legal issues.
- Review, summarize and analyze medical records and other pertinent healthcare and legal documents for use in litigation or other medical-legal matters.
- Draft legal documents under supervision of an attorney and prepare opinions.
- Identify the role of the Legal Nurse Consultant and the ethical responsibilities associated with performing legal services.

This program is available evenings and weekends only and may be completed in one calendar year. **This program is financial aid eligible.** To be eligible for federal financial aid, students must submit an official, final high school transcript, or the equivalent documentation that demonstrates high school completion, to the NHTI Admissions Office.

Specific Admission Requirements

1. 45 college credits in general education courses from an accredited institution (consistent with the requirements of the American Bar Association, which approves this Certificate).
 - 18 of these credits must meet distribution and content requirements designated by the ABA, in at least three (3) different disciplines such as English, foreign languages, humanities, mathematics and natural science.
3. Submit proof of active RN license.
4. Submit work verification form demonstrating 6,000 hour of practice (call (603) 230-4011 to request a copy in print).
5. Two confidential letters of reference (call (603) 230-4011 to request a copy in print).
6. Two-hundred-word essay regarding reasons for choosing the Legal Nurse Consultant Program (used to help evaluate writing skills).
7. Submit official high school and college transcripts. (High School transcripts need only be submitted if applying for financial aid.)

| | CL | LAB | CR |
|---|----|-----|-----------|
| LGNC 101C Legal Nurse Consulting | 1 | 0 | 1 |
| LGNC 102C Risk Management | 1 | 0 | 1 |
| LGNC 103C Administrative Law | 1 | 0 | 1 |
| LGNC 104C Healthcare Law | 2 | 0 | 2 |
| LGNC 105C Legal and Healthcare Ethics | 1 | 0 | 1 |
| LGNC 106C Internship | 0 | 9 | 3 |
| PLGL 101C Foundations of Paralegal Studies | 2 | 0 | 2 |
| PLGL 103C Causes of Action in Contract and Tort | 2 | 0 | 2 |
| PLGL 104C Legal Research+ | 3 | 0 | 3 |
| PLGL 110C Litigation and Trial Preparation | 3 | 0 | 3 |
| TOTAL CREDITS | | | 19 |

+ A \$100 fee will be assessed for all students taking PLGL 104C. This fee will cover costs associated with ABA dues, Lexis/Nexis, and UNH Franklin Pierce School of Law Library.

Internship Considerations, see page 152.

Nursing (Associate Degree)

The degree of Associate in Science with a major in Nursing is awarded upon successful completion of the program.

The Associate in Science with a major in Nursing degree prepares men and women for careers as registered nurses. The goal of the Nursing Department is to prepare graduates to qualify as collaborative members of the interdisciplinary health care team to meet the needs of a diverse community in an evolving world. The Associate Degree graduate nurse is prepared for participation in life-long learning and career advancement. The program combines general education courses and nursing courses. In the nursing courses, classroom and clinical instruction are provided concurrently.

Students who graduate from this program are prepared to provide holistic and culturally-sensitive patient-centered care to individuals of all ages, with commonly occurring illnesses, in a variety of health care settings. Students will be able to achieve the following Program Competencies or Program Student Learning Outcomes:

1. Utilize the nursing process, clinical reasoning, and evidence-based practice to design, implement, and evaluate care focusing on the self-care requirements for the patient with commonly occurring illnesses.
2. Incorporate principles and concepts from nursing knowledge and liberal arts education utilizing critical thinking, clinical reasoning, and humanistic values.
3. Design and implement a plan of care in collaboration with the patient and health care team with a focus on the wholly compensatory nursing system.
4. Evaluate effective therapeutic and collegial communication needed to enhance health outcomes.
5. Manage nursing care directly and/or through delegation for the patient with a range of self-care deficits throughout the life cycle.
6. Create an optimal environment for the patient utilizing microsystem resources, evidence-based practice, quality improvement processes, and patient safety standards.
7. Establish a caring relationship with the patient to provide holistic and culturally-sensitive nursing care throughout the life cycle.
8. Demonstrate accountability for standard-based nursing care given by self and delegated to others adhering to professional, ethical and legal standards within nursing.

The nursing program is approved by the New Hampshire Board of Nursing (NHBON) and accredited by the Accreditation Commission for Education in Nursing (ACEN) (3343 Peachtree Road NE, Suite 850, Atlanta, Georgia, 30326; (404) 975-5000; <http://www.acenursing.org/>). Questions about the status of accreditation for the Nursing program should be addressed to ACEN.

Upon satisfactory completion of the program, graduates are eligible to apply to the New Hampshire Board of Nursing for the National Council Licensure Examination for Registered Nurses (NCLEX-RN®). Graduates should contact the Board of Nursing in the state in which they intend to practice regarding licensure requirements, since there are differences among states. NHTI's NCLEX pass rates can be viewed at <https://www.oplc.nh.gov/nursing/documents/nclex-2006-2017.pdf>.

The NH Board of Nursing'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 or the state Board of Nursing in which practice is anticipated.

Two program options exist at the Associate Degree level: (1) [Generic Option](#); and (2) [LPN-RN Completion Option](#). All students may be required to do a day, evening and/or weekend clinical rotation depending on clinical/faculty availability.

All nursing courses for the Generic Option must be completed within four (4) years of the date of entry into the first nursing course. Students may be readmitted to the nursing program only once during the four years. Readmission will depend on, among other factors, clinical/faculty availability. Transfer credit will depend on course content, applicability to the nursing program, grade earned and length of time since completion. **Selection for admission is determined by a cumulative point system that is based on high school level prerequisite courses and grades, applicable college courses and grades and the TEAS exam scores. References are considered critical to the admission process and are evaluated.**

As a pre-clinical requirement, students will be required to undergo and successfully meet the Nursing Department's criteria for a criminal background check and drug and alcohol screening. No student will be exempt from this process. Students are provided with procedural and cost information subsequent to admission to the nursing program and are responsible for all costs associated with these testing procedures. Drug and alcohol screening is required prior to clinical and randomly throughout the program.

Generic Option

Specific Admission Requirements

Priority consideration will be given to students whose applications are complete and received by the NHTI Admissions Office no later than January 24, 2020, for Fall 2020 admission. Students will not be considered for admission until all admission requirements have been met.

Note: Early Action Admission: Applications that are complete and received by the NHTI Admissions Office no later than November 8, 2019 may be considered for Early Action Admission into the Nursing program for Fall 2020.

1. High school or college biology with lab with a grade of "C" or higher;
2. High school or college chemistry with lab with a grade of "C" or higher;
3. College preparatory Algebra I with a grade of "C" or higher **or** NHTI's MATH 092C with a grade of "C" or higher;
4. Candidates must complete the ATI Test of Essential Academic Skills (TEAS) exam with a minimum score of 74.5% on Reading Comprehension, 68.8% on Mathematics, 55.3% on Science, 66.7% on English and Language Usage. Information regarding testing locations and registration is available online at <https://www.nhti.edu/academics/programs-study/health-and-science-programs/nursing/nursing-associate-degree> or contact the Admissions Office at (603) 230-4011 or (800) 247-0179;
5. Submit, on NHTI nursing reference forms, two references from professionals, supervisors or teachers. The forms are available online at <https://www.nhti.edu/academics/programs-study/health-and-science-programs/nursing/nursing-associate-degree> or contact the Admissions Office at (603) 230-4011 or (800) 247-0179.

Please Note: Students who wish to enter the Nursing program and are currently enrolled in another NHTI program must complete and submit the Change of Program form on the website at https://www.nhti.edu/sites/default/files/content/documents/change_program_dual_major.pdf prior to the application date listed above.

FIRST YEAR

| FALL SEMESTER | CL | LAB | CR | SPRING SEMESTER | | | |
|--------------------------------------|----|-----|----------|--|---|----|----------|
| BIOL 195C Anatomy and Physiology I | 3 | 2 | 4 | BIOL 196C Anatomy and Physiology II | 3 | 2 | 4 |
| ENGL 101C English Composition | 4 | 0 | 4 | # NURS 116C Nursing IIA** ^ or | | | |
| # NURS 115C Nursing I** ^ | 5 | 9 | 8 | # NURS 117C Nursing IIB** ^ | 6 | 15 | 11 |
| PSYC 105C Introduction to Psychology | 3 | 0 | <u>3</u> | PSYC 220C Human Growth and Development: The Life Span | 3 | 0 | <u>3</u> |
| | | | 19 | | | | 18 |

SECOND YEAR

| FALL SEMESTER | | | | | | | |
|---------------------------------------|---|----|-----------|--|---|----|-----------|
| BIOL 202C Microbiology | 3 | 3 | 4 | ENGL xxxC English Elective | 3 | 0 | 3 |
| MATH xxxC Math Elective* | 4 | 0 | 4 | # NURS 215C Nursing III** ^ | 4 | 15 | 9 |
| # NURS 116C Nursing IIA** ^ or | | | | XX xxxC Humanities/Fine Arts/ Foreign Language Elective | 3 | 0 | <u>3</u> |
| # NURS 117C Nursing IIB** ^ | 6 | 15 | <u>11</u> | | | | 15 |
| | | | 19 | TOTAL CREDITS | | | 71 |

Indicates major field courses.

* MATH 120C or higher level math. Students who wish to continue their education and pursue a Bachelor's or Master's degree in Nursing are encouraged to complete MATH 251C.

** These fees will cover costs associated with ATI online practice and proctored assessments and tutorials, detailed individualized remediation plans, and end of program testing to prepare students for the NCLEX-RN licensure exam. All students taking NURS 215C will be charged an additional \$365 for an ATI Live NCLEX-RN Review Course.

| Fee \$ | Course # | Semester |
|--------|------------------------|-------------|
| \$305 | NURS 115C | Fall |
| \$250 | NURS 116C NURS 117C | Fall/Spring |
| \$250 | NURS 215C | Spring |
| \$350 | NURS 215C | Spring |

^ All students enrolled in a clinical course will be charged a \$500 per semester clinical surcharge. The following courses carry this charge: NURS 115C, NURS 116C, NURS 117C and NURS 215C.

Internship Considerations, see page 152.

Health, Character and Technical Standards, see page 70.

Program Comments, see page 64.

LPN-RN Completion Option

(May start each year)

The degree of Associate in Science with a major in Nursing is awarded upon successful completion of the program.

The LPN-RN Completion Option is designed for the Licensed Practical Nurse who wishes to advance to a Registered Nurse with an Associate Degree in Science. The Associate Degree graduate nurse is prepared for participation in life-long learning and career advancement. Students who graduate from this program option are prepared to provide holistic and culturally-sensitive patient-centered care to individuals of all ages, with commonly occurring illnesses, in a variety of health care settings. Students will be able to achieve the following Program Competencies or Program Student Learning Outcomes.:

1. Utilize the nursing process, clinical reasoning, and evidence-based practice to design, implement, and evaluate care focusing on the self-care requirements for the patient with commonly occurring illnesses.
2. Incorporate principles and concepts from nursing knowledge and liberal arts education utilizing critical thinking, clinical reasoning, and humanistic values.
3. Design and implement a plan of care in collaboration with the patient and health care team with a focus on the wholly compensatory nursing system.
4. Evaluate effective therapeutic and collegial communication needed to enhance health outcomes.
5. Manage nursing care directly and/or through delegation for the patient with a range of self-care deficits throughout the life cycle.
6. Create an optimal environment for the patient utilizing microsystem resources, evidence-based practice, quality improvement processes, and patient safety standards.
7. Establish a caring relationship with the patient to provide holistic and culturally-sensitive nursing care throughout the life cycle.
8. Demonstrate accountability for standard-based nursing care given by self and delegated to others adhering to professional, ethical and legal standards within nursing.

The nursing program is approved by the New Hampshire Board of Nursing (NHBON) and accredited by the Accreditation Commission for Education in Nursing (ACEN) (3343 Peachtree Road NE, Suite 850, Atlanta, Georgia, 30326; (404) 975-5000; <http://www.acenursing.org/>). Questions about the status of accreditation for the Nursing program should be addressed to ACEN.

This program provides the opportunity, through additional education, to apply for the National Council Licensure Examination for Registered Nurses (NCLEX-RN®) upon successful completion of the program. Graduates should contact the Board of Nursing in the state in which they intend to practice regarding licensure requirements, since there are differences among states. NHTI's NCLEX pass rates can be viewed at <https://www.oplc.nh.gov/nursing/documents/nclex-2006-2017.pdf>.

The NH Board of Nursing'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 or the state Board of Nursing in which practice is anticipated.

All nursing courses must be completed within two years of the date of entry in the first nursing course. Students will be readmitted to the nursing program only once during the two years. Applicants must meet the admission requirements and receive a satisfactory score on the NLN Nursing Accelerated Challenge Exam I: Foundations of Nursing which are offered periodically throughout the year (see Admission Requirements below). Information regarding the admission test may be obtained from the Admissions Office at (603) 230-4011.

Admission to the nursing program is very competitive. Selection is determined by a cumulative point system that is based on high school level prerequisite courses and grades, applicable college courses and grades and the NLN Nursing Accelerated Challenge Exam I: Foundations of Nursing score. References are considered critical to the admission process and are evaluated.

As a pre-clinical requirement, students will be required to undergo and successfully meet the Nursing Department's criteria for a criminal background check and drug and alcohol screening. No student will be exempt from this process. Students are provided with procedural and cost information subsequent to admission to the nursing program and are responsible for all costs associated with these testing procedures. Drug and alcohol screening is required prior to clinical and randomly throughout the program.

Specific Admission Requirements

Preference will be given to students whose applications are complete and received by the NHTI Admissions Office no later than March 6, 2020 for Summer 2020 admission.

1. High school or college biology with lab and chemistry with lab, both with grades of "C" or higher;
2. College preparatory Algebra I with a grade of "C" or higher **or** NHTI's MATH 092C with a grade of "C" or higher;
3. Preference will be given to students who hold an active, unrestricted New Hampshire Practical Nursing license and are in good standing with the NH Board of Nursing; all applicants must submit a copy of their current LPN license with their application for admission;
4. Submit, on NHTI nursing reference forms, two references from professionals, supervisors or teachers; friends and family members are not acceptable references; forms are available online at <https://www.nhti.edu/academics/programs-study/health-and-science-programs/nursing/lpn-rn-completion-option> or from the Admissions Office at (603) 230-4011;

- Candidates must complete the NLN Nursing Accelerated Challenge Exam I: Foundations of Nursing and receive a minimum score of 74 or higher. Information regarding registration is available online at <https://www.nhti.edu/academics/programs-study/health-and-science-programs/nursing/lpn-rn-completion-option> or contact the Admissions Office at (603) 230-4011 or (800) 247-0179;
- Completion of NHTI courses ENGL 101, PSYC 105C, PSYC 220C, BIOL 195C and BIOL 196C with a grade of "C" or higher (or the equivalent from another institution). Courses with online/virtual labs are not accepted for BIOL 195C, BIOL 196C, or BIOL 202C.

Please Note: Students who wish to enter the Nursing LPN to RN program and are currently enrolled in another NHTI program must complete and submit the Change of Program form on the website at https://www.nhti.edu/sites/default/files/content/documents/change_program_dual_major.pdf prior to the application date listed above.

| SUMMER SEMESTER | | CLLAB | CR |
|--|---|-------|-----------------|
| # NURS 178C LPN-RN Completion^ | 4 | 10 | <u>7</u> 7 |
| FALL SEMESTER | | | |
| BIOL 202C Microbiology | 3 | 3 | 4 |
| MATHxxxC Math Elective* | 4 | 0 | 4 |
| # NURS 116C Nursing IIA+ ^ | 6 | 15 | <u>11</u> 19 |
| SPRING SEMESTER | | | |
| ENGL xxxC English Elective | 3 | 0 | 3 |
| # NURS 215C Nursing III+ ^ | 4 | 15 | 9 |
| XX xxxC Humanities/Fine Arts/ Foreign Language Elective | 3 | 0 | <u>3</u> 15 |
| TOTAL CREDITS | | | 70** |

Indicates major field courses.

* Any course with a prefix of MATH 120C or higher will be accepted for credit in the nursing program; students who wish to continue their education and pursue a Bachelor's or Master's degree in Nursing are encouraged to complete MATH 251C.

+ These fees will cover costs associated with ATI online practice and proctored assessments and tutorials, detailed individualized remediation plans, and end of program testing to prepare students for the NCLEX-RN licensure exam. All students taking NURS 215C will be charged an additional \$365 for an ATI Live NCLEX-RN Review Course.

| Fee | Course | Semester |
|-------|-----------|--------------|
| \$280 | NURS 178C | Any Semester |
| \$250 | NURS 116C | Fall |
| \$250 | NURS 215C | Spring |
| \$350 | NURS 215C | Spring |

** Includes eleven (11) credits awarded from NLN Nursing Accelerated Challenge Exam I: Foundations of Nursing score. Transfer credit for the 5 prerequisite college courses will be evaluated on an individual basis and may result in an additional 18 credits being awarded.

^ All students enrolled in a clinical course will be charged a \$500 per semester clinical surcharge. The following courses carry this charge: NURS 116C, NURS 178C and NURS 215C.

Internship Considerations, see page 152.

Health, Character and Technical Standards, see page 70.

Nursing Associate Degree Generic Option and LPN-RN Option Program Comments:

- Applicants are strongly encouraged to attend a group information session; please call the Admissions Office at (603) 230-4011 for details.
- Prior to the start of the clinical nursing courses, students are required to have on file in the Health Services Office (603) 230-4043 documentation of: current medical insurance; a complete physical examination; current immunizations; current CPR certification for one and two-person adult, infant and child. Professional liability malpractice insurance is arranged by the College and will automatically be charged to the student's account.
- All students enrolled in a clinical nursing course will be charged a \$350/semester Nursing Clinical Surcharge. The following courses carry this charge: NURS 115C, NURS 116C, NURS 117C, NURS 178C, and NURS 215C.

4. College level science and technical courses (BIOL 195C/196C/202C) taken more than five years prior to desired entry into nursing program must be either repeated or challenged; final decisions will rest with the Nursing Department Chair. Courses with virtual/online labs are not accepted.
5. All nursing courses integrate theory and clinical experience. Failure to receive a satisfactory grade in either theory OR the clinical experience portion of the course will result in a failing grade. All nursing major field courses must be passed before proceeding to the next level. A grade of “C” or higher is required in BIOL 195C, BIOL 196C and BIOL 202C and math elective to enter or progress in the nursing courses.
6. All students may be required to do an alternate clinical rotation depending on clinical/faculty availability, i.e., students may be asked to do an evening rotation.

Orthopaedic Technology

The Associate in Science in Orthopaedic Technology program educates students in the care of orthopaedic patients through major field courses, combined with the breadth of a general education curriculum to provide students with a solid foundation for further education. Students will be specially trained to assist orthopaedic physicians in hospitals, clinics and private practice offices in the care of patients with musculoskeletal injuries or conditions.

Upon successful completion of this program, candidates will be prepared to take the national certification exam administered by the National Board of Certified Orthopaedic Technologists. This program is recognized by the National Association of Orthopaedic Technologists (NAOT).

Specific Admission Requirements

Preference will be given to applicants whose applications are complete (with the exception of the interview) and received by the NHTI Admissions Office no later than March 13, 2020, for Fall 2020 admission.

1. High school diploma or proof of high school equivalency;
2. Personal Interview;
3. Applicants must write an essay on their desire to enter the Orthopaedic Technology program; instructions on how to complete this requirement are available from the Admissions Office at (603) 230-4011, or you may access the instructions for completing this requirement at <https://www.nhti.edu/academics/programs-study/health-and-science-programs/orthopaedic-technology-degree>;
4. Applicants must complete a course in Cardiopulmonary Resuscitation and Airway Obstruction Management for health care providers/professional rescuer.

Please Note: Students who wish to enter the Orthopaedic Technology Degree program and are currently enrolled in another NHTI program must complete and submit the Change of Program form on the website at

https://www.nhti.edu/sites/default/files/content/documents/change_program_dual_major.pdf prior to the application date listed above.

FIRST YEAR

| FALL SEMESTER | CL | LAB | CR | SPRING SEMESTER | CL | LAB | CR |
|--------------------------------------|----|-----|----------|---|----|-----|----------|
| BIOL 120C Human Biology | 3 | 2 | 4 | ENGL 120MC Communication: Mindful <i>or</i> | | | |
| ENGL 101C English Composition | 4 | 0 | 4 | ENGL xxxC English Elective * | 3 | 0 | 3 |
| HLTH 101C Medical Terminology | 3 | 0 | 3 | MATH 120C Quantitative Reasoning <i>or</i> | | | |
| PSYC 105C Introduction to Psychology | 3 | 0 | <u>3</u> | MATH xxxC Math Elective ** | 4 | 0 | 4 |
| | | | 14 | PSYC 220C Human Growth & Development | 3 | 0 | 3 |
| | | | | SOCI 105C Introduction to Sociology | 3 | 0 | <u>3</u> |
| | | | | | | | 13 |
| | | | | SUMMER SEMESTER | | | |
| | | | | IST 102C PC Applications | 3 | 0 | 3 |
| | | | | PHIL 242C Contemporary Ethical Issues | 3 | 0 | <u>3</u> |
| | | | | | | | 6 |

SECOND YEAR

| FALL SEMESTER | CL | LAB | CR | SPRING SEMESTER | CL | LAB | CR |
|--|----|-----|----------|--|----|-----|-----------|
| # ORTH 101C Orthopaedic Anatomy & Physiology I | 3 | 0 | 3 | # ORTH 102C Orthopaedic Anatomy & Physiology II | 3 | 0 | 3 |
| # ORTH 103C Basic Radiology Interpretation | 3 | 0 | 3 | # ORTH 104C Physical Assessment of the Orthopaedic Patient | 3 | 2 | 4 |
| # ORTH 105C Casting and Splinting I *** | 2 | 2 | 3 | # ORTH 113C Orthopaedic Patient Care | 2 | 2 | 3 |
| # ORTH 112C Traction | 1 | 2 | 2 | # ORTH 114C Custom Bracing | 1 | 2 | 2 |
| # ORTH 116C Sterile Techniques | 1 | 3 | <u>2</u> | # ORTH 150C Spring Externship | 0 | 12 | 2 |
| | | | 13 | # ORTH 205C Casting and Splinting II *** | 2 | 2 | <u>3</u> |
| | | | | | | | 17 |
| | | | | SUMMER SEMESTER | | | |
| | | | | # ORTH 220C Senior Externship and Capstone Experience+ | 1 | 16 | <u>6</u> |
| | | | | | | | 6 |
| | | | | TOTAL CREDITS | | | 69 |

Indicates major field courses.

* Does not include ENGL 100C

** MATH 120C or higher level MATH course (excluding MATH 129C)

*** \$500 specialty supplies fee will be added to the cost of ORTH 105C & ORTH 205C.

- + All students enrolled in a clinical course will be charged a \$500 per semester clinical surcharge. The following courses carry this charge: ORTH 150C, ORTH 220C.

Note: Students must achieve grades of “C” or higher in all general education courses, including HLTH 101C and IST 102C, to be eligible to register for ORTH 101C and other major field courses.

Internship Considerations, see page 152.

Health, Character and Technical Standards, see page 70.

Program Goals

1. Demonstrates the ability to apply entry level orthopaedic casts, splints and braces as specified by the orthopaedic provider according to the standards set by the National Board for Certification of Orthopaedic Technologists, Inc.;
2. Demonstrates the knowledge to safely care for orthopaedic patients, under the supervision of an orthopaedic provider, in the areas of casting, splinting, bracing, traction, orthopaedic anatomy and physiology, and physical assessment by passing the National Orthopaedic Certification Exam on the first attempt;
3. Reads, writes, speaks, and listens on a level that will facilitate the ability to work in the orthopaedic profession and participate and contribute to the care of orthopaedic patients;
4. Of those pursuing employment, students will demonstrate the skills to be gainfully employed within six months post-graduation;
5. Demonstrates basic applications of computer technology to be competent on a professional level when entering patient personal information, and how to maintain patient confidentiality;
6. Recognizes the importance of continued professional development through professional societies and/or attending seminars specific to the orthopaedic professional community;
7. Demonstrates professionalism in an orthopaedic environment by understanding diversity, emotions, and modes of expression, as expressed by the provider, the patient and/or his/her family;
8. Appreciates the value of providing service to the community, by volunteering at events that promote health and wellness.

Orthopaedic Technology Certificate

The Certificate Program in Orthopaedic Technology educates students in the care of orthopaedic patients, concentrating on the art of casting and splinting. Students will be specially trained to assist orthopaedic physicians in hospitals, clinics and private practice offices in the care of patients with musculoskeletal injuries or conditions. The applicant must complete a course in Cardiopulmonary Resuscitation and Airway Obstruction Management for the Healthcare Provider/Professional Rescuer before program registration. All applicants must submit an essay focused on their interest in Orthopaedic Technology, and attend a personal interview with the program coordinator. Upon successful completion of this program, candidates will be prepared to take the national certification exam administered by the National Board of Certified Orthopaedic Technologists. This program is recognized by the National Association of Orthopaedic Technologists (NAOT).

This program is financial aid eligible. To be eligible for federal financial aid, students must submit an official, final high school transcript, or the equivalent documentation that demonstrates high school completion, to the NHTI Admissions Office.

Specific Admission Requirements

Preference will be given to applicants whose applications are complete (with the exception of the interview) and received by the NHTI Admissions Office no later than to March 13, 2020, for Fall 2020 admission.

1. High school diploma or proof of high school equivalency;
2. Personal Interview;
3. Applicants must write an essay on their desire to enter the Orthopaedic Technology program; instructions on how to complete this requirement are from the Admissions Office at (603) 230-4011, or you may access the instructions for completing this requirement at <https://www.nhti.edu/academics/programs-study/health-and-science-programs/orthopaedic-technology-certificate;>
4. Applicants must complete a course in Cardiopulmonary Resuscitation and Airway Obstruction Management for health care providers/professional rescuer.

Please Note: Students who wish to enter the Orthopaedic Technology Certificate program and are currently enrolled in another NHTI program must complete and submit the Change of Program form on the website at

https://www.nhti.edu/sites/default/files/content/documents/change_program_dual_major.pdf prior to the application date listed above.

FIRST YEAR

FALL SEMESTER

| | CL | LAB | CR |
|--|----|-----|----------|
| HLTH 101C Medical Terminology | 3 | 0 | 3 |
| # ORTH 101C Orthopaedic Anatomy & Physiology I | 3 | 0 | 3 |
| # ORTH 103C Basic Radiology Interpretation | 3 | 0 | 3 |
| # ORTH 105C Casting and Splinting I * | 2 | 2 | 3 |
| # ORTH 112C Traction | 1 | 2 | 2 |
| # ORTH 116C Sterile Techniques | 1 | 3 | <u>2</u> |
| | | | 16 |

SPRING SEMESTER

| | | | |
|--|---|----|----------|
| # ORTH 102C Orthopaedic Anatomy & Physiology II | 3 | 0 | 3 |
| # ORTH 104C Physical Assessment of the Orthopaedic Patient | 3 | 2 | 4 |
| # ORTH 113C Orthopaedic Patient Care | 2 | 2 | 3 |
| # ORTH 114C Custom Bracing | 1 | 2 | 2 |
| # ORTH 150C Spring Externship | 0 | 12 | 2 |
| # ORTH 205C Casting and Splinting II * | 2 | 2 | 3 |
| PHIL 242C Contemporary Ethical Issues | 3 | 0 | <u>3</u> |
| | | | 20 |

SUMMER SEMESTER

| | | | |
|---|---|----|----------|
| # ORTH 220C Senior Externship and Capstone Experience** | 1 | 16 | <u>6</u> |
| | | | 6 |

TOTAL CREDITS **42**

* \$500 specialty supplies fee will be added to the cost of ORTH 105 & ORTH 205.

** All students enrolled in a clinical course will be charged a \$500 per semester clinical surcharge. The following courses carry this charge: ORTH 150C, ORTH 220C.

Internship Considerations, see page 152.

Health, Character and Technical Standards, see page 70.

Paramedic Emergency Medicine

The degree of Associate in Science with a major in Paramedic Emergency Medicine is awarded upon successful completion of the program.

Any student considering paramedic education today should consider the associate degree. For many, the degree provides for competitive entry into the job market, a stronger advantage for career advancement, and the potential for academic advancement with the ability to transfer course credits to a four-year college.

NHTI's Paramedic Emergency Medicine Program combines a unique blend of paramedic courses, general education requirements, specialty certifications and diverse hospital and pre-hospital experiences. NHTI students have opportunities to work with some of New England's finest hospital and pre-hospital affiliates.

Program emphasis is placed on the development of paramedic knowledge and theory, practical skills application and the development of professional behaviors required of the entry level paramedic. The development of leadership skills, individual professional growth, and academic excellence are integral parts of the program.

The Paramedic Emergency Medicine Program is accredited by the Commission on Accreditation of Allied Health Education Programs (www.caahep.org) upon the recommendation of the Committee on Accreditation of Educational Programs for the Emergency Medical Services Professions (CoAEMSP). Graduating students receive an Associate in Science with a major in Paramedic Emergency Medicine and are then eligible to sit for the National Registry Paramedic exam as well as for exams in other states. Graduates of the NHTI Paramedic Emergency Medicine program have had great success transferring to other institutions in the pursuit of degrees in nursing, respiratory therapy, physician's assistant, and even MD.

For information about transferring to other institutions see Academic Requirements and Policies at <https://www.nhti.edu/academics/>.

Specific Admission Requirements

1. High school level courses in Biology and Chemistry (with labs) completed with grades of "C" or higher; if college level Anatomy & Physiology I and II are complete with grades of "C" or higher in each, then the Biology and Chemistry pre-admission requirements will be waived.
2. Algebra I completed with a grade of "C" or higher *or* NHTI's MATH 092C with a grade of "C" or higher;
3. Submit copy of National Registry or State EMT;
4. Submit copy of current BCLS/CPR card;
5. Letter of recommendation from EMS supervisor;
6. Submit documentation of at least 100 completed field calls using Option 1 or Option 2. These requirements are designed to verify that you have had sufficient BLS experience and that you have served as the Team Leader prior to the start of your program. (Contact either the Paramedic Department or Admissions Office for the Options Packet.)
OPTION 1: Please have your EMS officer complete the verification letter;
OPTION 2: You must complete 100 calls (that have patient contact). Of the 100 calls you must complete 25 of the required forms attesting to your serving as the Team Leader. For each team leader role also complete the Run Report Form;
7. A personal interview with the Department Admissions Committee;
8. Must be 18 years of age or older.

Please Note: Students who wish to enter the Paramedic Emergency Medicine program and are currently enrolled in another NHTI program must complete and submit the Change of Program form on the website at

https://www.nhti.edu/sites/default/files/content/documents/change_program_dual_major.pdf.

[illegible]

| FALL SEMESTER | | | CL | LAB | CR | SPRING SEMESTER | | | CL | LAB | CR |
|----------------------|------|--|----|-----|----------|-----------------|------|---|----|-----|-----------|
| | BIOL | 222C Pathophysiology | 3 | 0 | 3 | | ENGL | 120C Communications | 3 | 0 | 3 |
| # | PEM | 163C Integration Lab III | 0 | 4 | 1 | # | PEM | 164C Integration Lab IV | 0 | 4 | 1 |
| # | PEM | 201C Special Populations | 2 | 0 | 2 | # | PEM | 210C Field Operations | 2 | 0 | 2 |
| # | PEM | 292C 12 Lead EKG Interpretation/Difficult Airway Seminar | 2 | 0 | 2 | # | PEM | 278C Advanced Paramedic Practice | 2 | 0 | 2 |
| # | PEM | 296C Field Clinical I | 0 | 9 | 3 | # | PEM | 297C Field Clinical II | 0 | 7 | 2 |
| | PSYC | 105C Introduction to Psychology | 3 | 0 | <u>3</u> | | XX | xxxC Humanities/Fine Arts/Foreign Language Elective | 3 | 0 | <u>3</u> |
| | | | | | 14 | | | | | | 14 |
| TOTAL CREDITS | | | | | | | | | | | 67 |

* All students enrolled in a clinical course will be charged a \$500 per semester clinical surcharge. The following course carries this charge: PEM 194C.

Technical standards have been established as a guidance tool for use in realistically informing the student of minimum standards needed 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 program officials to discuss individual cases. The program officials will seriously consider all academically qualified candidates providing that the technical standards can be met with reasonable accommodations.

Dental Assisting (see Program page 44)

Students must be aware of the abilities and characteristics that are necessary to complete the Dental Assisting Program requirements and function as a dental assistant. NHTI complies and respects Section 504 of the Rehabilitation Act of 1973 and the Americans with Disabilities Act of 1990. Therefore, the Department will not discriminate on the basis of race, color, creed, national origin, ancestry, citizenship, gender, sexual orientation, religion, age or disability. Reasonable accommodations will be made for students with disabilities so long as they do not compromise the academic and performance standards of the program. Lab and clinical experiences can be accommodated only to the extent that there is no fundamental alteration of the program requirements, and the health, character and technical standards.

The NHTI—Concord's Community College Professional Certificate of Dental Assisting is awarded to those who successfully complete and prove competence in all program requirements. Therefore, the student must demonstrate the knowledge, skills and behaviors deemed essential for the practice of dental assisting. The following technical standards describe the essential skills a student must possess in the areas of intellect, sensory function, communication, fine and gross motor function and behavior.

Applicants must be in good physical and mental health in order to qualify for the program. In order to assume the responsibilities and perform the duties of a dental assistant, individuals must be able to satisfactorily possess the following:

1. Sitting at chair side for a sustained length of time with frequent reaching and turning;
2. Manual dexterity to safely perform intraoral instrumentation;
3. Sufficient hearing to accurately assess patient needs and communicate effectively with co-workers;
4. Sufficient eyesight to observe patients, operate dental equipment, including x-ray machines; visual acuity (correctable) to work with small measurements and instruments in preparing and manipulating dental materials.

Dental Hygiene (see Program page 46)

The Department believes that students must be aware of the abilities and characteristics that are necessary to complete the dental hygiene program requirements and function as a dental hygienist. NHTI complies and respects Section 504 of the Rehabilitation Act of 1973 and the Americans with Disabilities Act of 1990. Therefore, the Department will not discriminate on the basis of race, color, creed, national origin, ancestry, citizenship, gender, sexual orientation, religion, age or disability. Reasonable accommodations will be made for students with disabilities so long as they do not compromise the academic and performance standards of the program.

The Associate of Science degree in Dental Hygiene is awarded to those who successfully complete and prove competence in all program requirements. Therefore, the student must demonstrate the knowledge, skills and behaviors deemed essential for the practice of dental hygiene. The following technical standards describe the essential skills a student must possess in the areas of intellect, sensory function, communication, fine and gross motor function and behavior.

In order to assume the responsibilities and perform the duties of a dental hygienist, individuals must be able to satisfactorily possess/accomplish the following:

1. Intellectual abilities requiring reason, analysis, problem solving, critical thinking, self-evaluation and lifelong learning skills are required. Students must be able to learn, integrate, analyze and synthesize data. Comprehension of three-dimensional and spatial relationships is necessary. Consistent, accurate and quick integration of information is required, especially in emergency situations.
2. Somatic sensation and functional use of all senses is required. Exteroceptive (i.e. touch) and proprioceptive (i.e. position, pressure, movement) is mandatory. Students must also be able to observe demonstration at a distance and close at hand; performance of procedures in the classroom, lab and clinic is required. The student must be able to see fine detail, focus at several distances and discern variations in color, shape and texture in order to differentiate normal and abnormal structures. Students must be able to utilize tactile sense to perceive and interpret vibrations associated with clinical procedures. Visual and intellectual ability is necessary to acquire information from documents such as charts, radiographs, computer images and other modes of delivery.
Students must have sufficient hearing in order to develop reasonable skills of percussion and auscultation.
3. Sufficient fine and gross motor function is required to perform a variety of clinical procedures essential to providing dental hygiene care for clients. Examples of essential motor skills include manipulation of small objects and materials, palpation, percussion, auscultation and other maneuvers. Fine motor ability is a critical necessary skill. Gross motor ability is required in order to perform functions such as basic life support, transfer and position of clients as well as the operator position around the patient and dental chair. Students must be able to operate both foot and hand controls.
4. Students must be able to communicate effectively with clients, peers, faculty and guests. Individuals must have sufficient command of the English language in order to retrieve information from textbooks, lectures, exams, etc. Students must be able to communicate in verbal, nonverbal and written form.
5. Students must possess the emotional health required for full utilization of his/her intellectual abilities, exercise of good judgment, and prompt completion of all responsibilities associated with the care of clients. The development of mature, sensitive, professional relationships with clients is essential. Professionalism, compassion, integrity, empathy and respect for clients are all personal qualities that are necessary for the dental hygienist. Students must be able to endure physically taxing workloads and function effectively under stress. A student must be able to accept constructive criticism and respond appropriately by modifying behavior.

Nursing Associate Degree Generic Option (see Program page 62) and **LPN-RN Option** (see Program page 63)

Standards have been established to provide guidance to students as to skills and abilities requisite to participate in the nursing program.

- **General Abilities:** The student must possess functional use of the senses of vision, touch, hearing, and smell so that data received by the senses may be integrated, analyzed, and synthesized in a consistent and accurate manner. A student must also possess the ability to perceive pain, pressure, temperature, position, vibration, and movement that are important to the student's ability to gather significant information needed to effectively evaluate patients. A student must be able to respond promptly to urgent situations that may occur during clinical training activities and must not hinder the ability of other members of the health care team to provide prompt treatment and care to patients.
- **Observational Ability:** The student must have sufficient capacity to make accurate visual observations and interpret them in the context of laboratory studies, medication administration, and patient care activities. In addition, the student must be able to document these observations and maintain accurate records.
- **Communication Ability:** The student must be able to communicate effectively both verbally and non-verbally to elicit information and to translate that information to others. Each student must have the ability to read, write, comprehend and clearly speak the English language to facilitate communication with patients, their family members, and other professionals in health care settings. In addition, the student must be able to maintain accurate patient records, present information in a professional, logical manner and provide patient counseling and instruction to effectively care for patients and their families. The student must also be able to clearly communicate effectively verbally and in writing with instructors and other students in the classroom setting.
- **Motor Ability:** The student must be able to perform gross and fine motor movements with sufficient coordination needed to perform complete physical examinations utilizing the techniques of inspection, palpation, percussion, auscultation, and other diagnostic maneuvers. A student must be able to develop the psychomotor skills reasonably needed to perform or assist with procedures, treatments, administration of medication, management and operation of diagnostic and therapeutic medical equipment, and such maneuvers to assist with patient care activities such as lifting, wheel chair guidance, and mobility. The student must have sufficient levels of neuromuscular control and eye-to-hand coordination as well as possess the physical and mental stamina to meet the demands associated with extended periods of sitting, standing, moving, and physical exertion required for satisfactory and safe performance in the clinical and classroom settings including performing CPR if necessary. The student must possess the ability of manual and visual dexterity such as to draw up solutions in a syringe.
- **Intellectual, Conceptual, and Quantitative Abilities:** The student must be able to develop and refine problem-solving skills that are crucial to practice as a nurse. Problem solving involves the abilities to measure, calculate, reason, analyze, and synthesize objective and subjective data, and to make decisions, often in a time urgent environment, that reflect consistent and thoughtful deliberation and sound clinical judgment. Each student must demonstrate mastery of these skills and possess the ability to incorporate new information from peers, teachers, and the nursing and medical literature to formulate sound judgment in patient assessment, intervention, evaluation, teaching, and setting short and long term goals. Students must demonstrate arithmetic competence that would allow the student to read and understand columns and/or writing, tell time, use measuring tools, and add, subtract, multiply, and divide.
- **Behavioral and Social Attributes:** Compassion, integrity, motivation, effective interpersonal skills, and concern for others are personal attributes required of those in the nursing programs. Personal comfort and acceptance of the role of a nurse functioning under supervision of a clinical instructor or preceptor is essential for a nursing student. The student must possess the skills required for full utilization of the student's intellectual abilities; the exercise of good judgment; the prompt completion of all responsibilities in the classroom and clinical settings; and the development of mature, sensitive, and effective relationships with patients and other members of the health care team. Each student must be able to exercise stable, sound judgment and to complete assessment and interventional activities in a timely manner to assure patient safety and wellbeing. The ability to establish rapport and maintain sensitive, interpersonal relationships with individuals, families, and groups from a variety of social, emotional, cultural and intellectual backgrounds is critical for practice as a nurse. The student must be able to adapt to changing environments; display flexibility; accept and integrate constructive criticism given in the classroom and clinical settings; effectively interact in the clinical setting with other members of the healthcare team; and learn to function cooperatively and efficiently in the face of uncertainties inherent in clinical practice.
- **Examinations:** Certain courses in the nursing programs require students to take timed and/or online examinations. Students may be required to take timed, online and/or other types of examinations in a proctored, secure setting that is acceptable to the program.
- **Ability to Manage Stressful Situations:** The student must be able to adapt to and function effectively to stressful situations in both the classroom and clinical settings, including emergency situations. Students will encounter multiple stressors while in the nursing programs. These stressors may be (but are not limited to) personal, patient care/family, faculty/peer, and or program related.

NOTE: The healthcare environment contains substantial amounts of latex. Applicants with latex allergies place themselves at risk of reaction. The Nursing Department does not recommend that individuals with a latex allergy pursue a career in health care.

Orthopaedic Technology Associate Degree (see Program page 66) & **Certificate** (see Program page 68)

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

1. Sufficient hearing to assess patient needs and to understand instructions, emergency signals and telephone conversation.
2. Sufficient visual acuity to observe patients, manipulate equipment, and interpret data: visual acuity sufficient to ensure a safe environment, identify color changes, read fine print/writing and calculate fine calibrations.
3. Sufficient verbal ability to express and exchange information and ideas and to interact with patients, family members, physicians, peers and other ancillary medical personnel.
4. Sufficient writing skills to record medical data and communicate with other medical professionals; ability to express ideas to educate the client and exchange information with other health professionals, including typing on a computer.
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 strength and motor coordination to perform the following physical activities: manual dexterity in handling and lifting equipment; frequent moving and lifting of patients; stooping and bending for sustained periods of time; and performing CPR.
7. Standing for sustained periods of time and walking most of the work day to accomplish tasks.
8. Frequent reaching and manual dexterity in handling Durable Medical Equipment.
9. Ability to secure transportation to practicum sites and classes.
10. Will be exposed to some latex during clinical settings.

Computed Tomography (CT) Certificate (see Program page 49)

Technical Standards

Technical standards have been established as a guidance tool for use in realistically informing the student of minimum standards needed to satisfactorily function in the program and ultimately in the profession.

Essential Functions

Essential functions have been established as a guidance tool for use in realistically informing the student of minimum standards needed 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 essential functions listed below should contact the program officials to discuss individual cases. The program officials will seriously consider all academically qualified candidates providing that the essential functions can be met with reasonable accommodations.

The student must have sufficient strength and motor coordination required to perform the following physical activities:

- Standing for sustained periods of time and walking most of the work day to accomplish tasks.
- Frequent reaching and manual dexterity in handling accessory equipment for sonographic purposes including typing on computer terminals and manipulation of transducers.
- Frequently transporting, moving, lifting and transferring patients from a wheelchair or stretcher to and from an examination table.

In addition, the student must have:

- Sufficient eyesight to observe patients, manipulate equipment and evaluate image quality. Visual acuity sufficient to work with analyzing data and figures, working with computer terminals, extensive reading, visual inspection involving small defects, small parts, and operation of equipment.
- Sufficient hearing to assess patient needs.
- Sufficient writing skills to communicate needs promptly and effectively. Ability to express or exchange ideas by means of the spoken word. Primary function includes activities in which the student must convey detailed or important spoken instructions to patients, physicians, families, and other employees, accurately, loudly or quickly.
- Ability to work with frequent interruptions and respond appropriately to unexpected situations. Ability to work with wide variations in workload and stress levels.

Diagnostic Medical Sonography Professional Certificate (see Program page 51)

Technical Standards

Technical standards have been established as a guidance tool for use in realistically informing the student of minimum standards needed to satisfactorily function in the program and ultimately in the profession.

Essential Functions

Essential functions have been established as a guidance tool for use in realistically informing the student of minimum standards needed 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 essential functions listed below should contact the program officials to discuss individual cases. The program officials will seriously consider all academically qualified candidates providing that the essential functions can be met with reasonable accommodations.

The student must have sufficient strength and motor coordination required to perform the following physical activities:

1. Standing for sustained periods of time and walking most of the work day to accomplish tasks.
2. Frequent reaching and manual dexterity in handling accessory equipment for sonographic purposes including typing on computer terminals and manipulation of transducers.
3. Frequently transporting, moving, lifting and transferring patients from a wheelchair or stretcher to and from an examination table.

In addition, the student must have:

1. Sufficient eyesight to observe patients, manipulate equipment and evaluate image quality. Visual acuity sufficient to work with analyzing data and figures, working with computer terminals, extensive reading, visual inspection involving small defects, small parts, and operation of equipment.
2. Sufficient hearing to assess patient needs.
3. Sufficient writing skills to communicate needs promptly and effectively. Ability to express or exchange ideas by means of the spoken word. Primary function includes activities in which the student must convey detailed or important spoken instructions to patients, physicians, families, and other employees, accurately, loudly or quickly.
4. Ability to work with frequent interruptions and respond appropriately to unexpected situations. Ability to work with wide variations in workload and stress levels.

Radiation Therapy Associate Degree (see page 52) and **Radiation Therapy Certificate** (see page 53)

The student must have sufficient strength and motor coordination required to perform the following physical activities:

1. Standing for sustained periods of time and walking most of the work day to accomplish tasks;
2. Frequent reaching and manual dexterity in handling accessory equipment for radiographic purposes including typing on computer terminals;
3. Frequently transporting, moving, lifting and transferring patients from a wheelchair or stretcher to and from a radiographic table.

In addition, the student must have:

1. Sufficient eyesight to observe patients, manipulate equipment and evaluate radiographic quality. Visual acuity (correctable) sufficient to work with analyzing data and figures, working with computer terminals, extensive reading, visual inspection involving small defects, small parts, and operation of machines;
2. Sufficient hearing to assess patient needs;
3. Sufficient writing skills to communicate needs promptly and effectively. Ability to express or exchange ideas by means of the spoken word. Primary functions include activities in which the student must convey detailed or important spoken instructions to patients, physicians, families, and other employees accurately, and loudly or quickly; and
4. Ability to work with frequent interruptions and respond appropriately to unexpected situations. Ability to work with wide variations in work load and stress levels.

Radiologic Technology (see Program page 55)

Health, Character and Technical Requirements

The student must have sufficient strength and motor coordination required to perform the following physical activities:

1. Standing for sustained periods of time and walking most of the work day to accomplish tasks;
2. Frequent reaching and manual dexterity in handling accessory equipment for radiographic purposes including typing on computer terminals;
3. Frequently transporting, moving, lifting and transferring patients from a wheelchair or stretcher to and from a radiographic table.

In addition, the student must have:

1. Sufficient eyesight to observe patients, manipulate equipment and evaluate radiographic quality. Visual acuity (correctable) sufficient to work with analyzing data and figures, working with computer terminals, extensive reading, visual inspection involving small defects, small parts, and operation of machines;
2. Sufficient hearing to assess patient needs;
3. Sufficient writing skills to communicate needs promptly and effectively. Ability to express or exchange ideas by means of the spoken word. Primary functions include activities in which the student must convey detailed or important spoken instructions to patients, physicians, families, and other employees accurately, and loudly or quickly; and
4. Ability to work with frequent interruptions and respond appropriately to unexpected situations. Ability to work with wide variations in work load and stress levels.

Paramedic Emergency Medicine (see Program page 69)

Technical/Physical Standards

Paramedic Emergency Medicine Program students must have sufficient strength and motor coordination required to perform the following physical activities: standing and walking for sustained periods of time; driving an ambulance and/or rescue unit under emergency conditions; frequent reaching and manual dexterity in handling equipment often in confined spaces; frequently transporting, moving, lifting, and transferring patients of various sizes to and from a stretcher and other patient transport devices.

Health Requirements

Annual TB testing; Hepatitis B vaccine; personal health insurance; completed health physical (all students are sent NHTI health forms upon acceptance, which must be completed prior to the start of classes); drug screening; and NHTI liability insurance.

In addition, the student must have:

Never been convicted of a felony (may interfere with National Registry eligibility); sufficient eyesight (correctable) to observe patients, manipulate equipment, and interpret data. Visual acuity (correctable) sufficient to work with analyzing data and figures, working with computer terminals, making visual inspections of equipment; sufficient hearing (correctable) to assess patient needs and to understand instructions; sufficient written and oral skills to communicate needs promptly and effectively, to express or exchange ideas and to interact with patients, physicians, peers and other ancillary medical personnel as well as other public service emergency personnel; ability to work with frequent interruptions and respond appropriately to unexpected situations. Ability to work with wide variations in workload and stress levels; mental health status to cope with personal stresses in a way that does not adversely affect performance, such as mood changes, lack of concentration, etc.

Students that do not meet entrance requirements may need an alternate plan to the scheduling of their courses. Those currently enrolled at NHTI often take non-major courses, easing the class-load when admitted to the Paramedic Emergency Medicine program. At this time the core-classes for this degree program are only offered during the day. Also, due to the sequential nature of the course work these core-classes are only available to those who have been accepted into the program.

Hospitality

Digital Communications Certificate

Digital Communications is a skill set that can be used across many industries among a wide spectrum of disciplines. Web development, marketing analytics and analysis are skills needed for a digital/social media presence in the global market place.

The Digital Marketing industry continues to grow and expand globally. New Hampshire's marketing industry shares in its growth. Opportunities for professional growth within the marketing industry are excellent.

The Digital Communications Certificate program will instruct students in social media marketing, website management, data analysis, accounting, relationship marketing, email marketing, and mobile application marketing. This curriculum will prepare students for careers in data management, social media, website management, sales, marketing, guest services, tourism associations, and business administration, or for transfer to bachelors programs in information technology, business administration, and the sports, recreation and tourism fields.

This program is financial aid eligible. To be eligible for federal financial aid, students must submit an official, final high school transcript, or the equivalent documentation that demonstrates high school completion, to the NHTI Admissions Office.

Graduates will have the ability to obtain the following professional certifications:

1. Google Analytics Individual Qualification Certification
2. Google AdWords Certification
3. HubSpot InBound Certification
4. HubSpot Email Marketing Certification
5. Hootsuite Platform Certification

| | | CL | LAB | CR |
|-----------|--------------------------------|----|-----|-----------|
| DCOM 105C | Digital Communications | 3 | 0 | 3 |
| DCOM 130C | Ecommerce, Websites and | | | |
| | Blogging | 3 | 0 | 3 |
| DCOM 150C | Social Media Strategy | 3 | 0 | 3 |
| DCOM 210C | Search Engine Optimization | 3 | 0 | 3 |
| DCOM 230C | Email and Mobile Promotion and | | | |
| | Marketing | 3 | 0 | 3 |
| DCOM 250C | Digital Analytics | 3 | 0 | <u>3</u> |
| | TOTAL CREDITS | | | 18 |

Event/Conference Management Certificate

The Certificate program in Event/Conference Management gives students the opportunity to acquire the skills needed to work in conference/event management at a hotel/conference center, sports arena, or a corporate organization. Students will develop an understanding of the hotel/tourism industry and learn how to plan and organize conferences and events. The use of meeting software, as well as web and social media applications, will be discussed to provide students with a technical understanding of these industry tools. This program is available days and evenings. **This program is financial aid eligible.** To be eligible for federal financial aid, students must submit an official, final high school transcript, or the equivalent documentation that demonstrates high school completion, to the NHTI Admissions Office.

This program is offered during the day, evening and online.

| | | CL | LAB | CR |
|-----------|---------------------------------|----|-----|-----------|
| BUS 170C | Principles of Marketing | 3 | 0 | 3 |
| BUS 225C | Business Law | 3 | 0 | 3 |
| DCOM 105C | Digital Communications | 3 | 0 | 3 |
| HSTM 101C | Introduction to the Hospitality | | | |
| | and Tourism Industry | 3 | 0 | 3 |
| HSTM 205C | Quality Service Management | 3 | 0 | 3 |
| HSTM 245C | Event, Meeting and | | | |
| | Convention Planning | 3 | 0 | 3 |
| HSTM 269C | Food and Beverage Management | 3 | 0 | <u>3</u> |
| | TOTAL CREDITS | | | 21 |

NOTE: Students matriculating into this certificate program are expected to possess a working knowledge of software applications including word processing, spreadsheet, and presentation software, or to have successfully completed NHTI's IST 102C (PC Applications) or comparable course. Students must maintain Internet access, including a professional working email address, throughout their participation in this program.

Internship Considerations, see page 152. Health, Character and Technical Standards, see page 82.

Hospitality and Tourism Management

The degree of Associate in Science with a major in Hospitality and Tourism Management is awarded upon successful completion of the program.

The Hospitality and Tourism industry continues to grow and expand globally. New Hampshire's tourism industry shares in its growth. Opportunities for professional growth within the hospitality industry are excellent. The curriculum will prepare students for careers in hotels, conference centers, sales and marketing, guest services, tourism associations, travel agencies, airlines and attractions. Students will receive instruction in sales, customer service, relationship marketing, communications, accounting and legal issues.

Elective options give students the opportunity to complete a certificate in:

- Hotel Administration
- Event/Conference Management
- Travel and Tourism
- Wedding Planning Management

There are many travel opportunities through NHTI's travel education programs. Past trips have included World Travel Market Expo, London, England; New York Times Travel Show, NYC; Boston Globe Travel Show, Boston; China; Bermuda; Spain; and Orlando, FL. (Additional fees may apply.)

The A.S. in Hospitality and Tourism Management degree program is accredited by the Accreditation Council for Business Schools and Programs (ACBSP). The most recent report to ACBSP on student learning and academic achievement in NHTI business programs is available at <https://www.nhti.edu/sites/default/files/content/documents/busstudassess.pdf>.

Specific Admission Requirements

1. College preparatory course (or equivalent) in English and/or Communications; good verbal abilities and writing skills are major considerations for acceptance into the Hospitality and Tourism Management Program;
2. Computer keyboarding skills are essential.

Note: Applicants should be aware that all associate degree programs at NHTI require successful completion of at least one semester of college level mathematics. Therefore, the college strongly recommends that all applicants successfully complete high school Algebra I with a grade of "C" or higher prior to admission. Those students whose placement testing does not demonstrate readiness for college level mathematics may require more than two years to complete their degree.

FIRST YEAR

| FALL SEMESTER | | | CL | LAB | CR | SPRING SEMESTER | | | CL | LAB | CR |
|--|---|--|----|-----|----------|--|--|--|----|-----|----------|
| ENGL 101C English Composition | | | 4 | 0 | 4 | ACCT 101C Accounting I | | | 3 | 0 | 3 |
| # | HSTM 101C Introduction to Hospitality and Tourism ¥ | | 3 | 0 | 3 | # | GEOG 110C Introduction to Cultural Geography | | 3 | 0 | 3 |
| # | BUS 170C Principles of Marketing | | 3 | 0 | 3 | XX xxxC Humanities/Fine Arts/ Foreign Language Elective | | | 3 | 0 | 3 |
| DCOM105C Digital Communications | | | 3 | 0 | 3 | # | HSTM 205C Quality Service Management | | 3 | 0 | 3 |
| MATH120C Quantitative Reasoning <i>or higher</i> | | | 4 | 0 | <u>4</u> | # | HSTM/DCOM/BUS xxxC | | | | |
| | | | | | 17 | HSTM/DCOM Elective <i>or</i> BUS 174C* | | | 3 | 0 | <u>3</u> |
| | | | | | | | | | | | 15 |

SECOND YEAR

| FALL SEMESTER | | | CL | LAB | CR | SPRING SEMESTER | | | CL | LAB | CR |
|---------------|------------------------------|-------------------------|----|-----|----------|-----------------|------------------------------------|--------------------------|-----|-----|------------|
| BUS | 225C | Business Law I | 3 | 0 | 3 | # BUS | 270C | Principles of Management | 3 | 0 | 3 |
| # | HSTM/DCOM/BUS xxxC | | | | | # | HSTM 280C Senior Travel Seminar | | 3 | 0 | 3 |
| | HSTM/DCOM Elective <i>or</i> | | | | | | BUS 273C Human Resource Management | | 3 | 0 | 3 |
| | BUS 174C* | | 3 | 0 | 3 | # | HSTM/DCOM/BUS xxxC | | | | |
| # | HSTM 245C Event Meeting and | | | | | | HSTM/DCOM Elective <i>or</i> | | | | |
| | Conference Planning | | 3 | 0 | 3 | | BUS 174C* | | 3 | 0 | 3 |
| ACCT | 102C | Accounting II | 3 | 0 | 3 | XX | xxxC Science Elective** | | 3-4 | 0 | <u>3-4</u> |
| SOCI | xxxC | Social Science Elective | 3 | 0 | <u>3</u> | | | | | | 15-16 |
| | | | | | 15 | | TOTAL CREDITS | | | | 62-63 |

TOTAL CREDITS

Indicates major field courses.

¥ A Travel Fee of \$75 will be assessed for all students taking HSTM 101C. The money will be used to defray some of the costs associated with student travel experiences. There will be additional costs to students associated with some of the more extensive trips.

* Any HSTM course that is not a required course including ACCT 102C.

*** BIOL 100C, CHEM 100C and PHYS 100C do not meet this requirement.

NOTE: Students must maintain Internet access, including a professional working email address, throughout their participation in this program.

Internship, Health, Character and Technical Standards, see page 82.

Hotel Administration Certificate

The Hotel Administration program will prepare students for an entry-level position in the hotel industry. The student will explore the various types of positions and responsibilities as they relate to the size and needs of a Deluxe to Tourist Hotel, Inn, Lodge or Resort in relation to front office operations.

This program is financial aid eligible. To be eligible for federal financial aid, students must submit an official, final high school transcript, or the equivalent documentation that demonstrates high school completion, to the NHTI Admissions Office.

This program is offered during the day, evening and online.

| | CL | LAB | CR |
|---|----|-----|-----------|
| HSTM 101C Introduction to the Hospitality and Tourism Industry¥ | 3 | 0 | 3 |
| HSTM 110C Introduction to Hotel Operations | 3 | 0 | 3 |
| HSTM 205C Quality Service Management | 3 | 0 | 3 |
| HSTM 225C Front Office Operations + | 3 | 0 | 3 |
| HSTM 245C Event, Meeting and Convention Planning | 3 | 0 | 3 |
| HSTM 269C Food and Beverage Management + | 3 | 0 | 3 |
| BUS 273C Human Resources Management | 3 | 0 | <u>3</u> |
| TOTAL CREDITS | | | 21 |

¥ A Travel Fee of \$75 will be assessed for all students taking HSTM 101C. The money will be used to defray some of the costs associated with student travel experiences. There will be additional costs to students associated with some of the more extensive trips.

+ HSTM 225C and HSTM 269C are only available through the Online & Continuing Education office.

Note: Students matriculating into this certificate program are expected to possess a working knowledge of software applications including word processing, spreadsheet, and presentation software, or to have successfully completed NHTI's IST 102C (PC Applications) or comparable course. Students must maintain Internet access, including a professional working email address, throughout their participation in this program.

Internship Considerations, see page 152. Health, Character and Technical Standards, see page 82.

Recreation and Leisure Studies Degree

The degree of Associate in Science with a major in Recreation and Leisure Studies will be awarded upon successful completion of the program.

The Recreation and Leisure Program is designed for students who seek the skills necessary for entry-level employment in the recreation and leisure industry. Students will examine the recreational needs of a community and foster their leadership skills to work with diverse populations. Time management, organizational skills, and managing activities will be emphasized in the program.

Employment opportunities have expanded in many areas including municipal parks and recreation departments, non-profit organizations such as YMCA and medical institutions. There are many career paths students may pursue with a degree in Recreation and Leisure Studies and through the advisement process, faculty will work with students to assist in course selection based on transfer or career interest.

FIRST YEAR

| FALL SEMESTER | CL | LAB | CR | SPRING SEMESTER | CL | LAB | CR |
|--|----|-----|----------|--|----|-----|----------|
| ENGL 101C English Composition | 4 | 0 | 4 | BIOL 129C Introduction to Sports Nutrition <i>or</i> | | | |
| HLTH 150C Introduction to Personal Wellness | 1 | 1 | 1 | XX xxxC Science Elective | 3 | 0-2 | 3-4 |
| IST 102C PC Applications | 3 | 0 | 3 | HLTH 120C Care & Prevention of Athletic Injuries | 3 | 2 | 4 |
| MATH 120C Quantitative Reasoning <i>or</i> | | | | # RECR 120C Recreation Program and Planning | 3 | 0 | 3 |
| MATH xxxC Higher level math | 4 | 0 | 4 | # RECR 125C Risk Management in Recreation | 3 | 0 | 3 |
| # RECR 101C Introduction to Recreation and Leisure Studies | 3 | 0 | <u>3</u> | SPTS 170C Sports and Recreation Marketing | 3 | 0 | <u>3</u> |
| | | | 15 | | | | 16-17 |

SECOND YEAR

| FALL SEMESTER | CL | LAB | CR | SPRING SEMESTER | CL | LAB | CR |
|---|----|-----|----------|--|-----|-----|----------|
| BUS 225C Business Law I <i>or</i> | | | | ACCT 101C Accounting I <i>or</i> | | | |
| SPTS 225C Sports and Recreation Law | 3 | 0 | 3 | # RECR 290C Recreation and Leisure Internship <i>or</i> | | | |
| PSYC 105C Introduction to Psychology <i>or</i> | | | | XX xxxC RECR/SPTS/BUS/HSTM Elective | 0-3 | 0-9 | 3 |
| XX xxxC Social Science Elective | 3 | 0 | 3 | HSTM 115C Introduction to Fitness, Spa and Wellness Management <i>or</i> | | | |
| # RECR 230C Leadership for Recreation, Parks and Leisure Services | 3 | 0 | 3 | # RECR 220C Outdoor Recreation <i>or</i> | | | |
| # RECR xxxC Recreation Activity Elective | 0 | 2 | 1 | # RECR 250C Principles of Therapeutic Recreation | 3 | 0 | 3 |
| SPTS 210C Sports & Fitness Facilities Management | 3 | 0 | 3 | PHIL 242C Contemporary Ethical Issues | 3 | 0 | 3 |
| SPTS 220C Sports and Recreation Communication | 3 | 0 | <u>3</u> | # RECR xxxC Recreation Activity Elective | 0 | 2 | 1 |
| | | | 16 | XX xxxC General Education Elective | 3 | 0 | <u>3</u> |
| | | | | | | | 13 |
| | | | | TOTAL CREDITS | | | 60-61 |

Indicates major field courses.

Internship Considerations, see page 152. Health, Character and Technical Standards, see page 82.

Recreation and Leisure Studies Certificate

This certificate program emphasizes skills needed to work in a recreation positions such as the YMCA or Parks and Recreation Department. The curriculum focuses on areas such as leadership, program planning, communications and risk management. Students will understand the impact recreation and leisure has on the overall wellness of individuals participating in a recreation program.

This program is available days and evenings.

This program is financial aid eligible. To be eligible for federal financial aid, students must submit an official, final high school transcript, or the equivalent documentation that demonstrates high school completion to the NHTI Admissions Office.

| | CL | LAB | CR |
|--|-----|-----|--------------|
| DCOM 105C Digital Communications or | 3 | 0 | 3 |
| XX xxxC RECR/SPTS Elective | 1-3 | 0 | 1-3 |
| RECR 101C Introduction to Recreation and Leisure Studies | 3 | 0 | 3 |
| RECR 120C Recreation Program and Planning | 3 | 0 | 3 |
| RECR 125C Risk Management in Recreation | 3 | 0 | 3 |
| RECR 230C Leadership for Recreation, Parks and Leisure Services | 3 | 0 | 3 |
| SPTS 220C Sports and Recreation Communication | 3 | 0 | 3 |
| SPTS 225C Sports and Recreation Law | 3 | 0 | <u>3</u> |
| TOTAL CREDITS | | | 19-21 |

Internship Considerations, see page 152. Health, Character and Technical Standards, see page 82.

Travel and Tourism Certificate

The Travel and Tourism industry is one that is continually developing. The Travel and Tourism certificate has a travel counselor/agent focus. Emphasis is placed on cultural geography, cruise and tour sales, ecotourism, and marketing and sales.

This program is offered online; some course are offered in the evening.

This program is financial aid eligible. To be eligible for federal financial aid, students must submit an official, final high school transcript, or the equivalent documentation that demonstrates high school completion, to the NHTI Admissions Office.

| | CL | LAB | CR |
|--|----|-----|-----------|
| DCOM 105C Digital Communications | 3 | 0 | 3 |
| GEOG 110C Introduction to Cultural Geography | 3 | 0 | 3 |
| HSTM 101C Introduction to the Hospitality and Tourism Industry¥ | 3 | 0 | 3 |
| HSTM 205C Quality Service Management | 3 | 0 | 3 |
| HSTM 230BC Principles of Ecotourism Management | 3 | 0 | 3 |
| HSTM 260C Hospitality Sales and Marketing+ | 3 | 0 | 3 |
| HSTM 263C Tour Planning and Cruise Sales | 3 | 0 | <u>3</u> |
| TOTAL CREDITS | | | 21 |

¥ A Travel Fee of \$75 will be assessed for all students taking HSTM 101C. The money will be used to defray some of the costs associated with student travel experiences. There will be additional costs to students associated with some of the more extensive trips.

+ HSTM 260C may only be offered online, please check with your advisor.

NOTE: Students matriculating into this certificate program are expected to possess a working knowledge of software applications including word processing, spreadsheet, and presentation software, or to have successfully completed NHTI's IST 102C (PC Applications) or comparable course. Students must maintain Internet access, including a professional working email address, throughout their participation in this program.

Internship Considerations, see page 152. Health, Character and Technical Standards, see page 82.

The Certificate in Wedding Planning Management prepares students by requiring mastery of the fundamentals of event planning, as well as developing the ability to create and orchestrate exceptional weddings and parties. Students will develop an understanding of the role of the wedding planner, the elements of a successful wedding event, and the critical skills needed for a successful career as a wedding planner.

This program is offered in the day, evening and online.

This program is financial aid eligible. To be eligible for federal financial aid, students must submit an official, final high school transcript, or the equivalent documentation that demonstrates high school completion, to the NHTI Admissions Office.

Students completing this certificate will gain entry-level competencies that are stackable toward additional certificates, associate degrees, and bachelor's degrees.

Completers who choose to work exclusively in the wedding planner field could expect to earn \$30,000-\$40,000 annually. However, completers who also possess an associate degree or higher could expect to earn closer to the median salary of \$60,000 per year.

| | | CL | LAB | CR |
|----------------------|---|----|-----|-----------|
| DCOM 105C | Digital Communications | 3 | 0 | 3 |
| HSTM 101C | Introduction to the Hospitality and Tourism Industry¥ | 3 | 0 | 3 |
| HSTM 110C | Introduction to Hotel Operations | 3 | 0 | 3 |
| HSTM 205C | Quality Service Management | 3 | 0 | 3 |
| HSTM 227C | Legal Issues for the Hospitality Industry+ | 3 | 0 | 3 |
| HSTM 247C | Principles of Wedding Planning Management | 3 | 0 | 3 |
| HSTM 260C | Hospitality Sales and Marketing+ | 3 | 0 | 3 |
| HSTM 270C | Catering Operations+ | 3 | 0 | 3 |
| TOTAL CREDITS | | | | 24 |

¥ A Travel Fee of \$75 will be assessed for all students taking HSTM 101C. The money will be used to defray some of the costs associated with student travel experiences. There will be additional costs to students associated with some of the more extensive trips.

+ HSTM 110C, HSTM 247C, and HSTM 270C may only be offered online, please check with your advisor.

Note: Students matriculating into this certificate program are expected to possess a working knowledge of software applications including word processing, spreadsheet, and presentation software, or to have successfully completed NHTI's IST 102C (PC Applications) or comparable course. Students must maintain Internet access, including a professional working email address, throughout their participation in this program.

Expected Student Outcomes:

- Describe the role of the wedding planner in organizing and coordinating a wedding and describe the elements of professionalism, creativity, and expertise required to achieve success as a wedding planner.
- Describe the origins of the most common customs, rituals, and traditions used in wedding ceremonies and explain the factors that engaged couples typically consider when determining the style and size of their wedding.
- Identify the various events associated with weddings, including parties, showers, and the wedding reception and the processes that must be followed to successfully schedule and manage these events.
- Explain the responsibilities associated with planning and organizing a wedding including vendor selection and contracting and the identification and selection of appropriate wedding attire for all members of the wedding party.
- Describe the critical business considerations of running a wedding planning business such as financial planning and management, legal concerns, record keeping and marketing, technical aspects and outline typical fee structures used by wedding planning businesses.

Internship Considerations, see page 152. Health, Character and Technical Standards, see page 82.

Technical Standards

Technical standards have been established to provide guidance to students regarding skills and abilities required to function successfully in the Hospitality and Tourism Management program and ultimately in the Hospitality/Tourism profession. Students in the Hospitality and Tourism Management Associate degree program and any of the related certificate programs must be able to demonstrate:

1. the ability to act in a professional manner on field trips or at internship locations;
2. sufficient vision, hearing, and verbal abilities to express and exchange information and ideas, as well as to interpret important instructions in the classroom or at internship locations;
3. the ability to work with frequent interruptions, to respond appropriately to unexpected situations, and to cope with extreme variations in workload and stress levels.

Although not a technical standard for entry into the Hospitality and Tourism Management programs, applicants should be aware that some positions may require the physical ability to stand for long periods and to lift up to 70 pounds.

Social, Educational and Behavioral Sciences

Addiction Counseling

The degree of Associate in Science with a major in Addiction Counseling will be awarded upon successful completion of the program.

The Addiction Counseling Program provides professional Addiction Counseling Education and field experience for students who seek careers as addiction counselors and human service professionals with a specialty in addiction knowledge and counseling. Coursework incorporates both theory and skill practice as well as practica experience, including specialized addiction courses, individual and group counseling, interviewing, crisis intervention and conflict resolution. The practica offer the student direct exposure and learning within the addiction field.

Graduates of the program serve in positions in public and private general psychiatric units and hospitals, youth and group homes, addiction treatment centers, diversion programs and mental health and social service agencies. The program also serves as a basis for the student to transfer on to a baccalaureate program. Students are academically and professionally prepared for the process of becoming a New Hampshire Licensed Alcohol and Drug Counselor.

NHTI has transfer affiliations with four-year institutions including: New England College, Plymouth State University, Southern New Hampshire University, Springfield College, and the University of New Hampshire.

Specific Academic Requirements

Candidates may be required to have a personal interview with a department faculty member;

| FIRST YEAR | | | | | |
|--|----|-----|----|--|-----------|
| FALL SEMESTER | CL | LAB | CR | SPRING SEMESTER | CL LAB CR |
| # ADCL 120C Survey of Addictive Behaviors and Treatment | 3 | 0 | 3 | ADCL 205C Fundamentals of Dependency Counseling Skills | 3 0 3 |
| ENGL 120MC Communication: Mindful | 3 | 0 | 3 | # ADCL 235C Physiology and the Pharmacology of Addiction | 3 0 3 |
| # HSV 111C Introduction to Human Service | 3 | 0 | 3 | ENGL 101MC English Composition: Mindful | 4 0 4 |
| # MHTH187C The Helping Relationship: Interpersonal Communication Skills for Today's Professional | 4 | 0 | 4 | # HSV 242C Ethics and the Professional Helper | 3 0 3 |
| PSYC 105C Introduction to Psychology | 3 | 0 | 3 | # PSYC 283C Group Counseling | 3 0 3 |
| | | | 16 | | 16 |
| SECOND YEAR | | | | | |
| FALL SEMESTER | CL | LAB | CR | SPRING SEMESTER | CL LAB CR |
| # ADCL 296C Addiction Practicum I** | 2 | 8 | 4 | # ADCL 297C Addiction Practicum II** | 2 8 4 |
| BIOL 120C Human Biology | 3 | 2 | 4 | ENGL 294MC Communicating Mindfully Capstone1 | 0 1 |
| ENGL 102MC Introduction to Literature: Mindful | 3 | 0 | 3 | MATH 120C Quantitative Reasoning* | 4 0 4 |
| # PSYC 220C Human Growth and Development: The Life Span | 3 | 0 | 3 | # SOCI 250C Conflict Resolution in Modern Society3 | 0 3 12 |
| # PSYC 280C Individual Counseling: Theory and Practice | 3 | 0 | 3 | | |
| | | | 17 | TOTAL CREDITS | 61 |

Indicates major field courses

* Students must complete MATH 120C to graduate. Depending on results of placement testing, students may be required to complete MATH 092C prior to MATH 120C (please note that MATH 092C Introduction to Algebra with a grade of "C" or higher, or the high school equivalent with a grade of "C" or higher, is the prerequisite for MATH 120C).

** In order to enroll in ADCL 296C and ADCL 297C a student must have achieved a Grade of "C" or higher in each Practicum Prerequisite as described above, have an overall GPA of 2.0, plus Permission of the Department Chair of Human Service. In addition, students must achieve a Grade of "C" or higher in ADCL 296C to enroll in ADCL 297C.

Internship Considerations, see page 152. Health, Character and Technical Standards, see page 93.

Sobriety Statement - The Human Service Department abides by the accepted national standard that recommends a minimum of two years of sobriety for any prospective trainee in the field of alcohol and other drug use counseling.

Advanced Human Service Certificate

This certificate provides individuals an opportunity to further explore firsthand the various sectors of the helping professions and get a real sense of the direction they may want to take to advance in their career or in their pursuit of a more advanced credential/degree. As students move through the various certificate courses and pursue completion of this certificate, they will focus their coursework on their academic and career interests in human services, mental health, gerontology, substance use disorder treatment, and/or the specific sector of the helping professions which interests them.

'Stacking' this certification into the Human Service Degree enables NHTI—Concord's Community College to further respond to Student Needs for a credential that can lead to career advancement and degree completion.

Ongoing Employer Demands for educated individuals who are trained to the specific requirements needed to interact with clients and patients in various human service agencies, organizations, and settings.

In addition, 'stacking' this certificate into the Human Service Degree will provide students with a 6 course (19 credit) pathway to achieve not only an educational credential but also the incentive to go on to complete the Human Service Associate Degree (which also includes a Mindful Communications Certificate). Overall, this credential is designed to provide and strengthen a pathway for student persistence, retention, and completion.

Financial Aid is not available for this program at this time.

Admission Requirements

1. Complete the online application or the PDF version for admission to NHTI.
2. Have official transcripts forwarded to NHTI by secondary and postsecondary institutions previously attended.
3. Applicants who have earned a high school equivalency certificate must submit a copy of the certificate, including scores, as well as official transcripts reflecting completed school work and grades prior to leaving school.
4. Candidates required to have a personal interview with the Department Chair, Human Services.
5. See also General Admission Requirements: www.nhti.edu/admissions/general-admission-requirements.

| | | CL | LAB | CR |
|-------------|---|----|-----|-----------|
| # ADCL 120C | Survey of Addictive Behavior and Treatment | 3 | 0 | 3 |
| # PSYC 280C | Individual Counseling: Theory and Practice | 3 | 0 | 3 |
| # PSYC 220C | Human Growth and Development: The Life Span | 3 | 0 | 3 |
| # ADCL 235C | Physiology and Pharmacology of Addiction | 3 | 0 | 3 |
| # HSV 221C | Social and Professional Issues in Today's Society | 3 | 0 | 3 |
| # HSV 195C | Human Service Practicum I* | 2 | 8 | <u>4</u> |
| | TOTAL CREDITS | | | 19 |

Indicates major field courses.

* In order to enroll in HSV 195C a student must have achieved a Grade of "C" or higher in each practicum prerequisite as described above, have an overall GPA of 2.0, plus Permission of the Department Chair of Human Service.

Internship Considerations, see page 152. Health, Character and Technical Standards, see page 93.

Sobriety Statement - The Human Service Department abides by the accepted national standard that recommends a minimum of two years of sobriety for any prospective trainee in the field of alcohol and other drug use counseling.

Criminal Justice

The degree of Associate in Science with a major in Criminal Justice will be awarded upon successful completion of the program.

The Criminal Justice degree is designed to prepare students for careers in police work and corrections, in addition to serving as the basis to transfer on to complete a baccalaureate degree. For those already in service the program provides educational progress for promotion and other career development purposes.

NHTI has transfer affiliations with four-year institutions including: Franklin Pierce University, Granite State College, Husson University, New England College, NH Police Standards & Training Council, Norwich University, Plymouth State University, Rivier College, Saint Anselm College, Southern New Hampshire University, Springfield College, and University of Massachusetts – Lowell, and UNH-Manchester.

This program is offered during the day, evening and online.

For information about transferring to other institutions see Academic Requirements & Policies at <https://www.nhti.edu/academics/>.

FIRST YEAR

| FALL SEMESTER | CL | LAB | CR | SPRING SEMESTER | CL | LAB | CR |
|---|----|-----|----------|---|-----|-----|----------|
| # CRMJ 101C Introduction to the Criminal Justice System | 3 | 0 | 3 | # CRMJ 123C Criminal Law | 4 | 0 | 4 |
| # CRMJ 121C Criminal Procedure | 4 | 0 | 4 | # CRMJ 210C Juvenile Justice Administration | 3 | 0 | 3 |
| ENGL 101C English Composition | 4 | 0 | 4 | ENGL 120C Communications <i>or</i> | | | |
| IST 102C PC Applications | 3 | 0 | 3 | ENGL xxxC English Elective | 3-4 | 0 | 3 |
| PSYC 105C Introduction to Psychology | 3 | 0 | <u>3</u> | PHIL 242C Contemporary Ethical Issues | 3 | 0 | 3 |
| | | | 17 | SOCI 105C Introduction to Sociology | 3 | 0 | <u>3</u> |
| | | | | | | | 16 |

SECOND YEAR

| FALL SEMESTER | CL | LAB | CR | SPRING SEMESTER | CL | LAB | CR |
|------------------------------------|----|-----|----------|---|----|-----|-----------|
| # CRMJ 150C Criminology | 3 | 0 | 3 | BIOL 120C Human Biology | 3 | 2 | 4 |
| # CRMJ 205C Police Operations | 3 | 0 | 3 | # CRMJ 225C Drug Abuse and the Law | 3 | 0 | 3 |
| # CRMJ 215C Corrections Operations | 3 | 0 | 3 | # CRMJ 230C Justice and the Community | 3 | 0 | 3 |
| MATH 120C Quantitative Reasoning* | 4 | 0 | 4 | # CRMJ 270C Criminal Justice Internship** <i>or</i> | 0 | 9 | 3 |
| PSYC 205C Crisis Intervention | 3 | 0 | <u>3</u> | # CRMJ 275C Senior Project** | 3 | 0 | <u>3</u> |
| | | | 16** | | | | 10-13** |
| | | | | TOTAL CREDITS | | | 62 |

Indicates major field courses.

* Students must complete MATH 120C to graduate. Depending on results of placement testing, students may be required to complete MATH 092C prior to MATH 120C (please note that MATH 092C Introduction to Algebra with a grade of “C” or higher, or the high school equivalent with a grade of “C” or higher, is the prerequisite for MATH 120C).

** CRMJ 270C/275C may be taken either Fall or Spring semester of senior year.

Internship Considerations, see page 152. Health, Character and Technical Standards, see page 91.

Health Considerations

Applicants should be aware 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 during the interview with department members prior to admission.

Human Service

The degree of Associate in Science with a major in Human Service is awarded upon successful completion of the program.

The Human Service program prepares students to work effectively and knowledgeably with individuals and systems in need of direct care, assistance and personal support. Students will develop skills and competencies in interviewing, counseling, case management and crisis intervention, and will be able to network clients with needed community resources and services. In addition, the program prepares and serves for the student as a basis to transfer on to complete a baccalaureate degree.

Two practica courses provide students with 250 hours of professional experience in the human service field. Students are involved in the selection of the sites in which to fulfill the desired practica requirements. Each practicum enables students to apply what they have been learning in class to practical, hands-on situations.

The degree offers students opportunities which may lead to employment in human service agencies, youth and group homes, community service councils, health care facilities, hospitals and school systems.

Students may elect to focus their educational direction in the human service, mental health or gerontology field by pursuing two practica that are focused specifically in the chosen area of concentration. The student's placement will be in an approved facility.

NHTI has transfer affiliations with four-year institutions including: Franklin Pierce University, Granite State College - Dual Admission, New England College, Plymouth State University, Rivier College, Southern New Hampshire University, Springfield College, and the University of New Hampshire.

Specific Admission Requirements

1. Candidates may be required to have a personal interview with a department faculty member;
2. Please refer to starred* statement on page 87 regarding mathematics graduation requirement.

FIRST YEAR

| FALL SEMESTER | | CL | LAB | CR | SPRING SEMESTER | | CL | LAB | CR |
|---------------|---|----|-----|----------|-----------------|---------------------------------------|----|-----|----------|
| ENGL 120MC | Communication: Mindful | 3 | 0 | 3 | BIOL 120C | Human Biology | 3 | 2 | 4 |
| # HSV 111C | Introduction to Human Service | 3 | 0 | 3 | ENGL 101MC | English Composition: Mindful | 4 | 0 | 4 |
| # MHTH187C | The Helping Relationship: Interpersonal | | | | # HSV 242C | Ethics and the Professional Helper | 3 | 0 | 3 |
| | Communication Skills for Today's | | | | # PSYC 283C | Group Counseling | 3 | 0 | 3 |
| | Professional | 4 | 0 | 4 | # SOCI 250C | Conflict Resolution in Modern Society | 3 | 0 | <u>3</u> |
| PSYC 105C | Introduction to Psychology | 3 | 0 | <u>3</u> | | | | | 17 |
| | | | | 13 | | | | | |

SECOND YEAR

Human Service Option

| FALL SEMESTER | | | | CL | LAB | CR | SPRING SEMESTER | | | | CL | LAB | CR |
|---------------|--|--|--|----|-----|----------|-----------------|---|--|--|----|-----|----------|
| # ADCL 120C | Survey of Addictive Behavior and Treatment | | | 3 | 0 | 3 | # ADCL 235C | Physiology and Pharmacology of Addiction | | | 3 | 0 | 3 |
| ENGL 102MC | Introduction to Literature: Mindful | | | 3 | 0 | 3 | ENGL 294MC | Communicating Mindfully Capstone1 | | | 0 | | 1 |
| # HSV 195C | Human Service Practicum I | | | 2 | 8 | 4 | # HSV 221C | Social and Professional Issues in Today's Society | | | 3 | 0 | 3 |
| MATH120C | Quantitative Reasoning* | | | 4 | 0 | 4 | # HSV 298C | Human Service Practicum II | | | 2 | 8 | 4 |
| # PSYC 280C | Individual Counseling: Theory and Practice | | | 3 | 0 | <u>3</u> | PSYC 220C | Human Growth and Development: The Life Span | | | 3 | 0 | <u>3</u> |
| | | | | | | 17 | | | | | | | 14 |
| TOTAL CREDITS | | | | | | | | | | | | | 61 |

SECOND YEAR

Mental Health Option

| FALL SEMESTER | CL | LAB | CR | SPRING SEMESTER | CL | LAB | CR |
|--|----|-----|----------|--|----|-----|-----------|
| # ADCL 120C Survey of Addictive Behavior and Treatment | 3 | 0 | 3 | # ADCL 235C Physiology and Pharmacology of Addiction | 3 | 0 | 3 |
| ENGL 102MC Introduction to Literature: Mindful | 3 | 0 | 3 | ENGL 294MC Communicating Mindfully Capstone1 | 1 | 0 | 1 |
| MATH120C Quantitative Reasoning* | 4 | 0 | 4 | # HSV 221C Social and Professional Issues in Today's Society | 3 | 0 | 3 |
| # MHTH195C Mental Health Practicum I | 2 | 8 | 4 | # MHTH298C Mental Health Practicum II | 2 | 8 | 4 |
| # PSYC 280C Individual Counseling: Theory and Practice | 3 | 0 | <u>3</u> | PSYC 220C Human Growth and Development: The Life Span | 3 | 0 | <u>3</u> |
| | | | 17 | | | | 14 |
| | | | | TOTAL CREDITS | | | 61 |

SECOND YEAR

Gerontology Option

| FALL SEMESTER | CL | LAB | CR | SPRING SEMESTER | CL | LAB | CR |
|--|----|-----|----------|--|----|-----|-----------|
| # ADCL 120C Survey of Addictive Behavior and Treatment | 3 | 0 | 3 | # ADCL 235C Physiology and Pharmacology of Addiction | 3 | 0 | 3 |
| ENGL 102MC Introduction to Literature: Mindful | 3 | 0 | 3 | ENGL 294MC Communicating Mindfully Capstone1 | 1 | 0 | 1 |
| # GERN 195C Gerontology Practicum I** | 2 | 8 | 4 | # GERN 298C Gerontology Practicum II** | 2 | 8 | 4 |
| MATH 120C Quantitative Reasoning* | 4 | 0 | 4 | # HSV 221C Social and Professional Issues in Today's Society | 3 | 0 | 3 |
| # PSYC 280C Individual Counseling: Theory and Practice | 3 | 0 | <u>3</u> | PSYC 220C Human Growth and Development: The Life Span | 3 | 0 | <u>3</u> |
| | | | 17 | | | | 14 |
| | | | | TOTAL CREDITS | | | 61 |

Indicates major field courses.

* Students must complete MATH 120C to graduate. Depending on results of placement testing, students may be required to complete MATH 092C prior to MATH 120C (please note that MATH 092C Introduction to Algebra with a grade of "C" or higher, or the high school equivalent with a grade of "C" or higher, is the prerequisite for MATH 120C).

** In order to enroll in HSV 195C and HSV 298C; MHTH 195C and MHTH 298C; GERN 195C and GERN 298C a student must have achieved a Grade of "C" or higher in each practicum prerequisite, have an overall GPA of 2.0, plus permission of the Department Chair of Human Service. In addition, students must achieve a Grade of "C" or higher in: HSV 195C to enroll in HSV 298C; MHTH 195C to enroll in MHTH 298C; GERN 195C to enroll in GERN 298C.

Internship Considerations, see page 152. Health, Character and Technical Standards, see page 93.

Sobriety Statement - The Human Service Department abides by the accepted national standard that recommends a minimum of two years of sobriety for any prospective trainee in the field of alcohol and other drug use counseling.

Human Service Certificate

The Human Service Certificate provides entry level Knowledge, Skills, and Abilities (KSA's) to ensure graduates are prepared to ethically and competently fulfill the duties and responsibilities required for entry-level employment in various sectors of the Helping Professions. This education includes an understanding of and sensitivity to the diverse populations which they will serve.

Students will gain knowledge of human service delivery systems, case management techniques, ethics, and group facilitation skills. Communication skills learned will include conflict resolution and the appropriate interpersonal and social skills to utilize in interactions with diverse populations using principles of equity, justice, and inclusion. Students are provided a strong foundation for a lifetime of engaged employment and participation in the rapidly changing workplace of the Helping Professional. Individuals already employed in entry-level Helping Professional positions will find this certificate useful as a means to upgrade their existing knowledge base in order to advance in their careers.

Potential non-profit and for-profit community-based organizations and agencies where students seek employments include: human services, mental health, gerontology, substance use disorder treatment, social services, child and family services, crisis services, assistance programs, and senior centers. Potential job titles include: case manager, direct support worker, mental health worker, veterans services worker, recovery support worker, behavioral management aid, group home worker, residential counselor, and social worker assistant.

Financial Aid is not available for this program at this time.

Admission Requirements

1. Complete the online application or the PDF version for admission to NHTI.
2. Have official transcripts forwarded to NHTI by secondary and postsecondary institutions previously attended.
3. Applicants who have earned a high school equivalency certificate must submit a copy of the certificate, including scores, as well as official transcripts reflecting completed school work and grades prior to leaving school.
4. Candidates required to have a personal interview with the Department Chair, Human Services.
5. See also General Admission Requirements: <https://www.nhti.edu/admissions/general-admission-requirements>.

| | | CL | LAB | CR |
|----------------------|---|----|-----|-----------|
| # HSV 111C | Introduction to Human Service | 3 | 0 | 3 |
| # MHTH 187C | The Helping Relationship: Interpersonal Communication | | | |
| | Skills for Today's Professional | 4 | 0 | 4 |
| PSYC 105C | Introduction to Psychology | 3 | 0 | 3 |
| # HSV 242C | Ethics and the Professional Helper | 3 | 0 | 3 |
| # PSYC 283C | Group Counseling | 3 | 0 | 3 |
| # SOCI 250C | Conflict Resolution in | | | |
| | Modern Society | 3 | 0 | 3 |
| TOTAL CREDITS | | | | 19 |

Indicates major field courses.

Internship Considerations, see page 152. Character Expectations, see page 93.

Sobriety Statement - The Human Service Department abides by the accepted national standard that recommends a minimum of two years of sobriety for any prospective trainee in the field of alcohol and other drug use counseling.

Paralegal Studies

The degree of Associate in Science with a major in Paralegal Studies will be awarded upon successful completion of the program.

The Associate Degree in Paralegal Studies, approved by the American Bar Association, will prepare students to perform effectively in today's legal and business communities. This program is an expanded version of the Certificate Program. Both programs are approved by the American Bar Association. The degree program trains students for professional status as lawyers' assistants in banks, corporations, government agencies, insurance companies, and law firms. The program provides students with a broad-based academic curriculum, which emphasizes the skills, substantive knowledge and ethics a paralegal need to assist lawyers effectively. Graduates may either enter the work force directly after graduation or continue their education at a four-year institution. The Associate Degree in Paralegal Studies can be completed on a full- or part-time basis. Most major field courses, however, are offered in the evenings at this time. The general education courses are offered during the day, evening and online.

The work of the paralegal requires discretion and independent judgment. A paralegal always works under the supervision and direction of an attorney. Even though a paralegal can perform many of the tasks which have otherwise been performed by attorneys, a paralegal may not give legal advice, represent a client in court or otherwise engage in the practice of law.

NHTI's graduates will be exposed during their course of studies to the legal system and the role of paralegals within the profession, the ethical rules governing lawyers and paralegals, and the operation of a law office. Through the course sequence in the degree program, NHTI's graduates will be:

- able to assist in most aspects of legal research, and in the preparation of clear and concise legal writings, on a topic of their choosing;
- introduced to Lexis/Nexis;
- able to assist in virtually all phases of litigation and real property transactions;
- able to assist in the formation, daily administration and dissolution of a corporate entity;
- able to assist in the planning and administration of a decedent's estate;
- prepared to assist in the drafting of pleadings and in the completion of preliminary research in the area of family law;
- exposed to the various elements of New Hampshire criminal practice and procedure.

For further information contact Department Chair Stacey Peters at (603) 271-6484 x4274 or speters@ccsnh.edu.

Specific Admission Requirements

1. Interview with Department Chair; interviews will be scheduled by the Department Chair once applications are complete.
2. Two confidential letters of reference.
3. Two-hundred-word essay regarding reasons for choosing the Paralegal Program (used to help evaluate writing skills).

Note: Applicants should be aware that all associate degree programs at NHTI require successful completion of at least one semester of college level mathematics. Therefore, the college strongly recommends that all applicants successfully complete high school Algebra I with a grade of "C" or higher prior to admission. Those students whose placement testing does not demonstrate readiness for college level mathematics may require more than two years to complete their degree.

FIRST YEAR

| FALL SEMESTER | CL | LAB | CR | SPRING SEMESTER | CL | LAB | CR |
|---|----|-----|----------|--|-----|-----|----------|
| ENGL 101C English Composition | 4 | 0 | 4 | ACCT 101C Accounting I | 3 | 0 | 3 |
| IST 102C PC Applications | 3 | 0 | 3 | ENGL 120C Communications <i>or</i> | | | |
| # PLGL 106C Introduction to Legal Studies | 3 | 0 | 3 | ENGL xxxC English Elective | 3-4 | 0 | 3-4 |
| # PLGL 107C Contracts and Torts | 3 | 0 | 3 | MATH 124C College Algebra | 4 | 0 | 4 |
| PSYC 105C Introduction to Psychology | 3 | 0 | <u>3</u> | # PLGL 110C Litigation and Trial Preparation | 3 | 0 | 3 |
| | | | 16 | # PLGL 225C Legal Research and Writing+ | 3 | 2 | <u>4</u> |
| | | | | | | | 17-18 |

SECOND YEAR

| FALL SEMESTER | CL | LAB | CR | SPRING SEMESTER | CL | LAB | CR |
|---|----|-----|----------|---|----|-----|----------|
| ACCT 102C Accounting II | 3 | 0 | 3 | FL xxxC Foreign Language <i>or</i> | 3 | 0-2 | 3-4 |
| PHIL 242C Contemporary Ethical Issues | 3 | 0 | 3 | XX xxxC General Education Elective | 3 | 0 | 3 |
| # PLGL 221C Real Estate | 3 | 0 | 3 | # PLGL 231C Business Organizations & Bankruptcy | 3 | 0 | 3 |
| # PLGL 251C Probate Estates and Trusts | 3 | 0 | 3 | # PLGL 242C Domestic Relations Law | 3 | 0 | 3 |
| # PLGL 262C Criminal Law and Procedures | 3 | 0 | <u>3</u> | # PLGL 270C Internship/Seminar | 0 | 9 | 3 |
| | | | 15 | XX xxxC Lab Science Elective* | 3 | 2 | 4 |
| | | | | XX xxxC Social Science Elective** | 3 | 0 | <u>3</u> |
| | | | | | | | 19-20 |

TOTAL CREDITS

67-69

Indicates major field courses.

* BIOL 100C, CHEM 100C and PHYS 100C do not meet this requirement.

- ** Any course with a prefix of ANTH, ECON, HIST, POLS, PSYC or SOCI (except HIST 104C and HIST 105C).
- + A \$100 fee will be assessed for all students taking PLGL 225C. This fee will cover costs associated with ABA dues, Lexis/Nexis, and UNH Franklin Pierce School of Law Library.

Internship Considerations, see page 152. Health, Technical and Character Standards, see page 91.

Paralegal Studies Certificate

This certificate program is approved by the American Bar Association and is designed to prepare students to perform effectively in today's legal and business communities. The program trains men and women for professional status as lawyer's assistants in corporations, banks, insurance companies, government agencies and law firms. The program provides students with a broad-based academic curriculum which emphasizes the skills, substantive knowledge and ethics a paralegal need to assist lawyers effectively.

The work of the paralegal requires discretion and independent judgment. It is essential that a paralegal have strong writing ability, an analytical approach to organizing and reviewing material, and a foundation in computers and word processing. Although a paralegal always works under the supervision and direction of an attorney, it is important that he or she be well-motivated and self-starting. While a paralegal can perform many of the tasks which have otherwise been performed by attorneys, a paralegal may not give legal advice, represent a client in court, or otherwise engage in the practice of law. For more information contact Stacey Peters at (603) 271-6484 x4274 or speters@ccsnh.edu. This program is available evenings only.

This program is financial aid eligible. To be eligible for federal financial aid, students must submit an official, final high school transcript to the NHTI Admissions Office.

NHTI's graduates will be exposed during their course of studies to the legal system and the role of paralegals within the profession, the ethical rules governing lawyers and paralegals, and the operation of a law office. Through the course sequence in the certificate program, NHTI's graduates will be:

- able to assist in most aspects of legal research, and in the preparation of clear and concise legal writings, on a topic of their choosing;
- introduced to Lexis/Nexis;
- able to assist in virtually all phases of litigation and real property transactions;
- able to assist in the formation, daily administration and dissolution of a corporate entity;
- able to assist in the planning and administration of a decedent's estate;
- prepared to assist in the drafting of pleadings and in the completion of preliminary research in the area of family law;
- exposed to the various elements of New Hampshire criminal practice and procedure.

Specific Admission Requirements

1. 45 college credits in general education courses from an accredited institution (consistent with the requirements of the American Bar Association, which approves this Certificate).
 - 18 of these credits must meet distribution and content requirements designated by the ABA, in at least three (3) different disciplines such as English, foreign languages, humanities, mathematics and natural science.
2. Two confidential letters of reference.
3. Two-hundred-word essay regarding reasons for choosing the Paralegal Program (used to help evaluate writing skills).
4. Submit official high school and college transcripts.

| | CL | LAB | CR |
|--|----|-----|--------------|
| PLGL 101C Foundations of Paralegal Studies | 2 | 0 | 2 |
| PLGL 103C Causes of Action in Contract and Tort | 2 | 0 | 2 |
| PLGL 104C Legal Research+ | 3 | 0 | 3 |
| PLGL 110C Litigation and Trial Preparation | 3 | 0 | 3 |
| PLGL 221C Real Estate | 3 | 0 | 3 |
| PLGL 231C Business Organizations and Bankruptcy | 3 | 0 | 3 |
| PLGL 241C Family Law | 1 | 0 | 1 |
| PLGL 251C Probate Estates and Trusts | 3 | 0 | 3 |
| PLGL 261C Criminal Process | 1 | 0 | 1 |
| PLGL 270C Internship (Optional) | 0 | 9 | 3 |
| PLGL 271C Legal Writing | 1 | 0 | 1 |
| TOTAL CREDITS | | | 22-25 |

- + A \$100 fee will be assessed for all students taking PLGL 104C. This fee will cover costs associated with ABA dues, Lexis/Nexis, and UNH Franklin Pierce School of Law Library.

Internship Considerations, see page 152. Health, Technical and Character Standards, see page 91.

Character Expectations for the Criminal Justice and Paralegal Studies Degree and related Certificate Programs

Applicants should be aware that background checks are completed by potential employers prior to obtaining any position with arrest or detention powers, and typically, even before being accepted for an internship. Applicants who have been in difficulty with the law may not be employable, or even eligible for an internship. Because future goals may be compromised, applicants are advised to discuss any concerns with the Department Chair.

Substance Use Disorder Treatment (SUD Tx) Certificate

This six course, 19 credit Substance Use Disorder Treatment (SUD Tx) certificate can be completed in one year, two semesters. It provides graduates the Knowledge, Skills, and Abilities to ensure they are prepared to ethically and competently fulfill the duties and responsibilities required for entry-level employment in various sectors of the SUD Tx profession.

- This education also includes (1) an understanding of and sensitivity to the diverse populations which they will serve and (2) helps students develop a strong foundation for a lifetime of engaged employment and participation in a profession which urgently needs qualified and trained employable individuals.
- To enhance employability after completing this certificate, graduates have the option of matriculating in the Addiction Counseling (ADCL) Associate Degree which includes field/practicum experience.

This certificate provides students with the essential employability qualities and attributes intended to prepare them to make important contributions to their workplaces.

- | | |
|--------------------------------|--------------------------------|
| • communicators | • adaptable |
| • thinkers and problem solvers | • principled and ethical |
| • inquirers | • responsible and professional |
| • collaborators | • learners |

Financial Aid is not available for this program at this time.

Admission Requirements

1. Complete the online application or the PDF version for admission to NHTI.
2. Have official transcripts forwarded to NHTI by secondary and postsecondary institutions previously attended.
3. Applicants who have earned a high school equivalency certificate must submit a copy of the certificate, including scores, as well as official transcripts reflecting completed school work and grades prior to leaving school.
4. Candidates required to have a personal interview with the Addiction Counseling Program Coordinator.
5. See also General Admission Requirements: www.nhti.edu/admissions/general-admission-requirements.

| FALL SEMESTER | | CL | LAB | CR |
|----------------------|--|-----------|-----|----------|
| ADCL 120C | Survey of Addictive Behavior and Treatment <i>or</i> | 3 | 0 | 3 |
| ADCL 230C | The Four Domains of the Certified Recovery Support Worker (CRSW) | 3 | 0 | 3 |
| HSV 111C | Introduction to Human Services | 3 | 0 | 3 |
| PSYC 105C | Introduction to Psychology | 3 | 0 | <u>3</u> |
| | | | | 9 |
| SPRING SEMESTER | | CL | LAB | CR |
| ADCL 120C | Survey of Addictive Behavior and Treatment <i>or</i> | 3 | 0 | 3 |
| ADCL 230C | The Four Domains of the Certified Recovery Support Worker (CRSW) | 3 | 0 | 3 |
| MHTH 187C | The Helping Relationship | 4 | 0 | 4 |
| PSYC 220C | Human Growth and Development | 3 | 0 | <u>3</u> |
| | | | | 10 |
| TOTAL CREDITS | | 19 | | |

Indicates major field courses.

Internship Considerations, see page 152. Health, Technical and Character Standards, see page 93.

Sobriety Statement - The Human Service Department abides by the accepted national standard that recommends a minimum of two years of sobriety for any prospective trainee in the field of alcohol and other drug use counseling.

Character Expectations

Human Service and Addiction Counseling students work closely with individuals of all ages in the field. Many of the practicum sites and potential employers will perform a background check through the New Hampshire Department of Safety as well as police and potential FBI checks. A student's driving record will also be examined and considered prior to acceptance of some practicum and employment opportunities. The student may be called upon to pay for the previously mentioned background checks, etc.

Applicants who have been in difficulty with the law, depending upon the nature of the problem, may not be employable or even eligible for practica. Applicants need to discuss these issues in an interview or meeting, so that future goals will not be compromised.

Health Considerations

All Human Service majors will receive NHTI Health forms following acceptance. These forms must be completed, along with requested health physical exam and TB testing, prior to the start of classes. Each student is required to obtain NHTI Liability Insurance, starting in each academic year. The students will be billed directly. Students are also eligible to purchase Health Insurance through NHTI for their own health needs.

Technical Standards

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 their individual issues. 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.

Education Programs

Career and Technical Education Alternative Certification

This program is designed to offer students the knowledge and skills required by the New Hampshire Department of Education standards for career and technical educator certification. This program has been developed using the New Hampshire competencies required for Ed 610.02 Professional Education and Ed 507.02 Teachers of Career and Technical Education. The program is designed to allow students to use program credits toward an Associate of Science in Education Degree and/or toward a bachelor's degree.

Students accepted into this program may provide evidence that they may be eligible to receive credit for courses via aggregate educational experience and/or occupational experiences. In such cases students may be eligible to earn credit by examination or transfer credit, according to the policies and procedures of the college.

Students eligible for this program may be:

- those with a high school diploma or equivalent and significant work/life experience who would like to earn a credential to teach or a credential to teach and college credits toward Associate or Baccalaureate Degree completion;
- those with some college courses or an Associate Degree and significant work/life experience who would like to earn a credential to teach or a credential to teach and college credits toward Associate or Baccalaureate Degree completion;
- those with a Bachelor's Degree (but no certification) and significant work/life experience who would like to earn a credential to teach or a credential to teach and possible graduate credits toward Master's Degree completion.

In all cases, prospective career and technical educators will possess significant life/work experience or academic preparation in a career and technical content area. The Career and Technical Center Directors and School Districts will retain the authority to review the eligibility of all prospective career and technical educators and define any or all of the certificate component courses to be required for credentialing, on an individual basis. These individuals will then be referred to NHTI for course registration and completion. For more information, contact Department Chair Kelly Moore Dunn at (603) 271-6484 x4163. **This program is financial aid eligible.** To be eligible for federal financial aid, students must submit an official, final high school transcript, or the equivalent documentation that demonstrates high school completion, to the NHTI Admissions Office.

| | | CL | LAB | CR |
|------|--|----|-----|-----------|
| EDU | 101C Introduction to Exceptionalities | 3 | 0 | 3 |
| EDU | 104C Foundations of Education | 3 | 0 | 3 |
| EDU | 204C Instructional Technology | 3 | 0 | 3 |
| EDU | 209C Curriculum and Assessment | 4 | 0 | 4 |
| EDU | 220C Field Experience in Education | 1 | 5 | 3 |
| EDU | 230C Essentials of Career and Technical Curriculum and Instruction | 3 | 0 | 3 |
| ENGL | 101C English Composition | 4 | 0 | 4 |
| PSYC | 220C Human Growth and Development: The Life Span | 3 | 0 | <u>3</u> |
| | TOTAL CREDITS | | | 26 |

Early Care and Education for Young Children with Disabilities

The degree of Associate in Science with a major in Early Care and Education for Young Children with Disabilities will be awarded upon successful completion of the program.

This program prepares students to begin working in the growing field of early intervention and early childhood special education (birth – 8 years). This degree responds to the increased diagnosis of young children with Autism Spectrum Disorders (ASD) and the need for qualified professionals to implement one to one instruction and therapeutic programs in various settings. This EYCD degree builds on the Autism Early Intervention Support Certificate so that graduates will be able to help improve educational outcomes for young children with other special educational needs, developmental delays, or low-incidence disabilities through additional courses and practicum experiences with children aged birth to three years and children aged three to five years.

All first year early childhood (EC) courses require a one-and-a-half-hour weekly lab component where students will actively engage with young children and their families to make connections between theory and practice, to carry out class assignments, and to learn through observation and play. (Please see individual course descriptions for second year ECE courses to see the child/family/program participation requirements for each course.) Faculty encourage students to complete their degree in a time frame that allows them to be most successful. For typical day students who are also working part-time, 5 or 6 semesters often works best. Evening or online students working full time can typically plan on a longer time frame.

The vision of the Child and Family Studies Department at NHTI is “Teaching, Learning, and Practice with Quality and Joy!” The faculty of the program view teaching as both an emotional and intellectual process. They aim to develop within students the ability to be curious observers of children and to be reflective educators who develop knowledge through interactive, play-based learning. Students will learn to value the family as the first and most important teacher of the child and will learn to provide family-centered services that are relationship based, evidence based, culturally responsive and delivered collaboratively as part of a team in natural environments. A focus of the program will be to enhance children’s communication and social/emotional development by helping them to identify and express their own thoughts and feelings in order to develop meaningful relationships with adults and other children.

Graduates are prepared for immediate entry as competent professionals to work in a variety of early childhood settings including Family Centered Early Supports and Services or other early intervention teams, public schools, licensed child care centers, Early Head Start, Head Start, as well as home-based, community-based, or private settings. Some roles in these settings could include intake coordinator, *autism educational assistant, *home visitor, lead teacher in childcare, or *1-1 support aide/paraprofessional. Students wishing to pursue other opportunities in early intervention or early childhood special education may further their education at a four-year college/university. The degree also meets the training and education requirements for the State of NH Early Childhood Professional Development System credential of NH Early Childhood Teacher, Level 5. (Refer to the Early Childhood Professional Development System Guide for other criteria for this level.) The degree is offered both face-to-face and online.

* Actual job titles may vary depending on job position and placement.

Program Requirements

All students working towards an Associate in Science with a major in Early Care and Education for Young Children with Disabilities will be expected to have flexible weekly schedules during both the 105-hour Early Intervention Practicum and 105-hour Preschool Special Education Practicum. Students, along with the assigned practicum supervisor at these sites, will determine what the hours per week and daily schedule will be. This schedule may vary from week to week. It is not recommended to be working full time during practicum to account for this flexibility in scheduling. Please note: there are no evening, weekend, or summer practicum hours.

EYCD Day Students:

1. Lab Hours - All day students will spend designated hours each week with infants, toddlers, or preschoolers at the Child and Family Development Center (CFDC) campus lab school while taking early childhood classes. These hours will be considered a component of class participation and additional lab use fee applies. The practicum site may act as the lab for ECE classes taken concurrently with practicum.
2. Applicants are advised that the New Hampshire Bureau of Child Care Licensing requires certain paperwork to be on file for employees and others who regularly work in child care centers. Upon acceptance into the program, students must complete this paperwork before they participate with the children at the CFDC. This paperwork includes:
 - a complete set of electronic fingerprints completed by the Department of Safety;
 - submission of a criminal record check; the background check must come back as clear or non-disqualifying; please note that the cost associated with completion of the fingerprinting and criminal record check is the responsibility of the student;
 - completion of the licensing Child Care Personnel Health Form by a licensed health provider indicating that the student is in good physical health and has no mental or emotional disturbances that would prohibit him/her from caring for children in a group setting;
 - signed CFDC confidentiality form;
 - signed Health, Character, and Technical Standards form; and
 - related CFDC lab paperwork.
3. Day students must have their own transportation to and from NHTI approved practicum sites in their senior year.

4. Students must have a flexible schedule that allows them to spend weekday mornings and/or afternoons at their practicum site while taking classes. There are no evening or weekend practicum placements. Students should be prepared to plan any work hours around their course schedule (including child care lab and practicum hours) knowing that these hours will change each semester.
5. All students must have access to a digital camera and video-capturing device to complete homework assignments.
6. All students must have access to Microsoft Office Student or higher.

EYCD Evening Students Working Full-time in Child Care:

1. Lab Hours – Evening students who are working full-time in a licensed child care facility may use their workplace for their child care lab hours during the semesters prior to practica and additional CFDC lab video viewing fee applies. All evening students fulfilling the two semesters of practica will need to adjust their work schedule to account for the aforementioned flexibility.
2. Applicants are advised that the New Hampshire Bureau of Child Care Licensing requires certain paperwork to be on file at centers for employees and others who regularly work in child care centers. Upon acceptance into the program, evening students working full time in child care will be sent paperwork to complete and return to the Department Chair before starting classes. The paperwork must be completed by the end of the first week of classes and will include the following:
 - signed confidentiality form;
 - signed Health, Character, and Technical Standards form;
 - a checklist completed by the director of the child care program indicating that the student is a full-time employee of the facility, will be allowed to carry out class assignments in the program, will provide record-keeping and conduct video-taping as required by the program, has completed fingerprinting and has a clear or non-disqualifying criminal background check, and has a completed Child Care Personnel Health Form indicating that the student is in good physical health and has no mental or emotional disturbances that would prohibit him/her from caring for children in a group setting on file at the program; and
 - copies of signed NHTI photo/video releases from parents/guardians in the classroom where the student will complete assignments.
3. All students must have access to a digital camera and video-capturing device to complete homework assignments.
4. All students must have access to Microsoft Office Student or higher.

EYCD Evening Students Not Working in Child Care:

Please see the requirements listed under Day Students. These apply to evening students not working in child care.

Late afternoon or early morning Lab Hours can be scheduled at the CFDC to help accommodate work schedules. Please be advised that when taking practicum, 7 - 8 hours each week (at a minimum) must be planned for the fall and spring semesters at the two different practicum sites. These hours must be when children are actively engaged in the curriculum of the day or when families are available for home visits and must happen over the course of at least two different days each week. Evening students who are working full-time in a job outside of the field will need to have this flexibility with hours.

Specific Admission Requirements, see page 103.

Internship Considerations, see page 152. *Health, Character and Technical Standards*, see page 103.

Early Childhood Education Scholarship Program, see page 104.

FIRST YEAR ¥

| FALL SEMESTER | | | CL | LAB | CR | ASL | 104C American Sign Language for | | | | | |
|---------------|------|--|----|-----|----------|-------|---------------------------------|--|---|---|----------|----|
| # ECE | 101C | Growth and Development of the Young Child* ^ | 3 | 0 | 3 | # ECE | 143C | Teaching and Learning STEAM^ | 3 | 0 | 3 | |
| # ECE | 155C | Using Children's Literature to Support Young Children's Language and Literacy Development^ | 3 | 0 | 3 | # ECE | 167C | Positive Behavior Guidance and Supporting Young Children with Challenging Behaviors^ | 3 | 0 | 3 | |
| ENGL | 101C | English Composition | 4 | 0 | 4 | # ECE | 270C | Teaching Young Children with Exceptionalities | 3 | 0 | 3 | |
| MATH | 120C | Quantitative Reasoning | 4 | 0 | <u>4</u> | PSYC | 105C | Introduction to Psychology | 3 | 0 | <u>3</u> | |
| | | | | | 14 | | | | | | | 15 |

SPRING SEMESTER

CL LAB CR

SECOND YEAR

| FALL SEMESTER | | | CL | LAB | CR | | SPRING SEMESTER | | | CL | LAB | CR |
|----------------------|------------|---|-----------|------------|-----------|--|------------------------|------|---|-----------|------------|-----------|
| # ECE | 225C | Autism Spectrum Disorder | 3 | 0 | 3 | | # ECE | 215C | Infant/Toddler Development and Programming^ | 3 | 0 | 3 |
| # ECE | 282C | Preschool Special Education Practicum | 2 | 7 | 4 | | # ECE | 242C | Child, Family and Community | 3 | 0 | 3 |
| | ENGL 120MC | Communication: Mindful or | | | | | # ECE | 283C | Early Intervention Practicum * | 2 | 7 | 4 |
| | ENGL xxxC | Literature Elective | 3 | 0 | 3 | | # ECE | 290C | Early Childhood Leadership Seminar | 1 | 0 | 1 |
| XX | xxxC | General Elective (EDU 201C or EDU 204C suggested) | 3 | 0 | 3 | | XX | xxxC | Lab Science Elective+ | 4 | 0 | <u>4</u> |
| XX | xxxC | Social Science Elective ++ | 3 | 0 | <u>3</u> | | | | | | | 15 |
| | | | | | 16 | | TOTAL CREDITS | | | | | 60 |

Indicates major field courses.

¥ Students whose placement test scores suggest difficulty with lengthy and complex assignments are strongly advised to complete the program in 3 or more years.

+ BIOL 100C, CHEM 100C, and PHYS 100C do not meet this requirement.

++ Any course with a prefix of ANTH, ECON, HIST, POLS, PSYC or SOCI (except HIST 104C and HIST 105C).

* **NOTE:** The two practica for this degree can be offered in both the fall and spring semesters. Course sequence will change depending on the semester in which students take each practicum. Students will work closely with their advisor to assure appropriate course sequence for each practicum.

^ All students taking the following courses ECE 101C, ECE 143C, ECE 155C, ECE 167C and ECE 215C will be charged a \$25 Child and Family Development Center Lab fee for each class.

NH Family-Centered Early Supports and Services Tuition Assistance

Funds are now available for BOTH employees of NH Family Centered Early Supports and Services (FCESS), and parents/legal guardians of children receiving services through FCESS. The Community College System of NH is partnering with the Department of Health and Human Services, Bureau of Developmental Services to provide financial assistance to increase their skills.

Specific Admission Requirements, see page 103.

Internship Considerations, see page 152. *Health, Character and Technical Standards*, see page 103.

Early Childhood Education Scholarship Program, see page 104.

Early Childhood Education

The degree of Associate in Science with a major in Early Childhood Education will be awarded upon successful completion of the program.

The vision of the Child and Family Studies (CFS) Department at NHTI is “Teaching, Learning, and Practice with Quality and Joy!” The faculty of the CFS department view teaching as both an emotional and intellectual process. They aim to develop within students the ability to be curious observers of children and to be thoughtful educators who develop knowledge with children through interactive learning and play.

Faculty value intellectual challenge as a key component in developing teachers who will combine research and experience to discover answers to their questions about how children learn. Students are encouraged to share their theories about childhood through discussion, writing, projects, and use of technology. The family is valued as the first and most important teacher, and students practice forming strong relationships with families in order to support the child. The Early Childhood Education curriculum has been developed to support these beliefs. The curriculum also follows the standards in the Guidelines for Early Childhood Education Programs in Associate Degree Granting Institutions as set forth by the National Association for the Education of Young Children.

The degree meets the training and education requirements for the State of NH Early Childhood Teacher Credential Level 5. (Refer to the Early Childhood Professional Development System Guide for other criteria for this level.) Graduates are prepared for immediate entry as competent professionals into the field of early childhood education as teachers in NH licensed child care centers, Head Start programs, nursery schools, family child care programs, and as paraeducators in elementary schools. Graduates may also decide to further their education at four year colleges.

All early childhood (ECE) courses except ECE 290 require a weekly child care lab component where students will actively engage with young children to make connections between theory and practice, to carry out class assignments, and to learn through observation and play. Students taking concurrent courses can use the same lab time for all courses. Students in practicum may use their practicum site as their lab hours for other courses taken concurrently with practicum. Faculty encourage students to complete their degree in a time frame that allows them to be most successful.

Program Requirements

Day Students:

1. Lab Hours - All day students will spend designated hours each week with infants, toddlers, preschoolers or kindergarteners at the Child and Family Development Center (CFDC) campus lab school while taking early childhood classes. These hours will be considered a component of class participation and additional lab use fee applies. The practicum site may act as the lab for ECE classes taken concurrently with practicum.
2. Applicants are advised that the New Hampshire Bureau of Child Care Licensing requires certain paperwork to be on file for employees and others who regularly work in child care centers. Upon acceptance into the program, students must complete this paperwork before they participate with the children at the CFDC. This paperwork includes:
 - a complete set of electronic fingerprints completed by the Department of Safety;
 - submission of a criminal record check; the background check must come back as clear or non-disqualifying; please note that the cost associated with completion of the fingerprinting and criminal record check is the responsibility of the student;
 - completion of the licensing Child Care Personnel Health Form by a licensed health provider indicating that the student is in good physical health and has no mental or emotional disturbances that would prohibit him/her from caring for children in a group setting;
 - signed CFDC confidentiality form;
 - signed Health, Character, and Technical Standards form; and
 - related CFDC lab paperwork.
3. Day students must have their own transportation to and from NHTI approved practicum sites in their senior year. (Students living on campus without transportation may complete their practicum at the CFDC.)
4. Students must have a flexible schedule that allows them to spend weekday mornings and/or afternoons at their practicum site while taking classes. There are no evening or weekend practicum placements. Students should be prepared to plan any work hours around their course schedule (including child care lab and practicum hours) knowing that these hours will change each semester.
5. All students must have access to a digital camera and video-capturing device to complete homework assignments.
6. All students must have access to Microsoft Office Student or higher.

Evening Students Working Full-time in Child Care:

1. Lab Hours - Evening students who are working full-time in a licensed child care facility may use their workplace for their lab hours and additional CFDC lab video viewing fee applies. Students must be able to complete their school responsibilities during their work hours.
2. Applicants are advised that the New Hampshire Bureau of Child Care Licensing requires certain paperwork to be on file at centers for employees and others who regularly work in child care centers. Upon acceptance into the program, evening students working full time in child care will be sent paperwork to complete and return to the Department Chair before starting classes. The paperwork must be completed by the end of the first week of classes and will include the following:
 - signed confidentiality form;
 - signed Health, Character, and Technical Standards form;
 - a checklist completed by the director of the child care program indicating that the student is a full-time employee of the facility, will be allowed to carry out class assignments in the program, will provide record-keeping and conduct video-taping as required by the program, has completed fingerprinting and has a clear or non-disqualifying criminal background check, and has a completed Child

Care Personnel Health Form indicating that the student is in good physical health and has no mental or emotional disturbances that would prohibit him/her from caring for children in a group setting on file at the program; and

- copies of signed NHTI photo/video releases from parents/guardians in the classroom where the student will complete assignments.
3. Students always learn more when they complete their practicum in a site different from their workplace. If this is impossible, evening students who work full time in child care may request in writing to do their practicum at their workplace. All related paperwork must be completed to begin this process.
 4. All students must have access to a digital camera and video-capturing device to complete homework assignments.
 5. All students must have access to Microsoft Office Student or higher.

Evening Students **Not** Working in Child Care:

Please see the requirements listed under Day Students.

Late afternoon or early morning Lab Hours can be scheduled at the CFDC to help accommodate work schedules. Please be advised that when taking practicum, 8 hours each week (at a minimum) must be planned for the fall and spring semesters. These hours must be when children are actively engaged in the curriculum of the day and must happen over the course of at least two different days each week. Evening students who are working full-time in a job outside of the field will need to have this flexibility with hours.

Non-matriculated Students

Non-matriculated students taking early childhood classes must complete all appropriate paperwork. Students not working in child care must follow steps 2-6 under the Day Students section above. Students who are working in child care must follow the guidelines listed under Evening Students Working Full-time in Child Care.

Online Early Childhood Students:

Lab Hours – 100% online students living in the Concord, NH area may carry out lab hours at the CFDC. Please follow guidelines 2-6 under Day Students as well. 100% online students must have access to a digital camera and a video-capturing device to complete homework assignments.

100% online students working full time in child care should follow the guidelines under Evening Students Working Full-Time in Child Care.

100% online students not working full time in child care and living at a distance from the NHTI campus which prohibits coming to the CFDC will need to find a child care setting in which to carry out lab hours and practicum. The child care center must be licensed (preferably NAEYC accredited) and have been in operation for at least 3 years. Then follow guidelines 2–5 under Evening Students Working Full-Time in Child Care (excluding the full-time status if not applicable).

Out-of-state students who are taking classes 100% online will need to complete their state’s fingerprinting and background check, complete their state’s child health care form, and complete any other paperwork that is required by child care licensing in their state.

The CFS department cannot award a degree unless faculty have seen you working effectively with young children in practicum. Thus, 100% online students will be video-taping themselves in action with young children during practicum to share with their practicum teachers online.

Please check out the online learning information at the NHTI website to see if you are a good candidate for an online class.

FIRST YEAR ¥

| FALL SEMESTER | | | | SPRING SEMESTER | | | |
|---------------|--|----|--------|-----------------|---|----|--------|
| | | CL | LAB CR | | | CL | LAB CR |
| # ECE | 101C Growth and Development of the Young Child* ^ | 3 | 0 3 | # ECE | 143C Teaching and Learning - STEAM^ | 3 | 0 3 |
| # ECE | 188C Health, Safety and Nutrition in Early Childhood Education ^ | 3 | 0 3 | # ECE | 167C Positive Behavior Guidance and Supporting Young Children with Challenging Behaviors^ | 3 | 0 3 |
| ENGL | 101C English Composition | 4 | 0 4 | # ECE | 215C Infant/Toddler Development and Programming^ | 3 | 0 3 |
| MATH | 120C Quantitative Reasoning | 4 | 0 4 | ENGL | 120MC Communication: Mindful or | 3 | 0 3 |
| | | | 14 | ENGL | xxxC English Literature Elective | 3 | 0 3 |
| | | | | PSYC | 105C Introduction to Psychology | 3 | 0 3 |
| | | | | | | | 15 |

SECOND YEAR

| FALL SEMESTER | | | | | CL | LAB | CR | SPRING SEMESTER | | | | | CL | LAB | CR | | |
|---------------|------|---|--|--|----|-----|----------|-----------------|------|------------------|------------------------------------|---|----|-----|----------|---|----|
| # | ECE | 155C | Using Children's Literature to Support Young Children's Language and Literacy Development^ | | | 3 | 0 | 3 | # | ECE | 242C | Child, Family and Community | | | 3 | 0 | 3 |
| | | | | | | | | | # | ECE | 270C | Teaching Young Children with Exceptionalities | | | 3 | 0 | 3 |
| # | ECE | 275C | Practicum 1 - Observation, Interpretation, Assessment and Portfolio Documentation | | | 2 | 7 | 4 | # | ECE | 276C | Practicum 2 - Exploring Teaching: Implementing Responsive Emergent Curriculum | | | 2 | 7 | 4 |
| XX | xxxC | Humanities/Fine Arts/ Foreign Language Elective | | | 3 | 0 | 3 | # | ECE | 290C | Early Childhood Leadership Seminar | | | 1 | 0 | 1 | |
| XX | xxxC | Lab Science Elective+ | | | 3 | 2 | 4 | XX | xxxC | General Elective | | | 3 | 0 | <u>3</u> | | |
| XX | xxxC | Social Science Elective++ | | | 3 | 0 | <u>3</u> | TOTAL CREDITS | | | | | | | | | 60 |
| 17 | | | | | | | | | | | | | | | | | |

Indicates major field courses.

¥ Students whose placement test scores suggest difficulty with lengthy and complex assignments are strongly advised to complete the program in 3 or more years.

+ BIOL 100C, CHEM 100C, and PHYS 100C do not meet this requirement.

++ Any course with a prefix of ANTH, ECON, HIST, POLS, PSYC or SOCI (except HIST 104C and HIST 105C).

[^] All students taking the following courses ECE 101C, ECE 143C, ECE 155C, ECE 167C, ECE 188C and ECE 215C will be charged a **\$25** Child and Family Development Center Lab fee for each class.

Specific Admission Requirements, see page 103.

Internship Considerations, see page 152. *Health, Character and Technical Standards*, see page 103.

Early Childhood Education Scholarship Program, see page 104.

Early Childhood Education Certificate

People take early childhood certificate courses for a variety of reasons. Most often it is career or work related to meet different job requirements as outlined in New Hampshire's Child Care Program Licensing Rules. Sometimes these courses are also of interest to parents or students in related fields. While students may be non-matriculated and still take early childhood courses, only matriculated students are eligible for federal financial aid. To matriculate, please see Specific Admissions Requirements below.

The courses in the Early Childhood Education Certificate meet the training and education requirements for the State of NH Early Childhood Teacher Credential Level 4. (Refer to the Early Childhood Professional Development System Guide for other criteria for this level.) The Early Childhood Education Certificate program is available days, evenings, and online **and is financial aid eligible**. For more information, contact Diana Menard, Department Chair of Child and Family Studies, at (603) 271-6484 x4281 or dmenard@ccsnh.edu.

| FALL SEMESTER | CL | LAB | CR | SPRING SEMESTER | CL | LAB | CR |
|---|----|-----|----------|---|----|-----|-----------|
| ECE 101C Growth and Development of the Young Child^ | 3 | 0 | 3 | ECE 143C Teaching and Learning STEAM^ | 3 | 0 | 3 |
| ECE 155C Using Children's Literature to Support Young Children's Language and Literacy Development^ | 3 | 0 | 3 | ECE 167C Positive Behavior Guidance and Supporting Young Children with Challenging Behaviors^ | 3 | 0 | 3 |
| ECE 188C Health, Safety and Nutrition in Early Childhood Education^ | 3 | 0 | <u>3</u> | ECE 242C Child, Family and Community | 3 | 0 | <u>3</u> |
| | | | 9 | TOTAL CREDITS | | | 18 |

^ All students taking the following courses ECE 101C, ECE 143C, ECE 155C, ECE 167C and ECE 188C will be charged a **\$25** Child and Family Development Center Lab fee for each class.

Day and evening students not currently working in child care will spend one and a half hours each week working with infants, toddlers, or preschoolers at the NHTI campus child care center, the Child and Family Development Center (CFDC) while taking early childhood classes. These hours will be considered a component of class participation and additional lab use fee applies. Applicants are advised that the New Hampshire Bureau of Child Care Licensing requires certain paperwork to be on file at centers for employees and others who regularly work in child care centers. Students must complete this paperwork before they participate with the children at the CFDC. This paperwork may include:

- a complete set of electronic fingerprints completed by the Department of Safety;
- submission of a criminal record check; the background check must come back as clear or non-disqualifying; please note that the cost associated with completion of the fingerprinting and criminal record check is the responsibility of the student;
- completion of the licensing Child Care Personnel Health Form by a licensed health provider indicating that the student is in good physical health and has no mental or emotional disturbances that would prohibit him/her from caring for children in a group setting;
- Signed CFDC confidentiality form;
- Signed Health, Character, and Technical Standards form; and
- Related CFDC lab paperwork.

Students who work full time in child care may use their own workplace instead of the CFDC to carry out homework assignments with children. Completion of all related paperwork at the worksite will be verified.

100% online students not working in child care must connect with a licensed child care center (preferably NAEYC accredited and in operation for at least 3 years) to carry out their homework assignments with children. All related paperwork must be completed.

All students must have access to a digital camera and video-capturing device to complete homework assignments. All students must have access to Microsoft Office Student or higher.

After completing the certificate, students may continue on to the degree program.

Specific Admission Requirements, see page 103.

Internship Considerations, see page 152. *Health, Character and Technical Standards*, see page 103.

Early Childhood Education Scholarship Program, see page 104.

Early Childhood Education Advanced Certificate

Some students decide to begin their program of studies with the Early Childhood Education Advanced Certificate Program. It offers more early childhood courses than the basic certificate as well as a supervised practicum experience. Students must be matriculated students in order to participate in the practicum. To matriculate, please see Specific Admissions Requirements below. Upon completion of the Advanced Certificate, students may move on to the degree program if desired.

The courses in the Early Childhood Education Advanced Certificate meet the training and education requirements for the State of NH Early Childhood Teacher Credential Level 4. (Refer to the Early Childhood Professional Development System Guide for other criteria for this level.) The Early Childhood Advanced Certificate program is available days, evenings, and online **and is financial aid eligible**. For more information, contact Diana Menard, Department Chair of Child and Family Studies, at (603) 271-6484 x4281 or dmenard@ccsnh.edu.

| FALL SEMESTER | CL | LAB | CR | FALL SEMESTER | CL | LAB | CR |
|---|----|-----|----------|--|----|-----|-----------|
| ECE 101C Growth and Development of the Young Child^ | 3 | 0 | 3 | ECE 225C Autism Spectrum Disorder | 3 | 0 | 3 |
| ECE 155C Using Children's Literature to Support Young Children's Language and Literacy Development^ | 3 | 0 | 3 | ECE 275C Practicum 1 - Observation, Interpretation, Assessment and Portfolio Documentation | 2 | 7 | <u>4</u> |
| ECE 188C Health, Safety and Nutrition in Early Childhood Education^ | 3 | 0 | <u>3</u> | TOTAL CREDITS | | | 25 |
| | | | 9 | OR | | | |
| SPRING SEMESTER | | | | SPRING SEMESTER | | | |
| ECE 143C Teaching and Learning STEAM^ | 3 | 0 | 3 | ECE 215C Infant/Toddler Development and Programming | 3 | 0 | 3 |
| ECE 167C Positive Behavior Guidance and Supporting Young Children with Challenging Behaviors^ | 3 | 0 | 3 | ECE 270C Teaching Young Children with Exceptionalities | 3 | 0 | <u>3</u> |
| ECE 242C Child, Family and Community | 3 | 0 | <u>3</u> | TOTAL CREDITS | | | 24 |
| | | | 9 | | | | 6 |

^ All students taking the following courses ECE 101C, ECE 143C, ECE 155C, ECE 167C, ECE 188C will be charged a **\$25** Child and Family Development Center Lab fee for each class.

Day and evening students not currently working in child care will spend one and a half hours each week working with infants, toddlers, or preschoolers at the NHTI campus child care center, the Child and Family Development Center (CFDC), while taking early childhood classes. These hours will be considered a component of class participation and additional lab use fee applies. Applicants are advised that the New Hampshire Bureau of Child Care Licensing requires certain paperwork to be on file at centers for employees and others who regularly work in child care centers. Students must complete this paperwork before they participate with the children at the CFDC. This paperwork may include:

- a complete set of electronic fingerprints completed by the Department of Safety;
- submission of a criminal record check; the background check must come back as clear or non-disqualifying; please note that the cost associated with completion of the fingerprinting and criminal record check is the responsibility of the student;
- completion of the licensing Child Care Personnel Health Form by a licensed health provider indicating that the student is in good physical health and has no mental or emotional disturbances that would prohibit him/her from caring for children in a group setting;
- Signed CFDC confidentiality form;
- Signed Health, Character, and Technical Standards form; and
- Related CFDC lab paperwork.

Students who work full time in child care may use their own workplace instead of the CFDC to carry out homework assignments with children. Completion of all related paperwork at the worksite will be verified.

100% online students not working in child care must connect with a licensed child care center (preferably NAEYC accredited and in operation for at least 3 years) to carry out their homework assignments with children. All related paperwork must be completed.

All students must have access to a digital camera and video-capturing device to complete homework assignments. All students must have access to Microsoft Office Student or higher.

After completing the advanced certificate, students may continue on to the degree program.

Specific Admission Requirements, see page 103.

Internship Considerations, see page 152. *Health, Character and Technical Standards*, see page 103.

Early Childhood Education Scholarship Program, see page 104.

Specific Admission Requirements for Early Care and Education of Young Children with Disabilities Degree, Early Childhood Education Degree, Early Childhood Education Certificate, Early Childhood Education (Advanced) Certificate, and Young Children with Autism and Exceptionalities Certificate

1. NHTI placement testing (see NOTE below); and
2. Satisfactory interview with Child and Family Studies program faculty

NOTE: Applicants whose placement scores indicate the need for ENGL 100C and/or RDNG 100C or who have a low LASSI score may enroll as ECE* students within the General Studies program. ECE* students:

1. are advised by Child and Family Studies faculty;
2. begin their first semester of study with ENGL 100C and/or RDNG 100C along with GST 102C (Study Strategies);
3. observe and participate at the campus Lab School with children to become familiar with the environment, children, and teaching staff for a period of not less than 15 hours. Documented hours will be sent from the Lab School to the Department Chair of Child and Family Studies for consideration towards matriculation into the Early Childhood Education program;
4. complete a Change of Program Form to formally matriculate as an Early Childhood Education major upon successful completion of their first semester.

Health, Character, and Technical Standards for Early Care and Education of Young Children with Disabilities Degree, Early Childhood Education Degree, Early Childhood Education Certificate, Early Childhood Education (Advanced) Certificate, and Young Children with Autism and Exceptionalities Certificate

Health Considerations

Candidates for positions and careers in early childhood education are encouraged to explore health requirements associated with employment in child care, preschool and related settings for young children. Prospective students with special needs requiring accommodations that may affect their practicum placement and/or potential employment prospects are encouraged to discuss their specific career goals with the Department Chair during the admissions process, particularly if the candidate is concerned about meeting the program's academic and technical standards. Each student is required to obtain NHTI Liability Insurance starting each school year. The students will be billed directly.

Character Expectations

The health and safety of young children is of paramount concern to the Department of Child and Family Studies. Applicants for positions in childcare, preschools and many other early childhood programs in New Hampshire should be aware that background checks and fingerprinting through the New Hampshire Department of Safety must be completed by potential employers prior to employment. To participate in NHTI's practica, students must first submit to background checks and fingerprinting.

Applicants who have been in difficulty with the law, depending upon the nature of the problem, may not be employable or even eligible for practica. Applicants are advised that such matters will be discussed during the admissions interview, to minimize the likelihood that future goals will be compromised.

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 Department of Child and Family Studies 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 Child and Family Studies 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 practica 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 abide by NHTI's student conduct code;
- 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.

NHTI reserves the right to amend its technical standards at any time and impose them on all current students.

Early Childhood Education Scholarship Program

The Community College System of NH partners with the NH Department of Health & Human Services, Child Development Bureau to offer tuition assistance to child care providers who are entering or are currently in the field of Early Care and Education. If you provide family child care, or work at least part time in a licensed child care setting in New Hampshire, you may be eligible to receive tuition assistance for Early Childhood Education courses offered through CCSNH.

Education

The degree of Associate in Science with a major in Education is awarded upon successful completion of the program.

A candidate in the Associate of Science in Education degree program will fulfill the following learning outcomes as demonstrated through a combination of course work, field experience, capstone experience, and portfolio.

The Associate in Science in Education (ASEd) program concentrates on the foundations of education in a well-balanced approach. The program is based upon the New Hampshire Standards for Professional Education (Ed 610.02) and the New Hampshire Standards for General Education. The program provides students with opportunities to immerse themselves in the theoretical underpinnings and practical applications of education while completing associate degree requirements. Students who complete this program have the basic skills and knowledge to work effectively with all students in public school classrooms, including those students identified with special needs. Students will demonstrate a beginning understanding of learner development, learner differences, and learning environment and facilitation, as well as knowledge of content, assessment, and professional responsibility.

By offering a broad range of courses, the Program prepares graduates to become Paraeducators in schools and/or to transfer their credits to baccalaureate degree-granting institutions to pursue a career in teaching, counseling or related fields.

All students in the ASEd program are expected to achieve a minimum passing score stipulated by the NH Department of Education on the PRAXIS™ Core Academic Skills for Educators tests (<http://www.ets.org/praxis/nh/requirements>). Those students who intend to transfer to one of the colleges in the University System of NH must achieve a minimum GPA of 2.7 in addition to passing the PRAXIS Core Skills exam.

NHTI has transfer affiliations with baccalaureate degree-granting institutions of New England College, Plymouth State University, Rivier University, and Southern New Hampshire University.

Specific Admission Requirements

1. Strong verbal and written English language skills are major considerations for acceptance.
2. Personal interview with Department Chair and/or faculty member may be required.
3. Credit for experiential learning, workshops and/or college courses taken at other institutions is available; students interested in receiving credit must supply appropriate documentation and meet with the Director of Admissions and the Department Chair.
4. Students interested in matriculation in a Bachelor teacher preparation program after completion of the Associate Degree are responsible for researching the requirements of such programs and their transfer procedures.

Note: Applicants should be aware that all associate degree programs at NHTI require successful completion of at least one semester of college level mathematics. Therefore, the college strongly recommends that all applicants successfully complete high school Algebra I with a grade of "C" or higher prior to admission. Those students whose placement testing does not demonstrate readiness for college level mathematics may require more than two years to complete their degree.

| FIRST YEAR | | | | | | | | | |
|----------------------|--|----|-----|-----------------|----|---|----|-----|-----------|
| FALL SEMESTER | | | | SPRING SEMESTER | | | | | |
| | | CL | LAB | CR | | | CL | LAB | CR |
| # | EDU 101C Introduction to Exceptionalities | 3 | 0 | 3 | # | EDU 200C Supporting Students with Challenging Behaviors | 3 | 0 | 3 |
| # | EDU 104C Foundations of Education | 3 | 0 | 3 | # | EDU 208C Content Literacy <i>or</i> | | | |
| | ENGL 101C English Composition | 4 | 0 | 4 | # | EDU 211C Reading and Language Development | 3 | 0 | 3 |
| | MATH120C Quantitative Reasoning <i>or</i> | | | | | PSYC 220C Human Growth and Development: | | | |
| | MATH124C College Algebra or higher level math (MATH 251C Statistics Recommended) | 4 | 0 | 4 | | The Life Span | 3 | 0 | 3 |
| | PSYC 105C Introduction to Psychology | 3 | 0 | 3 | XX | xxxC General Elective | 3 | 0 | 3 |
| | | | | 17 | XX | xxxC Humanities/Fine Arts/ Foreign Language Elective | 3 | 0 | 3 |
| | | | | | | | | | 15 |
| SECOND YEAR | | | | | | | | | |
| FALL SEMESTER | | | | SPRING SEMESTER | | | | | |
| | | CL | LAB | CR | | | CL | LAB | CR |
| # | EDU 201C Legal and Ethical Issues in Education | 3 | 0 | 3 | # | EDU 204C Instructional Technology | 3 | 0 | 3 |
| # | EDU 203C Teaching Strategies for Diverse Learners | 3 | 0 | 3 | | EDU 210C Cross-Cultural Education Seminar | 2 | 0 | 2 |
| | EDU 209C Curriculum and Assessment | 4 | 0 | 4 | # | EDU 220C Field Experience in Education | 1 | 6 | 3 |
| | SOCI 105C Introduction to Sociology | 3 | 0 | 3 | XX | xxxC Lab Science Elective* | 3 | 2 | 4 |
| | | | | 13 | XX | xxxC General Elective | 3 | 0 | 3 |
| | | | | | | | | | 15 |
| TOTAL CREDITS | | | | | | | | | 60 |

Indicates major field courses

* Any lab science course with a prefix of BIOL, CHEM, ENVS, GEOL, PHYS or SCI except BIOL 100C, CHEM 100C and PHYS 100C

Internship Considerations, see page 152. Health, Character and Technical Standards, see page 108.

Education Certificate

The Certificate in Education offers students the option of taking the core education curriculum, allowing for transfer to the Associate in Science in Education program, or to a baccalaureate program in education. In addition to some day and evening offerings, courses in this program are scheduled in the late afternoon-early evening, beginning at 5:00 pm. **This program is financial aid eligible.** To be eligible for federal financial aid, students must submit an official, final high school transcript to the NHTI Admissions Office. For more information, contact Department Chair Kelly Moore Dunn at (603) 271-6484 x4163 or kdunn@ccsnh.edu.

Certificate program students may take 200-level courses concurrently with 100-level courses with permission from the Department Chair of the Education Program.

| FALL SEMESTER | | CL | LAB | CR |
|-----------------|---|----|-----|----------|
| EDU | 101C Introduction to Exceptionalities | 3 | 0 | 3 |
| EDU | 104C Foundations of Education | 3 | 0 | 3 |
| EDU | 201C Legal and Ethical Issues in Education | 3 | 0 | 3 |
| PSYC | 105C Introduction to Psychology | 3 | 0 | <u>3</u> |
| | | | | 12 |
| SPRING SEMESTER | | CL | LAB | CR |
| EDU | 200C Supporting Students with Challenging Behaviors | 3 | 0 | 3 |
| EDU | 204C Instructional Technology | 3 | 0 | 3 |
| EDU | 209C Curriculum and Assessment | 4 | 0 | 4 |
| EDU | 210C Cross-Cultural Education Seminar | 2 | 0 | <u>2</u> |
| | | | | 12 |
| TOTAL CREDITS | | 24 | | |

Internship, Health, Character and Technical Standards, see page 108.

English Speakers of Other Languages Certificate

The Certificate in English Speakers of Other Languages program is jointly administered by the Office of Cross Cultural Education and NHTI Education department and provides candidates with a strong introduction to ESL teaching. This program will prepare interested candidates to work in the ESL community in a variety of community, adult, and overseas programs. While the Certificate Program in ESOL *does not directly lead* to licensure in teaching ESL in New Hampshire, those candidates who would like to obtain licensure may apply coursework toward the [Teacher Education Conversion Program in ESOL](#). **This program is financial aid eligible.** To be eligible for federal financial aid, students must submit an official, final high school transcript, or the equivalent documentation that demonstrates high school completion, to the NHTI Admissions Office.

People interested in exploring careers in ESOL:

- People interested in working in a variety of community programs that require background in working with ELL/ESOL learners.
- Current paraeducators (who hold a bachelor's degree) looking to enhance their skills and possibly move toward a certification in ESOL.
- Current teachers seeking professional development skills related to working with ESOL learners.
- People interested in broadening their knowledge, understanding, and appreciation of cultural and linguistic differences, language acquisition, literacy development, and reflective instructional practices within the ESL setting.
- People interested in enhancing their abilities to develop and use curricular, instructional, and assessment strategies and materials that raise the achievement levels and increase the academic success of English language learners.

| | | | CL | LAB | CR |
|----------|--|--|----|-----|-----------|
| TECP 69C | Cross-Cultural Education Seminar | | 2 | 0 | 2 |
| TECP 73C | Field Experience in Education | | 1 | 12 | 5 |
| TECP 86C | Introduction to Linguistics | | 3 | 0 | 3 |
| TECP 87C | Language, Reading, and Literacy in ESOL | | 3 | 0 | 3 |
| TECP 88C | Curriculum & Design and Assessment in ESOL | | 4 | 0 | <u>4</u> |
| | TOTAL CREDITS | | | | 17 |

Specific Admission Requirements

1. Interested applicants must hold a Baccalaureate degree.
2. Must be able to pass a criminal background check.

Expected Student Outcomes:

- To broaden the candidate's knowledge, understanding, and appreciation of cultural and linguistic differences, language acquisition, literacy development, and reflective instructional practices within the ESL setting.
- To enhance the candidate's abilities to develop and use curricular, instructional, and assessment strategies and materials that raise the achievement levels and increase the academic success of English language learners.

Internship Considerations, see page 152. Health, Character and Technical Standards, see page 108.

Special Education Certificate

The Certificate in Special Education is designed for:

1. People interested in exploring careers in special education;
2. Current paraeducators looking to enhance their skills and possibly move toward degrees in regular or special education;
3. Current teachers seeking professional development skills related to working with children with special needs.

Credits earned in the Certificate in Special Education are fully transferable to NHTI's Associate in Science in Education degree. **This program is financial aid eligible.** To be eligible for federal financial aid, students must submit an official, final high school transcript to the NHTI Admissions Office. Contact Kelly Moore Dunn at (603) 271-6484 x4163 or kdunn@ccsnh.edu for additional information.

Certificate program students may take 200-level courses concurrently with 100-level courses with permission from the Department Chair of the Education Program.

| FALL SEMESTER | | CL | LAB | CR |
|-----------------|--|----|-----|----------|
| EDU 101C | Introduction to Exceptionalities | 3 | 0 | 3 |
| EDU 203C | Teaching Strategies for Diverse Learners | 3 | 0 | 3 |
| ENGL 101C | English Composition | 4 | 0 | <u>4</u> |
| | | | | 10 |
| SPRING SEMESTER | | | | |
| EDU 200C | Supporting Students with Challenging Behaviors | 3 | 0 | 3 |
| EDU 204C | Instructional Technology | 3 | 0 | 3 |
| EDU 210C | Cross-Cultural Education Seminar | 2 | 0 | 2 |
| MATH120C | Quantitative Reasoning <i>or</i> | | | |
| MATH124C | College Algebra | 4 | 0 | <u>4</u> |
| | | | | 12 |
| TOTAL CREDITS | | | | 22 |

Internship Considerations, see page 152.

Health, Character and Technical Standards for Education Programs and related Certificate Programs

Health Considerations

Candidates for positions and careers in education are encouraged to explore health requirements associated with employment in a school setting. Prospective students with special needs requiring accommodations that may affect their learning are encouraged to contact the Disabilities Service Coordinator at (603) 271-6484 x4117 and for TTY/VO call (603) 223-2316.

Character Expectations

The health and safety of children, adolescents and other learners is of paramount concern to the Education program. Applicants for teaching positions in public and private schools in New Hampshire should be aware that background checks through the New Hampshire Department of Safety must be completed by potential employers prior to employment.

Applicants who have been in difficulty with the law, depending upon the nature of their experience, 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 a teacher will not be compromised.

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 public and/or private school classroom as teachers. 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 Education program must have sufficient strength, stamina and motor coordination to perform the following:

- Sufficient hearing and visual acuity to ensure a safe environment and ability to respond quickly in the event of emergency;
- Sufficient verbal ability to express and exchange information and ideas as well as to interpret important instructions to children, adolescents, colleagues, and parents;
- Sufficient writing skills to accurately record students' daily progress and milestones as well as a variety of reports;
- Ability to work with frequent interruptions, to respond appropriately to unexpected situations, and to cope with extreme variations in workload and stress levels.

Teacher Education Conversion Programs (TECP)

Program Overview

NHTI has developed four programs, approved by the NH State Board of Education, to help to meet the critical shortage of teachers in our state:

1. **The Teacher Education Conversion Programs (TECP)** are designed to attract career changers into Mathematics or Science Teaching.
2. **The General Special Education Conversion Program** is designed for candidates who already hold a teaching certification and are interested in adding a general special education endorsement, or for those candidates with a bachelor's degree who hold an alternative IV statement of eligibility and are working in a school.
3. **The ESOL Conversion Program** is designed for candidates who already hold a teaching certification and are interested in adding ESOL K-12 certification or those without teaching certification, who hold a bachelor's degree, and are interested in ESOL as an initial certification.

The mission of the NHTI education programs is to prepare effective, knowledgeable educators who demonstrate the critical skills and dispositions needed for teaching *all* learners in today's diverse classrooms. Candidates are prepared to become reflective educators and life-long learners.

Application Process

1. Applicants submit:
 - a TECP application (the form is available on the website at: <https://www.nhti.edu/sites/default/files/content/documents/tecpapplication.pdf>)
 - official transcripts from all undergraduate and graduate programs attended; candidates must hold a Baccalaureate and/or Master's Degree
 - current resume
 - two letters of recommendation (the form is available on the website at: <https://www.nhti.edu/sites/default/files/content/documents/nhtiprofform.pdf>)
 - copy of teaching certification or NH Statement of Eligibility (if applicable)
 - PRAXIS™ Core Academic Skills for Educators Exam tests scores (www.ets.org/praxis/nh/requirements), if applicable (unless candidate holds a current teaching certification)
2. Once the application is complete, transcripts are reviewed by content faculty to assess the candidate's fundamental knowledge of the NH content standards.
3. Applicants are interviewed by NHTI TECP Faculty. During the interview, the Director of the Conversion Programs will discuss the transcript review with the candidate.
4. Determination is made regarding acceptance and the applicant is notified of the decision.

Program Requirements

Candidates must maintain a cumulative grade point average of at least a 2.75 to remain in the program. A criminal record check will be required for working in the schools.

In order to be recommended for NH Certification a candidate must:

- Pass Praxis II in Content before student teaching/practicum.
- Successfully complete all required coursework.
- Successfully complete a supervised student teaching or practicum experience.
- Successfully complete an electronic portfolio that is approved by the education faculty.

Internship Considerations, see page 152.

Teacher Certification in Mathematics, Science or Computer Science

Program Goals

The goals of the Teacher Education Conversion Program are to prepare the candidate to bring to the classroom the knowledge, skills, expertise, innovation, and enthusiasm necessary to succeed as a teacher; to ensure that candidates are afforded opportunities for observation, exploration, and reflection both in and outside the classroom; to apply his/her content expertise and pedagogical principles in the teaching and assessment of learning in a student teaching experience. The Teacher Education Conversion programs are post-baccalaureate programs in which candidates can expect to learn through integrated fieldwork and courses in the following areas:

| | CL | LAB | CR |
|---|----|-----|----------|
| TECP 50C Introduction to Exceptionalities* | 3 | 0 | 3 |
| TECP 51C Foundations of Education* | 3 | 0 | 3 |
| TECP 60C Supporting Students with Challenging Behaviors* | 3 | 0 | 3 |
| TECP 61C Legal and Ethical Issues in Education | 3 | 0 | 3 |
| TECP 63C Instructional Technology | 3 | 0 | 3 |
| TECP 66C Curriculum and Assessment* | 4 | 0 | 4 |
| TECP 68C Content Literacy | 3 | 0 | 3 |
| TECP 69C Cross-Cultural Education Seminar | 2 | 0 | 2 |
| TECP 92C The Teaching Portfolio** | 1 | 0 | <u>1</u> |

Choose one of the following two options:

Option One

| | | | |
|--|---|----|----|
| TECP 80C Methods/Student Teaching for Middle/Secondary School Mathematics | 2 | 30 | 12 |
| <i>or both of the following</i> | | | |

| | | | |
|---|---|----|---|
| TECP 95C Internship Clinical Practice I: Methods/clinical practice for Middle Secondary School Mathematics | 2 | 15 | 7 |
| TECP 96C Internship Clinical Practice II: Methods/clinical practice for Middle Secondary School Mathematics | 2 | 15 | 7 |

Option Two

| | | | |
|--|---|----|----|
| TECP 81C Methods/Student Teaching for Middle/Secondary School Science | 2 | 30 | 12 |
| <i>or both of the following</i> | | | |

| | | | |
|---|---|----|---|
| TECP 93C Internship Clinical Practice I: Methods/clinical practice for Middle Secondary School Science | 2 | 15 | 7 |
| TECP 94C Internship Clinical Practice II: Methods/clinical practice for Middle Secondary School Science | 2 | 15 | 7 |

Option Three

| | | | |
|---|---|----|-----------|
| TECP 97C Methods/Student Teaching for Computer Science K-12 | 2 | 30 | <u>12</u> |
|---|---|----|-----------|

TOTAL CREDITS **36-38**

* A \$25 fee will be assessed for all students taking TECP 50C, TECP 51C, TECP 60C, and TECP 66C to cover the cost of clinical practice.

** If candidates do not complete the portfolio by the end of the student teaching semester, they will enroll in TECP 92C: The Teaching Portfolio (1 credit seminar) to complete the portfolio.

The NHTI TECP offers certification in the following endorsement areas:

Certification Levels

- | | | | |
|-----------------------|---------------|-------------------------|----------------------|
| • Chemistry | grades 7 – 12 | • Mathematics | grades 5 - 8, 7 - 12 |
| • Computer Science | grades K – 12 | • Middle School Science | grades 5 - 8 |
| • Earth/Space Science | grades 7 - 12 | • Physics | grades 7 - 12 |
| • Life Science | grades 7 - 12 | | |

After successful completion of the program and approval of the electronic portfolio, candidates are recommended to the NH State Department of Education - Bureau of Credentialing for teacher certification. NHTI also has transfer (articulation) agreements in place for students who may wish to pursue a Master's degree after completing their TECP program.

This program is financial aid eligible.

For Application Process, Program Requirements, see page 109. Internship Considerations, see page 152.

General Special Education Conversion Program

*(for candidates **holding** teaching certification)*

Program Goals

The goals of the General Special Education Conversion Program are to prepare the candidate to bring to K-12 classrooms the knowledge, skills, expertise, innovation, and enthusiasm necessary to succeed as a teacher; to ensure the candidate is afforded opportunities for observation, exploration, and reflection both in and outside the classroom; to apply his/her content expertise and pedagogical principles in the assessment of learning in a practicum experience teaching students with diverse learning needs.

Candidates in this program can expect to learn through integrated fieldwork and courses in the following areas:

| | CL | LAB | CR |
|--|----|-----|-----------|
| TECP 50C Introduction to Exceptionalities* | 3 | 0 | 3 |
| TECP 60C Supporting Students with Challenging Behaviors* | 3 | 0 | 3 |
| TECP 62C Teaching Strategies for Diverse Learners* | 3 | 0 | 3 |
| TECP 63C Instructional Technology | 3 | 0 | 3 |
| TECP 67C Reading and Language Development | 3 | 0 | 3 |
| TECP 69C Cross-Cultural Education Seminar | 2 | 0 | 2 |
| TECP 70C Special Education Assessment | 3 | 0 | 3 |
| TECP 71C Consultation/Collaboration and Individual Education Plans (IEPs) | 3 | 0 | 3 |
| TECP 82C Practicum Experience in General Special Education | 2 | 15 | 7 |
| TECP 92C The Teaching Portfolio** | 1 | 0 | <u>1</u> |
| TOTAL CREDITS | | | 30 |

* A \$25 fee will be assessed for all students taking TECP 50C, TECP 60C and TECP 62C to cover the cost of clinical practice.

** If candidates do not complete the portfolio by the end of the student teaching semester, they will enroll in TECP 92C: The Teaching Portfolio (1 credit seminar) to complete the portfolio.

After successful completion of the program, candidates are recommended to the NH State Department of Education - Bureau of Credentialing for General Special Education certification. NHTI also has transfer (articulation) agreements in place for students who may wish to pursue a Master's degree after completing their TECP program.

This program is financial aid eligible.

For Application Process, Program Requirements and Internship Considerations, see page 109.

General Special Education Conversion Program

(for candidates who **do not hold** teaching certification)

Program Goals

The goals of the General Special Education Conversion Program are to prepare the candidate to bring to K-12 classrooms the knowledge, skills, expertise, innovation, and enthusiasm necessary to succeed as a teacher; to ensure the candidate is afforded opportunities for observation, exploration, and reflection both in and outside the classroom; to apply his/her content expertise and pedagogical principles in the assessment of learning in a practicum experience teaching students with diverse learning needs.

Candidates in this program can expect to learn through integrated fieldwork and courses in the following areas:

| | | CL | LAB | CR |
|----------------------|--|----|-----|-----------|
| TECP 50C | Introduction to Exceptionalities* | 3 | 0 | 3 |
| TECP 60C | Supporting Students with Challenging Behaviors* | 3 | 0 | 3 |
| TECP 61C | Legal and Ethical Issues in Education | 3 | 0 | 3 |
| TECP 62C | Teaching Strategies for Diverse Learners* | 3 | 0 | 3 |
| TECP 63C | Instructional Technology | 3 | 0 | 3 |
| TECP 66C | Curriculum and Assessment* | 4 | 0 | 4 |
| TECP 67C | Reading and Language Development | 3 | 0 | 3 |
| TECP 69C | Cross-Cultural Education Seminar | 2 | 0 | 2 |
| TECP 70C | Special Education Assessment | 3 | 0 | 3 |
| TECP 71C | Consultation/Collaboration and Individual Education Plans (IEPs) | 3 | 0 | 3 |
| TECP 83C | Methods and Student Teaching in General Special Education | 2 | 30 | 12 |
| TECP 92C | The Teaching Portfolio* | 1 | 0 | <u>1</u> |
| TOTAL CREDITS | | | | 42 |

* A \$25 fee will be assessed for all students taking TECP 50C, TECP 51C, TECP 60C, TECP 62C and TECP 66C to cover the cost of clinical practice.

** If candidates do not complete the portfolio by the end of the student teaching semester, they will enroll in TECP 92C: The Teaching Portfolio (1 credit seminar) to complete the portfolio.

After successful completion of the program, candidates are recommended to the NH State Department of Education - Bureau of Credentialing for General Special Education certification. NHTI also has transfer (articulation) agreements in place for students who may wish to pursue a Master's degree after completing their TECP program.

This program is financial aid eligible.

For Application Process, Program Requirements and Internship Considerations, see page 109.

ESOL Conversion Program

Program Goals

The goals of the ESOL Conversion Program are to prepare the candidate to bring to K-12 classrooms the knowledge, skills, expertise, innovation, and enthusiasm necessary to succeed as a teacher; to ensure the candidate is afforded opportunities for observation, exploration, and reflection both in and outside the classroom; to apply his/her content expertise and pedagogical principles in the assessment of learning in a practicum or student teaching experience working with English language learners.

Candidates in this program can expect to learn through integrated fieldwork and courses in the following areas:

| | | | CL | LAB | CR |
|---------------|---|---|-------|----------|----|
| TECP 50C | Introduction to Exceptionalities* | 3 | 0 | 3 | |
| TECP 51C | Foundations of Education* | 3 | 0 | 3 | |
| TECP 60C | Supporting Students with Challenging Behavior* | 3 | 0 | 3 | |
| TECP 61C | Legal and Ethical Issues in Education | 3 | 0 | 3 | |
| TECP 63C | Instructional Technology | 3 | 0 | 3 | |
| TECP 69C | Cross-Cultural Education Seminar | 2 | 0 | 2 | |
| TECP 86C | Introduction to Linguistics | 3 | 0 | 3 | |
| TECP 87C | Language, Reading, and Literacy in ESOL* | 3 | 0 | 3 | |
| TECP 88C | Curriculum & Design and Assessment in ESOL* | 4 | 0 | 4 | |
| TECP 90C | Supervised Student Teaching/Theory, Practice, and Methods/Materials in ESOL Education <i>or</i> | 2 | 30 | 12 | |
| TECP 91C | Practicum, Methods/Materials, and Culture in ESOL Education | 2 | 15 | 7 | |
| TECP 92C | The Teaching Portfolio** | 1 | 0 | <u>1</u> | |
| TOTAL CREDITS | | | 34-39 | | |

* A \$25 fee will be assessed for all students taking TECP 50C, TECP 51C, TECP 60C, TECP 66C, TECP 87C and TECP 88C to cover the cost of clinical practice.

** If candidates do not complete the portfolio by the end of the student teaching semester, they will enroll in TECP 92C: The Teaching Portfolio (1 credit seminar) to complete the portfolio.

After successful completion of the program, candidates are recommended to the NH State Department of Education - Bureau of Credentialing for ESOL K-12 certification.

This program is financial aid eligible.

For Application Process, Program Requirements and Internship Considerations, see page 109.

Young Children with Autism and Exceptionalities Certificate

The Young Children with Autism and Exceptionalities program, under the auspices of the Child and Family Studies department, trains students to work specifically with very young children from birth to age 8 with autism spectrum disorder and other special needs or with those children who may be at risk for developmental delays or disabilities. Students will learn about individual differences in both typically and atypically developing young children. Students will work collaboratively as a part of various transdisciplinary teams and implement the activities that have been developed as part of a child's Individual Family Support Plan (IFSP). Students will learn how to provide early supports and services to young children in natural environments such as the home or a child care program while valuing and supporting the family as the expert on the child. The courses in the Autism Early Intervention Support Certificate program meet the training and education requirements for the State of NH credential of Associate Teacher Level 4. (Refer to the Early Childhood Professional Development System Guide for other criteria for this level.)

For more information, contact Diana Menard, Department Chair, at (603) 271-6484 x4281 or dmenard@ccsnh.edu. This program is available days and evenings. **This program is financial aid eligible.** To be eligible for federal financial aid, students must submit an official, final high school transcript to the NHTI Admissions Office. Students working in licensed child care programs in NH may also apply for tuition assistance made possible through funding from the NH DHHS, DCYF, Child Development Bureau.

The course layout below is typical for a full time day student. Contact the Department Chair for typical layout of a part-time evening schedule.

| FALL SEMESTER | | CL | LAB | CR | FALL SEMESTER* | | CL | LAB | CR |
|------------------------|--|----|-----|----------|-------------------------|---------------------------------------|----|-----|-----------|
| ECE 101C | Growth and Development of the Young Child^ | 3 | 0 | 3 | ECE 282C | Preschool Special Education Practicum | 2 | 7 | 4 |
| ECE 225C | Autism Spectrum Disorder | 3 | 0 | <u>3</u> | EDU 201C | Legal and Ethical Issues in Education | 3 | 0 | <u>3</u> |
| | | | | 6 | | | | | 7 |
| SPRING SEMESTER | | | | | TOTAL CREDITS | | | | 19 |
| ECE 167C | Positive Behavior Guidance and Supporting Young Children with Challenging Behaviors^ | 3 | 0 | 3 | OR | | | | |
| ECE 270C | Teaching Young Children with Exceptionalities | 3 | 0 | <u>3</u> | SPRING SEMESTER* | | | | |
| | | | | 6 | ECE 242C | Child, Family, and Community | 3 | 0 | 3 |
| | | | | | ECE 283C | Early Intervention Practicum | 2 | 7 | <u>4</u> |
| | | | | | | | | | 7 |
| | | | | | TOTAL CREDITS | | | | 19 |

* Indicates only one option is necessary for completion of the certificate. Student, along with the advisor, will decide which practicum option the student will complete.

^ All students taking the following courses ECE 101C and ECE 167C will be charged a **\$25** Child and Family Development Center Lab fee for each class.

Specific Admission Requirements, see page 103.

Internship Considerations, see page 152. *Health, Character and Technical Standards*, see page 103.

Early Childhood Education Scholarship Program, see page 104.

STEM (Science, Technology, Engineering and Math)

Science

Biology

The degree of Associate in Science with a major in Biology is awarded upon successful completion of the program.

This degree program is intended for students who plan to continue their education beyond the associate degree. Students who graduate from this program will also have the skills necessary to work in the field as a biological science technician. A major in the biological sciences is recommended for students interested in pursuing further study in biology, botany, zoology, ecology, microbiology, agriculture, forestry, molecular biology, cell biology, genetics or marine biology. This program also provides an excellent foundation for studies in pre-medicine, pre-dentistry and pre-veterinary medicine.

This program provides a broad-based curriculum in the biological sciences and helps students meet the requirements for a variety of other degree programs. If students choose to pursue a four-year degree, the core courses that they have taken in this program will provide the basic competencies, knowledge, and skills essential to transfer to a baccalaureate degree program in the Biological Sciences.

The biology major will prepare students for a variety of careers in biological science; provide a background of skills, methods, and knowledge needed for further study in professional and graduate schools; and promote not only an appreciation of the sciences but also an educated voting citizen.

According to The Bureau of Labor Statistics, employment in the life sciences field is expected “to grow 10 percent from 2012-2022, about as fast as the average for all occupations. Greater demand for biotechnology research is expected to increase the need for these workers.”

The Department of Labor indicates a variety of technical positions available where graduates would work closely with scientists and biologists in many different industries. These positions include: biological technician, forest or conservation technician, and medical or clinical laboratory technician. Other possible positions would include veterinary technician, medical assistant, plant science technician, and sales associate for medical equipment, pharmaceuticals, and biological materials.

Specific Admission Requirements

1. High school biology with a lab with a grade of “C” or better;
2. High school chemistry with a lab with a grade of “C” or better;
3. Algebra I or higher with a grade of “C” or better.

FIRST YEAR

| FALL SEMESTER | | | | SPRING SEMESTER | | | |
|--|----|-----|----------|--|----|-----|----------|
| | CL | LAB | CR | | CL | LAB | CR |
| # BIOL 111C General Biology I | 3 | 2 | 4 | # BIOL 112C General Biology II | 3 | 2 | 4 |
| CHEM 103C General Chemistry | 3 | 2 | 4 | CHEM 104C General Chemistry II | 3 | 2 | 4 |
| ENGL 101C English Composition | 4 | 0 | 4 | ENGL 125C Communication and the Literature of Science and Technology or | | | |
| INDL 101C STEM in the First Year Experience* | 3 | 0 | 3 | ENGL xxxC English Elective | 3 | 0 | 3 |
| MATH 124C College Algebra or | | | | PHIL 242C Contemporary Ethical Issues** | 3 | 0 | 3 |
| Higher Level Math*** | 4 | 0 | <u>4</u> | PHYS 133C Physics I (Algebra-Based) | 3 | 2 | <u>4</u> |
| | | | 19 | | | | 18 |

SECOND YEAR

| FALL SEMESTER | | | | SPRING SEMESTER | | | |
|--------------------------------------|-----|-----|----------|---|-----|-----|------------|
| | CL | LAB | CR | | CL | LAB | CR |
| # BIOL 202C Microbiology | 3 | 3 | 4 | # BIOL 211C Genetics | 3 | 2 | 4 |
| # BIOL xxxC Biology Elective | 3-4 | 0-2 | 3-4 | # BIOL 260C Cell Biology | 3 | 3 | 4 |
| MATH 251C Statistics | 4 | 0 | 4 | # BIOL 290C Senior Capstone Project and Seminar | 3 | 2 | 4 |
| PHYS 135C Physics II (Algebra-Based) | 3 | 2 | <u>4</u> | # BIOL xxxC Biology Elective | 3-4 | 0-2 | <u>3-4</u> |
| | | | 15-16 | | | | 15-16 |
| | | | | TOTAL CREDITS | | | |
| | | | | 67-69 | | | |

Indicates major field courses.

* Meets Social Science Requirement.

** Meets Humanities/Foreign Language/Fine Arts requirement.

*** Excluding MATH 129C.

Courses with online/virtual labs are not accepted for major Biology and Chemistry courses

Internship Considerations, see page 152.

Environmental Sciences

The degree of Associate in Science with a major in Environmental Sciences is awarded upon successful completion of the program.

This program provides an interdisciplinary approach to studying social, ethical and ecological interactions between the natural world and society. All students begin with introductory classes in biology, math, English, chemistry, economics and philosophy (ethics), which provide the basic skills and knowledge required to address environmental problems.

The program also provides the first two years of courses necessary for a four-year baccalaureate degree in environmental sciences for students interested in transferring. According to the Economic and Labor Market Information Bureau's Job Outlook Reports, graduates of both Associate degree programs and bachelor's degree programs will have increasing employment opportunities. Students might find employment as City Planning Aides, Economic Research Assistants, Grazing Examiners, Soil Testers, Meteorological Aids, or Tree Wardens. With a Bachelor's degree, students might find employment as Biotechnologists, Wildlife Technicians or Specimen Technicians.

Specific Admission Requirements

1. High school biology with a lab with a grade of "C" or better;
2. High school chemistry with a lab with a grade of "C" or better;
3. Algebra I or higher with a grade of "C" or better.

Environmental Sciences Degree with Transfer Option

General Education Requirements

| | | | |
|---|---|---|-----------|
| ENGL 101C English Composition | 4 | 0 | 4 |
| ECON 101C Macroeconomics | 3 | 0 | 3 |
| GEOL 101C Essentials of Geology | 3 | 2 | 4 |
| MATH 124C College Algebra or Higher Level Math (excluding MATH 129C) | 4 | 0 | 4 |
| MATH 251C Statistics | 4 | 0 | 4 |
| SOCI 180C Environment and Society | 3 | 0 | 3 |
| XX xxxC Humanities, Fine Arts, or Foreign Language Elective | 3 | 0 | <u>3</u> |
| Total General Education Credits | | | 25 |

Major Requirements

| | | | |
|---|---|---|-----------|
| # ARET 160C Introduction to Geographic Information Systems | 2 | 2 | 3 |
| # BIOL 111C General Biology I | 3 | 2 | 4 |
| # BIOL 112C General Biology II | 3 | 2 | 4 |
| # BIOL 212C Ecology | 3 | 2 | 4 |
| # BIOL 215C Fresh Water Ecology | 3 | 2 | 4 |
| # CHEM 103C General Chemistry | 3 | 2 | 4 |
| # CHEM 104C General Chemistry II | 3 | 2 | 4 |
| # ENVS 101C Fundamentals of Environmental Science | 3 | 2 | 4 |
| # ENVS 290C Senior Capstone Project and Seminar | 3 | 2 | <u>4</u> |
| Total Major Credits | | | 35 |

Elective Requirements

Choose two of the following options below:*

| | | | |
|---|---|---|--------------|
| XX xxxC ARET 101C AutoCAD 2D | 3 | 0 | 3 |
| XX`xxxC BIOL 116C Field Ornithology | 3 | 2 | 4 |
| BIOL 117C Introduction to Plant Biology | 3 | 2 | 4 |
| BIOL 202C Microbiology | 3 | 3 | 4 |
| ENVS 220C Introduction to Soil Science | 3 | 2 | 4 |
| ENVS 250C Agroecology | 3 | 2 | 4 |
| MATH 125C Finite Mathematics | 4 | 0 | 4 |
| MATH 140C Precalculus | 4 | 0 | 4 |
| MATH 205C Calculus I | 4 | 0 | 4 |
| PHYS 133C Physics (Algebra Based) | 3 | 2 | 4 |
| PHYS 135C Physics II (Algebra Based) | 3 | 2 | 4 |
| PHYS 231C Physics I (Calculus-Based) | 3 | 3 | 4 |
| PHYS 232C Physics II (Calculus-Based) | 3 | 3 | 3 |
| SCI 107C Introduction to Meteorology | 3 | 2 | 4 |
| SCI 110C Alternative Energy Fundamentals | 3 | 2 | <u>4</u> |
| Total Elective Credits | | | 7-8 |
| Total Degree Credits Required | | | 67-68 |

* Be sure to discuss these options with your advisor.

Courses with online/virtual labs are not accepted for major Biology and Chemistry courses.

Environmental Sciences Degree with Career Option

General Education Requirements

| | | | | | |
|--|------|---|---|---|-----------|
| ENGL | 101C | English Composition | 4 | 0 | 4 |
| ECON | 101C | Macroeconomics | 3 | 0 | 3 |
| GEOL | 101C | Essentials of Geology | 3 | 2 | 4 |
| MATH | 124C | College Algebra or Higher Level Math (excluding MATH 129C) | 4 | 0 | 4 |
| MATH | 251C | Statistics | 4 | 0 | 4 |
| SOCI | 180C | Environment and Society | 3 | 0 | 3 |
| XX | xxxC | Humanities, Fine Arts, or Foreign Language Elective | 3 | 0 | <u>3</u> |
| Total General Education Credits | | | | | 25 |

Major Requirements

| | | | | | |
|----------------------------|------|---|---|---|-----------|
| # ARET | 101C | AutoCAD 2D | 3 | 0 | 3 |
| # ARET | 160C | Introduction to Geographic Information Systems | 2 | 2 | 3 |
| # BIOL | 111C | General Biology I | 3 | 2 | 4 |
| # BIOL | 112C | General Biology II | 3 | 2 | 4 |
| # BIOL | 212C | Ecology | 3 | 2 | 4 |
| # BIOL | 215C | Fresh Water Ecology | 3 | 2 | 4 |
| # CHEM | 103C | General Chemistry | 3 | 2 | 4 |
| # CHEM | 104C | General Chemistry II | 3 | 2 | 4 |
| # ENVS | 101C | Fundamentals of Environmental Science | 3 | 2 | 4 |
| # ENVS | 290C | Senior Capstone Project and Seminar | 3 | 2 | <u>4</u> |
| Total Major Credits | | | | | 38 |

Elective Requirements

Choose one of the following options below:*

| | | | | | |
|--------------------------------------|------|---|---|---|-----------|
| XX | xxxC | BIOL 116C Field Ornithology | 3 | 2 | 4 |
| | | BIOL 117C Introduction to Plant Biology | 3 | 2 | 4 |
| | | BIOL 202C Microbiology | 3 | 3 | 4 |
| | | ENVS 220C Introduction to Soil Science | 3 | 2 | 4 |
| | | ENVS 250C Agroecology | 3 | 2 | 4 |
| | | PHYS 133C Physics (Algebra Based) | 3 | 2 | 4 |
| | | PHYS 135C Physics II (Algebra Based) | 3 | 2 | 4 |
| | | PHYS 231C Physics I (Calculus-Based) | 3 | 3 | 4 |
| | | PHYS 232C Physics II (Calculus-Based) | 3 | 3 | 3 |
| | | SCI 107C Introduction to Meteorology | 3 | 2 | 4 |
| | | SCI 110C Alternative Energy Fundamentals | 3 | 2 | <u>4</u> |
| Total Elective Credits | | | | | 4 |
| Total Degree Credits Required | | | | | 67 |

* Be sure to discuss these options with your advisor.

Courses with online/virtual labs are not accepted for major Biology and Chemistry courses.

Internship Considerations, see page 152.

Landscape and Environmental Design

The degree of Associate in Science with a major in Landscape and Environmental Design will be awarded upon successful completion of the program.

The Associate in Science in Landscape and Environmental Design degree program has been developed to accommodate a demand, locally and globally, for educated environmental professionals. This degree program is for students interested in pursuing an education and/or career related to the natural environment such as forestry, landscape management and design, wetland science, landscape architecture, urban planning, environmental technology or environmental conservation.

The curriculum, which combines coursework in natural science, technology and design, provides students with a core foundation of education and skills needed to launch their careers as well as exposure to the variety of career and advanced degree opportunities in the growing environmental industry. Students will gain an understanding of the natural environment and its relationship to the designed built environment through required course work and practical experience. Graduates will have a working knowledge of and appreciation for the natural physical environment in the context of landscape and environmentally-related professions. Some of the major field courses are only available in the evening.

Specific Admission Requirements

1. High school Algebra I with a grade of "C" or higher *or* NHTI's MATH 092C with a grade of "C" or higher;
2. High school Biology with lab with a grade of "C" or higher.

| FIRST YEAR | | | | | | | | | |
|---|-----|-----|------------|--|-----|-----|--------------|--|--|
| FALL SEMESTER | | | | FALL SEMESTER | | | | | |
| | CL | LAB | CR | | CL | LAB | CR | | |
| # BIOL 117C Introduction to Plant Biology | 3 | 2 | 4 | # ARET 101C AutoCAD 2D <i>or</i> | | | | | |
| # LAND 102C Identification and Uses of Shrubs, Groundcovers and Vines | 3 | 0 | 3 | # LAND 200C Vectorworks Landmark 2D | 3 | 0 | 3 | | |
| # LAND 115C Landscape Architectural Design Theory | 3 | 0 | 3 | ENGL 101C English Composition | 4 | 0 | 4 | | |
| MATH 120C Quantitative Reasoning or higher* | 4 | 0 | <u>4</u> | # ENVS 101C Fundamentals of Environmental Science | 3 | 2 | 4 | | |
| | | | 14 | # LAND 101C Identification and Uses of Trees | 3 | 0 | 3 | | |
| | | | | # LAND 112C Landscape Drawing and Presentation Techniques | 2 | 2 | <u>3</u> | | |
| | | | | | | | 17 | | |
| SECOND YEAR | | | | | | | | | |
| FALL SEMESTER | | | | SPRING SEMESTER | | | | | |
| | CL | LAB | CR | | CL | LAB | CR | | |
| # BIOL 115C Introduction to Ecology | 3 | 2 | 4 | # ARET 160C Introduction to Geographic Information Systems | 2 | 2 | 3 | | |
| ENGL 125C Communications and the Literature of Science and Technology <i>or</i> | | | | # LAND 270C Sustainable Landscape Principles and Practices | 3 | 2 | 4 | | |
| ENGL xxxC English Elective | 3 | 0 | 3 | # LAND 290C Senior Project/Internship | 0 | 12 | 4 | | |
| # LAND 220C Planting Design | 3 | 0 | 3 | # XX xxxC Landscape and Environmental Design Elective*** | 3-4 | 0 | <u>3-4</u> | | |
| XX xxxC Social Science Elective** | 3 | 0 | 3 | | | | 14-15 | | |
| XX xxxC Humanities/Fine Arts/ Foreign Language Elective | 3-4 | 0 | <u>3-4</u> | TOTAL CREDITS | | | 61-65 | | |
| | | | 16-17 | | | | | | |

Indicates major field course.

* Excluding MATH 129C; students should consult their academic advisors to ensure that the appropriate math course is selected to correspond with individual academic goals.

** Any course with a prefix of ANTH, ECON, HIST, POLS, PSYC or SOCI (except HIST 104C and HIST 105C).

*** Any ARET, CVET, LAND, BUS, VRTS or other course approved by the Department Chair of the Landscape and Environmental Design program and the Vice President of Academic Affairs.

Internship Considerations, see page 152.

Landscape Design Certificate

The Landscape Design Certificate program provides entry-level skills for those entering the landscaping field or continuing education for landscapers, florists/nursery growers, architects, and anyone interested in a broader range of knowledge in this area. For more information contact Liaquat Khan, D.A. at (603) 271-6484 x4221 or lkhan@ccsnh.edu. This program is available evenings only. **This program is financial aid eligible.** To be eligible for federal financial aid, students must submit an official, final high school transcript, or the equivalent documentation that demonstrates high school completion, to the NHTI Admissions Office.

FIRST YEAR

| FALL SEMESTER | | | CL LAB CR | | | SPRING SEMESTER | | | CL LAB CR | | |
|---|--|--|-----------|---|----------|---|--|--|-----------|---|----------|
| LAND 102C Identification and Uses of Shrubs, Groundcovers and Vines | | | 3 | 0 | 3 | LAND 101C Identification and Uses of Trees | | | 3 | 0 | 3 |
| LAND 115C Landscape Architecture Design Theory | | | 3 | 0 | <u>3</u> | LAND 112C Landscape Drawing and Presentation Techniques | | | 2 | 2 | <u>3</u> |
| | | | 6 | | | | | | 6 | | |

SECOND YEAR

| FALL SEMESTER | | | CL LAB CR | | | SPRING SEMESTER | | | CL LAB CR | | |
|--|--|--|-----------|---|----------|--|--|--|-----------|---|----------|
| LAND 109C Basic Site Grading and Surveying | | | 2 | 2 | 3 | LAND 218C Landscape Design Studio | | | 3 | 0 | 3 |
| LAND 220C Planting Design | | | 3 | 0 | <u>3</u> | LAND 225C Landscape Construction Details and Methods | | | 2 | 2 | <u>3</u> |
| | | | 6 | | | | | | 6 | | |
| | | | | | | TOTAL CREDITS | | | 24 | | |

Prerequisites: Submit official copy of High School transcript and/or GED with scores. Algebra I and Algebra II, with grades of “C” or higher, are recommended.

Internship Considerations, see page 152.

Sustainable Agriculture Degree

The Associate of Science in Sustainable Agriculture degree will not only prepare future farmers for both the business and science behind running a small profitable farm in Northern New England, but also provide those students wishing to obtain a Bachelor of Science in Sustainable Agriculture the courses needed for transfer. The career pathway of this program focuses on sustainable alternatives to industrialized farming and how to be successful in the marketplace without competing with industrialized and specialized large-scale operations. Students will develop the skills necessary to market their product through farmer's markets, roadside stands, and community supported agriculture and restaurants as part of the local food-to-table movement. In the transfer pathway students will take a series of core courses and electives that will prepare them to complete a Bachelor of Science as well as work in this field.

As advocates for the production of healthy, environmentally friendly food in their community, students will understand the holistic role of the agro-ecosystem and how to balance the economic, environmental and social needs of the farmer and community. Students will specialize through guided pathways based on their agricultural preference, such as greenhouse and high tunnel farming, open field farming, fruit, tree, vineyard as well as agricultural management, policy and marketing.

The program will provide students with the knowledge and local connections to overcome some of the barriers facing a new farmer. Students will:

- Apply the basic principles of environmental science and ecology to sustainable agriculture
- Read and interpret soil and water chemistry testing results
- Identify basic agricultural pests and diseases
- Select plants, order materials, plant and transplant in greenhouses, directly sow seeds and harvest plants
- Identify trees and use the principles of forest ecology and tree identification to select planting sites and predict how these principals will affect soil type and chemistry
- Calculate the ratios of fertilizers and nutrients for application per area
- Prepare a portfolio with information on pests, climate, frost dates, plant types, pest resistance, planting dates, costs and potential markets needed for licensing and financial documentation
- Evaluate the consequences of a history of industrialized agriculture and explain how that affects current agricultural systems
- Advocate for policy change to support sustainable agriculture
- Manage a working landscape
- Promote healthy eating and value added agricultural products
- Maintain financial records and apply for and procure loans and grants
- Identify niche markets and properly market materials ensuring a profitable business
- Gain skills through internships and apprenticeships and establish mentoring relationships with successful agribusinesses

Students will develop the skills necessary and complete the appropriate classes needed to either pursue a B.S degree in Sustainable Agriculture or for direct workforce entry. Such careers include:

- Farmer
- Market Gardener
- Farmers Market Manager
- Farm Manager
- Sustainable agriculture consultant
- Local food buyer for Supermarket
- Organic/Sustainable Retail and Support (seed/ equipment company)
- Greenhouse manager
- High tunnel grower
- Agrotourism
- 4-H coordination
- Agricultural fair worker
- Management and marketing of agricultural operations
- Management of working lands and landscapes
- Agriculture/food/nutrition/natural resources-related research policy-making

This program is financial aid eligible. To be eligible for federal financial aid, students must submit an official, final high school transcript, or the equivalent documentation that demonstrates high school completion, to the NHTI Admissions Office.

Technical Standards

Students in the Sustainable Agriculture Technology certificate 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/ground to meet farming needs and accomplish tasks;
- Frequent lifting, moving, and transferring of equipment, plants, and/or livestock;
- Sufficient visual and hearing acuity to ensure a safe environment and the ability to respond quickly to clients, 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 clients, colleagues, and professional partners;
- 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 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 laboratories in a timely manner;
- Ability to demonstrate and maintain organizational skills and time management in classes and at the laboratory site;
- Ability to abide by NHTI's Student Code of Conduct.

NHTI reserves the right to amend its technical standards at any time and impose them on all current students.

Sustainable Agriculture Associate in Science Degree with Certificate Option

| General Education Requirements | | | CL LAB CR | | | Elective Requirements | | | | CL LAB CR | | | |
|---|------|--|--------------|---|---|--|------|------|-------------|---|---|---|---|
| BIOL | 111C | General Biology I | 3 | 2 | 4 | Choose 9-10 Credits from the following options* | | | | | | | |
| ENGL | 101C | English Composition | 4 | 0 | 4 | XX | xxxC | ACCT | 101C | Accounting II | 3 | 0 | 3 |
| MATH | 124C | College Algebra or Higher Level Math (excluding MATH 129C) | 4 | 0 | 4 | XX | xxxC | ARET | 160C | Introduction to Geographic Information Systems | 2 | 2 | 3 |
| SOCI | 180C | Environment and Society (Fall only) | 3 | 0 | 3 | | | BIOL | 112C | General Biology II | 3 | 2 | 4 |
| XX | xxxC | Humanities, Fine Arts or Foreign Language Elective | 3 | 0 | 3 | | | BIOL | 159C | Personal Nutrition | 3 | 2 | 4 |
| Choose one of the following two options:* | | | | | | | | BIOL | 202C | Microbiology | 3 | 3 | 4 |
| ENGL | xxxC | Communication Elective or Literature Elective | 3 | 0 | 3 | | | BIOL | 211C | Genetics | 3 | 2 | 4 |
| Choose one of the following two options:* | | | | | | | | BIOL | 212C | Ecology | 3 | 2 | 4 |
| XX | xxxC | MATH 251C Statistics or Humanities/Fine Art/ Foreign Language Elective | 4 | 0 | 4 | | | CHEM | 103C | General Chemistry I | 3 | 2 | 4 |
| Total General Education Credits | | | 24-25 | | | | | CHEM | 104C | General Chemistry II | 3 | 2 | 4 |
| Major Requirements | | | | | | | | CHEM | 105C | Chemistry | 3 | 2 | 4 |
| ACCT | 101C | Accounting I++ | 3 | 0 | 3 | | | CHEM | 115C | Brewing: The Science Behind Beer | 3 | 2 | 4 |
| AGRI | 110C | Sustainable Agriculture I | 3 | 2 | 4 | | | GEOG | 110C | Introduction to Cultural Geography | 3 | 0 | 3 |
| AGRI | 112C | Practical Applications for Sustainable Agriculture I++ | 1 | 3 | 2 | | | LAND | 101C | Identification and Uses of Trees | 3 | 0 | 3 |
| AGRI | 115C | Practical Applications for Sustainable Agriculture II++ | 1 | 3 | 2 | | | LAND | 102C | Identification and Uses of Shrubs, Groundcovers and Vines | 3 | 0 | 3 |
| BUS | 170C | Principles of Marketing++ | 3 | 0 | 3 | | | PHYS | 133C | Physics (Algebra Based) | 3 | 2 | 4 |
| ENVS | 220C | Introduction to Soil Science | 3 | 2 | 4 | | | PHYS | 134C | Physics II (Algebra Based) | 3 | 2 | 4 |
| ENVS | 250C | Agroecology (Fall only) | 3 | 2 | 4 | | | PHYS | 231C | Physics I (Calculus-Based) | 3 | 3 | 4 |
| Choose one of the following three options:++* | | | | | | | | PHYS | 232C | Physics II (Calculus-Based) | 3 | 3 | 4 |
| XX | xxxC | BIOL 115C Introduction to Ecology BIOL 117C Introduction to Plant Biology ENVS 101C Fundamentals of Environmental Science | 3 | 2 | 4 | Total Elective Credits | | | 9-10 | | | | |
| Total Major Credits | | | 26 | | | Total Minimum Degree Credits Required | | | 60 | | | | |

* Students are strongly encouraged to discuss these options with their academic advisor. To graduate, students must have a total of 60 credits.

++ These courses count toward a certificate in Sustainable Agriculture Technology

Courses with online/virtual labs are not accepted for major Biology and Chemistry courses.

Internship Considerations, see page 152.

Sustainable Agriculture Associate in Science Degree with Transfer Option

| General Education Requirements | | | CL | LAB | CR |
|---|------|---|----|-----|-----------|
| BIOL | 111C | General Biology I | 3 | 2 | 4 |
| ENGL | 101C | English Composition | 4 | 0 | 4 |
| Choose one of the following two options:* | | | | | |
| ENGL | xxxC | Communication Elective or Literature Elective | 3 | 0 | 3 |
| MATH | 124C | College Algebra or Higher Level Math (excluding MATH 129C) | 4 | 0 | 4 |
| MATH | 251C | Statistics | 4 | 0 | 4 |
| SOCI | 180C | Environment and Society (Fall only) | 3 | 0 | 3 |
| XX | xxxC | Humanities/Fine Art/ Foreign Language Elective | 3 | 0 | <u>3</u> |
| Total General Education Credits | | | | | 25 |

Major Requirements

| | | | | | |
|----------------------------|------|--|---|---|-----------|
| AGRI | 110C | Sustainable Agriculture I | 3 | 2 | 4 |
| CHEM | 103C | General Chemistry I | 3 | 2 | 4 |
| ENVS | 101C | Fundamentals of Environmental Science | 3 | 2 | 4 |
| ENVS | 220C | Introduction to Soil Science | 3 | 2 | 4 |
| ENVS | 250C | Agroecology (Fall only) | 3 | 2 | <u>4</u> |
| Total Major Credits | | | | | 20 |

| Elective Requirements | | | CL | LAB | CR | | | | |
|---|------|------|------|--|----|--|----|---|---|
| Choose 15 Credits from the following options* | | | | | | | | | |
| XX | xxxC | ARET | 160C | Introduction to Geographic Information Systems | | | 2 | 2 | 3 |
| XX | xxxC | BIOL | 112C | General Biology II | | | 3 | 2 | 4 |
| XX | xxxC | BIOL | 117C | Introduction to Ecology | | | 3 | 2 | 4 |
| | | BIOL | 159C | Personal Nutrition | | | 3 | 2 | 4 |
| | | BIOL | 202C | Microbiology | | | 3 | 3 | 4 |
| | | BIOL | 211C | Genetics | | | 3 | 2 | 4 |
| | | BIOL | 212C | Ecology | | | 3 | 2 | 4 |
| | | CHEM | 104C | General Chemistry II | | | 3 | 2 | 4 |
| | | CHEM | 105C | Chemistry | | | 3 | 2 | 4 |
| | | CHEM | 115C | Brewing: The Science Behind Beer | | | 3 | 2 | 4 |
| | | GEOG | 110C | Introduction to Cultural Geography | | | 3 | 0 | 3 |
| | | PHYS | 133C | Physics (Algebra Based) | | | 3 | 2 | 4 |
| | | PHYS | 134C | Physics II (Algebra Based) | | | 3 | 2 | 4 |
| | | PHYS | 231C | Physics I (Calculus-Based) | | | 3 | 3 | 4 |
| | | PHYS | 232C | Physics II (Calculus-Based) | | | 3 | 3 | 4 |
| Total Elective Credits | | | | | | | 15 | | |
| Total Minimum Degree Credits Required | | | | | | | 60 | | |

* Students are strongly encouraged to discuss these options with their academic advisor.
Courses with online/virtual labs are not accepted for major Biology and Chemistry courses.

Sustainable Agriculture Technology Certificate

The Certificate in Sustainable Agriculture will prepare future farmers for both the business and science behind running a small profitable farm in Northern New England. This program focuses on sustainable alternatives to industrialized farming and how to be successful in the marketplace without competing with industrialized and specialized large-scale operations. Students will learn the skills necessary to market their product through farmer's markets, roadside stands, and community supported agriculture and restaurants as part of the local food-to-table movement. As advocates for the production of healthy, environmentally friendly food in their community, students will understand the holistic role of the agro-ecosystem and how to balance the economic, environmental and social needs of the farmer and community. Students will specialize through guided pathways based on their agricultural preference, such as greenhouse and high tunnel farming, open field farming, fruit, tree, vineyard, etc.

The proposed program will provide students with the knowledge and local connections to overcome some of the barriers facing a new farmer. Students will:

- Maintain financial records and apply for and procure loans and grants;
- Identify niche markets and properly market materials ensuring a profitable business;
- Gain skills through internships and apprenticeships and establish mentoring relationships with successful agribusinesses;
- Apply the basic principles of environmental science and ecology to sustainable agriculture;
- Read and interpret soil and water chemistry testing results;
- Identify basic agricultural pests and diseases;
- Select plants, order materials, plant and transplant in greenhouses, directly sow seeds and harvest plants;
- Identify trees and use the principles of forest ecology and tree identification to select planting sites and predict how these principals will affect soil type and chemistry;
- Calculate the ratios of fertilizers and nutrients for application per area;
- Prepare a portfolio with information on pests, climate, frost dates, plant types, pest resistance, planting dates, costs and potential markets needed for licensing and financial documentation.

This program is financial aid eligible. To be eligible for federal financial aid, students must submit an official, final high school transcript, or the equivalent documentation that demonstrates high school completion, to the NHTI Admissions Office.

| | | CL LAB CR | | |
|--|--|-----------|---|-----------|
| ACCT | 101C Accounting I | 3 | 0 | 3 |
| BUS | 170C Principles of Marketing | 3 | 0 | 3 |
| AGRI | 110C Sustainable Agriculture I | 3 | 2 | 4 |
| AGRI | 112C Practical Applications for Sustainable Agriculture I (8 weeks) | 1 | 3 | 2 |
| AGRI | 115C Practical Applications for Sustainable Agriculture II (8 weeks) | 1 | 3 | 2 |
| Choose one of the three options below* | | | | |
| XX | xxxC BIOL 115C Introduction to Ecology (Fall only) or | | | |
| | BIOL 117C Introduction to Plant Biology (Fall only) or | | | |
| ENVS | 101C Introduction to Environmental Science (Spring only) | 3 | 2 | <u>4</u> |
| TOTAL CREDITS | | | | 18 |

* Students are strongly encouraged to discuss these options with their academic advisor.

Technical Standards

Students in the Sustainable Agriculture Technology certificate 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/ground to meet farming needs and accomplish tasks;
- Frequent lifting, moving, and transferring of equipment, plants, and/or livestock;
- Sufficient visual and hearing acuity to ensure a safe environment and the ability to respond quickly to clients, 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 clients, colleagues, and professional partners;
- 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 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 laboratories in a timely manner;
- Ability to demonstrate and maintain organizational skills and time management in classes and at the laboratory site;
- Ability to abide by NHTI's Student Code of Conduct.

NHTI reserves the right to amend its technical standards at any time and impose them on all current students.

Technology

Advanced Software Development Certificate

This program consists of four courses which provide students with programming and systems design skills used in business and industry. Students will use different programming languages while designing databases and creating business front ends. ***This program is not Financial Aid eligible.***

Graduates will be prepared for entry-level software development positions, and/or to continue their education with programs such as NHTI's Associate Degree in Information Technology.

Specific Admission Requirements

Successful completion of all courses in the Entry Level Software Development Certificate or permission of the Department Chair of Information Technology.

There is a growing demand for software developers in New Hampshire. In September 2015, the job search site [Indeed.com](https://www.indeed.com) listed over 478 software developers and similar jobs open in the state. National median salaries are \$59,141 (salary.com, September 2015). Job growth in this field is projected at 22% in New Hampshire through 2022 (www.nhes.nh.gov/elmi/products/proj.htm).

| | | CL | LAB | CR |
|----------------------|--------------------------------|----|-----|-----------|
| IST 118C | Mobile Application Development | 2 | 2 | 3 |
| IST 215C | Advanced Windows Programming | 2 | 2 | 3 |
| IST 225C | C# Programming | 2 | 2 | 3 |
| IST 240C | Advanced Web Programming | 2 | 2 | <u>3</u> |
| TOTAL CREDITS | | | | 12 |

Animation and Graphic Game Programming

The degree of Associate in Science with a major in Animation and Graphic Game Programming (AGGP) will be awarded upon successful completion the program.

The business of game development in the United States has passed \$25 billion dollars in annual sales, with the majority (\$15 billion) in software sales. The game development industry is growing, with a wide range of industry applications, such as simulation development in the medical fields, educational training and assessment, military training and deployment, advertising, entertainment and digital media, or any industry incorporating animation and graphics with computer programming skills. Recently, interactive animation development has exploded in the areas of web based multi-player interactions and hand held devices. These changes have been fueled by advancements in new technology, including the massive adoption of social networks and the increasing use of smart phones and other hand held devices, expanding ways to serve interactive content to users.

The AGGP degree program builds upon the skills of computer science, with a strong added emphasis on computer programming and interactive animated applications. For the AGGP students, creating computer programs is a challenging and fascinating process. Math and physics play a key role in animation development and are incorporated in all related courses. The program offers a unique course which blends math, physics, and interactive graphics programming. The students will be introduced to interactive animation development with Adobe Flash and ActionScript. An example of what is possible for students to create in the first course of the AGGP curriculum is available at the following link:

<http://www.metrocast.net/~mtibbals/>.

Educational Objectives

1. Apply theoretical and practical knowledge and skills to analyze and solve complex problems found in professional game development or related software development environments.
2. Gain proficiency in the use of technology and methods used in professional game development or related software development environments.
3. Communicate effectively in multiple modes and situations with an expected level of effectiveness for a game development professional.

Program Learning Outcomes

Upon graduation from this program, students shall have the ability to:

- a) Program in multiple programming languages and environments using object oriented and procedural programming techniques to create and debug sophisticated software applications using different operating systems, device platforms, application frameworks, or game engines.
- b) Critically analyze problems including proposed features and technical issues, decompose problems into sub problems, and develop appropriate solutions.
- c) Demonstrate initiative to prototype and develop solutions using documentation and research.
- d) Apply math and physics to develop solutions for proposed features or technical issues.
- e) Demonstrate discipline specific project management and teamwork skills.
- f) Develop, prepare, and present materials for a personal portfolio and other discipline specific presentations.

Key to the success of Animation and Graphic Game Programming graduates is the development of a web site portfolio which is used to display individual and team work capabilities. The portfolio is used for both obtaining a job and transfer to other colleges and universities.

The AGGP program prepares students for both entry level computer programming jobs and the opportunity for advanced education. Upon program completion, graduates of the program have successfully transferred to programs in computer science, computer game design, artistic animation and graphics.

A sampling of game and graphic companies recently offering jobs to AGGP graduates include:

- | | |
|----------------------------|------------------------------|
| • Blizzard Entertainment | • Lineplot Productions |
| • Crowd Star | • LOLapps |
| • Disney Animation Studios | • Piehead |
| • Game Assembly | • Rampid Interactive |
| • Genuine Interactive | • Sucker Punch (Sony studio) |
| • Hatchling Studios | • Tank Design |
| • Haromix Music | • Turbine Games |

(Earn your AGGP degree through the evening option in four years. Contact Professor Walek at gwalek@ccsnh.edu for details.)

Visit www.nhti.edu/academics/programs-study/computer-programs/animation-and-graphic-game-programming-degree.

Specific Admission Requirements

1. At least three years of college preparatory mathematics (Algebra I, Algebra II and Geometry) with minimum grades of “C”;
2. It is strongly recommended that all AGGP applicants have satisfactorily completed high school level courses in chemistry and physics.
3. Basic working knowledge of one or more current desktop operating systems, word processing, spreadsheets, presentation software, and the Internet; or IST 102C PC Applications with a grade of “C” or higher. *(Students may be required to take computer skills assessment test.)*

FIRST YEAR

| FALL SEMESTER | | | | SPRING SEMESTER | | | |
|---|---|----|--------|--|---|-----|---------|
| | # | CL | LAB CR | | # | CL | LAB CR |
| # AGGP 101C Introduction to Game Design and Creation with Programming | | 2 | 3 3 | # AGGP 131C Introduction to 2-D and 3-D Game Development | | 2 | 3 3 |
| # AGGP 103C Introduction to Content Development | | 2 | 2 3 | # AGGP 140C Digital Art Modeling and Animation | | 2 | 3 3 |
| # CPET 107C Introduction to Programming with C++ | | 2 | 3 3 | # CPET 125C Data Structures | | 2 | 3 3 |
| ENGL 101C English Composition | | 4 | 0 4 | ENGL xxxC Communications Elective++ | | 3 | 0 3 |
| MATH 124C College Algebra (Minimum Math) <i>or</i> | | | | MATH xxxC Math Elective* | | 4 | 0 4 |
| MATH xxxC Math Elective* | | 4 | 0 4 | XX xxxC Science Elective + | | 3-4 | 0-2 3-4 |
| | | | 17 | | | | 19-20 |

SECOND SEMESTER

| FALL SEMESTER | | | | SPRING SEMESTER | | | |
|--|---|----|--------|---|---|----|--------------|
| | # | CL | LAB CR | | # | CL | LAB CR |
| # AGGP 225C 3-D Game Engine Application Development | | 2 | 3 3 | # AGGP 247C Math and Physics for Game Programmers | | 2 | 3 3 |
| # AGGP 231C Application Development and Software Prototyping | | 2 | 3 3 | # AGGP 292C Portfolio Development | | 2 | 3 3 |
| # AGGP 291C Project Definition and Portfolio Specifications | | 1 | 3 2 | # AGGP 294C Animation and Graphic Game Programming Capstone Project | | 2 | 5 4 |
| # CPET 240C Programming for Windows Operating Systems | | 3 | 3 4 | # CPET 252C Networking and Internet Technologies | | 3 | 3 4 |
| VRTS 101C Introduction to Drawing *** | | 2 | 4 4 | XX xxxC Humanities/Fine Arts/Foreign Language Elective *** | | 3 | 0 3-4 |
| XX xxxC Social Science Elective ** | | 3 | 0 3 | | | | 17-18 |
| | | | 19 | TOTAL CREDITS | | | 72-74 |

Indicates major field courses.

* Students are required to complete two math courses. The complete list of Math electives can be found at the following location:

www.nhti.edu/academics/general-education-requirements or page 31 of this document. **Note:** MATH 120C does not meet this requirement

** The complete list of Social Science electives can be found at the following location: www.nhti.edu/academics/general-education-requirements or page 31 of this document.

*** VRTS 101C, and VRTS 193C do not meet this requirement. The complete list of Humanities/Fine Arts/Foreign Language electives can be found at the following location: www.nhti.edu/academics/general-education-requirements or page 30 of this document.

+ BIOL 100C, CHEM 100C, and PHYS 100C do not meet this requirement. The complete list of Science electives can be found at the following location: www.nhti.edu/academics/general-education-requirements or page 31 of this document. Students planning to pursue 4-year degrees should consider taking calculus-based physics and discuss this option with their academic advisors. In order to meet the corequisite and prerequisite requirements for calculus-based physics, some students may need to alter their course sequence shown above; please see your academic advisor for assistance.

++ The complete list of Communication electives can be found at the following location: www.nhti.edu/academics/general-education-requirements or page 30 of this document.

Internship Considerations, see page 152.

Entry Level Software Development Certificate

The Program consists of four courses which provide students with programming and systems design skills used in business and industry. Students will use different programming languages while designing databases and creating business front ends. ***This program is not Financial Aid eligible.***

Graduates will be prepared to enter the workforce in tech support and Quality Assurance roles, and/or to continue their education with programs such as NHTI's Advanced Software Development Certificate.

Please note: The Entry Level Software Development Certificate is a prerequisite for those students who wish to take the Advanced Software Development Certificate.

There is a growing demand for Software Developers in New Hampshire. In September 2015, the job search site Indeed.com listed over 478 software developers and similar jobs open in the state. National median salaries are \$59,141 (salary.com, September 2015). Job growth in this field is projected at 22% in New Hampshire through 2022 (www.nhes.nh.gov/elmi/products/proj.htm).

| | | CL | LAB | CR |
|----------------------|---------------------------------|----|-----|-----------|
| IST 110C | Programming Fundamentals | 2 | 2 | 3 |
| IST 113C | Introduction to Web Programming | 2 | 2 | 3 |
| IST 140C | Database Design and Management | 2 | 2 | 3 |
| IST 210C | Object Oriented Programming | 2 | 2 | <u>3</u> |
| TOTAL CREDITS | | | | 12 |

Game Development Programming Certificate

Students who complete the Game Development Programming Certificate will obtain the skills necessary to enter an internship, apprenticeship, or on the job training program in the field of game development. Completion of this certificate enables these students to undertake preparation for entry-level game development certification exams. Students can also choose to continue their education in the Associate Degree Program in Animation and Graphic Game Programming (AGGP).

The Game Development Programming Certificate consists of six courses in the AGGP curriculum. Students will learn programming, design skills, and multiple programming languages using industry proven game development technologies. While it is recommended that students consider having a computer of their own, it is possible to complete this certificate's instruction and hands-on training in our computer labs.

Students who complete this program will be able to:

- Know the syntax and usage of programming languages used in the game industry;
- Apply Object Oriented Programming design and techniques in software projects;
- Prototype content and game systems;
- Import custom content using content pipelines from one or more major game engines;
- Design and create games in a variety of genres using the programming and/or scripting systems from one or more major game engines;
- Identify and research topics about the game industry and game programming;
- Identify game mechanics and systems found within games genres and specific games;
- Be proficient in the use of one or more major source control systems;
- Understand and apply basic project management planning and techniques.

Courses in this certificate program are offered days and evenings and can be completed in nine months. **This program is financial aid eligible.** To be eligible for federal financial aid, students must submit an official, final high school transcript, or the equivalent documentation that demonstrates high school completion, to the NHTI Admissions Office.

| | | CL | LAB | CR |
|-----------|---|----|-----|-----------|
| AGGP 101C | Introduction to Game Design and Creation with Programming | 2 | 3 | 3 |
| AGGP 103C | Introduction to Content Development | 2 | 2 | 3 |
| AGGP 131C | Introduction to 2-D and 3-D Game Development | 2 | 3 | 3 |
| AGGP 140C | Digital Art Modeling and Animation | 2 | 3 | 3 |
| CPET 107C | Introduction to Programming with C++ | 2 | 3 | 3 |
| CPET 125C | Data Structures | 2 | 3 | <u>3</u> |
| | | | | 18 |

Internship Considerations, see page 152.

Information Technology - Networking

The degree of Associate in Science with a major in Information Technology - Networking is awarded upon successful completion of the program.

The Information Technology - Networking Degree prepares students to start or advance their IT career or to transfer seamlessly to a 4-year college. If you enjoy working with computers, earning an IT degree will help you turn that interest into a professional career. Alumni who specialized in Networking are employed in a wide range of jobs such as configuring and repairing PCs, providing technical support, or designing and administering networks.

All degree candidates study core IT competencies including, personal computer hardware and software, an Introduction to Internet of things, networking for home and small businesses, and server administration. In addition to these core competencies, students concentrate in Network Design and Administration.

Students take the following Cisco Networking courses:

- Introduction to Networks
- Routing and Switching Essentials
- Scaling Networks
- Connecting Networks

These courses prepare students to sit for the Cisco Certified Entry Networking Technician (CCENT) exam and the Cisco Certified Networking Associate (CCNA) exam. NHTI's Information Technology Department is a Cisco Networking Academy and a VMware Academy.

The department also offers a course in Personal Computer Hardware and Software which prepares students to sit for the CompTIA A+ certification, a widely recognized vendor-neutral certification for service technicians.

Through team projects, a required internship, and capstone activities, students find junior or entry-level positions such as:

- Network Administrator
- Applications Development Engineer
- Database Administrator
- Database Designer
- Web Programmer
- System Administrator
- Software Quality Assurance Engineer
- Technical Support Specialist
- Computer Support Consultant
- Help Desk Analyst
- Systems Analyst

Specific Admission Requirements

1. Computer keyboarding skills are assumed.

Senior Internship

All students are required to complete a senior internship in the area of their concentration and career goals. The internship provides real-life experience applying skills learned in the classroom. Employers work closely with the students and professors to ensure an environment that enhances each student's education, provides experience and introduces the student to the IST business environment.

Transfer Opportunities

If your goal is a four-year degree in Information Technology (IT), you can complete your first two years at NHTI in the Associate in Science in Information Technology - Networking program and transfer seamlessly to Southern New Hampshire University or UNH at Manchester.

The [dual admission program](#) with UNH-Manchester requires you to apply only once. Starting at NHTI can save you money for both programs. Contact Department Chair Aaron Conn at (603) 271-6484 x4143 for more information.

| FALL SEMESTER | | | CL | LAB | CR | SPRING SEMESTER | | | CL | LAB | CR |
|---------------|----------|---|----|-----|----------|-----------------|----------|---|----|-----|----------|
| | ENGL 120 | MC Communication: Mindful | 3 | 0 | 3 | | ENGL 101 | MC English Composition: Mindful | 4 | 0 | 4 |
| # IST | 103 | C Programming with Raspberry Pi | 2 | 2 | 3 | # IST | 151 | C Introduction to Networks | 2 | 2 | 3 |
| # IST | 106 | C IT Career Topics | 1 | 0 | 1 | # IST | 170 | C Introduction to Linux | 2 | 2 | 3 |
| # IST | 108 | C Personal Computer Hardware and Software | 2 | 2 | 3 | | MATH 120 | C Quantitative Reasoning or higher level math course | 4 | 0 | 4 |
| PSYC | 105 | C Introduction to Psychology or | | | | XX xxx | C | Science Elective* | 3 | 2 | <u>4</u> |
| SOCI | 105 | C Introduction to Sociology | 3 | 0 | <u>3</u> | | | | | | 18 |
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Internship Considerations, see page 152.

The degree of Associate in Science with a major in Information Technology - Software Development is awarded upon successful completion of the program.

The Information Technology Degree prepares students to start or advance their IT career or to transfer seamlessly to a 4-year college. If you enjoy working with computers, earning an IT degree will help you turn that interest into a professional career. Alumni who specialize in the Software Development degree are now programmers, database administrators or web site programmers.

All degree candidates study core IT competencies including, personal computer hardware and software, an Introduction to Internet of things, networking for home and small businesses, and server administration. In addition to these core competencies, students concentrate in Software Development.

Students use the latest technologies and receive practical hands-on training to design and develop software applications. The program also prepares students for Microsoft Technology Associate (MTA) certification exams.

Topics of study include:

- Object-oriented programming (OOP)
- Data structure and algorithms
- Database design and management
- Mobile Application Development
- Windows forms programming
- Web programming

- Network Administrator
- Applications Development Engineer
- Database Administrator
- Database Designer
- Web Programmer
- System Administrator
- Software Quality Assurance Engineer
- Technical Support Specialist
- Systems Analyst
- Computer Support Consultant
- Help Desk Analyst
- Systems Analyst
- Software Quality Assurance Engineer
- Technical Support Specialist
- Computer Support Consultant
- Help Desk Analyst

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All students are required to complete a senior internship in the area of their concentration and career goals. The internship provides real-life experience applying skills learned in the classroom. Employers work closely with the students and professors to ensure an environment that enhances each student's education, provides experience and introduces the student to the IST business environment.

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The [dual admission program](#) with UNH-Manchester requires you to apply only once. Starting at NHTI can save you money for both programs. Contact Department Chair Aaron Conn at (603) 271-6484 x4143 for more information.

FIRST YEAR

| FALL SEMESTER | | CL | LAB | CR | SPRING SEMESTER | | CL | LAB | CR |
|-----------------------------------|--|----|-----|----------|---|---------------------------------|----|-----|----------|
| ENGL 120MC Communication: Mindful | | 3 | 0 | 3 | ENGL 101MC English Composition: Mindful | | 4 | 0 | 4 |
| # IST | 103C Programming with Raspberry Pi | 2 | 2 | 3 | # IST 110C | Programming Fundamentals | 2 | 2 | 3 |
| # IST | 106C IT Career Topics | 1 | 0 | 1 | # IST 113C | Introduction to Web Programming | 2 | 2 | 3 |
| # IST | 108C Personal Computer Hardware and Software | 2 | 2 | 3 | # IST 140C | Database Design and Management | 2 | 2 | 3 |
| PSYC | 105C Introduction to Psychology or | | | | MATH 124C | College Algebra | 4 | 0 | <u>4</u> |
| SOCI | 105C Introduction to Sociology | 3 | 0 | <u>3</u> | | | | | 17 |
| | | | | 13 | | | | | |

SECOND YEAR

| FALL SEMESTER | | | | CL | LAB | CR | SPRING SEMESTER | | | | CL | LAB | CR |
|--|----------------------------------|--|--|----|-----|----------|------------------------------------|------------------------------|--|--|----|-----|----------|
| ENGL 102MC Introduction to Literature: Mindful | | | | 3 | 0 | 3 | ENGL 294MC Communicating Mindfully | | | | | | |
| # IST 210C | Object Oriented Programming | | | 2 | 2 | 3 | Capstone | | | | 1 | 0 | 1 |
| # IST 218C | Mobile Application Development | | | 2 | 2 | 3 | # IST 215C | Advanced Windows Programming | | | 2 | 2 | 3 |
| # IST 280C | Windows Server Operating Systems | | | 2 | 2 | 3 | # IST 240C | Advanced Web Programming | | | 2 | 2 | 3 |
| # IST 293C | IT Career Development | | | 1 | 2 | 2 | # IST 294C | Senior IT Internship | | | 0 | 8 | 2 |
| MATH 125C | Finite Mathematics | | | 4 | 0 | <u>4</u> | XX xxxC | Science Elective* | | | 3 | 2 | <u>4</u> |
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Information Technology Hardware and Software Certificate

This program consists of four courses which form the common core of all IT curricula. It provides students with the basic hardware and software skills to obtain work in PC repair and entry level help desk, while developing the communication and critical thinking skills valued by all employers. This certificate also provides a foundation for further IT study. Classes can be taken day or evening, or up to 100% online. Students who complete these courses will be eligible to test for the industry-recognized A+ certificate. In July 2015, the job search site Indeed.com listed 65 jobs open in New Hampshire requiring A+ certification. ***This program is not Financial Aid eligible.***

There is a growing demand for computer repair technicians in New Hampshire. Job growth in this field is projected at 22.7% in New Hampshire through 2022 (www.nhes.nh.gov/elmi/products/proj.htm). According to a July 2015 survey by Salary.com, the median salary for entry level computer maintenance technicians in the U.S. was over \$41,000.

| | CL | LAB | CR |
|--|----|-----|-----------|
| ENGL 101C English Composition | 4 | 0 | 4 |
| ENGL 120MC Communication: Mindful | 3 | 0 | 3 |
| IST 108C Personal Computer Hardware and Software | 2 | 2 | 3 |
| MATH 124C College Algebra | 4 | 0 | <u>4</u> |
| TOTAL CREDITS | | | 14 |

Information Technology Microsoft Servers Certificate

This program is not currently accepting new students.

This is an entry level certificate that serves as an introduction to Microsoft Server operating systems. ***This program is not Financial Aid eligible.***

Students who complete this program are eligible to test for the Microsoft Certified Professional Certificate, an industry-recognized certification, and to continue their education with NHTI's IT Virtualization Certificate.

There is a growing demand for network administrators in New Hampshire. Bls.gov reports the national employment for network administrators per 1,000 jobs : 2.704. National median salaries are \$56,730 (salary.com, July 2015). Job growth in this field is projected at 12.8% in New Hampshire through 2022 (www.nhes.nh.gov/elmi/products/proj.htm).

| | CL | LAB | CR |
|--|----|-----|-----------|
| IST 108C Personal Computer Hardware and Software | 2 | 2 | 3 |
| IST 280C Windows Server Operating Systems | 2 | 2 | 3 |
| IST 281C Administering Windows Server | 2 | 2 | 3 |
| IST 284C Advanced Windows Server Configuration | 2 | 2 | <u>3</u> |
| TOTAL CREDITS | | | 12 |

Information Technology Network Associate Certificate

This is the one NHTI certificate focused exclusively on networking, allowing students to develop a high level of expertise and to earn two industry networking certifications. The program consists of a progression of four courses, which can be taken day or evening, or in a hybrid format. **This program is not financial aid eligible.**

Students who complete these courses will be eligible to test for two worldwide industry-recognized certificates:

- Cisco Certified Entry Networking Technician (CCENT)
- CCNA Routing and Switching

Upon successful testing, graduates will be in demand for professional networking positions in a variety of companies. They may also choose to continue their education, e.g. with NHTI's IT VoIP certificate.

There is a growing demand for network technicians in New Hampshire. In July 2015, the job search site [Indeed.com](https://www.indeed.com) listed 63 openings for CCNAs in New Hampshire. [Salary.com](https://www.salary.com) reported median annual salaries for network administrators at \$56,730 nationally, and \$59,907 in Concord, NH in July 2015. State employment statistics for 2012 showed over 1800 positions for network administrators, with job growth projected at 12.8% through 2022 (www.nhes.nh.gov/elmi/products/proj.htm)

| | | | CL | LAB | CR |
|---------------|----------------------------------|--|----|-----|----------|
| IST 151C | Introduction to Networks | | 2 | 2 | 3 |
| IST 153C | Routing and Switching Essentials | | 2 | 2 | 3 |
| IST 251C | Scaling Networks | | 2 | 2 | 3 |
| IST 253C | Connecting Networks | | 2 | 2 | <u>3</u> |
| TOTAL CREDITS | | | | | 12 |

Information Technology Networking Certificate

The Information Technology Networking Certificate Program consists of eight courses which provide students with a strong background in PC and Windows Server essentials. Students will complete four semesters of the CISCO Academy and be prepared to take the Cisco Certified Network Associate certification exam (CCNA) when completed. For more information, contact Department Chair Aaron Conn at aconn@ccsnh.edu or (603) 271-6424 x4143. This program is available days and evenings. **This program is financial aid eligible.** To be eligible for federal financial aid, students must submit an official, final high school transcript to the NHTI Admissions Office.

| | | | CL | LAB | CR |
|---------------|---|--|----|-----|----------|
| IST 108C | Personal Computer Hardware and Software | | 2 | 2 | 3 |
| IST 151C | Introduction to Networks | | 2 | 2 | 3 |
| IST 153C | Routing and Switching Essentials | | 2 | 2 | 3 |
| IST 251C | Scaling Networks | | 2 | 2 | 3 |
| IST 253C | Connecting Networks | | 2 | 2 | 3 |
| IST 263C | Network Security | | 2 | 2 | 3 |
| IST 280C | Windows Server Operating Systems | | 2 | 2 | 3 |
| IST xxxC | IST Elective | | 2 | 2 | <u>3</u> |
| TOTAL CREDITS | | | | | 24 |

Internship Considerations, see page 152.

Information Technology Security Certificate

This certificate prepares students to earn certifications in:

- CompTIA Security+
- Cisco CCNA Security
- Microsoft MCSA Server 2012

Students will have the skills for jobs in Network and Computer Systems Administration and Information Security Analysis, and/or to continue their education, e.g. in NHTI's Microsoft Servers Certificate program. ***This program is not Financial Aid eligible.***

Specific Admission Requirements

Successful completion of IST 108C, IST 153C, and IST 280C, or permission of the Department Chair of Information Technology.

There is a growing demand for network and computer system administrators in New Hampshire. In September 2015, the job search site Indeed.com listed over 35 network technician and 108 information security analysts and similar jobs open in the state. National median salaries are \$55,660 (salary.com, September 2015). Job growth in this field is projected at 30.8% for Information Security Analysts and 12.8% for Computer System Administrators in New Hampshire through 2022 (www.nhes.nh.gov/elmi/products/proj.htm).

| | | CL | LAB | CR |
|----------------------|--|----|-----|-----------|
| IST 165C | Information Security | 2 | 2 | 3 |
| IST 263C | Network Security | 2 | 2 | 3 |
| IST 281C | Administering Windows Server | 2 | 2 | 3 |
| IST 284C | Advanced Windows Server Configurations | 2 | 2 | <u>3</u> |
| TOTAL CREDITS | | | | 12 |

Information Technology Software Development Certificate

The Information Technology Software Development Certificate Program consists of eight courses which provide students with programming and systems design skills used in business and industry. Students will use five different programming languages while designing databases and creating business front ends. Extensive hands-on training is provided in our computer labs with extensive instruction.

This program is recommended for persons who have achieved a level of expertise in their field or who have completed a college degree in a specialty area and need computer applications and programming courses to be more effective in using computer productivity tools for managerial decisions. This program is available days and evenings. ***This program is financial aid eligible.*** To be eligible for federal financial aid, students must submit an official, final high school transcript, or the equivalent documentation that demonstrates high school completion, to the NHTI Admissions Office.

| | | CL | LAB | CR |
|----------------------|---------------------------------|----|-----|-----------|
| IST 110C | Programming Fundamentals | 2 | 2 | 3 |
| IST 113C | Introduction to Web Programming | 2 | 2 | 3 |
| IST 140C | Database Design and Management | 2 | 2 | 3 |
| IST 210C | Object Orientated Programming | 2 | 2 | 3 |
| IST 218C | Mobile Application Development | 2 | 2 | 3 |
| IST 215C | Advanced Windows Programming | 2 | 2 | 3 |
| IST 240C | Advanced Web Programming | 2 | 2 | 3 |
| IST xxxC | IST Elective | 2 | 2 | <u>3</u> |
| TOTAL CREDITS | | | | 24 |

Internship Considerations, see page 152.

Information Technology Tech Support Certificate

The Information Technology Tech Support Certificate Program consists of eight courses which provide students with core IST knowledge and technical support skills used in business and industry. Students will take courses in hardware/software, networking, database, scripting and Windows Server. They will also learn how to apply these skills in a tech support environment. Extensive hands-on training is provided in our computer and network labs.

This program is available days and evenings. **This program is financial aid eligible.** To be eligible for federal financial aid, students must submit an official, final high school transcript, or the equivalent documentation that demonstrates high school completion, to the NHTI Admissions Office.

| | | CL | LAB | CR |
|----------------------|---|----|-----|-----------|
| IST 102C | PC Applications | 3 | 0 | 3 |
| IST 108C | Personal Computer Hardware and Software | 2 | 2 | 3 |
| IST 140C | Database Design and Management | 2 | 2 | 3 |
| IST 151C | Introduction to Networks | 2 | 2 | 3 |
| IST 153C | Routing and Switching Essentials | 2 | 2 | 3 |
| IST 280C | Windows Server Operating Systems | 2 | 2 | 3 |
| IST 293C | IST Career Development | 1 | 2 | 2 |
| IST 294C | Senior IST Internship | 0 | 9 | 3 |
| XX xxxC | Elective approved by Dept. Head | 3 | 0 | <u>3</u> |
| TOTAL CREDITS | | | | 26 |

Internship Considerations, see page 152.

Information Technology Virtualization Certificate

This program is not currently accepting new students.

This certificate focuses on VMWare and Hyper-V virtual servers, in addition to Cisco servers. Knowledge of virtual servers is in demand and growing throughout the private and public sector. ***This program is not Financial Aid eligible.***

Students who complete this program are eligible to test for Cisco Certified Entry Networking Technician (CCENT), a worldwide industry-recognized certification, and will have the skills for jobs in server administration, network support, and virtualization using VMWare and Hyper-V.

Specific Admission Requirements

IST 108C or permission of the Department Chair of Information Technology.

There is a growing demand for server/database administrators in New Hampshire. In August 2015, the job search site Indeed.com listed over 66 open jobs for VMware and 19 open jobs for Hyper-V and similar jobs open in the state. National median salaries for server/database administrators is \$98,438 (salary.com, July 2015). Job growth in this field is projected at 7.4% in New Hampshire through 2022 (www.nhes.nh.gov/elmi/products/proj.htm).

| | | CL | LAB | CR |
|----------------------|----------------------------------|----|-----|-----------|
| IST 140C | Database Design and Management | 2 | 2 | 3 |
| IST 151C | Introduction to Networks | 2 | 2 | 3 |
| IST 153C | Routing and Switching Essentials | 2 | 2 | 3 |
| IST 282C | Virtualization | 2 | 2 | <u>3</u> |
| TOTAL CREDITS | | | | 12 |

Information Technology VoIP (Voice Over IP) Certificate

Voice over IP (VoIP) is a methodology and group of technologies for the delivery of voice communications and multimedia sessions over networks. The IT VoIP Certificate consists of five advanced IT courses which train the student in the configuration, delivery and maintenance of VoIP services. This certificate stacks naturally on top of the IT Entry Level Networking Certificate, and also serves other workers and students who are already at the CCENT (Cisco Certified Entry Networking Technicians) level. Classes can be taken day or evening, or up to 100% online. Students who complete these courses will be eligible to test for two widely-recognized industry certificates:

- CCNA Routing and Switching
- CCNA Security

Upon successful testing, graduates will be in demand for professional networking positions in a variety of companies. ***This program is not Financial Aid eligible.***

There is a growing demand for network administrators in New Hampshire. In July 2015, the job search site [Indeed.com](https://www.indeed.com) listed over 90 jobs for CCNAs open in the state, 17 specifically for VoIP. Median Concord, NH, salaries for first level network administrators were close to \$60,000 at that time, according to a [Salary.com](https://www.salary.com) survey. Job growth in this field is projected at 12.8% in New Hampshire through 2022 (www.nhes.nh.gov/elmi/products/proj.htm).

| | | CL | LAB | CR |
|---------------|----------------------------------|----|-----|----------|
| IST 251C | Scaling Networks | 2 | 2 | 3 |
| IST 253C | Connecting Networks | 2 | 2 | 3 |
| IST 263C | Network Security | 2 | 2 | 3 |
| IST 267C | Cisco VoIP | 2 | 2 | 3 |
| IST 280C | Windows Server Operating Systems | 2 | 2 | <u>3</u> |
| TOTAL CREDITS | | | | 15 |

Linux Certificate

This certificate prepares students to earn their CompTIA Linux+, Linux Professional Institute LPIC-1 Linux Server Professional and the SUSE Certified Linux Administrator certifications. Students will have the skills for jobs in Linux/Unix administration, server administration, and network support. ***This program is not Financial Aid eligible.***

There is a growing demand for Linux administrators in New Hampshire. In September 2015, the job search site [Indeed.com](https://www.indeed.com) listed over 35 Linux administrators and similar jobs open in the state. National median salaries are \$88,704 ([salary.com](https://www.salary.com), September 2015). Job growth in this field is projected at 7.4% in New Hampshire through 2022 (www.nhes.nh.gov/elmi/products/proj.htm).

| | | CL | LAB | CR |
|---------------|---|----|-----|----------|
| IST 108C | Personal Computer Hardware and Software | 2 | 2 | 3 |
| IST 151C | Introduction to Networks | 2 | 2 | 3 |
| IST 170C | Introduction to Linux | 2 | 2 | 3 |
| IST 270C | Advanced Linux | 2 | 2 | <u>3</u> |
| TOTAL CREDITS | | | | 12 |

Internship Consideration, see page 152.

Engineering

Advanced Manufacturing Process Technology

The degree of Associate of Science in Advanced Manufacturing Process Technology is awarded upon successful completion of the program.

The Advanced Manufacturing Process Technology program (AMPT) is designed to give the student a solid foundation of the manufacturing processes related to traditional machine tools and CNC automated machining centers. There are five major interrelated areas of study: application of shop and tool room mathematics; interpretation and understanding of engineering drawings; knowledge of machine tool processes and the basic machine tools: lathe, milling machine, grinder; CNC programming: mills and lathes; and CNC machine operation.

Along with the basic theory of manufacturing processes related to machine tools given in the classroom, it is essential for the student to apply the theory and obtain adequate laboratory time on industry grade equipment to gain the experience necessary for employment. The manufacturing processes major field courses all contain several hours of lab time in the machine shop and/or the CNC lab.

A Certificate program (AMPC) is available which gives introductory theory and limited lab experience in the five areas listed above. In the associate degree program much more lab time is provided as well as a series of successive courses in math, drawings, and machining. Additional topics included in the associate degree program are material property information, heat treatment processes, cutting tool material use and selection, Computer Aided Design (CAD) and Computer Aided Manufacturing (CAM) software, an in-depth study of Geometric Dimensioning & Tolerancing (GD&T), advanced metrology, machine setups, jig and fixture design, high tolerance machining, with an overall emphasis on tool making for student lab projects. All courses in the AMPC certificate transfer into the associate degree program.

Graduates will have the foundation necessary to find employment in industry in positions such as machine operator, entry level machinist, entry level tool maker, CNC machine operator, and/or CNC programmer.

Specific Admission Requirements

Required: A high school diploma or equivalent is required. Grades of "C" or better in both high school Algebra I and Geometry are required.

Recommended: Successful completion of high school courses in trigonometry, engineering drawing, drafting or Computer Aided Design (CAD). A mechanical aptitude with various hand tools and/or power tools is highly recommended. Mechanical aptitude and basic computer skills are recommended.

Employment Outlook, see page 138.

Expected Student Outcomes

Students who successfully complete the certificate will have mastered the following skills:

1. A graduate will be able to read, interpret, analyze, and understand standard engineering drawings that use current industry drawing practices and standards.
2. A graduate will be able to correctly interpret and understand ANSI Y14.5M Geometric Dimensioning & Tolerancing (GD&T) symbols and callouts.
3. A graduate will be able to create basic engineering sketches, including multi-view, section view, and auxiliary views. Students will also be able to create basic CAD drawings using standard drawing practices.
4. A graduate will be able to use a 3-D Solid modeling CAD software program as a problem solving tool to calculate complex geometric and trigonometric math problems.
5. A graduate will have the ability to use and understand various common methods to solve mathematical problems associated with machining and tool making operations. This includes the use of topics and concepts from applied algebra, applied geometry and applied trigonometry.
6. The graduate will be able to use material property data to determine proper cutting tool versus work piece material combinations.
7. The graduate will understand various heat treatment operations in order to alter or change a material property or characteristic.
8. The graduate will know about various tools, the available geometries, cutting tool material selection, and tool holders for traditional and CNC machine tools.
9. The graduate will be able to properly select the appropriate cutting speeds and feeds necessary for a particular machining operation based upon various input variables such as type of operation, work piece condition and geometry, machine rigidity, cutting tool material, etc.
10. Graduates will possess a full knowledge of safety practices and procedures when using tools, machines, or other related equipment. They will act in a professional manner and will observe and follow all safety measures, procedures, practices to protect themselves and others working in the shop environment.
11. Graduates will be able to read and use various micrometer and vernier scale types of measuring instruments. They will be familiar with various standard inspection procedures and the proper use of many types of measuring equipment commonly used in the machine shop.
12. Graduates will be able to create accurate part layouts using standard layout and measuring instruments.
13. Graduates will be able to properly use various hand tools: files, saws, punches, chisels, hammers, screwdrivers, wrenches, etc. to perform bench work either related to prior or post machining operations.

14. Graduates will be able to properly setup both the work piece and cutting tool, select proper speed and feed rates, know the various operation capability, and properly operate each of the following traditional machine tools: engine lathe, vertical milling machine, surface grinder, cutoff saw, handsaw, pedestal grinder.
15. The graduate will have a firm foundation for “tool making” operations. This includes high precision setups, high accuracy machining and inspection, the exploitation of material properties (heat treatment), and the manufacture of jigs, fixtures, and gages.
16. The graduate will have a firm foundation in CNC machining, both programming of G-code and the basic operation of CNC machining centers. This includes writing, editing, and simulation of G-code programs; machine work piece setup; the use of proper tool, work coordinate and cutter compensation offsets; and the overall operation of the machine.
17. The graduate will be able to use CAM software for generation of complex geometry work pieces to generate CNC code. They will be able to take a CAD solid model into the CAM software package and create the tooling and toolpaths to produce CNC G-code.
18. The graduate will manufacture tools requiring many of the aforementioned skills. These tools must pass inspection for engineering drawing conformity, precision, function, workmanship, and aesthetics.

FIRST YEAR

| FIRST SEMESTER | | | SECOND SEMESTER | | |
|--|---|---|-----------------|---|------------------|
| ENGL 120C Communications | 3 | 0 | 3 | ENGL 101C English Composition | 4 0 4 |
| MATH 120C Quantitative Reasoning | 4 | 0 | 4 | # MFET 220C Manufacturing Processes and Machine Tools** | 3 3 4 |
| # MFET 111C Manufacturing and Materials Processing** | 3 | 3 | 4 | # MNFP 114C Applied Shop Mathematics II | 3 0 3 |
| # MNFP 105C Engineering Drawing I | 2 | 2 | 3 | # MNFP 115C Engineering Drawing | 2 2 3 |
| XX xxxC Social Science Elective* | 3 | 0 | <u>3</u> | XX xxxC Humanities/Fine Art/ Foreign Language Elective | 3-4 0 <u>3-4</u> |
| | | | 17 | | 17-18 |

SECOND YEAR

| FIRST SEMESTER | | | SECOND SEMESTER | | |
|---|---|---|-----------------|--|--------------|
| CHEM 105C Chemistry | 3 | 2 | 4 | MCET 205C Materials Science | 3 2 4 |
| # MNFP 110C CNC Programming and Operation I | 3 | 3 | 4 | # MNFP 112C CNC Programming and Operation II | 3 3 4 |
| # MNFP 203C Manufacturing Processes III | 1 | 9 | 4 | # MNFP 204C Manufacturing Processes IV | 1 9 4 |
| MATH xxxC Mathematics Elective | 4 | 0 | <u>4</u> | PHYS 133C Physics I | 3 2 <u>4</u> |
| | | | 16 | | 16 |
| | | | | TOTAL CREDITS | 66-67 |

Indicates major field courses.

* Any course with a prefix of ANTH, ECON, HIST, POLS, PSYC or SOCI (except HIST 104C or HIST 105C)

** All students taking the following courses will be charged the following materials fees: MFET 111C, \$20; and MFET 220C, \$30.

Advanced Manufacturing Processes Certificate

This certificate is designed to provide the entry level manufacturing technician or Computer Numerical Control (CNC) operator with the basic knowledge of machining operations using traditional machine tools and basic CNC programming and CNC machine operation. Included are courses in related shop mathematics and engineering drawing interpretation. The laboratory component of the machining courses will provide the student with hands-on activities on actual machines in the machine shop and the CNC lab. The graduate of this certificate program will have a basic understanding of advanced manufacturing operations and may be able to be hired for entry level traditional machining or CNC machining operations.

This program is financial aid eligible. To be eligible for federal financial aid, students must submit an official, final high school transcript, or the equivalent documentation that demonstrates high school completion, to the NHTI Admissions Office.

Specific Admission Requirements

1. High school diploma or equivalent; submit official transcript/scores with application.
2. Mechanical aptitude and basic computer skills are recommended.

| FIRST YEAR | | | | | | | | | | | | | |
|---------------|-------------------------------|--|--|----|-----|----------|-----------------|--------------------------------|--|--|----|-----|----------|
| FALL SEMESTER | | | | CL | LAB | CR | SPRING SEMESTER | | | | CL | LAB | CR |
| MATH 120C | Quantitative Reasoning | | | 4 | 0 | 4 | MFET 111C | Manufacturing and Materials | | | | | |
| MNFP 105C | Engineering Drawings | | | 2 | 2 | <u>3</u> | | Processing* | | | 3 | 3 | <u>4</u> |
| | | | | | | 7 | | | | | | | 4 |
| SECOND YEAR | | | | | | | | | | | | | |
| FALL SEMESTER | | | | CL | LAB | CR | SPRING SEMESTER | | | | CL | LAB | CR |
| MNFP 110C | CNC Programming & Operation I | | | 3 | 3 | <u>4</u> | MNFP 112C | CNC Programming & Operation II | | | 3 | 3 | <u>4</u> |
| | | | | | | 4 | | | | | | | 4 |
| TOTAL CREDITS | | | | | | | | | | | | 19 | |

* All students taking the following course will be charged the following materials fees: MFET 111C, \$20.

Expected Student Outcomes

Students who successfully complete the certificate will have mastered the following skills:

Basic shop mathematical skills necessary to solve manufacturing related technical problems. This includes basic algebra - solving equations, basic geometry, and right triangle trigonometry.

The ability to read and interpret basic engineering drawings typically used in the manufacturing industry.

Understanding of basic machining operations including turning, milling, drilling, grinding, and sawing, and knowing the various types of machines to accomplish these processes.

Basic CNC machine operation including tool offsets, work offsets, and G-code programming fundamentals.

A basic working knowledge of materials, including cutting tools and work piece materials and their interaction.

Employment Outlook for Advanced Manufacturing Process Technology Degree and Advanced Manufacturing Processes Certificate

Careers in advanced manufacturing are high-quality, middle class jobs, and today's manufacturing employees earn higher wages and receive more generous benefits than many other working Americans. A recent study of New Hampshire employers identified a shortage of technician-level manufacturing production workers. As the aging workforce begins to retire there is already evidence of a skills gap in the current workforce. An adequate supply of skilled workers is needed to support the growth of advanced manufacturing in New Hampshire as well as the overall health of the state economy.

Over the past two decades, New Hampshire's manufacturing economy has been moving away from manual mill work and toward automated, "smart" manufacturing. The technology infusion and high productivity that dominate the advanced manufacturing landscape demand a smart, safe, and sustainable manufacturing workforce. This requires individuals with professionalism, applied science, technology, math, and engineering skills, as well as knowledge of manufacturing principles.

Applied Career Fundamentals for Advanced Manufacturing Certificate

The Applied Career Fundamentals for Advanced Manufacturing Certificate will prepare the student to enter the workforce in an entry level position. It is designed for the student who seeks immediate employment and who may continue his/her education and pursue an Associate Degree in manufacturing. Courses/credit awarded in the Applied Career Fundamentals for Advanced Manufacturing Certificate may count towards a degree program at the issuing college. The colleges will agree to accept in transfer all 6 common core courses, and the 2 elective courses where applicable, through an articulation agreement. [Note: Students are strongly encouraged to consult with an academic advisor to select the courses most appropriate to the student's academic and career goals.]

This program is financial aid eligible. To be eligible for federal financial aid, students must submit an official, final high school transcript, or the equivalent documentation that demonstrates high school completion, to the NHTI Admissions Office.

Specific Admission Requirements

1. High School Diploma or GED required.
2. Must be 18 years or older.

| | | CL | LAB | CR |
|----------------------|--|-----|-----|--------------|
| BUS | 101C Introduction to Business | 3 | 0 | 3 |
| ENGL | 101C English Composition | 4 | 0 | 4 |
| ENGL | 120C Communications | 3 | 0 | 3 |
| IST | 102C PC Applications <i>or</i> | 3 | 0 | 3 |
| CPET | 107C Introduction to Programming with C++ | 2 | 3 | 3 |
| MATH | 120C Quantitative Reasoning <i>or</i> Higher level math* | 4 | 0 | 4 |
| XX | xxxC Any college level lab science course excluding BIOL 100C, CHEM 100C, PHYS 100C** | 3 | 2-3 | 4 |
| XX | xxxC Any course with an MNFP, MCET, MFET, or other approved designation, e.g., MNFP 101 Advanced Manufacturing Processes*** | 3-4 | 0-3 | 3-4 |
| XX | xxxC Any course with an MNFP, MCET, MFET, or other approved designation e.g., MCET 105 Engineering Design*** | 3-4 | 0-3 | <u>3-4</u> |
| TOTAL CREDITS | | | | 27-29 |

* Students would be expected to take placement testing. Those who do not achieve a score consistent with success in college level math should be advised regarding remediation. In addition, students should be counseled concerning their academic and career goals to make the most appropriate course selection. It is possible that courses from other CCSNH colleges will meet these requirements. Higher level math (excluding MATH 129C).

** While any college level lab science course will meet this requirement, students should be counseled concerning their academic and career goals to make the most appropriate course selection. It is possible that courses from other CCSNH colleges will meet these requirements.

*** Students should be counseled concerning their academic and career goals to make the most appropriate course selections. It is possible that courses from other CCSNH colleges will meet these requirements.

Architectural Engineering Technology

The degree of Associate in Science in Architectural Engineering Technology is awarded upon successful completion of the program.

The ARET program combines architecture and engineering theory with a solid foundation in mathematics and science. Students in the program study the architectural design process of a variety of building types and develop skills in sketching and computer aided drawing. Students learn structural and environmental systems theory, methods of construction, statics and strength of building materials, surveying and professional practices.

A 3-year version of this program is available. For details contact Department Chair Liaquat Khan, D.A at (603) 271-6484 x4221 or lkhan@ccsnh.edu.

Graduates of the program are employed with architectural and engineering firms, contractors, surveyors, and in various governmental agencies. Accredited by the ETAC Commission of ABET, <http://www.abet.org>.

NHTI has transfer affiliations with four-year institutions including Boston Architectural Center, State University of New York-Rome, University of New Hampshire and Vermont Technical College.

For information about transferring to other institutions see Academic Requirements & Policies at <https://www.nhti.edu/academics/>. (Credits earned in Engineering Technology at NHTI are fully transferable to all ETAC/ABET-accredited BS of Engineering Technology programs.)

Specific Admission Requirements

1. At least three years of college preparatory mathematics (Algebra I, Algebra II and Geometry) with minimum grades of "C";
2. It is strongly recommended that all architectural engineering technology applicants have satisfactorily completed a high school level course in physics.

FIRST YEAR

Architectural Engineering Technology

| FALL SEMESTER | CL | LAB | CR | SPRING SEMESTER | CL | LAB | CR |
|---|----|-----|----|---|----|-----|----|
| # ARET 103C Architectural Graphics and Sketching | 2 | 2 | 3 | # ARET 104C Architectural Design Studio I | 2 | 2 | 3 |
| # ARET 120C Materials and Methods of Construction | 4 | 0 | 4 | # ARET 150C Statics and Strength of Materials | 3 | 2 | 4 |
| MATH124C College Algebra | 4 | 0 | 4 | # ARET 192C Revit Architecture | 3 | 0 | 3 |
| PHYS 133C Physics I (Algebra-Based) | 3 | 2 | 4 | ENGL 101C English Composition | 4 | 0 | 4 |
| | | | 15 | MATH140C Precalculus | 4 | 0 | 4 |
| | | | | | | | 18 |

SECOND YEAR

Architectural Engineering Technology

Architectural Focus

| FALL SEMESTER | CL | LAB | CR | SPRING SEMESTER | CL | LAB | CR |
|--|-----|-----|-------|---|-----|-----|--------------|
| # ARET 202C Architectural Design Studio II | 2 | 2 | 3 | # ARET 250C Environmental Systems | 3 | 0 | 3 |
| # CVET 220C Surveying | 2 | 3 | 3 | # ARET 270C Construction Management | 3 | 0 | 3 |
| # CVET 240C Timber and Steel Design | 3 | 2 | 4 | # ARET 297C Architectural Design Studio III | 2 | 2 | 3 |
| ENGL 125C Communication and the Literature of Science and Technology | 3 | 0 | 3 | # CVET 235C Reinforced Concrete Design | 2 | 3 | 3 |
| PHYS 135C Physics II (Algebra-Based) | 3 | 2 | 4 | XX xxxC Social Science Elective* | 3-4 | 0 | 3-4 |
| XX xxxC Humanities/Fine Arts/ Foreign Language Elective | 3-4 | 0 | 3-4 | | | | 15-16 |
| | | | 20-21 | TOTAL CREDITS | | | 68-70 |

SECOND YEAR

Architectural Engineering Technology

Civil Focus

| FALL SEMESTER | CL | LAB | CR | SPRING SEMESTER | CL | LAB | CR |
|--|-----|-----|-------|--|----|-----|--------------|
| # CVET 201C Civil CAD | 2 | 2 | 3 | # ARET 270C Construction Management | 3 | 0 | 3 |
| # CVET 220C Surveying | 2 | 3 | 3 | # CVET 235C Reinforced Concrete Design | 2 | 3 | 3 |
| # CVET 240C Timber and Steel Design | 3 | 2 | 4 | # CVET 297C Highway Design | 3 | 2 | 4 |
| ENGL 125C Communication and the Literature of Science and Technology | 3 | 0 | 3 | # MATH205C Calculus I | 4 | 0 | 4 |
| PHYS 135C Physics II (Algebra-Based) | 3 | 2 | 4 | XX xxxC Social Science Elective* | 3 | 0 | 3-4 |
| XX xxxC Humanities/Fine Arts/ Foreign Language Elective | 3-4 | 0 | 3-4 | | | | 17-18 |
| | | | 20-21 | TOTAL CREDITS | | | 70-72 |

Indicates major field courses.

* Any course with a prefix of ANTH, ECON, HIST, POLS, PSYC or SOCI (except HIST 104C and HIST 105C).

Building Inspector and Plans Examiner Certificate

This 18-credit-hour certificate program prepares Building Inspectors and Plans Examiners to critically examine permit applications and plans for residential, commercial, and other building types and to subsequently ensure that the construction of buildings with permits is conducted in accordance with and within the provisions of relevant building codes. It is the responsibility of building inspectors and plans examiners to review and inspect various building types from permit applications through construction phases to ensure that they are safe and structurally sound. For additional information, contact Department Chair Liaquat Khan, D.A at (603) 271-6484 x4221 or lkhan@ccsnh.edu.

This program is financial aid eligible. To be eligible for federal financial aid, students must submit an official, final high school transcript, or the equivalent documentation that demonstrates high school completion, to the NHTI Admissions Office.

Specific Admission Requirements

1. High School Algebra I & Algebra II, each with grades of C or higher and High School Geometry with a grade of C or higher, ***OR*** prior experience in architecture, engineering, construction, and materials manufacturing industries as evidenced by academic degrees, industry-accepted credentials, employment experience, etc.
2. One-page essay explaining reasons to join the Building Inspector & Plan Examiner Certificate Program

| FALL SEMESTER | | CL | LAB | CR |
|----------------------|--|-----------|-----|----------|
| BIPE 101C | Introduction to the International Code Council (ICC) Codes | 3 | 0 | 3 |
| BIPE 105C | Construction Document Reading | 3 | 0 | <u>3</u> |
| | | | | 6 |
| SPRING SEMESTER | | | | |
| BIPE 110C | Plan Review | 3 | 0 | 3 |
| BIPE 115C | State Construction Laws | 2 | 2 | <u>3</u> |
| | | | | 6 |
| FALL SEMESTER | | | | |
| BIPE 120C | Legal Aspects of Enforcement | 3 | 0 | 3 |
| BIPE 125C | Building Inspector Skills (Capstone) | 3 | 0 | <u>3</u> |
| | | | | 6 |
| TOTAL CREDITS | | 18 | | |

Civil Engineering Technology

The degree of Associate in Science in Civil Engineering Technology is awarded upon successful completion of the program.

The Civil Engineering Technology (CVET) program responds to employer needs for graduates who can function effectively in the areas of design and maintenance of highway infrastructure, as well as structural, civil, environmental, sustainability, and an array of other construction jobs requiring specific training and education in the area of civil engineering. This program would be of interest to individuals considering jobs in the civil engineering, civil engineering technology, construction management, surveying, and environmental engineering fields. In addition, the program provides a solid background for students seeking to transfer into baccalaureate institutions with civil engineering, civil engineering technology, environmental engineering technology, surveying, construction management, and fire safety engineering programs.

As Civil Engineering Technology majors, students will learn to solve design and engineering problems by utilizing skills learned in civil engineering, mathematics, and physics courses. General education courses such as English, economics and ethics provide additional skills and knowledge required to address both technical and workplace issues. The CVET program culminates in a capstone project or independent study utilizing a wide spectrum of STEM (science, technology, engineering and math) skills.

For additional information, contact Department Chair Liaquat Khan, D.A at (603) 271-6484 x4221 or lkhan@ccsnh.edu.

Please note: The Civil Engineering Technology program is not ETAC of ABET's accredited yet. However, the department plans to seek the ETAC of ABET's accreditation as soon as it is prepared to do so.

Specific Admission Requirements

1. At least three years of college preparatory mathematics (Algebra I, Algebra II and Geometry) with minimum grades of "C";
2. It is strongly recommended that all engineering technology applicants have satisfactorily completed high school level courses in chemistry and physics.

FIRST YEAR

| FALL SEMESTER | CL | LAB | CR | SPRING SEMESTER | CL | LAB | CR |
|---|----|-----|----------|---|----|-----|----------|
| # ARET 103C Architectural Graphics and Sketching | 2 | 2 | 3 | # ARET 104C Architectural Design Studio I | 2 | 2 | 3 |
| # ARET 120C Materials and Methods of Construction | 4 | 0 | 4 | # ARET 150C Statics & Strength of Materials | 3 | 2 | 4 |
| CHEM105C Chemistry | 3 | 2 | 4 | # ARET 192C Revit Architecture | 3 | 0 | 3 |
| MATH124C College Algebra | 4 | 0 | 4 | ENGL 101C English Composition | 4 | 0 | 4 |
| PHYS 133C Physics I (Algebra-Based) | 3 | 2 | <u>4</u> | MATH140C Pre-Calculus | 4 | 0 | <u>4</u> |
| | | | 19 | | | | 18 |

SECOND YEAR

| FALL SEMESTER | CL | LAB | CR | SPRING SEMESTER | CL | LAB | CR |
|--|----|-----|----------|--|----|-----|-----------|
| # CVET 201C Civil CAD | 2 | 2 | 3 | # CVET 202C Soil Mechanics and Foundation Design | 2 | 2 | 3 |
| # CVET 220C Surveying | 2 | 3 | 3 | # CVET 235C Reinforced Concrete Design | 2 | 3 | 3 |
| # CVET 240C Timber and Steel Design | 3 | 2 | 4 | # CVET 245C Hydrology/Drainage Design | 3 | 0 | 3 |
| ENGL 125C Communication and the Literature of Science and Technology | 3 | 0 | 3 | # CVET 297C Highway Design | 3 | 2 | 4 |
| MATH205C Calculus I | 4 | 0 | 4 | XX xxxC Social Science Elective* | 3 | 0 | <u>3</u> |
| XX xxxC Humanities/Fine Arts/ Foreign Language Elective | 3 | 0 | <u>3</u> | | | | 16 |
| | | | 20 | TOTAL CREDITS | | | 73 |

Indicates major field courses, grade of "C-" or higher required.

* Any course with a prefix of ANTH, ECON, HIST, POLS, PSYC or SOCI (except HIST 104C and HIST 105C).

Internship Considerations, see page 152.

Computer Aided Design – Architectural Concentration Certificate

This 18 credit-hour certificate program is designed for students who plan to be CAD operators in the field of architecture. Upon successful conclusion of the CAD certificate program, participants will be able to effectively create 2D as well as 3D drawings in CAD and to model and visualize 3D objects for project presentations. For additional information, contact Department Chair Liaquat Khan, D.A at (603) 271-6484 x4221 or lkhan@ccsnh.edu. This program is available part time and evenings only. **This program is financial aid eligible.** To be eligible for federal financial aid, students must submit an official, final high school transcript, or the equivalent documentation that demonstrates high school completion, to the NHTI Admissions Office.

| FALL SEMESTER | | CL | LAB | CR |
|----------------------|--------------------------------------|----|-----|-----------|
| ARET 101C | AutoCad 2D | 3 | 0 | 3 |
| IST 102C | PC Applications | 3 | 0 | <u>3</u> |
| | | | | 6 |
| SPRING SEMESTER | | | | |
| ARET 102C | AutoCAD 3D | 3 | 0 | 3 |
| ARET 194C | Microstation | 3 | 0 | <u>3</u> |
| | | | | 6 |
| FALL SEMESTER | | | | |
| ARET 103C | Architectural Graphics and Sketching | 2 | 2 | 3 |
| ARET 192C | Revit Architecture | 3 | 0 | <u>3</u> |
| | | | | 6 |
| TOTAL CREDITS | | | | 18 |

Computer Engineering Technology

The degree of Associate in Science in Computer Engineering Technology will be awarded upon successful completion of all program requirements.

The Computer Engineering Technology program provides degree candidates with both academic and technical learning experience relevant to the hardware and software systems currently used in industry. Computer engineering technologists work with professional engineers, scientists, medical doctors, business professionals, and manufacturing managers in setting up various computer platforms, installing software packages, and programming, troubleshooting and/or interfacing computers with various types of equipment. The curriculum also includes microprocessor technology, fundamentals of electronics, personal computer architecture, windows applications programming and a computer project.

A 3-year version of this program is available. For details contact Department Chair Frank Polito at (603) 271-6484 x4278 or fpolito@ccsnh.edu.

Graduates secure positions as computer programmers in C++ Object Oriented Programming, Java, Visual C++, C#, SQL and real-time Relay Ladder Logic. Other positions that graduates have attained are network or systems administrators, web site developers, and hardware and software troubleshooters. Upon graduation, some may choose to further their education in the fields of Computer Engineering Technology, or Computer Science with high degrees of transferability to major colleges and universities throughout the country. Accredited by the ETAC Commission of ABET, <http://www.abet.org>.

NHTI has transfer affiliations with four-year institutions including Northeastern University, UNH-Manchester, University of New Hampshire, and Wentworth Institute of Technology.

For information about transferring to other institutions see Academic Requirements & Policies at <https://www.nhti.edu/academics/>. (Credits earned in Engineering Technology at NHTI are fully transferable to all ETAC/ABET-accredited BS of Engineering Technology programs.)

Specific Admission Requirements

1. At least three years of college preparatory mathematics (Algebra I, Algebra II and Geometry) with minimum grades of "C";
2. It is strongly recommended that all engineering technology applicants have satisfactorily completed high school level courses in chemistry and physics.

| FIRST YEAR | | | | | |
|---|-----|-----|------------|--|--------------|
| FALL SEMESTER | CL | LAB | CR | SPRING SEMESTER | CL LAB CR |
| # CPET 107C Introduction to Programming with C++ | 2 | 3 | 3 | # CPET 125C Data Structures | 2 3 3 |
| # ELET 101C Electric Circuits | 3 | 3 | 4 | # ELET 144C Embedded Microsystems | 3 3 4 |
| # ELET 115C Digital Fundamentals | 2 | 3 | 3 | ENGL 120C Communications or | |
| ENGL 101C English Composition | 4 | 0 | 4 | ENGL 125C Communication and the Literature of Science and Technology | 3 0 3 |
| MATH124C College Algebra | 4 | 0 | <u>4</u> | MATH140C Precalculus | 4 0 4 |
| | | | 18 | PHYS 133C Physics I (Algebra-Based)*** or | 3 2 4 |
| | | | | PHYS 231C Physics I (Calculus-Based)*** | 3 3 <u>4</u> |
| | | | | | 18 |
| SECOND YEAR | | | | | |
| FALL SEMESTER | CL | LAB | CR | SPRING SEMESTER | CLLAB CR |
| # CPET 240C Programming for Windows Operating Systems | 3 | 3 | 4 | # CPET 215C Integrated Circuits and Interfacing | 3 3 4 |
| # CPET 260C Computer Real Time Interfacing | 3 | 3 | 4 | # CPET 222C Data Communications and Internetworking | 3 3 4 |
| # CPET 301C Computer Project Definition | 1 | 0 | 1 | # CPET 252C Networking and Internet Technologies | 3 3 4 |
| MATH 205C Calculus I** | 4 | 0 | 4 | # CPET 303C Computer Project | 1 4 3 |
| PHYS 135C Physics II (Algebra-Based)*** or | 3 | 2 | 4 | XX xxxC Humanities/Fine Arts/Foreign Language Elective* | 3 0 <u>3</u> |
| PHYS 232C Physics II (Calculus-Based)*** | 3 | 3 | 4 | | |
| XX xxxC Social Science Elective* | 3-4 | 0 | <u>3-4</u> | | |
| | | | 20-21 | | 18 |
| TOTAL CREDITS | | | | | 74-75 |

Indicates major field courses. In order to fulfill the program degree requirements and to meet the prerequisite requirement of subsequent major field courses, students are required to earn a grade of "C-" or higher in each major field course. In addition to major field courses, students are required to earn a grade of "C-" or higher in each math and physics course.

Note: Students are required to complete at least one of the following math courses: MATH 205C, MATH 206C, MATH 208C, or MATH 210C.

* For a list of courses that fulfill these requirements, see the "General Education Requirements" at <https://www.nhti.edu/academics/general-education-requirements> or page 30 of this document. Students who plan to pursue a 4-year degree at UNH-Durham or UNH-Manchester should consult with their advisor to ensure that the courses selected will also meet the UNH "Discovery" requirements.

** MATH 206C is strongly recommended for students that plan to pursue a bachelor's degree.

*** Students planning to pursue 4-year degrees should consider taking calculus-based physics and discuss this option with their academic advisors. In order to meet the corequisite and prerequisite requirements for calculus-based physics, some students may need to alter their course sequence shown above; please see your academic advisor for assistance.

For students with a need for a reduced course load, a 3-year version of this program is available. Contact the Department Chair for details.

Internship Considerations, see page 152.

Computer Technology Programming (Advanced) Certificate

This Certificate Program will provide state-of-the-art capability in using computers, offering marketable programming skills and in-depth understanding and manipulation of hardware. Credits attained in the Certificate Program are transferable to the Computer Engineering Technology Associate Degree.

In order to provide these advanced courses to a wide audience, participants will only need a beginning background in C++ programming and fundamental use of the Microsoft Windows operating system. This can be accomplished by taking IST 108 Personal Computer Hardware and Software and CPET 107 Introduction to Programming with C++ at NHTI. As a corequisite, the ability to understand and use algebraic equations is key to the success of programming. MATH 124 College Algebra is recommended for this purpose. For more information, contact Department Chair Frank Polito at (603) 271-6484 x4278 or fpolito@ccsnh.edu. This program is available days and evenings. ***This program is not Financial Aid eligible.***

| Required initial course: | | CL | LAB | CR |
|--|--|----|-----|----------------|
| CPET 125C | Data Structures | 2 | 3 | <u>3</u> 3 |
| AND any three of the following (check prerequisites in course descriptions): | | | | |
| CPET 240C | Programming for Windows Operating Systems | 3 | 3 | 4 |
| CPET 222C | Data Communications & Internetworking | 3 | 3 | 4 |
| CPET 252C | Networking and Internet Technologies | 3 | 3 | 4 |
| CPET 260C | Computer Real Time Interfacing | 3 | 3 | <u>4</u> 12 |
| TOTAL CREDITS | | | | 15 |

Electronic Engineering Technology

The degree of Associate in Science in Electronic Engineering Technology will be awarded upon successful completion of the program.

The Electronic Engineering Technology program provides a balance of theory and practical applications to prepare degree candidates to enter the various areas of the electronics field or continue their studies toward advanced degrees. Accredited by the ETAC Commission of ABET, www.abet.org.

The curriculum includes fundamental courses in circuit analysis, linear and digital electronics and programming in the C++ language. Advanced courses incorporate fundamental concepts in practical applications with emphasis on systems analysis, design and implementation. Advanced areas of study include machine and assembly language programming applications with embedded microsystems, communications and electronic fabrication utilizing computer aided design (CAD) and engineering design automations (EDA) tools. Students complete the program by applying their technical knowledge in a design project course.

A 3-year version of this program is available. For details contact Department Chair Frank Polito at (603) 271-6484 x4278 or fpolito@ccsnh.edu.

Graduates secure positions in technical fields such as manufacturing, microelectronics, automation and telecommunications. The program also provides the first two years of study towards a Bachelor of Science in Engineering Technology at ETAC/ABET-accredited colleges and universities or students may continue in other degree programs at other colleges and universities.

NHTI has transfer affiliations with four-year institutions including Maine Maritime Academy, UNH-Manchester, University of New Hampshire and Wentworth Institute of Technology.

For information about transferring to other institutions see Academic Requirements & Policies at <https://www.nhti.edu/academics/>. (Credits earned in Engineering Technology at NHTI are fully transferable to all ETAC/ABET-accredited BS of Engineering Technology programs.)

Specific Admission Requirements

1. At least three years of college preparatory mathematics (Algebra I, Algebra II and Geometry) with minimum grades of "C";
2. It is strongly recommended that all engineering technology applicants have satisfactorily completed high school level courses in chemistry and physics.

FIRST YEAR

| FALL SEMESTER | CL | LAB | CR | SPRING SEMESTER | CL | LAB | CR |
|--|----|-----|----------|--|----|-----|----------|
| # CPET 107C Introduction to Programming with C++ | 2 | 3 | 3 | # ELET 102C Circuit Analysis | 3 | 3 | 4 |
| # ELET 101C Electric Circuits | 3 | 3 | 4 | # ELET 110C Electronics I | 3 | 3 | 4 |
| # ELET 115C Digital Fundamentals | 2 | 3 | 3 | ENGL 120C Communications <i>or</i> | | | |
| ENGL 101C English Composition | 4 | 0 | 4 | ENGL 125C Communication and the Literature of Science and Technology | 3 | 0 | 3 |
| MATH 124C College Algebra | 4 | 0 | <u>4</u> | MATH 140C Precalculus | 4 | 0 | 4 |
| | | | 18 | PHYS 133C Physics I (Algebra-Based)*** <i>or</i> | 3 | 2 | 4 |
| | | | | PHYS 231C Physics I (Calculus-Based)*** | 3 | 3 | <u>4</u> |
| | | | | | | | 19 |

SECOND YEAR

| FALL SEMESTER | CL | LAB | CR | SPRING SEMESTER | CL | LAB | CR |
|---|----|-----|----------|---|-----|-----|------------|
| # ELET 144C Embedded Microsystems | 3 | 3 | 4 | # ELET 215C Advanced Digital Electronics | 3 | 3 | 4 |
| # ELET 210C Electronics II | 3 | 3 | 4 | # ELET 251C Advanced Topics in Electronics | | | |
| # ELET 305C Design Project Preparation | 1 | 5 | 3 | <i>and/or</i> | 3 | 3 | 4 |
| MATH 205C Calculus I | 4 | 0 | 4 | MATH 206C Calculus II** | 4 | 0 | 4 |
| PHYS 135C Physics II (Algebra-Based)*** <i>or</i> | 3 | 2 | 4 | # ELET 306C Senior Design Project | 2 | 5 | 4 |
| PHYS 232C Physics II (Calculus-Based)*** | 3 | 3 | <u>4</u> | XX xxxC Humanities/Fine Arts/Foreign Language Elective* | 3 | 0 | 3 |
| | | | 19 | XX xxxC Social Science Elective* | 3-4 | 0 | <u>3-4</u> |
| | | | | | | | 18-23 |

TOTAL CREDITS

74-79

Indicates major field courses. In order to fulfill the program degree requirements and to meet the prerequisite requirement of subsequent major field courses, students are required to earn a grade of "C-" or higher in each major field course. In addition to major field courses, students are required to earn a grade of "C-" or higher in each math and physics course.

Note: Students are required to complete a minimum of 1 math course from "Math List A". If ELET 251C is substituted for MATH 206C, students are required to complete a minimum of 1 math course from "Math List B".

Math List A: MATH 206C, MATH 208C, MATH 210C

Math List B: MATH 205C, MATH 208C, MATH 210C

* For a list of courses that fulfill these requirements, see the "General Education Requirements" at <https://www.nhti.edu/academics/general-education-requirements> or page 30 of this document. Students who plan to pursue a 4-year degree at UNH-Durham or UNH-Manchester should consult with their advisor to ensure that the courses selected will also meet the UNH "Discovery" requirements.

- ** It is strongly recommended that students who plan to pursue a bachelor's degree in engineering take both MATH 206C and MATH 210C.
- *** Students planning to pursue 4-year degrees should consider taking calculus-based physics and discuss this option with their academic advisors. In order to meet the corequisite and prerequisite requirements for calculus-based physics, some students may need to alter their course sequence shown above; please see your academic advisor for assistance.

Electronic Technology Certificate

This Certificate Program is designed to accommodate people with technical backgrounds who are interested in learning electronics, e.g., those with liberal arts-based computer science degrees working in areas of software where basic electronics knowledge is needed. The credits attained in the Certificate in Electronic Technology are applicable to the Electronic Engineering Technology Associate Degree.

In order to provide these advanced courses to a wide audience, participants will only need a basic background of College Algebra (MATH 124C), and basic knowledge of digital electronics (ELET 115C), and must demonstrate computer literacy (IST 102C or IST 108C) which will be offered on a regular basis at NHTI. For more information contact Department Chair Frank Polito at (603) 271-6484 x4278 or fpolito@ccsnh.edu. **This program is financial aid eligible.** To be eligible for federal financial aid, students must submit an official, final high school transcript, or the equivalent documentation that demonstrates high school completion, to the NHTI Admissions Office.

| | CL | LAB | CR |
|--|----|-----|-----------|
| ELET 101C Electric Circuits | 3 | 3 | 4 |
| ELET 102C Circuit Analysis | 3 | 3 | 4 |
| ELET 110C Electronics I | 3 | 3 | 4 |
| ELET 210C Electronics II | 3 | 3 | 4 |
| ELET 215C Advanced Digital Electronics | 3 | 3 | <u>4</u> |
| TOTAL CREDITS | | | 20 |

Prerequisites:

| | | | |
|--------------------------------|---|---|---|
| MATH124C College Algebra | | | |
| (or equivalent background) | 4 | 0 | 4 |
| Demonstrated computer literacy | | | |

Industrial Design Technology

The degree of Associate in Science in Industrial Design Technology is awarded upon successful completion of the program.

The Industrial Design Technology program is designed to prepare students for entry level positions in the field of Industrial design.

Students master design fundamentals by taking courses in drawing, 2-Dimensional design, 3-Dimensional design, engineering design, and manufacturing principles. Emphasis is also placed on the study of mathematics and physical sciences while English and social science courses broaden and improve the student's communication skills.

A series of more advanced/specialized courses focus on the application and integration of new and existing technologies to both product design and product manufacture. Topics include material explorations in plastics, wood and metal, CAD software and human factors.

Graduates will have the foundation necessary to pursue a bachelor's degree and to take advantage of opportunities for life-long learning or professional development.

FIRST YEAR

| FALL SEMESTER | | | CL | LAB | CR | SPRING SEMESTER | | | CL | LAB | CR |
|--|---|---|----------|-----|----|--------------------------------------|---|---|----------|-----|----|
| # ARET 103C Architectural Graphics and Sketching | 2 | 2 | 3 | | | MATH 124C College Algebra <i>or</i> | | | | | |
| ENGL 101C English Composition | 4 | 0 | 4 | | | higher level math course | 4 | 0 | 4 | | |
| MCET 105C Engineering Design* | 4 | 0 | 4 | | | MCET 106C Advanced CAD Modeling | | | | | |
| | | | | | | (SolidWorks) | 2 | 2 | 3 | | |
| # VRTS 101C Introduction to Drawing | 2 | 4 | <u>4</u> | | | # VRTS 103C Two-Dimensional Design | 2 | 3 | 3 | | |
| | | | 15 | | | # VRTS 104C Three-Dimensional Design | 2 | 2 | 3 | | |
| | | | | | | XXX xxxC Science Elective | 3 | 2 | <u>4</u> | | |
| | | | | | | | | | 17 | | |

SECOND YEAR

| FALL SEMESTER | | | CL | LAB | CR | SPRING SEMESTER | | | CL | LAB | CR |
|---|---|---|----------|-----|----|--|---|---|-----------|-----|----|
| # INDS 110C History of Industrial Design <i>or</i> | | | | | | ENGL 120C Communications <i>or</i> | | | | | |
| # VRTS 111C Survey of Western Art History <i>or</i> | | | | | | ENGL 125C Communication and the Literature | | | | | |
| # VRTS 115C History of Modern Art | 3 | 0 | 3 | | | of Science and Technology | 3 | 0 | 3 | | |
| # INDS 150C Industrial Design Studio 1 | 3 | 3 | 4 | | | # INDS 250C Industrial Design Studio 2 | 3 | 3 | 4 | | |
| # INDS 232C Business of Design | 3 | 0 | 3 | | | # INDS 242C Manufacturing Techniques | 3 | 0 | 3 | | |
| MFET 111C Manufacturing and | | | | | | PSYC 105C Introduction to Psychology <i>or</i> | | | | | |
| Materials Processing* | 3 | 3 | 4 | | | PSYC 209C Educational Psychology <i>or</i> | | | | | |
| VRTS 193C Introduction to Photoshop <i>or</i> | | | | | | PSYC 225C Social Psychology | 3 | 0 | <u>3</u> | | |
| VRTS 195C Introduction to Illustrator CC | 3 | 0 | <u>3</u> | | | | | | 13 | | |
| | | | 17 | | | TOTAL CREDITS | | | 62 | | |

Indicates major field courses.

* All students taking the following courses will be charged the following materials fees: MCET 105C, \$10 and MFET 111C, \$20.

Specific Admission Requirements

Note: Applicants should be aware that all associate degree programs at NHTI require successful completion of at least one semester of college level mathematics. Therefore, the college strongly recommends that all applicants successfully complete high school Algebra I with a grade of "C" or higher prior to admission. Those students whose placement testing does not demonstrate readiness for college level mathematics may require more than two years to complete their degree.

The degree of Associate in Science in Manufacturing Engineering Technology is awarded upon successful completion of the program.

The Manufacturing Engineering Technology program is designed to educate technicians in the manufacturing field. The program emphasizes mathematics and science courses to give students the knowledge to cope with changing technology. Course work incorporates the theory and practice of manufacturing from planning and layout through the operation and control phases. Extensive computer applications are part of the program, including computer-aided drawing/modeling and computer-aided manufacturing. English and social sciences are taught as part of the program to broaden the student's perspective and improve communication skills.

A 3-year version of this program is available. For details contact Department Chair Joe Cunningham at (603) 271-6484 x4416 or jcunningham@ccsnh.edu

Accredited by the ETAC Commission of ABET, <https://www.abet.org/>. For information about transferring to other institutions see Academic Requirements & Policies at <https://www.nhti.edu/academics>.

1. At least three years of college preparatory mathematics (Algebra I, Algebra II and Geometry) with minimum grades of “C”;
2. It is strongly recommended that all engineering technology applicants have satisfactorily completed high school level courses in chemistry and physics.

Indicates major field courses.

* Any course with a prefix of ANTH, ECON, HIST, POLS, PSYC or SOCI (except HIST 104C and HIST 105C).

** All students taking the following courses will be charged the following materials fees: MFET 111C, \$20; MFET 220C, \$30; and MCET 105C, \$10.

Mechanical Engineering Technology

The degree of Associate in Science in Mechanical Engineering Technology is awarded upon successful completion of the program.

The Mechanical Engineering Technology program is designed to educate technicians in the mechanical engineering field. The program includes courses in the areas of design, manufacturing and controls. Mathematics and physical sciences are emphasized to give students the basic knowledge to cope with changing technology. Course work incorporates theory and practice along with extensive computer applications including computer-aided drawing/modeling and design. English and social science courses are taught as part of the program to broaden and improve communication skills.

Graduates are employed in positions such as assistant engineer, machine designer, engineering sales representative, engineering laboratory technician, technical supervisor and CAD operator.

A 3-year version of this program is available. For details contact Department Chair Joe Cunningham at (603) 271-6484 x4416 or jcunningham@ccsnh.edu.

Those graduates who have maintained the appropriate GPA are eligible for entrance into the third year of study toward a Bachelor of Science in Engineering Technology degree at the University of New Hampshire in Manchester (dual admission program). NHTI has transfer affiliations to four-year institutions including: Maine Maritime Academy, Southern New Hampshire University, UNH-Manchester, and University of New Hampshire. Accredited by the ETAC Commission of ABET, <https://www.abet.org/>. For information about transferring to other institutions see Academic Requirements & Policies at <https://www.nhti.edu/academics>.

Specific Admission Requirements

1. At least three years of college preparatory mathematics (Algebra I, Algebra II and Geometry) with minimum grades of "C";
2. It is strongly recommended that all engineering technology applicants have satisfactorily completed high school level courses in chemistry and physics.

| FIRST YEAR | | | | | | | | | |
|--|-----|-----|------------|---|-----|---|------------|--------------|--------|
| FALL SEMESTER | | | | SPRING SEMESTER | | | | | |
| | CL | LAB | CR | | | | | CL | LAB CR |
| ENGL 101C English Composition | 4 | 0 | 4 | ENGL 120C Communications or | | | | | |
| # MCET 105C Engineering Design** or | 4 | 0 | 4 | ENGL 125C Communications and the Literature | | | | | |
| # MFET 111C Manufacturing and | | | | of Science and Technology | 3 | 0 | 3 | | |
| Materials Processing** | 3 | 3 | 4 | # MCET 105C Engineering Design** or | 4 | 0 | 4 | | |
| MATH124C College Algebra | 4 | 0 | 4 | # MFET 111C Manufacturing and | | | | | |
| PHYS 133C Physics I (Algebra-Based) | 3 | 2 | <u>4</u> | Materials Processing** | 3 | 3 | 4 | | |
| | | | 16 | # MCET 150C Statics and Strength of Materials | 3 | 2 | 4 | | |
| | | | | MATH 140C Precalculus | 4 | 0 | 4 | | |
| | | | | PHYS 135C Physics II (Algebra-Based) | 3 | 2 | <u>4</u> | | |
| | | | | | | | 19 | | |
| SECOND YEAR | | | | | | | | | |
| FALL SEMESTER | | | | SPRING SEMESTER | | | | | |
| | CL | LAB | CR | | | | | CL | LAB CR |
| CHEM 105C Chemistry | 3 | 2 | 4 | # MCET 205C Material Science | 3 | 2 | 4 | | |
| # MCET 250C Dynamics and Mechanical Design I | 3 | 2 | 4 | # MCET 229C Thermodynamics and Heat Transfer | 3 | 0 | 3 | | |
| # MFET 202C Measurement and Control | 3 | 2 | 4 | # MCET 260C Mechanical Design II | 3 | 2 | 4 | | |
| MATH 205C Calculus I | 4 | 0 | 4 | XX xxxC Humanities/Fine Arts/ | | | | | |
| XX xxxC Social Science Elective* | 3-4 | 0 | <u>3-4</u> | Foreign Language Elective | 3-4 | 0 | 3-4 | | |
| | | | 19-20 | XX xxxC Technical Elective | 3-4 | 0 | <u>3-4</u> | | |
| | | | | | | | 17-19 | | |
| TOTAL CREDITS | | | | | | | | 71-74 | |

Indicates major field courses.

* Any course with a prefix of ANTH, ECON, HIST, POLS, PSYC or SOCI (except HIST 104C and HIST 105C).

** All students taking the following courses will be charged the following materials fees: MFET 110C, \$20; and MCET 105C, \$10.

Robotics and Automation Engineering Technology

The Robotics and Automation Engineering Technology (RAET) program is designed to prepare engineering technologists for employment in the field of advanced manufacturing.

Students master engineering fundamentals by taking courses in engineering design, manufacturing processes, computer programming, circuit theory, and digital electronics. Emphasis is also placed on the study of mathematics and physical science while English and social science courses broaden and improve the student's communication skills.

A series of more advanced/specialized courses focus on the application and integration of new and existing technologies to both product design and product manufacture. Topics include robotics, machine vision, process automations, programmable logic controllers, motion control, and the use of computers for design and manufacture.

The degree of Associate in Science in Robotics and Automation Engineering Technology is awarded upon successful completion of the program. Graduates will have the foundation necessary to pursue a bachelor's degree and to take advantage of opportunities for life-long learning and professional development.

Specific Admission Requirements

1. At least three years of college preparatory mathematics (Algebra I, Algebra II and Geometry) with minimum grades of "C";
2. It is strongly recommended that all engineering technology applicants have satisfactorily completed high school level courses in chemistry and physics.

FIRST YEAR

| FALL SEMESTER | | | | SPRING SEMESTER | | | |
|---|----|-----|----------|--|----|-----|----------|
| | CL | LAB | CR | | CL | LAB | CR |
| # ELET 101C Electric Circuits | 3 | 3 | 4 | # CPET 107C Introduction to Programming | | | |
| # ELET 115C Digital Fundamentals | 2 | 3 | 3 | with C++ | 2 | 3 | 3 |
| ENGL 120C Communications or | | | | # CPET 215C Integrated Circuits & Interfacing* | 3 | 3 | 4 |
| ENGL 125C Communication and the Literature of | | | | ENGL 101C English Composition | 4 | 0 | 4 |
| Science and Technology | 3 | 0 | 3 | MATH140C Precalculus | 4 | 0 | 4 |
| MATH124C College Algebra | 4 | 0 | 4 | # MFET 111C Manufacturing and Materials | | | |
| # MCET 105C Engineering Design^ | 4 | 0 | <u>4</u> | Processing^ | 3 | 3 | <u>4</u> |
| | | | 18 | | | | 15-19 |

SECOND YEAR

| FALL SEMESTER | | | | SPRING SEMESTER | | | |
|-------------------------------------|----|-----|----------|--------------------------------------|----|-----|-----------|
| | CL | LAB | CR | | CL | LAB | CR |
| MATH205C Calculus I | 4 | 0 | 4 | ELET 102C circuit Analysis* | 3 | 3 | 4 |
| MFET 210C Lean Manufacturing ** | 3 | 0 | 3 | # MFET 231C Production Systems | | | |
| PHYS 133C Physics | 3 | 2 | 4 | (offered Spring only)** | 3 | 0 | 3 |
| # RAET 205C PLC Programming | 2 | 3 | 3 | PHYS 135C Physics II | 3 | 2 | 4 |
| # RAET 210C Robotics & Automation I | 3 | 3 | 4 | # RAET 220C Robotics & Automation II | 3 | 3 | 4 |
| XX xxxC Social Science Elective* | 3 | 0 | <u>3</u> | XX xxxC Humanities/Fine Art/ | | | |
| | | | 18-21 | Foreign Language Elective | 3 | 0 | <u>3</u> |
| | | | | | | | 11-18 |
| | | | | TOTAL CREDITS | | | 69 |

Indicates major field course.

^ All students taking the following courses will be charged the following materials fees: MFET 111C, \$20; and MCET 105C, \$10.

* Students must take either CPET 215C in the spring semester of their first year **OR** ELET 102C in the spring semester of their second year.

** Students must take either MFET 210 (offered in the second year Fall semester only) **OR** MFET 231C (offered in the second year Spring semester only).

*** Any course with a prefix of ANTH, ECON, HIST, POLS, PSYC or SOCI; PSYC 102C recommended.

Mathematics

Mathematics

The degree of Associate in Science in Mathematics will be awarded upon successful completion of the program.

The Associate in Science in Mathematics degree will provide students with the first two years of study required for a bachelor's degree in many STEM disciplines, including applied mathematics, mathematics education, physics, statistics, and engineering. Upon graduation with this degree, students will have completed most, if not all, of the math, physics, and computer programming requirements for an engineering focus at the baccalaureate level. The degree will also prepare students for employment upon graduation in STEM positions and, for students currently working in STEM fields, the Associate in Science in Mathematics degree can advance their careers.

Specific Admission Requirements

1. High school pre-calculus with a grade of "C" or higher.
2. High school physics with a lab with a grade of "C" or higher.

FIRST YEAR

| FALL SEMESTER | CL | LAB | CR | SPRING SEMESTER | | | |
|--|----|-----|----------|---|---|---|----------|
| # CPET 107C Introduction to Programming with C++ | 2 | 3 | 3 | ENGL 101C English Composition | 4 | 0 | 4 |
| INDL 101C STEM in the First Year Experience | 3 | 0 | 3 | # MATH 2xxC Math Elective | 4 | 0 | 4 |
| # MATH 205C Calculus I | 4 | 0 | 4 | # MATH 206C Calculus II | 4 | 0 | 4 |
| # PHYS 231C Physics I (Calculus-Based) | 3 | 3 | <u>4</u> | # PHYS 232C Physics II (Calculus-Based) | 3 | 3 | <u>4</u> |
| | | | 14 | | | | 16 |

SECOND YEAR

| FALL SEMESTER | CL | LAB | CR | SPRING SEMESTER | | | |
|--|----|-----|----------|--|-----|----|--------------|
| ENGL 125C Communication and the Literature of Science and Technology | 3 | 0 | 3 | # MATH 210C Differential Equations | 4 | 0 | 4 |
| # MATH 208C Multivariable Calculus | 4 | 0 | 4 | # MATH 290C Senior Project/Internship | 0 | 12 | 4 |
| # MATH 2xxC Math Elective | 4 | 0 | 4 | XX xxxC Humanities/Fine Arts/ Foreign Language Elective | 3 | 0 | 3 |
| PHYS 233C Physics III (Calculus-Based) or | 3 | 3 | 4 | XX xxxC General Education Elective | 3-4 | 0 | <u>3-4</u> |
| XX xxxC Lab Science Elective* | 3 | 2 | 4 | | | | 14-15 |
| XX xxxC Social Science Elective | 3 | 0 | <u>3</u> | TOTAL CREDITS | | | 62-63 |
| | | | 18 | | | | |

Indicates major field courses.

* Any lab course with prefix SCI, BIOL CHEM, ENVS or GEOL except BIOL 100C and CHEM 100C.

Internship Considerations, see this page.

Internship Considerations

NHTI has developed excellent practicum opportunities for our students to foster hands-on learning while simultaneously receiving credit. Nonetheless, the college's first priority must be to ensure that patients/clients/children/families are not placed in jeopardy by students during learning experiences. Therefore, students in internship, externship, practicum, service learning, and clinical experiences must demonstrate sufficient emotional stability to withstand the stresses, uncertainties and changing circumstances that characterize patient/client/child/family responsibilities. 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 and confidentiality with employees, customers, and/or patients/clients/children and their families.

About NHTI

Important Consumer Information about NHTI—Concord’s Community College is available to prospective students, current students, faculty and staff, and community members at the links provided below. Hard copies are available upon request by contacting: NHTI, Public Information Office at (603) 230-4001 or nhtiinfo@ccsnh.edu.

| Topic | Go to ... |
|---|--|
| Campus Safety Information on the Annual Security Report, parking policies, important contact numbers, campus security and related topics. | www.nhti.edu/student-life/campus-safety |
| NHTI ALERTS Emergency Notification System Helps ensure rapid and reliable mass communication to students, faculty, and staff by cell phones (text/voice), landlines, and email in the event of a crisis, emergency or weather closure/delay. | www.nhti.edu/student-life/campus-safety/nhti-alerts |
| Financial Aid Information regarding financial assistance, in addition to that presented in this catalog (page 16), includes, but is not limited to, federal, state and institutional assistance, how aid will be disbursed, the rights and responsibilities of students receiving financial assistance and criteria for measuring satisfactory academic progress. | www.nhti.edu/admissions/financial-aid www.ccsnh.edu/about-ccsnh/financial-aid-Scholarships |
| State Authorization NHTI Concord’s Community College is authorized to offer undergraduate programs (general, professional, technical and transfer programs, along with certificate and short term training programs) in the state of New Hampshire. | www.nhti.edu/community-visitors/about-nhti/state-authorization |
| Academic Requirements and Policies Information about academic requirements and policies, including graduation, graduation rates and retention. | www.nhti.edu/academics/requirements-policies |
| Family Educational Rights and Privacy Act Information about the Family Educational Rights and Privacy Act (FERPA), a Federal law that protects the privacy of student education records. | www2.ed.gov/policy/gen/guid/fpco/ferpa/index.html www.nhti.edu/academics/registrars-office/confidentiality-student-records |
| Tuition and Fee Payment Information about payment due date, how to see your account charges, how to pay your charges, refunds and non-payment information. | www.nhti.edu/student-resources/bursar |
| Alcohol and Other Drug Policies Information about Alcohol and Other Drug Policies at NHTI. | www.nhti.edu/student-life/campus-safety/alcohol-and-other-drug-policies |
| Student Record Information Information about your account, including current charges and payments, refunds, transcripts, grades, class schedules, financial aid status and more. | https://sis.ccsnh.edu/PROD/twbkwbis.P_WWWLogin/ |
| Student Handbook A comprehensive guide for academic and student policies and procedures, and a resource for various services and activities available to the campus community. | www.nhti.edu/student-life/student-handbook |
| Sexual Misconduct/Title IX Resources The Community College System of New Hampshire (CCSNH) is committed to creating and maintaining a positive and productive learning environment for students, a professional setting for its employees, and a community atmosphere grounded in mutual respect, dignity and integrity. In light of these objectives, CCSNH prohibits: 1) all manner of discrimination in the administration of its education and employment programs and practices on the basis of unlawful criteria including race, color, religion, national or ethnic origin, age, sex, sexual orientation, marital status, disability, gender identity or expression, genetic information, and veteran status, as defined under applicable law; and 2) will not in any instance tolerate harassment, intimidation or bullying behavior of any kind. | www.nhti.edu/student-life/campus-safety/sexual-misconducttitle-ix-resources |
| Equity in Athletics Information for NHTI regarding the Equity in Athletics Disclosure Act (EADA), intended to make prospective students aware of a school’s commitment to providing equitable athletic opportunities for its men and women athletes. | www.nhti.edu/sites/default/files/content/documents/eadasurvey.pdf http://ope.ed.gov/athletics |
| Bookstore/Textbook Policies Information about the NHTI Bookstore including textbook pricing, refunds, and buy back. | http://www.bkstr.com/nhticoncordccstore/home |

| Topic | Go to ... |
|--|--|
| Campus Safety Information on the Annual Security Report, parking policies, important contact numbers, campus security and related topics. | www.nhti.edu/student-life/campus-safety |
| NHTI ALERTS Emergency Notification System Helps ensure rapid and reliable mass communication to students, faculty, and staff by cell phones (text/voice), landlines, and email in the event of a crisis, emergency or weather closure/delay. | www.nhti.edu/student-life/campus-safety/nhti-alerts |
| Student Complaints Information on how to file a complaint about NHTI to the NH Department of Education Division of Higher Education. | www.education.nh.gov/highered/compliance-allegation.htm |

Statement of Nondiscrimination

NHTI is committed to creating and maintaining a positive and productive learning environment for students, a professional setting for its employees, and a community atmosphere grounded in mutual respect, dignity, and integrity. In light of these objectives, NHTI prohibits all manner of discrimination in the administration of its employment programs and practices on the basis of unlawful criteria including race, color, religion, national or ethnic origin, age, sex, sexual orientation, marital status, disability, gender identify or expression, genetic information, and veteran status, as defined under applicable law. This statement is a reflection of the mission of NHTI and refers to, but is not limited to, the provisions of the following laws, as amended:

- Title VI and VII of the Civil Rights Act of 1964, as amended
- The Age Discrimination Act of 1967 (ADEA)
- Title IX of the Education Amendment of 1972
- Section 504 of the Rehabilitation Act of 1973
- The Americans with Disabilities Act of 1990 (ADA)
- Section 402 of the Vietnam Era Veteran's Readjustment Assistance Act of 1974
- NH Law Against Discrimination (RSA 354-A)
- Genetic Information Nondiscrimination Act of 2008

Inquiries regarding discrimination may be directed to Laura Pantano, NHTI Title IX and Civil Rights/Equity Coordinator, SC229 Student Center, NHTI—Concord's Community College, 31 College Drive, Concord, NH 03301-7412, (603) 271-6484 x4128; Email: nhtititleix@ccsnh.edu, or Sara A. Sawyer, Director of Human Resources for the Community College System of NH, 26 College Drive, Concord, NH 03301, (603) 230-3503. Inquiries may also be directed to the US Department of Education, Office of Civil Rights, 8th Floor, 5 Post Office Square, Boston, MA, 02109-4557, 617-223-9662, FAX: 617-223-9669, TDD: 617-223-9695, or Email: OCR_Boston@ed.gov; the NH Commission for Human Rights, 2 Chenell Drive, Concord, NH 03301, (603) 271-2767, FAX: (603) 271-6339; and/or the Equal Employment Opportunity Commission, JFK Federal Building, 475 Government Center, Boston, MA, 02203, 617-565-3200 or 1-800-669-4000, FAX: 617-565-3196, TTY: 617-565-3204 or 1-800-669-6820.

Statement of Availability in Alternative Formats

This publication is available in alternate formats upon request. Please contact the Office of Accessibility Services at (603) 230-4000 x4117 or x4432 tty (603) 223-2316.

This catalog is a guide to NHTI—Concord's Community College and does not constitute a contract between NHTI and former, current or future students. Its contents are subject to revision at any time. NHTI reserves the right to change tuition, fees, courses, policies, programs, services, structure, and personnel as required and without notice.

Flexible Learning Options

Students can earn Associate Degrees and Certificates during the evening, online, and in hybrid format.

- **Flexible class format.** We offer many options for students with busy schedules including courses in the evening, and online.
- **Affordability.** We offer the most affordable college education in New Hampshire.
- **Begin or continue your college experience at NHTI.** Many courses are transferable to four-year colleges and universities.
- **We're here to help.** Academic Advising services are available in the evening, during the day and online.
- **Extensive summer offerings.** We offer over 200 courses during our summer session including day, evening, online, hybrid and one-week classes.
- **Winter Sessions.** We offer several one week sessions during winter break.

Now Offering Seven Degree and Twelve Certificate Programs Entirely Online

| Programs | Associate Degrees | Certificates |
|-------------------------------------|--|--|
| Accounting | Accounting | Accounting (Basic) Accounting (Advanced) |
| Business | Business Administration | Management |
| Education | Early Childhood Education | Early Childhood Education Early Childhood Education (Advanced) Education Special Education |
| English | English | |
| General Studies | General Studies | |
| Health & Science | | Medical Coding |
| Justice / Legal Studies | Criminal Justice | |
| Sport, Recreation & Tourism Studies | Hospitality & Tourism Management | Event & Conference Management Hotel Administration Travel & Tourism Wedding Planning Management |

**For more information, contact our Admissions at
(603) 230-4011 or nhtiadm@ccsnh.edu.**

Business Training Center

NHTI Business Training Center provides training services to business and industry through two unique avenues, Customized Training and Open Enrollment classroom training. Both areas offer programs and workshops designed to meet new and existing company's specific training goals and objectives. We specialize in the development, planning, and delivery of quality educational and technical training to businesses in topic areas such as:

- Computer Applications
- Presentation Skills
- Conflict resolution & Problem solving
- Time Management
- Coaching and mentoring
- Emotional Intelligence & Interpersonal Skills
- Leadership & Management
- Communication Skills
- Customer Service & Sales
- Holistic Topics
- Stress Management Skills
- Professional Development for Dental Hygienists & Assistants

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