Choosing a college is an exciting and challenging undertaking. Embrace the moment. Let us help you think through the process. We think you may determine that Northern Maine Community College is the smartest choice.

If you are looking for a small community college where the faculty gets to know their students — NMCC is the place for you.

If you are looking for an affordable education to improve your quality of life — NMCC is the place for you.

If you are looking for a college where faculty and staff are committed to making a positive difference in your life — NMCC is the place for you.

If you want to earn an associate degree in liberal studies with a goal of transferring to complete a bachelor’s degree — NMCC is the place for you.

If you want to learn essential skills that will lead to an enjoyable and meaningful career — NMCC is the place for you.

Encouragement, experience and excellence are at the heart of our institution. We embrace our vision statement — Transforming lives through education — and use it as our guide in providing a welcoming learning environment. Please consider giving us the opportunity to work with you as you plan the next steps to your future.

Thank you for exploring our catalog and I invite you to visit our website at www.nmcc.edu to learn more. You can also visit us on Facebook and Instagram. I also encourage you to consider visiting our campus. You can contact the Admissions Office at 207-768-2785 or admissions@nmcc.edu.

Sincerely,

Timothy Crowley
President
Northern Maine Community College was authorized in 1961 by the Maine Legislature and became operational in 1963. One of seven colleges in the Maine Community College System, the campus is located one mile from the center of Presque Isle. The college has undergone ongoing improvements and renovations, and has modern facilities to house its programs.

NMCC currently offers more than 30 full-time associate degree, advanced certificate and certificate programs. A wide range of credit and non-credit courses are also offered in the evening, during the summer term and online. All individuals are encouraged to enroll in programs considered nontraditional for their gender. Qualified people with disabilities are also encouraged to apply and are provided appropriate support services.

Most programs are designed to give students the technical knowledge and skills as well as the essential general education with which to pursue a career after graduation. The liberal studies program offers students the opportunity to obtain their first two years of a baccalaureate credential before transferring to another college or university. Many graduates of technical programs choose to continue their education at an institution offering a baccalaureate degree. Several transfer agreements with other credited institutions assist students in continuing their education.

Institutional Accreditation

Northern Maine Community College is accredited by the New England Commission of Higher Education (NECHE), one of seven regional higher education accrediting bodies in the United States. Through its evaluation activities the Commission provides public assurance about the educational quality of degree-granting institutions that seek or wish to maintain accreditation.

Each of the standards articulates a dimension of institutional quality. In applying the standards, the Commission assesses and makes a determination about effectiveness of the institution as a whole.

As such, it is not a guarantee of every course or program offered, or of the competence of individual graduates. Rather, it provides reasonable assurance about the quality of opportunities available to students who attend the institution.

Vision Statement

Transforming lives through education.

The Mission of the College

Northern Maine Community College is committed to maintaining its tradition of providing high-quality career and transfer programs that lead to associate degrees, certificates, and specialized training necessary for an educated, skilled and adaptable workforce. Through its affordable programs of study, courses, and specialized-training seminars, the College is a catalyst for economic growth and the development of human potential.

Core Values

The faculty, staff, alumni, and current students of NMCC are committed to the following core values:

- Student centered: We offer a learning environment focused on supporting students as they strive toward their individual success.
- Excellence in learning: We provide quality teaching and learning experiences as a means of promoting life-long learning to all.
- Diversity: We promote mutual respect and equality as a means of recognizing and embracing diversity.
- Service: We foster excellence in service to the College and the community, including business, industry and society.
- Integrity: We subscribe to and promote high standards of ethics and integrity; understanding that they are the foundation upon which our reputation is built.
- Sustainability: We practice continuous improvement as a means to being relevant to the economy, workforce, environment and future of the College.

Diversity Statement

The concept of diversity encompasses acceptance and respect. It includes but is not limited to ability, age, class, culture, education, ethnicity, family structure, gender, ideologies, political beliefs, race, religion, sexual orientation, style and values. Diversity is each of us and all of us.

Awards

The College awards the associate in applied science, the associate in science and the associate in arts degrees, as well as certificate and advanced certificate credentials.

NMCC Philosophy of General Education

The general education core provides broad exposure to the main fields of human knowledge (humanities, social sciences, sciences, and mathematics) to provide the foundational knowledge, skills and values of an educated person, support students in mastering a technical field and becoming active and responsible citizens.

An educated person is fully literate, able to read, write, listen, speak, and think with clarity and precision; has the capability for lifelong learning, including the skills of information literacy and the ability to think critically; understands and is able to relate scientific and technological knowledge to the issues that affect the quality of human life on this planet; uses numerical data with ease and precision; and uses the aforementioned knowledge and their experience to find meaning and purpose in life.

An educated person engages in work that is fulfilling and does it to the best of their ability; understands their role as a citizen with a logical system of ethics and values; and is able to apply those values and morality everyday within society in a reasoned and rational manner. To that end, the faculty has identified what they deem to be the essential knowledge, skills, and values of an educated person.

Rodney Smith Wellness Center

The Rodney Smith Wellness Center features an open, naturally-lit design and offers high-quality, user-friendly strength-training machines available to full-time students at no cost. The facility is designed to support your personal wellness as well as prepare you for the physical demands of your chosen field of work.

This 4,000 square-foot facility is fully staffed and equipped with LifeFitness equipment, including cardio units with individual LCD screens and interactive apps for use during workouts. The certified trainers can help you individualize and personalize your routines.

The Wellness Center offers a variety of group classes such as zumba, circuits, spin classes, yoga and coordinated hiking trips (charges may apply). Visit the Center to learn more about the equipment, hours of operation and special classes or activities available.
ADMISSIONS

Completion of a four-year high school program or a state high school equivalency certificate is required for admission to the associate degree and certificate programs offered at NMCC. Other admission criteria are specified in the matrix on page 11. A rolling admission policy affords candidates the opportunity to apply and be considered for acceptance throughout the year, but early application (9-10 months prior to the beginning of a given school year) is recommended because of competition and enrollment capacities established for each program. Some programs are subject to a competitive admission process.

All programs are offered to all genders. Students are encouraged to enroll in programs considered nontraditional for their gender. Qualified persons with physical, learning or health disabilities are also encouraged to apply and are provided appropriate support services.

Application Procedure

The following procedures constitute the admission process:

1. Submit an NMCC application.
2. A complete high school transcript, for all years attended, must be submitted to the Admissions Office. Current high school seniors must include grades for the ranking periods completed at the time of their application to NMCC.
3. GED/HiSET test scores must be submitted to the Admissions Office by those who have not received a high school diploma.
4. College transcripts must be submitted to the Admissions Office by applicants who have attended other colleges or postsecondary schools, including transcripts for dual enrollment college classes taken during high school.
5. Placement testing scores (SAT, Accuplacer, etc.) may be required. Prospective students with a native language other than English, will be required to demonstrate a proficiency in the English language. The Test of English as a Foreign Language (TOEFL), administered by the National Testing Service, will be made part of the applicant’s file. Minimum scores required; BT=85 or pBT=61.
6. Campus tours are strongly recommended.
7. Meet with an Admissions Counselor. An interview is required for some programs.

Conditional Admission

Some students are admitted with conditions, including, but not limited to, an on-campus developmental studies program in reading, writing and/or mathematics. The conditions in a given applicant’s acceptance letter typically must be completed during the first semester of attendance and are removed upon successful completion of the specified requirement.

Transfer Credit

1. Applicants requesting transfer credit must submit their request to the Admissions Office, preferably prior to enrollment. Requests for transfer credit after admission follows the Prior Learning Assessment process. Courses accepted for transfer credits are not included as part of any student’s grade-point average at NMCC. Official college transcript is required.
The College’s policy is to accept no more than six credit hours from another institution while the student is currently enrolled in a prescribed two-year program at NMCC. Determination will be made on an individual basis.

1. A student wishing to attend another institution while enrolled at NMCC must make a written request.
2. Request must be approved by the Registrar Office.
3. The written approval and final grades are to be submitted to be recorded on the permanent transcript as transfer credit.
4. For transfer courses to be accepted, a minimum grade of C is required. Courses accepted as a transfer credit are not included as part of a student’s grade point average at NMCC.

II. Credit for occupational/major courses may be issued to individuals enrolled in or having completed a registered apprenticeship program may be awarded up to 24 credit hours. Assessment may be fulfilled by one or more of the following methods:

1. Successful completion of a recognized apprenticeship training program approved by the Maine State Apprenticeship Council.
2. Applicants who have successfully completed a Journeyman’s Examination may submit a written application for lab credit.
3. Applicants presently enrolled or having completed in-house training, which formal apprenticeship training or examinations are not used.

III. Individuals entering nursing and allied health programs with advanced standing (upgrading credential) or re-entering the program after a break in attendance, may be required to take or repeat all major courses within the program. Related science courses must be repeated if they were taken more than 10 years prior.

Services for Students with Disabilities

Students applying for admission to the College are encouraged to indicate any physical disability, learning disability or health problem that may require accommodations to the classroom or residential life environment. Requests for special accommodations must be submitted in writing to the director of counseling at least three weeks prior to admissions testing and/or the first day of classes each semester.

Students are also responsible for providing appropriate and current documentation from a qualified professional that supports such requests. In some cases, students may be required (at their own expense) to undergo re-evaluation. Accommodations must be approved by the dean of students.

Full-time, Part-time & Non-degree Students

Students who are admitted to a program of study at the college may choose to enroll as either full-time or part-time students in any given semester.

NMCC defines a full-time student as one who enrolls for 12 credit hours or more per semester. Most agencies and programs, including financial aid, veterans’ assistance, the Social Security Commission and insurance benefits, also define a full-time course load as 12 credits per semester.

Anyone interested in taking one or more courses without enrolling in a degree program may do so by registering for the course(s) during registration periods. Course pre-requisites and co-requisites apply. Non-degree students do not need to apply for admission to the college in order to take courses.

New England Regional & New Brunswick Student Programs

Students who are legal residents of any New England state may be eligible for admission consideration under the New England Regional Student Program. Students in this program will pay tuition equal to 150% of applicable resident tuition.

Students admitted under the MCCS/NBCC agreement are eligible to take classes at in-state tuition rates. Not all programs are available under this agreement, and applicants must first contact the admission office at their local New Brunswick community college. All other New Brunswick residents are eligible to receive the New England Regional Program tuition rate of 150% of applicable resident tuition.

Academic Skills Assessment

NMCC uses multiple measures to assess academic skills including transcripts and test scores (SAT, PSAT, HSET, GED, Accuplacer). Performance on testing may affect a student’s acceptance into a program in the college. Results are used for appropriate placement in English, reading and mathematics courses. Performance on testing may affect a student’s acceptance into a program in the college. Results are used for appropriate placement in English, reading and mathematics courses.
Immunization

Maine Law (22-MRSA§6359) requires that all students born after 1956 attending any public or private postsecondary institution in Maine have on file at the institution a “Certificate of Immunization” signifying that they are in compliance with the above stated Maine law, as amended. Some programs will require additional medical clearance. Students enrolled in only online courses are exempt from the immunization requirements.

PRIOR LEARNING ASSESSMENT PROCESS

Prior learning is a term used to describe learning that a person acquires outside a traditional academic environment. This may have been acquired through work experience, employer training programs, military, non-credit courses or seminars, and volunteer work.

Prior learning assessment (PLA) is a term used to describe the process by which an individual’s experiential learning is assessed and evaluated for purposes of awarding college credit. NMCC has several approaches to PLA to help students save time and money on their way to achieving a college degree.

1. National standardized exams in specified disciplines such as Advanced Placement (AP) exams, College Level Examination Program (CLEP) tests, and Dantes Subject Standardized Tests (DSST). The College awards credit for examinations based on current American Council on Education (ACE) recommendations.
2. Foreign Language Achievement Testing Service (FLATS) exams.
3. Proficiency Credit - Certificates, Examinations and Licenses from evaluated non-college programs.
4. NMCC challenge exams
5. Portfolio review
6. Military review
7. Articulation agreements

Student Eligibility for Prior Learning Credits

1. Students must be matriculated in one of the College’s degree programs.
2. Students will have a requirement(s) in their academic program to which prior learning credit could apply.

Award of PLA Credit

• Credit for prior learning will be awarded based on assessment of documented learning, which demonstrates achievement (at a grade level of C or higher) of learning outcomes for a specific requirement/discipline area elective.
• The College has all course descriptions, objectives and learning outcomes written for each catalog course, which is available for students seeking a prior learning assessment.
• Students may earn prior learning credit for any graduation requirement at any point in their program for which they demonstrate equivalent learning, unless there is unique program accreditation requirement restricting this.
• The award of prior learning credit is subject to New England Commission of Higher Education (NECHE) accrediting agency standards (revised for July 2016). These standards cap PLA credits in certificate programs of 30 or fewer credits to 25%. Credits earned by PLA are not recognized in the residency requirement of 25% of associate degree credits.
• All types of prior learning acquired more than ten years from the date of NMCC matriculation are subject to review through non exclusion.
• Prior to a formal review, faculty and other academic advisors will provide guidance, but not assurances, of the number of credits that may be awarded.
• A student may not receive credit twice for courses that have been awarded through PLA.
• NMCC is committed to transparency in the award or denial of academic PLA credit and the College’s academic appeal process applies to PLA awards.
• When credit is awarded, students will receive notification from the Registrar’s Office.
• Students and advisors should be aware whether PLA credit will satisfy credit load requirements for veteran benefits funding or other similar third party financial assistance programs.

Transcription of PLA Credit

• Prior learning credits can be used to satisfy any degree/program requirement.
• Maine Community College System (MCCS) uses a standard coding system for each method of PLA as reflected in the transcript’s key.
• The College will award its own course title and number to the prior learning credit.
• When the credit is transferred from another institution of higher education, it retains its own course title and number.
• Credits awarded via any prior learning method indicate that learning has been assessed for that credit at a grade of C or better.
• Prior learning credits do not carry quality points and are not calculated in the grade point average.

Fees

• Fees are set for the review of two types of prior learning but not for any resulting credit: portfolio and campus-based challenge exams.
• Payment of a PLA fee does not guarantee the award of credit and is non-refundable. In addition, lab fees and/or material costs for these assessments may apply.
• PLA fees will be clearly publicized for students prior to their request for credit evaluation.
$100 per Challenge Exam attempted / $125 per Portfolio attempted
• Fees are reviewed on a consistent basis, similar to other MCCS fees and revised to reflect conformity with academic and administrative standards.

Appeal

• Students wishing to appeal a PLA credit denial may do so in accordance with the College’s academic appeals policy and procedure.
• Recommendations and scoring by any nationally standardized exam organization (AP, CLEP, DSST, IB, or BYU-FLATS, etc.) are under the auspices of the evaluation organizations and cannot be appealed at the College level. Students will be directed to the appeals procedures for each testing agency or credit recommendation service.
Transferability

• MCCS colleges recognize PLA credit specifically awarded by sister colleges (i.e. credit from credential review, challenge exam, and portfolio) as transfer credit, as applicable to the academic program at the receiving institution. No further burden of proof will be required of students, where PLA credit appears on another MCCS transcript. This same reciprocity is extended to students/transcripts from the University of Maine System.
• The College cannot guarantee the transfer out of PLA credits to other college/universities, nor the applicability of credits to a student’s future degree requirements.
• Students are encouraged to engage in careful academic and financial aid planning when their academic goals include transferring to other degree programs.

TAKING COLLEGE COURSES WHILE IN HIGH SCHOOL

Early Admission of High School Students

High school juniors who qualify may enroll as full-time matriculated students. With the recommendation of the high school principal and guidance counselor, students can simultaneously complete high school graduation requirements and their freshman year of college. The College will consider only highly motivated students who are entering their senior year, have a strong academic background and are in the upper half of their class. Particular consideration will be paid to the student’s motivation and maturity. Applicants must follow the regular admissions process with the added requirement of letters of recommendation from the high school principal and guidance counselor.

Note: These students will not be eligible for federal financial aid until they receive their high school diploma or GED/HISET.

On Course for College

On Course for College offers high school students a portfolio of activities, including dual enrollment, concurrent enrollment, articulated credit, and defined programs of study, to enhance the transition from high school to the college setting. Many of these opportunities are funded in part or fully by the College and its secondary partners.

Under the auspices of the Strengthening Career and Technical Education Act of 2018, NMCC works in partnership with Maine’s CTE regions and centers, their sending schools, business and industry, and communities to prepare students for success in the workplace or at the next level of learning.

Interested students should check with their local CTE school or the On Course for College office at 207-768-2782 for more information.

Dual Enrollment

This program is funded by the Maine Department of Education High School Aspirations program, the Maine Community College System and the College which enables qualified Maine high school students to receive a full tuition and fee waiver at NMCC for up to twelve (12) credits each school year. This applies to courses taken while simultaneously enrolled in a Maine high school.

Withdrawal from or failure to complete the course may void the waiver. Funds and course space are limited and are available on a first-come, first-qualified, first-served basis.

Concurrent Enrollment

Students may complete college-level coursework while in high school. Courses are taught by qualified CTE instructors with the College’s syllabus and materials. Students earn both high school and college credit for their work.

SERVING OUR MILITARY MEMBERS

Veterans’ Services

NMCC is approved for the training of veterans and appropriate assistance is provided through the financial aid office. The VA coordinator serves as liaison to the Veterans Administration and the State of Maine’s Approval Agency.

Maine National Guard

Members of the Maine National Guard should check with the College’s Financial Aid Office regarding opportunities for tuition vouchers.

Students who are called up to active duty during a semester have the option of (1) receiving a per diem refund for the unexpired portion of the term for tuition and other refundable fees, or (2) having all tuition and course fees waived for one semester upon their return (as long as they return to school within one year of the end of their active duty). Unless otherwise requested, students will be re-admitted into the major they exited from, if available.

LIFELONG LEARNING

Maine residents who are 65 years of age or older may attend the College tuition-free, for up to six credit hours per semester and up to 23 credit hours total, where course space is available. The student is responsible for all other fees and costs of textbooks.

CONTINUING EDUCATION DIVISION

The Continuing Education Division provides a wide variety of professional development and personal enrichment courses designed to upgrade and strengthen job skills. Seminars, non-credit courses and workshops, as well as credit courses and certificate programs tailored to meet the needs of employees in business, industry and government agencies are offered both on and off campus. Courses meet during the day and evening, and some Saturday courses are available. Instructors are professionals who have the combination of current expertise in their topic area and experience teaching adults.

The costs of continuing education/contract training offerings are based upon the level of customization, enrollment, and the cost of the training materials. Insurance may also be required depending on the nature of the course.
Continuing Education Units (CEU) are awarded for non-credit courses. The CEU recognizes individual and institutional participation in non-traditional studies and special activities. The CEU meets the need for uniformity in the planning and educational experiences for technical and professional people to improve their competency and skill levels through staff development. One CEU is awarded for each ten hours of satisfactorily completed course hours.

**Commercial Driving Academy**

This 8-week driving academy is licensed by the State of Maine and complies with the FMCSA guidelines for entry level driver training. This hands-on training program is designed to help students become professional class A drivers, ready to enter this high-wage and in-demand career.

Classroom instruction includes log books, trip planning, air brakes, hazmat, doubles/triples/tankers. Students receive hands-on experience both on the driving range and on the road, learning how to handle a tractor and trailer safely and efficiently. This program is approved for the use of GI Bill® benefits.

**Mechanized Logging Operations Training Program**

To address the immediate need for skilled entry-level operators trained on increasingly sophisticated harvesting equipment, Maine’s community colleges developed the Mechanized Logging Operations Training Program offered at Northern Maine Community College. This is a 12 week hands-on program designed to help students move directly into a career as an operator.

Bringing together expertise from woodland owners, current logging contractors in Northern, Central and Western Maine, and other industry professionals, the non-credit mechanized logging operations certificate program is designed to prepare professional equipment operators with the knowledge and skills necessary for productive mechanical forest operations. In classroom and hands-on settings, students will learn machine operation and basic repair, maintenance of equipment, harvesting laws, and regulations and safety. Graduates will be prepared to work in commercial forestry operations as a crane operator or equipment operator. This program is approved for the use of GI Bill® benefits.

**Web-Based Training**

Web-based, non-credit training is also available through a wide range of highly interactive courses that you can take entirely online. In addition, we offer online open enrollment programs designed to provide the skills necessary to acquire professional level positions for many in-demand occupations. A complete listing and registration options are available at nmcc.edu.

**Customized Training for Organizations**

Customized training will be tailored to meet the needs of groups, organizations and businesses and can be offered on campus or at the business location. A range of courses and workshops are offered in a flexible and creative manner to assist companies with their training needs. Professional staff members dedicated to contract training are available to provide information and assistance for securing funding support for training needs. Information about the customized training options are available by calling 768-2768.
RESIDENCY

A student is classified as a Maine resident or non-resident for tuition purposes at the time of admission to a community college. No student, once having registered as a non-resident student, is eligible for resident classification unless he/she has been a bonafide domiciliary of the state for at least one year immediately prior to registration for the term for which resident status is claimed.

If the student is enrolled for a full academic program, as defined by the College, it will be presumed that the student is in Maine for educational purposes and that the student is not in Maine to establish a domicile as a permanent residence; thus, the burden will be on the student to prove that they have established a Maine domicile by the time of such registration. The domicile of the student who is claimed as a dependent for tax purposes follows that of the parents or legally appointed guardian of the student.

If a student classified as a non-resident marries a person who is domiciled in Maine and asserts the establishment of a domicile in Maine, the student shall be presumed to be eligible for resident status at such resident’s next registration. In general, members of the Armed Forces and their dependents are normally granted resident status during the period of active duty.

<table>
<thead>
<tr>
<th>Tuition</th>
<th>2022-2024</th>
</tr>
</thead>
<tbody>
<tr>
<td>Resident</td>
<td>$96 per credit hour</td>
</tr>
<tr>
<td>New England Regional Student Program</td>
<td>$144 per credit hour</td>
</tr>
<tr>
<td>*New Brunswick Student</td>
<td>$144 per credit hour</td>
</tr>
<tr>
<td>Non-Resident</td>
<td>$192 per credit hour</td>
</tr>
</tbody>
</table>

NOTE: For planning purposes, 15 credit hours per semester may be considered average.

NOTE: Changing financial conditions, state legislative action and other considerations may necessitate adjustment of charges and expenses. The College reserves the right to make such adjustments as may, from time to time, be necessary in the opinion of the Board of Trustees.

*Students admitted under the MCCS/NBCC agreement are eligible to take classes at resident tuition rates. For more information on the agreement, contact the Admissions Office.

FREE TUITION INITIATIVE

To support the students who have been most impacted by the COVID-19 pandemic, graduates from the classes of 2020, 2021, 2022 and 2023 are eligible for two years of free tuition and mandatory fees at Northern Maine Community College.

To qualify, students must:
- Have a high school diploma or equivalent. This includes home-schooled students and students earning a GED or Hi-SET during those years
- Enroll full-time (waivers available for special circumstances) and remain on track for program completion
- Pursue an associate degree or academic credential
- Accept all federal and state grants and scholarships
- Participate in academic planning
- Live in Maine at the time of enrollment and while enrolled in the program
- Enroll during the 22/23 or 23/24 school years
STUDENT’S BUSINESS ACCOUNT

All monetary transactions are handled through the Business Office. Payment for all bills, including tuition, assessed fees, and room and board is due and payable on or before registration day for each semester.

### Room & Board Fees

<table>
<thead>
<tr>
<th>Description</th>
<th>Fee</th>
</tr>
</thead>
<tbody>
<tr>
<td>Housing Deposit</td>
<td>$100</td>
</tr>
<tr>
<td>Double Room with 19 meals/week</td>
<td>$7,818</td>
</tr>
<tr>
<td>Double Room with 14 meals/week</td>
<td>$7,018</td>
</tr>
<tr>
<td>Double Room with 12 meals/week</td>
<td>$6,426</td>
</tr>
<tr>
<td>Single Room with 19 meals/week</td>
<td>$8,666</td>
</tr>
<tr>
<td>Single Room with 14 meals/week</td>
<td>$7,866</td>
</tr>
<tr>
<td>Single Room with 12 meals/week</td>
<td>$7,274</td>
</tr>
<tr>
<td>Early Cancellation</td>
<td>$350</td>
</tr>
</tbody>
</table>

All residential students must purchase a meal plan.

### Mandatory Fees

<table>
<thead>
<tr>
<th>Service</th>
<th>Full-time</th>
<th>Part-time</th>
</tr>
</thead>
<tbody>
<tr>
<td>Registration</td>
<td>$13/semester</td>
<td>$11/semester</td>
</tr>
<tr>
<td>Comprehensive</td>
<td>$4/ Credit Hour</td>
<td>$4/ Credit Hour</td>
</tr>
<tr>
<td>Information Service</td>
<td>$6/ Credit Hour</td>
<td>$6/ Credit Hour</td>
</tr>
<tr>
<td>Course</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Lab</td>
<td>$19/ Credit Hour</td>
<td>$19/ Credit Hour</td>
</tr>
<tr>
<td>Non-lab</td>
<td>$9/ Credit Hour</td>
<td>$9/ Credit Hour</td>
</tr>
<tr>
<td>Student Activity</td>
<td>$26/semester</td>
<td>$13/semester</td>
</tr>
<tr>
<td>Health Services</td>
<td>TBA</td>
<td>TBA</td>
</tr>
<tr>
<td>Accidental Insurance</td>
<td>$16</td>
<td>TBA</td>
</tr>
<tr>
<td>Liability Insurance</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Nursing Students</td>
<td>$15</td>
<td></td>
</tr>
<tr>
<td>EMS Students</td>
<td>$61.50</td>
<td></td>
</tr>
<tr>
<td>Liability Insurance</td>
<td></td>
<td></td>
</tr>
<tr>
<td>ECE Students</td>
<td>$17</td>
<td></td>
</tr>
<tr>
<td>Orientation</td>
<td>$35</td>
<td></td>
</tr>
<tr>
<td>Graduation</td>
<td>$65</td>
<td></td>
</tr>
</tbody>
</table>

NOTE: Books and supplies vary with demands of individual programs. Many trade programs also have additional costs for tools. Insurance costs are subject to change based on premium changes.

### Tuition & Fee Changes

The Maine Community College System reserves the right to change in any manner, including increasing tuition or any other fees. While, where practicable, the College will attempt to give as much notice as each situation allows, the College reserves the right to make any such changes without notice.

### Graduation Fee

A required $65 graduation fee covers the cost of the graduate’s academic credentials and other graduation expenses.

### Refund Policy

Students terminating enrollment at NMCC before the completion of any given semester are entitled to a refund of tuition, assessed fees (as indicated in the fees section), and room and board, based on the date official notification is given to the college or the last date of attendance, whichever is latest.

Students withdrawing from NMCC should go to the student affairs office to complete a withdrawal form. This will expedite the processing of any refund due. All refunds will be made in accordance with the official date of withdrawal. The refund will be based on the current policy of the Maine Community College System.

For tuition and fees refunds, a student who officially withdraws from courses within six business days of the semester’s first day of classes will receive a 100 percent refund of each dropped course. Withdrawal between seven and 10 business days of the semester’s first day of classes will result in a 50 percent refund. No tuition refunds are awarded for withdrawal after the first 10 business days of the semester’s first day of class, or for unofficial withdrawal at any time. Official withdrawal from a college residence prior to the semester’s first day of classes will receive a 100 percent refund.

Those officially leaving housing by the end of the semester’s second week of classes will receive a 80 percent refund. By the end of the third week of classes is a 60 percent refund. By the end of the fourth week of classes is a 40 percent refund. By the end of the fifth week of classes is a 20 percent refund. Official withdrawal from campus housing after the fifth week of the semester, or unofficial withdrawal at any time, will result in no refund.

Alternative meal plans may be established by the college President based upon approved board charges. Refunds for alternative meal plans follow the guidelines above.

The financial aid awarded is based upon the expectation that a student will complete the entire period for which aid is awarded. Students withdrawing from college before the term completes are subject to the pro-rata refund policy and may be required to repay disbursed financial aid. The total refund amount is calculated on a pro rata basis through 60 percent of the payment period (payment period is semester of enrollment).

The period of enrollment will be based on calendar days. Scheduled breaks of five consecutive days or longer will be excluded from the calculation, based on the regulations set forth by the Higher Education Amendments of 1998.

Students who feel that individual circumstances warrant exceptions from the published policy may appeal by completing the Withdrawal & Tuition Refund Appeal form located on the portal. Appeals may be made under the following reasons: death of an immediate family member, the student’s medical incapacitation, military duty or computational/administrative error by the College. The complete appeal process is outlined on the appeal form. Refunds for non-credit courses are determined on an individual basis.

### Student Payment Plan

The College offers students the option of paying for college expenses in monthly installments over the course of the semester. Required payments will be approximately 25 percent of the balance owed the College after considering financial aid, scholarships and other support from outside agencies. If a payment is not made by the due date, the balance is immediately due.
Financial Aid

Transcript Fee
Students requesting a transcript be sent to a business or another college must sign a transcript release form. These forms are available in the registrar’s office as well on the college website (nmcc.edu). NMCC has partnered with Parchment, Inc. to provide our students with a secure, online method for requesting transcripts. Parchment transcript request service is simple, secure and available 24/7. The cost of an official transcript through Parchment is $6.00.

Delinquent Payment
The Maine Community College System Board of Trustees authorizes the college presidents to withhold grades, degrees, academic credentials and transcripts from students for failure to pay all lawful fees and charges.

Student Credit Balances
Payment of student credit balances will be made to students no earlier than the day following the completion of four weeks of classes of each semester*. Student credit balances will be mailed to the student’s address on file by the College.

Student Loan Checks
Student loan checks will be available for disbursement no longer than 30 calendar days from the college’s receipt of the loan(s) in accordance with U.S. Department of Education regulations.

NOTE: First time federal student loan borrowers must be in attendance a minimum of 30 calendar days in the semester in which they receive their first student loan before any loan proceeds may be disbursed to them.

Laptop Purchasing Program
All students are required to have a notebook-type computer with wireless internet capability and camera. Minimum specifications are available from the IT office. We do not recommend chrome books or Windows S mode laptops. Computers are available for purchase through the college bookstore.

FINANCIAL AID

The purpose of financial aid is to serve students who need assistance in meeting the basic cost of their education. Because funds are limited, federal and state regulations require that these funds go to students who demonstrate financial need. This section outlines the application procedure, how student need and eligibility are determined, and some of the major financial aid programs available at NMCC. For more information, students who think they may be eligible for financial aid should visit the Financial Aid Office in the student affairs area located in the A.K. Christie Building.

How to Apply for Aid
1. Apply for admission to the College.
4. School code is 005760.
5. Complete the NMCC confidential financial aid application.
6. Complete and return all forms requested by the financial aid office.

NOTE: Priority is given to early applicants.

All documents must be received before the processing of a student’s financial aid award. A new application with supporting documents must be filed every academic year for financial aid. Eligible students will be offered a financial aid award consisting of a combination of grants, work and/or loans.

Financial aid consists of programs which are funded and regulated by the federal and state governments. The programs are of three different kinds: grants, work-study and loans.

Grants
A grant is money for which students do not have to work or repay. Students with bachelor’s degrees are not eligible for grants.

Federal: Pell Grants range from $700 - $6,895 annually.

Federal Supplemental Educational Opportunity Grant (FSEOG): Awarded according to a formula based on student need and generally will range from $300-$600 per academic year.

State of Maine Grants: Provide college scholarships to Maine residents whose family resources are not sufficient to meet the cost of higher education. Awards are based on student need and generally will range from $750 to $1,500 per academic year.

NOTE: FAFSA must be received by May 1 for State grant.

Work-Study
Work is offered under the Federal Work-Study program to students who are found eligible for financial aid.
To receive financial aid, a student must:

1. Have a high school diploma or equivalent.
2. Be enrolled or accepted for enrollment in an eligible program leading to an associate degree or certificate.
3. Be a U.S. citizen, permanent resident, or refugee with an appropriate visa.
4. Have demonstrated financial need.
5. Maintain satisfactory progress in a course of study according to the standards and practices of NMCC.
6. Not owe a refund on a Pell Grant or Supplemental Grant at NMCC.
7. Not be in default on any: Federal Family Education Loan, Perkins (National/Direct Student Loan, Stafford Loan (formerly Guaranteed Student Loan) or Unsubsidized Stafford Loan.
8. Have met legal requirements for selective service registration.
9. Complete their academic program of study within 150% of the program’s catalog time for completion.

NOTE: Current federal regulations now prohibit the awarding of Pell Grants for more than 12 full-time semesters of collegiate attendance. Only courses required in your academic major are eligible for financial aid. While financial aid rules do not prohibit individuals from taking courses outside of your program of study, those courses will not count toward the determination of the financial aid load.

1/2 time = 6-8 credit hours in your program of study (major) per semester
3/4 time = 9-11 credit hours in your program of study (major) per semester
Full time = 12 or more credit hours in your program of study (major) per semester

Determining Financial Need

The amount of financial aid is subject to available federal and state funds. The type of aid and amount received will be determined by the Financial Aid Office. Financial aid awards are based on demonstrated financial need which is the difference between allowable educational expenses and the total of the parents’ expected contribution and/or the student’s own expected contribution.

Contributions are determined from the financial aid application and other documentation as required, such as the Federal Income Tax transcript of the parents and/or student. All information is held in strictest confidence.

Financial Aid Probation or Disqualification

Students must be matriculated in an academic major and maintain satisfactory academic progress (SAP) to be eligible for financial aid. SAP for financial aid includes meeting or exceeding College grade point average requirements (qualitative measurement) and PACE (quantitative measurement).

Academic progress is assessed at the end of each academic term, as stated in the handbook. Additionally, students must earn a cumulative total of 67 percent of credits attempted each term (PACE). Students failing to earn 67 percent of credits attempted in a given semester and/or failing to meet College academic progress requirements will automatically be placed on Financial Aid Warning. Any student placed on Financial Aid Warning may receive Title IV aid for the subsequent payment period. Failure to reestablish SAP as assessed at the end of the subsequent term will result in the loss of Title IV aid.

In order to comply with the Satisfactory Academic Progress standards for financial aid, students must have a 2.0 cumulative grade point average (GPA) at the end of the equivalent of two full academic years (64 credits).

Students who accept funds for a specified number of credits but who either drop credits or withdraw from school, thereby completing fewer credits than anticipated, will be placed on financial aid probation or disqualification, as applicable.

Federal Work-Study (FWS) allows students to earn money through part-time work while classes are in session and full-time work during vacations and summer. Jobs are available on campus, throughout the community and with the America Reads program in the elementary schools. This work can add to the educational experience and be a valuable asset when seeking employment after graduation.

Loans

Loans are money which students borrow now but must be paid back after leaving college. Students with bachelor’s degrees may be eligible. Students receiving loans are required to do both an entrance and an exit on-line counseling session. Federal Direct Student Loan Programs that NMCC students may participate in include:

1. Federal Direct Subsidized Loans
2. Federal Direct Unsubsidized Loans
3. Federal Direct PLUS Loans for Parents
4. Alternative Education Loans

NOTE: If the student transfers to or from another college and wishes to delay loan repayments, a deferment/forbearance request is obtained from the lender and must be submitted to the lender.

Scholarships

Annually, the NMCC Scholarship Committee evaluates applications for scholarships awarded by the Northern Maine Community College Foundation as well as privately sponsored scholarships offered to students currently attending or transferring to NMCC. Scholarships are available to both first year and second year students. Students may apply for these scholarships online through the financial aid section at my.nmcc.edu.

College Policy and Procedures on Financial Aid

All financial aid at NMCC is administered in accordance with policies and procedures which have been established nationally. The basis of such programs is the belief that students and their parents have the primary responsibility to meet educational costs and that financial aid is available only to fill the gap between the family’s and/or student’s contribution and allowable educational expenses. The amount of expected student or family contribution is determined by a careful analysis of financial strength: income and net assets versus the allowable expenses which the family may have.

Education expenses which are considered a basis for establishing student need include tuition, fees, books and supplies, room, board, tools, transportation and personal expenses. The NMCC Financial Aid Office has an established student budget to reflect the costs of each of these items based on local cost data.

General Eligibility for Financial Aid

Specific eligibility requirements vary from program to program. The following criteria apply to all financial aid programs.

To receive financial aid, a student must:

1. Be a U.S. citizen, permanent resident, or refugee with an appropriate visa.
2. Be enrolled or accepted for enrollment in an eligible program leading to an associate degree or certificate.
3. Have a high school diploma or equivalent.
Students in default on any Perkins or Stafford Loan or any other federal or state-insured loans at NMCC will be disqualified from subsequent aid until repayment or satisfactory arrangements have been made.

Students who owe a refund on a Pell Grant or SEOG at NMCC will be disqualified from subsequent aid until repayment or satisfactory arrangements have been made. A student who has been denied financial aid for any reason or who wishes to request a waiver of the financial aid policy has the right to file an official appeal. Forms are available on the NMCC portal. For more information contact the Financial Aid Office.

If a written petition is denied, students have the right to a personal appeal. If a personal appeal is denied, students have the right to appeal to the Financial Aid Advisory Committee, consisting of administrators, faculty and staff. The committee’s decision is final.

Right to Information

Students have the right to a full explanation of NMCC financial aid programs, policies and procedures. Complete information is contained in the NMCC Financial Aid Policies and Procedures Manual and the other written regulations available in the Financial Aid Office.

For information on academic programs and facilities, faculty, accreditation, refund policies and non-discrimination policies, see the appropriate section of this catalog.

Disbursement of Financial Aid

See “Student Credit Balances” and “Student Loan Checks” in the Student’s Business Account section of this catalog.

VETERANS, NATIONAL GUARD & RESERVES EDUCATIONAL BENEFITS

Programs at the College are approved by the Maine State Approving Agency for the Education and Training of Veterans and other GI Bill® eligible persons. There are several GI Bills®:

- Three for active duty service members, depending on dates of service
- One for disabled veterans with service connected disabilities
- One for spouses and children of totally disabled or deceased veterans resulting from service connected conditions
- Two for members of the Selected Reserve

NOTE: Veterans receiving monthly non-educational benefits must include those amounts on their FAFSA form.

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 Web site at https://www.benefits.va.gov/gibill.

Staff in the Financial Aid Office assist veterans, their dependents and members of the National Guard/Reserves in determining their eligibility for education benefits through a program administered by the Department of Veterans Affairs and provides assistance in filing for benefits.

Programs administered by the VA include:

- Montgomery G.I. Bill®: Chapter 30 (Active Duty Educational Assistance Program)
- VEAP: Chapter 32 (Post-Vietnam-era Veterans Educational Assistance Program)
- Vocational Rehabilitation: Chapter 31 (Disabled Veterans)
- Post-911 G.I. Bill®: Chapter 33
- Survivors’ and Dependents’ Educational Assistance: Chapter 35

- Montgomery G.I. Bill®: Chapter 1606 (Selected Reserve Educational Assistance Program)
- Reserve Educational Assistance Program: Chapter 1607 (Program for Selected Reservists who are called to active duty for at least 90 days)

As each program has a different set of eligibility, filing and compliance rules, students are encouraged to schedule an appointment with the Director of Financial Aid for an explanation of program benefits and requirements.

MAINE NATIVE AMERICAN TUITION WAIVER POLICY

Northern Maine Community College proudly serves all students and maintains the goal of assisting students in achieving a post-secondary education while keeping costs as low as possible. Northern Maine Community College waives all or a portion of tuition charges for matriculated students who are Maine residents with documentation of their membership or ancestry in a Maine-based Native American tribe.

Waiver Eligibility

To qualify for an NMCC Native American tuition waiver, the student must meet the following criteria:

- Tribal Membership or Ancestry: The student must be included on the current tribal census or have at least one parent or grandparent included on the current tribal census of the Passamaquoddy Tribe, the Penobscot Nation, the Houlton Band of Maliseet or Aroostook Band of Micmac.
- Maine Residency: The student must meet NMCC’s criteria to qualify for in-state tuition charge.
- Enrollment: The student must be accepted into a degree or certificate program and enrolled in credit-bearing courses at NMCC. The student must remain in good academic standing as defined by the College and maintain satisfactory academic progress as defined by Title IV Federal financial aid regulations.
- NMCC Native American Waiver Application: The student must complete and submit a NMCC Native American Tuition Waiver Application to the NMCC Financial Aid Office. This application is available in the Financial Aid Office and on the NMCC portal. Once eligibility is established, re-application is not necessary.
- Financial Aid Application: Applicants for the Native American Tuition Waiver must complete the Free Application for Federal Student Aid (FAFSA) annually as soon as possible after January 1 and provide the documents required for determining aid eligibility. Applicants must meet the general eligibility requirements for receiving federal student aid.
- Waiver Amount: The waiver is equal to the in-state tuition charged to the student in a semester less any Federal or state need-based grants or scholarships for which the student qualifies. Other restrictions apply: charges other than tuition are not waived; tuition is not waived for courses with a grade of NS (no show).
- Duration of Eligibility: Eligibility for the waiver ends after the student has completed one degree or two certificate programs from NMCC or up to 90 attempted credit hours from NMCC, regardless of whether or not the student has earned a credential. Native Americans who have already achieved an associate degree or two certificates from Northern Maine Community College and have been laid off due to downsizing or business closure may appeal to use this scholarship for another program to develop new employment skills. Appeals should be sent to the Assistant Director of Financial Aid, Northern Maine Community College, 33 Edgemont Drive, Presque Isle, ME 04769.
Student Affairs

STUDENT AFFAIRS

The staff of the student affairs office provides a wide variety of services and experiences that complement academic pursuits at NMCC. The College strives to foster an educational environment that empowers students to assume personal responsibility for their education, social and professional development, as well as for their emotional and physical health and well-being. The Dean of Students administers the area and encourages students to make use of available services, programs, facilities and development opportunities.

Admissions Office

The Admissions Office provides information about NMCC to prospective students and helps students throughout the admission process. Staff serves students who wish to apply for a second degree or continue studies after graduation.

Career Planning & Placement

Career planning and placement assistance is available from several sources at NMCC. The student affairs staff, as well as individual instructors, are willing to help graduates find jobs in their field. Because of their job market knowledge and employer contacts, instructors are often excellent sources of assistance. Each spring, seniors benefit from a strong effort to help them secure employment.

The Student Support Office delivers information, workshops and assistance to aid students exploring career options and future plans. We encourage students to consider careers that are non-traditional for their gender. Informational sessions are held regularly on a wide-variety of job-search and career planning topics.

College Central Network is NMCC’s career services website designed to meet students’ career planning needs. Students have access to job boards and hundreds of articles, videos, and podcasts pertaining to various career-related topics including resume assistance and interview preparation. Please visit: http://www.collegecentral.com/nmcc/Student.cfm and click “Activate” to create your account. If you have any questions or need assistance creating an account, please contact the Counseling Office at 768-2839.

Counseling Services

Counseling is offered to students through the student affairs office. Services available include: academic, personal and career counseling; student advocacy; coordination of related support services, including childcare and emergency transportation assistance; referral to other service providers; and coordination of special accommodations for disabled students. Inquiries should be made to the Director of Counseling at 768-2747.

Financial Aid Office

The Financial Aid Office provides counseling and assistance in obtaining aid from a variety of funding sources. Financial aid brochures, available in the office, provide information on sources of aid, application procedures and NMCC financial aid policies. (See the Financial Aid section for more information.) The office is also responsible for certifying qualified veterans for appropriate VA education benefits.

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Registrar’s Office
The Registrar’s Office maintains official records for each past and present NMCC student. These records are maintained in full accord with the Family Educational Rights and Privacy Act. (For details on student files and the policies ensuring their privacy, please see the section on confidentiality of student records under academic information.)

Students who wish to have a transcript of their record sent to another academic institution or prospective employer must make their request in writing to this office. Also, students can register for classes, drop or add courses and file graduation application forms here.

Services for Students in Academic Jeopardy
Students who are on academic probation, or who have not met the minimum standard to advance in a major program of study, or who are in pre-probationary academic difficulty, are required to meet with a college counselor to develop a written plan for academic success. This plan may include a reduced course load, re-taking courses, establishing a tutoring schedule, enrolling in a study skills class or workshop, reducing outside commitments, extending an expected graduation date, or participating in career counseling, etc. After this plan has been completed, the student will meet with the counselor regularly during the semester to monitor academic progress.

TRIO/Student Support Services Program
This student support services program is federally funded and offers a wide range of services to eligible students. In order to participate in this program, a student must have low income status (as defined by federal guidelines), or be a first-generation college student, or have a disability. Academic, personal and career advising; tutoring; assistance with the financial aid process; job search and placement workshops; and transfer advising are among the services provided to program participants. Enrollment is limited. For more information, contact the program’s director at 768-2747.

LEARNING RESOURCES
A variety of learning resources are available to assist students. Rooms for reading, research, completion of projects and quiet study are available in the College’s library. The Library also has a group study room available for student use. Individual and group study areas are also available in the Academic Success Center, Akeley Student Center and lounge areas.

Academic Success Center
The Academic Success Center (ASC) offers a variety of services that are free and available to all NMCC students. Students may be referred to the ASC by an instructor/counselor or seek these services themselves. A student may want to obtain feedback on a writing assignment, review for an exam, receive help with a homework assignment, complete assignments on a computer, receive supplemental instruction from instructors or peer tutors, improve study skills, or study individually or in a group. Services/facilities include: individual and group tutoring; writing resource center; math lab; on-line study skills information; academic success workshops; and supplemental instruction.

Library
The E. Perrin Edmunds Library offers a welcoming and comfortable environment on campus where students, faculty, and staff meet, study, collaborate, learn, and relax. The library provides print and online collections to support the curriculum and mission of the college. Diverse resources are available to encourage academic investigation, personal growth, and access to all points of view. The Library serves students, faculty, staff, and the community.

Information-literacy instruction and reference and research assistance is available in person, online, and in classrooms. The library is committed to teaching students how best to collect, evaluate, and use information effectively. NMCC’s definition of an information-literate student is one who can clearly articulate information needs, confidently search for and access information from a variety of sources, and evaluate and use the information ethically and legally for research and personal purposes.

Our library adheres to the American Library Association’s Library Bill of Rights and Association of College and Research Libraries Intellectual Freedom Principles for Academic Libraries. We embrace and affirm the principles of equity, diversity, and inclusion in our library.

For additional information about library services, events, hours, staff, and policies, visit the library’s web page at www.nmcc.edu/academics/support/library/. The library is open to the public.

CAMPUS HOUSING
Campus housing at NMCC includes Andrews Hall, Snow Hall, and Penobscot Hall. Andrews Hall houses approximately 40 students in large single rooms equipped with single beds, chests of drawers and desks. In Snow and Penobscot Halls, there are suites and quads designed for 4-5 individuals. Each suite has 3 bedrooms, a split bathroom, and common living room. Each quad has two double-bedrooms, a full bathroom, and a common living room. All suites and quads come furnished with bedroom and living-room furniture.

All students living on campus must purchase a 19, 14, or 12-meal per-week plan. Resident rooms and suites have internet access through campus Wi-Fi. Students living on campus must abide by the Student Code of Conduct as explained in the NMCC Student Handbook and the individual housing agreement. Violations may result in termination of the agreement.

Optional Housing
For individuals needing only occasional or temporary campus housing, a limited number of rooms are available for a modest fee. Dining privileges are included.

Family Housing
A limited number of apartments are available for NMCC students and their families. Qualifying family members may include: a legal spouse/registered domestic partner, at least one child (including step) up to 18 years of age, and/or grandchild up to 18 years of age for whom the students is legally responsible. Designated units cost $750/month. Each unfurnished, two-bedroom unit has one full bathroom and a kitchen. The included utilities are: heat, internet, electricity, water/sewer and trash removal. Meal plans are not included with the family housing options.

For more information on campus housing, optional housing, and family housing, contact the Director of Residential Life at (207)768-2795.
REED DINING COMMONS & COLLEGE STORE

Dining facilities are located in the newly remodeled Reed Dining Commons. Residential students purchase a meal plan along with a housing plan. Anyone else wishing to purchase a meal is welcomed during meal time service. An a la carte food service, in addition to take-out, beverages, snacks, etc., is available in the College Store located in the Akeley Student Center. Meal swaps or equivalencies can be used, for residential students at the College Store.

BOOKSTORE / LAPTOPS

The NMCC Bookstore is managed by Barnes & Noble. Each student is required to provide at his or her expense all necessary textbooks, equipment and supplies. For more information go to: http://nmcc.bncollege.com/shop/northern-maine/home. In addition to required books and classroom supplies, the college bookstore offers a wide variety of other collegiate items such as pens, pencils, notebooks, clothing, and mugs. Students may transfer financial aid funds to the bookstore to purchase a laptop from models offered by Barnes & Noble.

MOTOR VEHICLES

Students and employees have the privilege of using a vehicle on campus. All vehicles must be registered through the Security Office. Vehicles that have no parking permit affixed or are parked inappropriately or in non-designated areas, will be ticketed and fines will be assessed. Any damaged caused by vehicles to lawns, shrubbery, etc. will be assessed to the operator. Vehicles, like other personal property, are the sole responsibility of their owner. For the complete Parking Policy, please refer to the College’s portal.

ATVs and snowmobiles are permitted on campus, but must also be registered. Recreational vehicles are not to be operated on any campus roadway, walkway, parking lot or other thoroughfare. Use is restricted to open fields and areas away from campus buildings. Emergency, maintenance and campus security are the only vehicles permitted on any walkway. Failure to comply with vehicle use policies may result in the revocation of vehicle privileges.

STUDENT SENATE / ACTIVITIES

The Student Senate is the governing body for all student activities and serves as the official student voice on campus. The senate includes at least one member from each academic area and functions under its own constitution and by-laws.

The Student Senate assists the student affairs staff to plan and promote a wide variety of activities for the campus community. New clubs and groups are formed whenever the demand arises, and ideas for new organizations are always welcome. Swimming, skiing, movies, cookouts, hiking, biking and rafting trips are some of the activities sponsored by the student senate and staff coordinators. The school’s gymnasium and wellness center are readily available for student use.

NMCC promotes leadership, physical health and wellness through intramural activities. Activities may include basketball, softball, volleyball, soccer and tennis. An esports team was formed in Fall 2019. Other activities may be added at any time if enough interest is shown. All individuals are encouraged to participate.

STUDENT RIGHT TO KNOW

Student right to know information is available on the college web site (Consumer Information link), upon request from the student affairs office or from the U.S. Department of Education’s web site.

ACCESSIBILITY

Facilities at NMCC are designed to be accessible by persons with disabilities. The College is committed to providing, whenever possible, equal opportunities to all students, including assessment of and modifications to facilities and programs to accommodate individual needs. Inquiries should be directed to the Director of Counseling.

NOTE: Students requesting specific accommodations have the responsibility, under the Americans with Disabilities Act or the ADAAA of 2009, of making sure that the college is aware of the need.

Specifically, students should:
1. Request the relevant adaptation in writing, and
2. Provide documentation of that need to the satisfaction of the College.

Once these responsibilities are met by the student, the College will attempt to provide the accommodation. Documentation of need should accompany the request if possible. A minimum of 30 days of lead time is suggested.

For more information visit: www.nmcc.edu/academic/support/student-services/disabilities.

STUDENT GRIEVANCE PROCEDURE

Students who have a grievance or complaint regarding an abridgement of rights have recourse to a student grievance procedure. A copy of the entire procedure can be found in the student handbook and in the Student Affairs Office. In case of physical assault or sexual harassment (as defined by Maine law), the process for filing complaints is outlined in the student handbook. Students questioning their assigned grades can appeal that grade through the Academic Dean.

The affirmative action officer for NMCC is identified on the inside cover of this catalog, on the NMCC website, in the student handbook and at orientation activities. A student in doubt about the proper procedure for filing a complaint or grievance should seek direction from the affirmative action officer.

STUDENT HANDBOOK

The student handbook is updated annually and is available to all students. It contains information about policies, procedures and regulations, explains the Community College Student Code of Conduct, and delineates both students’ and institutional rights and responsibilities, particularly with respect to issues of discrimination and sexual harassment.

IDENTIFICATION CARDS

Identification cards are issued to all students and employees. This card enables access to the library, residence halls, some classrooms and college facilities. Access to college events and discounts at other community events may be available with your NMCC ID card. Replacement fee is $25.
Programs of Study
The mission of Northern Maine Community College is to provide career and transfer programs that lead to associate degrees or certificates. Each credential provides the opportunity to acquire the knowledge, skills, and values that are essential for a career or transfer to a college or university.

NMCC offers 12 associates in applied science, two associates in science, and one associate in arts degree, as well as, 24 certificates through five academic departments: Arts & Sciences, Business Technology, Emergency Medical Services, Nursing and Allied Health, and Trade and Technical Occupations.

- The Associate in Arts Degree (AA) is intended to provide a basic foundation for a Bachelor of Arts Degree program.
- The Associate in Applied Science Degree (AAS) is intended to provide the preparation necessary for potential employment in an occupational specialty.
- The Associate in Science Degree (AS) is intended to provide the preparation necessary for potential employment in an occupation specialty and/or a basic foundation for a Bachelor of Science Degree program.
- A certificate is awarded for specific studies that one can complete in a one-year program or less. Certificates can be the final goal or first step in developing, changing, or upgrading your career.

Delivery of Academic Programs
Courses in academic programs at NMCC are taught in a variety of formats: traditional classrooms and laboratories; interactive web conferencing, media-enhanced classrooms; and individualized learning experiences such as independent study, internships/externships, practicums, field experience and distance education.

Distance Learning
Northern Maine Community College’s distance learning courses offer a complementary alternative to the traditional in-person learning environment. These course formats allow students to engage with and complete courses from any location. Currently, NMCC uses the learning management system D2L by Brightspace and the web-conference software ZOOM to conduct courses from a distance.

Distance learning courses require a computer, basic computer skills and reliable internet access. They may also require supplemental hardware and software.

- **Online:** Courses are delivered online using the institution’s LMS. A computer or laptop is recommended for participating in and completing online course work. Students interact with their instructor and classmates via online discussions, assignments, group projects and adhere to deadlines set within the LMS and course syllabus. If the suffix number for a course is 20-25, the course is being offered online.

- **Hybrid:** Instruction is split between learning activities in the LMS online and the rest of the time learning in-person, in the classroom(s) or laboratory setting. If the suffix number for a course is 26-30, the course is being offered as a hybrid course.

NMCC offers a limited number of hybrid and online classes. A hybrid format, means that only a portion of the class is conducted online. On-campus testing is usually required. The ultimate goal of these educational formats is to offer a wide array of individual courses and programs to students enrolled at NMCC who are interested in interactive learning. Online courses allow both traditional and non-traditional students the opportunity to pursue an education that may not have been available because of scheduling or traveling limitations.
Non-Degree Student Status

Anyone interested in taking courses without enrolling in a degree program may do so by signing up for the course(s) during registration. Non-degree students do not need to apply for admission to the College in order to take a course(s). However, if they intend to register for more than 11 semester hours, they must obtain permission from the Dean of Students. Non-degree students are not eligible for financial aid.

Skills Assessment

Assessment of basic academic skills is required of all full-time students and may be required of part-time students. Performance on skills assessment testing may affect students’ acceptance into a program at the College. Results will be used for appropriate placement in English, and mathematics courses.

Course Registration

Each student will begin the semester with a class schedule for which they have previously registered. Adjustments to that schedule may continue throughout the add/drop period, which usually is the first week of the semester. It is important that you follow the Add/Drop Policy which can be found later in this section of the course catalog.

Courses in automotive, diesel hydraulics and structural welding are taught sequentially throughout a semester. Students may register for those courses prior to the first-class meeting.

Full-Time Student Status

At NMCC, 12 credit hours or more per semester is considered full-time. Most other agencies and programs, including financial aid, veterans assistance, Social Security Commission and insurance benefits, also consider a full-time course load to be at least 12 credits per semester. To complete an associate degree in four semesters or fewer, most programs will require more than 12 credits to be completed each semester. (See the Curricula section for specific program requirements.)

Matriculation Policy

Matriculation is the formal registration of a student into a program leading to a certificate or associate degree. A matriculated student is one who has met prescribed admission requirements, has been officially admitted to a program of study and has registered for a course in the curriculum.

Matriculated students maintain their status for ten calendar years from the first semester of course registration at the College. A student must successfully complete a minimum of three credit hours each academic semester or an application for re-admission must be filed with the Admissions Office.

To maintain matriculation status under a given program, a student must request a leave of absence from the Dean of Students for any semester during which he or she is not enrolled in any courses.

Minimum Residency Requirement

All associate degree and certificate programs require that students satisfactorily complete a minimum of the program requirements directly from NMCC courses. All students must complete at least 25% of the program credit hours directly through the College. Credits received for all prior learning, including challenge and standardized exams, portfolios, apprenticeship and work experience, articulation agreements and transfer credit will not count towards meeting the academic residency requirement.

Non-Degree Student Status

Academic Advising

Every full-time NMCC student enrolled in a program is assigned an academic advisor who assists in course selection and offers general information concerning the student’s academic life.

Students may check at the Student Affairs Office early in their first semester to learn the name of their academic advisor. The academic advisor is usually the student’s major instructor for their chosen program of study. This information is also available on the student portal.

Students are encouraged to see their advisor as often as necessary to make certain they are taking courses that are appropriate to their academic and career plans. The advisor should also be consulted before students add or drop courses or change a program of study. Each semester, during a designated registration period, students meet with their advisor and register for the next semester.

Students should monitor their own academic progress. Descriptions of specific courses are in this catalog. Program curriculum sheets, which list specific course requirements for each academic program are available from several offices on campus or by accessing the College’s web site.

Attendance

Class attendance is the student’s responsibility. Regular attendance and punctuality for all classes is expected. Attendance is recorded in the learning management system, every class period. To encourage students to accept their responsibility to attend class, the following policy is established: Class attendance is a matter between the instructor and the student. Instructors are obligated to announce and interpret a specific attendance policy for their classes at the beginning of the semester, by way of their course syllabus. Faculty are encouraged to be considerate of students with special circumstances.

Excessive absences may interfere with successful completion of a course. Once a student violates the instructor’s class attendance policy, the instructor may issue the student a grade of “AF” (Attendance Failure). This grade designation will be treated as an “F” in the calculation of the student’s grade point average. Students may appeal instructors’ actions to the Academic Dean for review.

Add-Drop Policy

1. A student may add or drop a course during the first week of any semester without any academic or financial penalty.

2. A student may drop any course through the 12th week of the semester and receive a grade of WP (Withdrawn Passing) or WF (Withdrawn Failing).

3. After the 12th week, the grade earned is recorded and will affect the GPA.

Withdrawing from a course could have adverse effects on financial aid as well as graduation requirements. Please talk with an advisor or counselor before dropping a course.

NOTE: Refunds of tuition and fees will be 100 percent for the first 6 business days of the semester, 50 percent between 7 and 10 business days with no refunds after that date. For abbreviated semesters, the above drop policy and any associated refunds will apply for the proportional equivalent in time.

Withdraw From NMCC

Any student withdrawing from NMCC is expected to complete an official withdrawal form which may be obtained from the office of the Dean of Students and complete an exit interview.

When circumstances prevent this, the student or parents should write to the Dean of Students concerning the reason requiring the students to leave. The date of withdrawal will be the date the student signs the withdrawal form; a grade notation of AW (Administrative Withdrawal) will be indicated on a student’s academic transcript for those students who have been involuntarily separated from the College (examples: disciplinary dismissal, non-payment of bills, lack of attendance, etc.).
**Off-Campus Center**

Northern Maine Community College offers program courses at the Houlton Higher Education Center. Courses may be offered at other locations, depending upon student or community needs.

Credit courses are organized at various times and locations on the basis of need, interest and availability of suitable facilities. The offerings are selected to meet predetermined community needs and to offer expanding technical and career programs. The course offerings are also designed to furnish an opportunity for intellectual pursuit and continuing education to those who may not wish to work toward a college degree or who may already have one. The courses follow the same academic standards that apply in the on-campus program.

Attempts are made to offer courses at times which are convenient for most adult students with responsibilities of job and family.

### Grading System

Northern Maine Community College bases its grade point average (GPA) on a 4.00 grading scale. Letter grades used at NMCC to evaluate academic achievement are as follows:

<table>
<thead>
<tr>
<th>Grade</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>A</td>
<td>4.00</td>
</tr>
<tr>
<td>A-</td>
<td>3.67</td>
</tr>
<tr>
<td>B+</td>
<td>3.33</td>
</tr>
<tr>
<td>B</td>
<td>3.00</td>
</tr>
<tr>
<td>B-</td>
<td>2.67</td>
</tr>
<tr>
<td>C+</td>
<td>2.33</td>
</tr>
<tr>
<td>C</td>
<td>2.00</td>
</tr>
<tr>
<td>C-</td>
<td>1.67</td>
</tr>
<tr>
<td>D+</td>
<td>1.33</td>
</tr>
<tr>
<td>D</td>
<td>1.00</td>
</tr>
<tr>
<td>D-</td>
<td>0.67</td>
</tr>
<tr>
<td>F</td>
<td>0.00</td>
</tr>
<tr>
<td>*</td>
<td></td>
</tr>
<tr>
<td>T</td>
<td></td>
</tr>
<tr>
<td>W</td>
<td></td>
</tr>
<tr>
<td>WE</td>
<td></td>
</tr>
</tbody>
</table>

In order to graduate from any prescribed program of study (i.e. certificate or associate degree), a student must have a cumulative grade point average of at least 2.00.

Academic warnings may be issued at mid-semester to any students whose performance has fallen below NMCC’s academic standards.

### Course Grade Appeal

The sole responsibility of evaluating student performance and assigning course grades rests with the course instructor. Barring a grade change due to the miscalculation of a course grade or due to a successful appeal of a course grade by the student, all course grades are to be considered final. If a student believes that a final grade was unfairly derived (i.e., that the grade was determined utilizing criteria different from that for other students), the student may formally appeal that grade.

First, the student must submit to the instructor a written request for clarification of the grade (e-mail correspondence is sufficient; however, the student must keep a copy of what was sent). The appeal process cannot proceed without verification that this communication has occurred. After clarification, if the student still wants to appeal the grade, they should contact the department chair for the course for which the grade was submitted in order to be advised on the appeals procedure.

### Repeat Courses

If a course is repeated, the latest grade of the retaken course is used to calculate the grade point average.

### Auditing Courses

Students may audit any course, provided space is available and they pay regular course costs. When a student audits a course, neither a grade or course credit is given. A student may not change a course from credit to audit after the add/drop period. If you are interested in auditing a course, see the Registrar for the audit application form. The form is also available on the NMCC portal.

### Academic Progress

A minimum grade point average of 2.0 is required to graduate with a certificate or degree from Northern Maine Community College. This implies that any course grade below a C may put a student’s graduation in jeopardy and/or indicates that the student’s academic progress is in question. Further, satisfactory progress requires that a student earn a minimum of a C grade (2.0 grade point) in each major course within their program of study. Major courses are clearly identified in the curricula section of this catalog.

For associate degree programs, the faculty have carefully developed each program of study to provide students with the opportunity to maximize their knowledge and skills within four semesters. This achievement requires a substantial commitment to the learning process by the student. There are many campus resources available to aid students in their efforts toward academic success. These include tutorial services in the Academic Success Center, developmental studies classes and study skills workshops, class attendance requirements, mid-term warnings, and faculty assistance.

Students are encouraged to contact their academic advisor, department chair, the Academic Dean, the Dean of Students or the Director of Counseling for assistance or to discuss their academic progress.
Probation & Dismissal Policy

Students who do not earn a minimum 2.0 cumulative grade point average may be placed on academic probation or dismissed from the college. The probation and dismissal policies are outlined below:

Academic Probation – Signifies that a student is in serious academic jeopardy. A student on probation must remove grade deficiencies during the subsequent semester or during summer session. Failure to do so may result in academic dismissal from the College. Students on academic probation are required to carry a reduced class load (fewer than 15 credit hours) and may be restricted from participation in extra-curricular activities. Probation and dismissal standards are outlined in the following chart:

<table>
<thead>
<tr>
<th>Credit Hours</th>
<th>Cumulative GPAs Ranges Result In:</th>
</tr>
</thead>
<tbody>
<tr>
<td>Attempted</td>
<td>Probability</td>
</tr>
<tr>
<td>12+</td>
<td>1.25 to 1.75</td>
</tr>
<tr>
<td>30+</td>
<td>1.50 to 1.75</td>
</tr>
<tr>
<td>45+</td>
<td>1.75 to 1.99</td>
</tr>
</tbody>
</table>

*Students are not assessed for probationary or dismissal status until they have accumulated 12 credit hours of graded study.

A student on academic probation must achieve a cumulative grade point average sufficient to exceed the probationary standard or a semester grade point average of 2.0 during each probationary semester. Failure to achieve this standard may result in academic dismissal.

Academic Dismissal – Students who have been academically dismissed may appeal to the Academic Dean for re-instatement in a program for the following semester. They may request re-admission to the College by formally reapplying not earlier than one semester after the date of dismissal. At the time of re-application, the applicant must show positive evidence that he or she will achieve academic success if accepted into a program. Such evidence might include course completion with satisfactory grades, a positive employment experience, etc.

Academic Amnesty – Students who have received failing grades in the past may appeal in writing to the Academic Dean for academic amnesty. Amnesty is the forfeiture of prior coursework below a 2.0 level. This request may be granted if there is a high probability of academic success. If amnesty is granted for a course, the course and its grade will remain on the student’s transcript. The grade for the course however, will not be calculated in the student’s GPA. Amnesty may only be granted to students who are currently enrolled or have completed the most recent semester with a semester GPA of 2.0 or higher. Academic Amnesty may only be granted once during a student’s academic tenure.

Advancement in the Major Program of Study

A minimum grade of 2.0 (C) / 2.33 (C+) is required of all courses designated as major courses within both

nursing and community paramedicine programs of study. These courses are identified in the course catalog. Students failing to achieve this standard will be unable to advance to the next higher-level class (if any) for which the previous class grade is a pre-requisite. The Registrar will notify a student in writing that they have failed to meet the academic standard required for any major course. A student will be given additional opportunities to retake the major course(s), providing there is space available and they are otherwise maintaining satisfactory academic progress.

Students majoring in nursing and trade and technical programs may be allowed only one opportunity to retake a major subject. A student may request a waiver of the pre-requisite from the higher-level class instructor or the affected department chair, the department chair of the student’s major and the academic dean. In the event a student is permitted to advance to the next level he or she must repeat the course in which a grade of less than C (<2.0) was received in order to graduate.

Challenge Exam Policy

Selected NMCC courses may be challenged; however, challenge exams may not be available for all courses. When an appropriate standardized national exam exists (i.e. CLEP, DSST, PEP, Advanced Placement, etc.) this exam will be required. If no such national exam exists, the required exam shall be comparable to the comprehensive final examination taken by all students in the course.

Only one challenge exam per course will be approved by the department chair and academic dean. The following criteria apply to challenge examinations.

1. Only students who have been accepted in a NMCC program will be allowed to participate in the challenge exam process.
2. The student requesting a challenge exam will show written evidence of prior knowledge or proficiency in the subject area to be challenged. The student must contact the department chair as to the availability of the exam and the procedure.
3. Students intending to challenge courses must complete the request for prior learning assessment form (available on the NMCC portal) and have approval from the appropriate faculty member and Department Chair prior to taking the exam.
4. The student will be charged $100 and the fee must be paid in advance.
5. The student must take the challenge exam prior to the semester in which the course is offered.
6. In order to receive credit, the student must score 73 (C) or above on the challenge exam. Students may not retake a challenge exam.

NOTE: Many colleges will not accept a challenged course for transfer.

Directed Study

A directed study is the offering of a catalog course on an individual basis by an appropriate faculty member to a qualifying student. Directed studies are available only on a limited basis. A student who has completed a minimum of 30 credit hours with a cumulative average of 2.5 or above may be eligible for a maximum of 9 credit hours from an approved directed study(ies). A directed study may be approved for a program completion candidate when it is evident that the course will not be offered as a part of the regular semester curriculum, resulting in a postponement of completion of program which would ordinarily be completed in that term.

A non-refundable fee of $100, in addition to tuition and any other regular fees, will be charged to the student for each course taken as a directed study.

For more information, contact your academic advisor, your program department chair, the academic dean or the Student Affairs Office. The directed study application is available on the Portal under the students tab.
Independent Study
A student with a cumulative GPA of 2.5 or higher may be eligible for a maximum of three credit hours in approved independent study. The student will conduct in-depth research on a topic(s) in his or her major occupational program and have the opportunity to develop abilities as an independent learner. An independent study project may carry 1, 2 or 3 credit hour values and will be completed during the semester or session of enrollment. Please see the college Registrar for information on the procedure to be followed.

A non-refundable fee of $100, in addition to tuition and any other regular fees, will be charged to the student for each course taken as an independent study.

For more information, contact your academic advisor, your program department chair, the academic dean or the Student Affairs Office.

Second NMCC Credential
When a student enters NMCC, they chooses a program with the expectation of receiving a degree or certificate in that area. As a student progresses through their program, the instructional staff may encourage the student to broaden their background by taking electives in another program. These opportunities allow the student to broaden their area of expertise without compromising or changing career goals, or their primary purpose for attending NMCC.

The following apply:
1. If a student wants a second credential, then they must complete at least 15 credits beyond the requirements of the first program as well as complete all requirements for the second credential.
2. Students may be given permission to complete a second credential only if they are demonstrating satisfactory academic progress and if space is available. Opportunities for second credentials may be limited due to program demand.
3. Students will not be considered for a second degree until they have completed a minimum of 30 graded credit hours and are in good academic standing.

Students pursuing more than one major must have written approval from the Dean of Students as well as a reference from their current academic advisor.

Academic Honors
Dean's List – The Dean's List honors individual students who demonstrate outstanding scholarly achievement. Students achieving a 3.2 or above grade point average as a result of a semester’s work will be recognized by inclusion on the Dean's List.

To be selected, students must be enrolled full-time, matriculated in a program of study and be maintaining satisfactory academic progress. Full-time is defined as carrying 12 or more graded credit hours in a given semester, (Not included are pass/fail, transfer, audit, qualifying or work experience course work). A grade of incomplete for any course(s) in a semester will disqualify a student from inclusion on the Dean's List.

Part-time matriculated students who complete at least 6 credit hours during an academic year, achieve a minimum GPA of 3.2 and maintain satisfactory academic progress will be included on the Dean's List for Part-Time Students.

Phi Theta Kappa – Students achieving a 3.5 or greater cumulative grade point average while matriculated in an associate degree level program of study at NMCC may be invited to join Phi Theta Kappa, an international honor society for two-year college students. To maintain membership, the student member’s cumulative grade point average may not fall below 3.25. Phi Theta Kappa emphasizes academic excellence, leadership and community service.

Mid-Term Warnings
In an effort to help students determine their academic success in a particular course, instructors issue a mid-term warning to students doing marginal or unsatisfactory work. Students may view their mid-term grades under the student tab on the portal (my.nmcc.edu) Students who have “U” - Unsatisfactory or “M” - Marginal grades are encouraged to contact their instructors immediately after receiving a mid-term warning so they can be advised on possible strategies for course success. During the meeting, referrals may be made to other campus resources, including the Academic Success Center, Health Center, counselors and student advisors.

Student Records
Permanent Transcript – Each student’s record is maintained in student affairs as a chronological list of course work taken and grades received. A student may examine it at any time upon presenting proper identification to the registrar.

Academic Record Changes – Considerable care is taken to ensure that all course registration and grade information entered on a student’s permanent record is accurate. The record is confirmed as being accurate if the student does not report a discrepancy to the Registrar’s Office within one semester of the completion of the course.

Transcript – Students requesting that a transcript be sent to a business or another college must sign a transcript release form. These forms are available in the Student Affairs Office as well as on the college web site (www.nmcc.edu). Students requesting a transcript must do so in writing. Expedited transcript requests (processed within one working day of the request) will cost $25 per request. Facsimile transmissions will cost $10, and overnight delivery will cost $75, in addition to the expedited transcript fee. Students may also order electronic transcripts through www.Parchment.com for a fee of $6. Unofficial transcripts are available via the campus portal (my.nmcc.edu).

Confidentiality of Student Records – NMCC believes that it is of paramount importance and in the best interest of all its members that confidentiality about personal information is maintained. NMCC is committed to safeguarding confidential information concerning its students from unauthorized disclosure.

The Family Educational Rights and Privacy Act of 1974, as amended, provides the following rights for students attending NMCC.

1. The right of a student, with limitations, to inspect and review their educational records.
2. The right, with exceptions, to prevent disclosure to third parties of information from their educational records.
3. The right to file a complaint with the U.S. Department of Education concerning the alleged failure of NMCC to comply with requirements of the Act.

Transfer
NMCC has several program specific transfer agreements with senior colleges and universities. Students interested in transferring to an institution to pursue a baccalaureate degree should discuss their goals with their academic advisor to assure appropriate planning of their academic coursework at NMCC and to maximize the amount of transfer credit.

For the transfer of courses not covered by a current transfer agreement, the college or university to which the student is transferring has the final decision on granting of transfer credit.
The Arts and Sciences Department offers associate degrees in Liberal Studies and Early Childhood Education. The Liberal Studies Associate in Arts degree is a transfer degree program that replicates the first two years of a four-year program. The Associate in Applied Science degree in Early Childhood Education allows students to enter either the workforce or transfer. In addition, the department provides courses that support the general education core for degree programs in other departments. The general education cores instill in students the knowledge, skills, and values that define an educated person.

Career Studies

The associate in applied science degree in career studies is designed to provide a highly individualized and flexible program of study for students whose educational and/or occupational goals cannot be met by the other programs of the college. Recognizing that many students come to the college with significant work and/or learning experiences, this program provides for recognition of that experience, by the awarding of academic credit (after a thorough portfolio review process) in an occupational track.

Early Childhood Education

NMCC's early childhood education program offers both a two-year associate degree and a one-year certificate level option. The associate degree program is designed to educate childcare professionals in the skills and knowledge necessary for advanced positions in organizations and agencies that serve children. It provides courses and field experience in childcare, as well as a well-rounded supporting education. This degree also provides transfer opportunities to four-year institutions.

The certificate program provides the training needed for entry-level positions and meets the more immediate need for those who do not choose the additional courses required for the degree. The core courses of this program align with the educational requirements for the State of Maine Child Development Associate (CDA) credential.

Graduates will find employment opportunities in child care centers, summer and day camps, pre-school programs, public schools, recreational centers, one-on-one aide positions, and other agencies that serve children. Both, the two-year associate degree and the one-year certificate, provide the pathway for obtaining a State of Maine license as an owner/operator of a private child care facility.

Liberal Studies

An associate in arts degree in Liberal Studies is a flexible degree program designed for students whose educational goal is to transfer to another college or university. The curriculum provides a strong foundation in the liberal arts (math, science, humanities, and social sciences) that prepares students for advanced academic study at a baccalaureate-granting institution. As part of an agreement between the Maine Community College System and the University of Maine System, Liberal Studies graduates can complete up to 35 hours of the general education requirements of any campus in the University of Maine System as part of the Associate in Arts program. Those who are unsure of their future educational plans can enroll in Liberal Studies and work with experienced faculty to develop an educational plan that suits the student’s needs. With small class size and experienced faculty who are committed to their craft of teaching, NMCC's Liberal Studies program is a great place to start.

To ensure maximum transferability, the College has entered into articulation agreements with regional colleges and universities such as the University of Maine at Presque Isle and the University of Maine at Fort Kent. The Arts and Science Department is also included in articulation agreements.
made by NMCC nursing, business, and technical programs at other institutions of higher learning.

Finally, Liberal Studies is a starting point for those who are undecided about their educational and career goals. The flexibility of the associate in arts curriculum allows students to sample a wide variety of courses in both the liberal arts and career and technical programs.

BUSINESS TECHNOLOGY DEPARTMENT

The Business Technology Department promotes occupational and technical competence, individual growth and social responsibility in students preparing for careers in accounting, business administration, network administration, cybersecurity and various certificate programs. In addition, the students’ preparation allows for upward academic mobility when they wish to transfer credit to baccalaureate-granting colleges and universities.

Classroom learning experiences support the use of laptop computers and personal devices to create an active learning environment where students put into practice the principles, theories and technology that are fundamental to the understanding of their specialized field of study.

In addition, general education courses are an important part of the students’ program of study. The faculty are committed to preparing students to function in the current job market and for transfer to baccalaureate-granting colleges and universities. Faculty maintain expertise in their specialized field through a variety of activities including involvement in professional organizations, attendance at workshops and seminars, and working in their respective field.

The department is nationally accredited by the Accreditation Council for Business Schools and Programs (ACBSP) for the offering of its accounting and business administration programs that culminate in the associate in applied science degree.

Accounting

Accounting combines the study and practice of accounting with the design, implementation and monitoring of information systems. Such systems use modern information resources, together with accounting controls and methods, to provide users the financial information necessary to manage their organizations. The purpose of accounting is to provide timely and accurate financial and statistical reports for internal management decision making and for external parties such as creditors, investors, and regulatory and taxation authorities.

NMCC’s two-year accounting program provides knowledge and skills to maneuver newly emerging systems that require a combination of technical and financial knowledge. Students will learn the latest in electronic commerce, direct business-to-business communication, and paperless work processes in the College’s wireless multimedia smart classrooms.

Graduates of this program will be prepared for entry level positions at accounting firms, small businesses, manufacturing firms, banks, hospitals, school systems, churches, and government agencies.

Besides providing training for employment, the program prepares students to continue their education at a four-year college or university. Transfer agreements with several colleges and universities ensure that graduates can transfer, as an advanced student, into a four-year program.

Business Administration

The Business Administration program is broad and diversified in its course offerings. Courses are designed to impart knowledge and to develop skills and abilities that will prove practical, useful and marketable. Through its course offerings, the program continually strives to maintain relevance and a high-level of quality. Instructors, with their strong business and industry backgrounds, blend theory and practice in a unique and meaningful way.

Graduates will be qualified for employment as accounting clerks, loan officers, entry-level managers, state and federal government employees, and related positions. Besides providing training for employment, the program prepares students to continue their education at a four-year college or university. Transfer agreements with several colleges and universities ensure that graduates can transfer, as an advanced student, into a four-year program.

Entrepreneurship

The Entrepreneurship certificate program is designed to prepare prospective entrepreneurs to launch new ventures by educating them in the fundamentals of starting and operating their own business. For entrepreneurs who already have established a business, this program will help them strengthen their business and management skills.

Entrepreneurship is an employment strategy that leads to economic self-sufficiency. Self-employment provides you with the potential to create and manage businesses, in which you function as the employer or boss, rather than being an employee. Graduates who want to expand their business management skills may choose to complete the Business Administration associate degree program at NMCC. Thirty of the 33 credits earned in the Entrepreneurship certificate will apply toward an AAS in Business Administration.

Network Administration & Cybersecurity

Network Administration & Cybersecurity is a two-year program which prepares students to enter the workforce as an IT administrator, technician or to continue on to a four-year program. Students learn to build and optimize computers and servers, set-up and administer a computer network, and maintain operating systems. The first year provides training in Windows 10, computer repair, Introduction to Windows Server 2016, Introduction to Linux, and networking hardware. Seniors receive advanced training in configuring servers, network administration, micro electronics, computer forensics, and cybersecurity. All courses have considerable hands-on labs to reinforce the theory.

Office Assistant

The Office Assistant certificate program is designed to provide basic, entry-level clerical skills. The program teaches, improves and reinforces math, accounting, office procedures, oral and written communication, filing, and word processing skills. Graduates are prepared for entry-level office positions. Students may also choose to continue their education.

EMERGENCY MEDICAL SERVICES DEPARTMENT

The Emergency Medical Services (EMS) Department prepares the pre-hospital provider to enter into professional practice and work in a variety of healthcare settings. The EMS department utilizes both an innovative educational delivery approach and state of the art equipment including a full simulation center and ambulance to ensure graduates are well prepared for the rigors of the healthcare environment they will face. Students will apply didactic knowledge gained from their studies as well as psychomotor skills to complete various clinical rotations throughout the program.
Community Paramedicine

The Community Paramedicine program is designed to educate practicing paramedics, who are primarily employed in the pre-hospital emergency environment, to become competent community paramedics. Community paramedics work collaboratively with public health, home care and primary care professionals in non-emergency settings, providing an invaluable service to an underserved population.

Community paramedics help patients meet critical health needs by establishing health systems that promote health and wellness, while serving as advocates, educators, facilitators, liaisons and resource coordinators. The program is designed to allow paramedics to perform needs assessments and assist in the development of community paramedicine initiatives that meet very specific and individualized community needs. Paramedics having earned an academic credential (associate degree or higher, in any field) may enroll directly into the advanced certificate level of the program; those candidates who have not yet earned an associate degree will be considered for the associate degree in science level of the program.

Community Paramedicine is a new and exciting career choice for experienced paramedics. In addition to serving communities in the traditional roles, community paramedics are employed by acute care hospitals, long term care facilities, assisted living organizations, public health entities, and municipalities.

Emergency Medical Services

The Emergency Medical Services program is designed to prepare individuals to become national registered paramedics. The curriculum combines intense classroom and lab instruction with extensive clinical experiences to assure that graduates are competent, confident practitioners. The program follows national education standards and graduates are eligible to take the National Registry Paramedic License examinations. In addition to the core content, students earn certifications in Advanced Cardiac Life Support (ACLS), Pre-hospital Trauma Life Support (PHTLS), Pediatric Advanced Life Support (PALS), Paramedic Interfacility Transport (PIFT), Advanced Medical Life Support (AMLS) and Emergency Pediatric Care (EPC). The program is authorized as a training program by the Committee on Accreditation of Education Programs for the Emergency Medical Services.

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The multiple entry/multiple exit program permits students to exit after completion of specific course requirements and be eligible to take the national certification exams for EMT, Advanced EMT and Paramedic. Currently licensed providers may be accepted into the higher levels of the program.

NURSING AND ALLIED HEALTH DEPARTMENT

The Nursing and Allied Health Department provides programs which prepare graduates to be employed in a variety of health care settings as competent health care providers.

The programs are supported by general education studies and a number of required courses supplement the occupational areas of study. Students are expected to combine theory and didactic classroom content with practical application in both lab and clinical settings. Occupational areas offer current instruction by faculty members who maintain theoretical and clinical expertise in specialized fields of knowledge. Faculty seek on-going professional development in order to maintain their individual competencies in the rapid and ever-changing healthcare environment.

To participate in any of these healthcare related programs, students must attest to criminal history and pending criminal data. Convictions and pending charges of concern will be reviewed by clinical agencies to determine if students can work at these sites. Students who are not accepted at a clinical agency will not be able to meet program requirements, resulting in dismissal from the program. Students found to be untruthful or misleading on the application form and/or program attestation statements may be dismissed from the program.

Graduates are able to secure employment in a variety of clinical settings and/or transfer to baccalaureate levels of education in their areas of major.

Medical Assisting

NMCC offers a one-year certificate in Medical Assisting that prepares students to enter the rapidly expanding field of medical assisting. Medical assistants are multi-skilled allied health professionals that perform both administrative and clinical procedures in ambulatory medical settings. The medical assisting certificate provides basic skills to students. Some of the skills taught in the certificate program include obtaining vital signs, recording a medical history, administering oral and parenteral medications, preparing the patient for examination and assisting the health care provider with the physical examination. Administrative skills include scheduling patient appointments, performing bookkeeping procedures, as well as entry-level medical and diagnostic coding, and completion of insurance claim forms. Students also learn to perform diagnostic tests such as 12-lead EKGs, CLIA-waived laboratory tests, and collection of blood samples.

The College's two-year associate degree Medical Assisting program provides additional clinical and administrative training. In the clinical component of the program, students will have the opportunity to understand the concept of professionalism and principles of therapeutic communication, teach patients about health and wellness, and gain a more extensive understanding of anatomy and physiology, and clinical applications of pathophysiology and pharmacology. In the administrative component of the program, students will learn about medical law and ethics and how to maintain electronic health records.

Graduates of the medical assisting program will be competent entry-level medical assistants who can secure employment in medical offices or ambulatory clinics. In the state of Maine, medical assistants work under the direction of health care providers. Upon graduation, students may elect to sit for the Certified Medical Assistant (CMA) and/or the Registered Medical Assistant (RMA) national certification exams.

The Medical Assisting Associate degree program is accredited by the Commission on Accreditation of Allied Health Education Programs (www.cahep.org) upon the recommendation of the Committee on Accreditation of Education Programs for the Emergency Medical Services.

The Medical Assisting Associate degree program is accredited by the Commission on Accreditation of Allied Health Education Programs (www.cahep.org) upon the recommendation of the Medical Assisting Education Review Board.

Nursing

The associate in science degree Nursing program is designed to offer individuals the opportunity to enter the nursing profession as a registered nurse.

The nursing curriculum focuses upon basic human needs of individuals throughout the lifespan. Students develop the knowledge and skills necessary to provide nursing care to individuals with well-defined health problems. Legal, ethical and role responsibilities of the nurse are addressed within each level.

Guided learning opportunities in local healthcare facilities, the campus lab, and the state-of-the-art simulation center, provide students with valuable hands-on experiences that complement the classroom curriculum. Upon completion of the associate degree nursing program, graduates may choose to continue their education toward a bachelor of science degree in nursing. NMCC's nursing program has transfer agreements in place with four-year institutions for a seamless transition from RN to BSN.
Candidates who are graduates of an approved practical nursing program are provided an opportunity for advanced standing in the nursing program. Graduates will be eligible to take the NCLEX-RN examination, administered by the National Council of State Boards of Nursing (NCSBN), to qualify as a registered nurse. Graduates will find employment opportunities as an integral team member in a variety of healthcare settings.

The program holds national accreditation by the Accreditation Commission for Education in Nursing (3390 Peachtree Road NE, Suite 1400, Atlanta, GA 30326; www.acenursing.org) and is fully approved by the Maine State Board of Nursing (161 Capital St., 158 State House Station, Augusta, ME 04333-0158; www.state.me.us/boardofnursing).

Practical Nursing

The Practical Nursing program is designed to offer individuals the opportunity to enter the nursing profession as a practical nurse.

The nursing curriculum focuses upon basic human needs of individuals throughout the lifespan. Students develop the knowledge and skills necessary to provide nursing care to individuals with well-defined health problems. Legal, ethical and role responsibilities of the nurse are addressed within each level. Guided learning opportunities in local healthcare facilities, the campus lab, and state-of-the-art simulation center, provide students with valuable hands-on experiences that complement the classroom curriculum.

The program is approved by the Maine State Board of Nursing (161 Capital St., 158 State House Station, Augusta, ME 04333-0158; www.state.me.us/board).

Graduates will be eligible to take the NCLEX-PN examination, administered by the National Council of State Boards of Nursing (NCSBN), to qualify as a practical nurse. Graduates will find employment opportunities as an integral team member in a variety of healthcare settings. Practical nurses are integral members of the healthcare team and will function under direct or indirect supervision of an experienced registered nurse.

Effective July 7, 2022, this nursing program is a candidate for initial accreditation by the Accreditation Commission for Education in Nursing. This candidacy status expires on July 7, 2024. Accreditation Commission for Education in Nursing (ACEN), 3390 Peachtree Road NE, Suite 1400 Atlanta, GA 30326 (404) 975-5000 http://www.acenursing.com/candidates/candidacy.as

TRADE AND TECHNICAL OCCUPATIONS DEPARTMENT

NMCC’s Trade and Technical Occupations Department offers a wide range of programs that provide classroom instruction and hands-on training in three major cluster areas. The transportation trades include training of technicians in automotive collision repair, automotive repair technology and diesel hydraulics technology. The construction trades include building construction technology, plumbing and heating, electrical construction and maintenance, and structural welding. The technical trades include computer numerical control, water treatment technology and wind power technology.

Each program requires a broad-based education centered on a core curriculum, including technical specialty and general education courses. Most programs offer both an associate degree and certificate level option. The certificate offerings focus primarily on technical course work. The comprehensive nature of the associate degree curriculum provides graduates with added flexibility in their careers, enabling them to adapt readily to new tasks and work environments.

Automotive Collision Repair

NMCC’s Automotive Collision Repair program offers a broad range of training from collision repair to custom painting, emphasizing the skill standards required for a technician to become Automotive Service Excellence (ASE) certified. The latest technology is used with computer matching capabilities in paints and in the measuring of the automobile after sustaining collision damage along with creating a written estimate.

Instruction is given in plastic and composite repair in preparation for the application of paint. The second year of the program reinforces the skills learned in the first year; however, more emphasis is placed on major collision appraisal and repair and the auto body refinishing process. Processes includes acrylic urethanes, polyurethanes and basecoat, clear coat in solvent based and waterborne paint systems, and tri-coat paint systems. Emphasis is also placed on color matching, mixing and tinting colors with hands-on experience. To insures accountability for time and materials, second year students also utilize work order system.

Graduates of the program will find job opportunities with auto collision repair paint shops, new and used car dealers, auto glass shops, and truck body builders. With experience, advanced positions may be available in supervision, insurance adjusting, sales and service, auto product field representation with collision frame shops and in self-employment.

The Automotive Collision Repair program is ASE accredited at the master level.

Automotive Technology

Automotive Technology is a program designed to provide broad fundamental training in all aspects of automotive service and repair, employing up-to-date methods and materials. The program emphasizes the ASE Education Foundation skills standards required for a technician to become Automotive Service Excellence (ASE) certified. In the first semester, students concentrate on the under-car chassis, including wheels/tires, tire pressure monitoring systems, wheel balance techniques, brakes, ABS/traction control systems, starting and charging systems, restraint systems, lighting, vehicle wiring are integral to the program. There is also a course in motor vehicle inspection and students may take the Maine Class A, E, D, and T inspection license exams. In the second year, students cover the areas of engine management diagnostics and repair, including: computers and control systems, fuel delivery/air induction, igniton systems and emission control. In the final semester, the course covers areas of automatic/manual transmissions and final drive assemblies. Incorporated into the program are technical courses that enhance learning on the maintenance of current automotive standards.

These include basic automotive electricity, automotive electronics, automotive heating and air conditioning, advanced electronics, hybrid and electric vehicles, and light duty diesel systems. The program meets the quality training of automotive certified technicians as set by ASE. Students will be eligible for ASE professional certifications upon completion of the program. Graduates of the program will be qualified as entry level technicians, finding employment with automobile dealerships, independent repair facilities, after-market specialty shops and other related businesses.

The Automotive Technology program is ASE accredited at the master level.

Building Construction Technology

The Building Construction Technology one-year certificate program provides up-to-date training in the tools of the construction trade including the proper methods of construction, the appropriate materials to use and the related knowledge necessary to enter the trade.
Students learn and practice the safe use of power and hand tools, the principles of building construction, including floor framing, wall framing, roof framing, wall partition framing, exterior finish, roofing, attic venting and insulating techniques.

Graduates will be qualified for entry-level positions with building contractors, building suppliers, governmental agencies, home specialty companies, manufacturing firms or other organizations. Building Construction Technology students gain knowledge on the total construction process in their education, which also provides good career advancement opportunities.

Computer Numerical Control

The Computer Numerical Control (CNC) certificate program enables students to develop skills in programming, set-up, and operation of CNC machine tools to produce precision parts and develop the required skills for entry-level employment. Students will develop additional skills in process planning, print reading, CAD/CAM, measurement and inspection, and custom work-holding design, leading to NIMS – National Institute of Metalworking Skills and/or other credentials.

The Computer Numerical Control program at NMCC is located in the College’s HAAS Technical Education Center. The college’s collaborative relationship with HAAS Automation, Inc. affords students access to state-of-the-art machine tools to support training in both entry-level and advanced machining processes.

Job opportunities for graduates include CNC mill operators, CNC lathe operator, and quality control inspectors.

The CNC certificate program is accredited by the National Institute of Metalworking Skills (NIMS).

Diesel Hydraulics Technology

The Diesel Hydraulics Technology program that emphasizes the skill standards required for a technician to become entry level technicians in diesel diagnostic and repairs for trucks and heavy equipment. Fundamental training in all aspects of medium/heavy truck technician training is employed through lecture and hands-on training.

In the first semester, students concentrate on preventive maintenance inspections and repair, basic principles of diesel-engine operation with emphasis on engine tune-up and troubleshooting techniques (i.e., engine timing, and fuel systems operational components). The next semester follows with an emphasis on heavy equipment electrical/electronic troubleshooting and repair, air brake systems, and fundamentals of suspension and steering component service and diagnostics.

In the second year, students concentrate on the principles of hydraulics, hydraulic troubleshooting and diagnosis, followed by diesel engine rebuilding. The last semester’s concentration is truck drive train systems, including transmission and differential rebuilding or replacement, followed by the theory and operation and repair of automatic and manual drive trains, axles, and bogie systems and diagnosis.

The Diesel Hydraulics program meets the quality training of diesel hydraulic technicians as set by ASE and are master level accredited. Students will be eligible for ASE student certifications upon completion of the program.

Graduates can find employment with construction companies, forestry companies, agricultural machinery/heavy equipment dealers, and truck dealerships. Capable graduates may advance into management positions such as team leader, shift foreman, shop supervisor, service manager, parts manager, or sales associate.

The Diesel Hydraulics Technology program is ASE accredited at the Master level.

Electrical Construction and Maintenance

The Electrical Construction and Maintenance program provides a broad fundamental training in the principles used to install electrical equipment and the mathematics necessary to plan electrical systems. National electric code and theory are taught throughout the program.

The first year provides theory and practice in electrical and electronic basics. Studies include the use of diagnostic test equipment and troubleshooting techniques while performing “hands-on” laboratory exercises.

The second year begins with an in-depth study of residential and commercial wiring systems and lighting design. Hands-on exercises include residential wiring, conduit bending and installation, and lighting and control system installation.

Following a thorough study of rotating machinery and power systems analysis, industrial wiring and motor controls are studied. Hands-on exercises include the planning, wiring and testing of motor control circuits, as well as, programmable logic controllers (PLCs).

Graduates of the program will find employment opportunities as beginning electricians with electrical contractors, service shops, power companies, electrical industry equipment suppliers and industrial maintenance operations. After necessary experience and licenses have been obtained, positions may be available as managers, inspectors, supervisors, field representatives or as operators of individual businesses. Presently, two of the four years required for a Journeyman Electrician’s License are awarded to graduates upon completing this program at NMCC.

Plumbing and Heating

Students in the Plumbing and Heating program may choose to pursue an associate degree or a certificate in plumbing, in heating, or in both. Classroom and lab projects provide students with the skills necessary for today’s fast pace and ever evolving world of plumbing and heating. Students can enroll in the Plumbing and Heating associate’s degree program, the one-year Plumbing certificate, or the one-year Heating certificate. Admission to the Heating certificate only requires instructor’s permission.

The first year is spent in the plumbing classroom and lab learning to work with many types of piping systems, including copper, steel and plastics. The student will also learn to properly install and service domestic water pumps, water treatment equipment, plumbing fixtures, drainage and vent lines, and potable water lines. The student will work directly with the sizing of domestic water, drainage and venting systems. The Maine State Plumbing Code will be discussed in detail. The student will be eligible for the Maine Plumbers’ Journeyman Exam upon successful completion of the first year. Individuals who pass the state exam may be issued a Journeyman-In-Training License.

The second year consists of class time in heating and refrigeration, along with participating in the lab, learning to work with many different heating and refrigeration systems and components. The student will learn the major concepts of heat flow, warm air and hydronic heating systems, piping systems and layouts, electrical component wiring, and Maine laws pertaining to oil heating appliances and refrigerant systems. After completion of the heating courses, the student will be eligible to sit for the Maine Journeyman’s Exam for #1 and #2 oils up to 15 G.P.M. In addition, students will receive training in propane and natural gas and heat pump installation. Students will have the opportunity to take national certification exams in propane and natural gas, allowing students the ability to sit for the professional license of “Propane and Natural Gas Technician” license and EPA 608 Certificate for Refrigeration Handling.

Graduates will be qualified for many employment opportunities in the plumbing, heating and refrigeration field, including service technician, installer, and equipment sales, and eventually self-employment.
Trade and Technical Occupations

This program recognizes proficiency at the associate degree level for various trades and technical occupations in which an individual has completed a formal registered* apprenticeship program (i.e. journeyman status). The program is open to individuals who have completed a registered apprenticeship program and apprentices who wish to complete the trade and technical occupations program simultaneously with dual enrollment in the apprenticeship program.

Participation is available to apprentices in a registered or college approved program that is at least three years in duration. Students may be enrolled in the program after they have earned 27 credits in their technical (apprenticeship) specialty area. The student is responsible for providing the necessary documentation to verify his or her successful completion of the technical specialty portion of the apprenticeship program, certification documents, a schedule of training required by the employer and other supporting credentials. The degree will not be awarded until the student has completed the requirements of the apprenticeship program.

Registered by Maine State Apprenticeship Council; Bureau of Apprenticeship Training, U.S. Department of Labor; or formal programs approved by the College.

Structural Welding

In the Structural Welding certificate program students will be presented information on the materials being used, hand and power tools for the job, safety in the workplace, and the correct procedures for the assigned tasks. Students will have the opportunity to develop skills in the shielded metal arc welding process, in preparation for the exam. The curriculum for this program is designed to prepare students for the American Welding Society structural welding qualification test numbers DX-SM-F4-P-A-L, a national certification.

Graduates of the program may find employment opportunities with industrial contractors, ship yards, machine shops, fabrication shops, and manufacturing facilities.

Water Treatment Technology

The Water Treatment Technology program prepares students for a career in the environmentally conscious field of municipal and industrial water and wastewater treatment. The program provides students a fundamental understanding of the scientific principles used to treat drinking water as well as sanitize wastewater before it is discharged back into the environment.

Students will learn industry theory and gain a better understanding of the information across the spectrum, from the basics to an in-depth study of Water and Wastewater Treatment degree and certificates. Students may choose the Associate’s Degree option that covers both water and wastewater treatment, or a certificate option in either.

Graduates will be eligible for the Maine DHHS Class I and II Water Treatment Plant Operator, Class I and II Waster Distribution Systems Operator, Maine DEP Class I and II Wastewater Treatment Plant Operator and NEWA Grade 1 and 2 Collection Systems exams.

Students may find career opportunities with municipal and industrial water and wastewater treatment facilities, state agencies, testing laboratories, and related equipment suppliers.

Wind Power Technology

The Wind Power Technology certificate program prepares students to enter into a rapidly emerging alternative energy industry as technicians. The program offers training in the fundamental skills required to work safely and effectively with utility sized wind power systems.

The first semester of the program offers an introduction to the power industry, electrical and electronics basics, related mathematics concepts, industrial safety practices, fluid applications, and mechanical drive systems. The second semester provides fundamentals of industrial control system applications including automation concepts, related electronics, communication networks, software applications, and power production and distribution. Each semester’s curriculum provides a focus on developing a working knowledge of industry standards and skills required to complete operation, maintenance and troubleshooting tasks.

Graduates of the certificate program will find career opportunities with wind farm operators, turbine manufacturers, and contractors providing construction, maintenance and turbine operational support. Opportunities may include local employers, as well as global energy industry.
## ACCOUNTING

### Associate in Applied Science Degree Program

#### First Semester

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<tr>
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16 CR

#### Second Semester

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<td>CIS 108</td>
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15 CR

#### Third Semester

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<td>ACC 214</td>
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<td>Federal Taxation I</td>
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<td>ACC 223</td>
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<td>Accounting for Non-profit Organizations</td>
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<tr>
<td>ACC 234</td>
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18 CR

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<td>ACC 225</td>
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15 CR

**Total Required**

64 CR

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### Learning Outcomes

- Comply with Generally Accepted Accounting Principles.
- Perform the steps of the accounting cycle.
- Journalize and post adjusting entries for a business entity.
- Prepare financial statements.
- Perform financial statement analysis.
- Utilize accounting information for decision making.
- Prepare a federal income tax return.
- Proficiently use technology.

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NMCC's accounting program is accredited by the Accreditation Council for Business Schools and Programs (ACBSP). The accreditation represents the achievement of meeting the international standards established for associate degree-granting business programs.

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*Major courses; a minimum grade of "C" or 2.0 is required*

Key: CR = Credit Hours
### Model 1: Associate in Applied Science Degree Program

**First Semester**

<table>
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**Second Semester**

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**Total Required** 71

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### Model 2: MAJOR COLLISION REPAIR & REFINISHING Certificate Program

Must have completed the Auto Collision Repair Certificate Program or have permission from the instructor to enroll.

**First Semester**

<table>
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**Second Semester**

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**Total Required** 30

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### Learning Outcomes

- Demonstrate a safe working environment and safe use of tools and equipment in the Automotive Collision Repair Industry.
- Demonstrate how to properly repair a vehicle including estimating, repair planning, repairing, and refinishing the vehicle.
- Perform entry-level skills in metalwork, plastic repairs, refinishing and all aspects of Auto Collision Repair process.
- Understand proper technical terms, descriptions and how to communicate them with others.
- Understand the basic principles of automotive electronic components.
- Demonstrate basic skills in oxyacetylene, MIG, silicon bronze and aluminum welding.
- Be eligible for Maine State Motor Vehicle Inspection License, ASE Certifications in B2, B3, B4, B5, B6, Section 609 Certification of Federal Clean Air Act, I-Car Thin Metals Welding Certification.
- Be able to work efficiently on the repair orders, estimates and body repairs.
**AUTOMOTIVE TECHNOLOGY**
(Continued on next page)

**Certificate Program**

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<table>
<thead>
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<tbody>
<tr>
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<td>AUT 229</td>
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<td>AUT 225</td>
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<tr>
<td>Social Science Elective</td>
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</table>

**Total Required** 31

**Learning Outcomes**
- Demonstrate work area safety and the correct and safe use of tools and equipment used in the automotive repair industry.
- Understand principles of operation, demonstrate ability to diagnose and repair suspension and steering systems, including two- and four-wheel alignments.
- Know the principles of operation, diagnoses and repair of automotive powertrains, including engines, automatic and manual transmission, transfer cases and differentials.
- Perform diagnostics and repair of automotive powertrains, including engines, automatic and manual transmission, transfer cases and differentials.
- Identify the principles of engine performance including fuel delivery and emission systems and demonstrate the ability to diagnose and repair these systems using proper scan tools.
- Understand the principles of automotive electrical and electronic systems and diagnoses and proper repair of these systems.
- Be eligible for ASE certification for A1 through A9 as well as G1, L3, Maine State Motor Vehicle Inspection License and Section 609 Certification of Federal Clean Air Act.
- Comprehend the principles of hybrid/electric vehicle technology and safety requirements, advanced automotive technologies as well as diagnoses and repair.

*Note: AUT courses within a semester are scheduled sequentially, not concurrently

Key: C= Class Hours, CR= Credit Hours, L= laboratory

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**Certificate Program**

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<td>AUT 125</td>
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<td>AUT 216</td>
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<td>MAT 121</td>
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**Total Required** 31

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*The Automotive Technology program has achieved Master Level certification by the National Institute for Automotive Excellence (ASE) after a thorough evaluation.

* Note: AUT courses within a semester are scheduled sequentially, not concurrently

> Major courses; a minimum grade of “C” or 2.0 is required

Key: C= Class Hours, CR= Credit Hours, L= laboratory

---

60

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61
# BUILDING CONSTRUCTION TECHNOLOGY

## Certificate Program

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<th>CR</th>
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</thead>
<tbody>
<tr>
<td>BCT 111 Framing Systems</td>
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<tr>
<td>DRR 117 Blueprint Reading for Construction Trades</td>
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<tr>
<td>ENG 111 English Composition</td>
<td>3</td>
<td>0</td>
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<tr>
<td>SAE 117 Occupational Safety</td>
<td>1</td>
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<tr>
<td>TEC 112 Building Science I</td>
<td>1.5</td>
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<td>10.5</td>
<td>14</td>
<td>16</td>
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<table>
<thead>
<tr>
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<th>C</th>
<th>L</th>
<th>CR</th>
</tr>
</thead>
<tbody>
<tr>
<td>BCT 121 Interior Materials &amp; Methods</td>
<td>3</td>
<td>9</td>
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<tr>
<td>BCT 125 Woodworking</td>
<td>1.5</td>
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<tr>
<td>MAT 121 Technical Mathematics</td>
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<td>TEC 123 Building Science II</td>
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<td>16.5</td>
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## Learning Outcomes
- Demonstrate the safe practice and use of construction tools and know the safety precautions required on the job site.
- Construct floor, wall, and roof framing systems.
- Demonstrate the ability to install windows, doors, and various trim materials.
- Understand heat loss, attic venting, and moisture control measures needed in energy efficient structures.
- Estimate construction costs using material lists prepared by the student.
- Apply good sanding, painting, staining, and clear-coating procedures on all trim and molding.
- Describe typical construction materials and methods as they relate to residential and light commercial buildings.
- Read and understand plans for residential and light commercial buildings.

# BUSINESS ADMINISTRATION

## Associate in Applied Science Degree Program

<table>
<thead>
<tr>
<th>First Semester</th>
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<tbody>
<tr>
<td>ACC 114 Principles of Accounting I</td>
<td>3</td>
</tr>
<tr>
<td>BUS 101 Introduction to Business</td>
<td>3</td>
</tr>
<tr>
<td>CIS 105 Introduction to PC Operating Systems</td>
<td>1</td>
</tr>
<tr>
<td>CIS 113 Introduction to Microcomputer Applications</td>
<td>3</td>
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<tr>
<td>ENG 111 English Composition</td>
<td>3</td>
</tr>
<tr>
<td>MAT 115 Business Mathematics</td>
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<table>
<thead>
<tr>
<th>Second Semester</th>
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<tbody>
<tr>
<td>ACC 120 Principles of Accounting II</td>
<td>3</td>
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<tr>
<td>(or ACC 124 Managerial Accounting)</td>
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<tr>
<td>BUS 109 Entrepreneurship</td>
<td>3</td>
</tr>
<tr>
<td>CIS 108 Spreadsheet Applications</td>
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<td>COM 212 Business Communications I</td>
<td>3</td>
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<tr>
<td>MAT 125 College Algebra</td>
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<thead>
<tr>
<th>Third Semester</th>
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<tbody>
<tr>
<td>ACC 214 Federal Taxation I</td>
<td>3</td>
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<tr>
<td>(or CIS 129 Database Applications)</td>
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<tr>
<td>BUS 117 Business Law I</td>
<td>3</td>
</tr>
<tr>
<td>BUS 217 E-Commerce</td>
<td>3</td>
</tr>
<tr>
<td>BUS 229 Principles of Management</td>
<td>3</td>
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<tr>
<td>COM 111 Speech</td>
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<td>ECO 213 Macroeconomics</td>
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<tbody>
<tr>
<td>BUS 106 Effective Customer Service</td>
<td>3</td>
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<tr>
<td>BUS 214 Project Management</td>
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<td>BUS 239 Human Resource Management</td>
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<tr>
<td>BUS 241 Principles of Marketing</td>
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<td>Humanities Elective</td>
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## Total Required: 64

> Major courses; a minimum grade of "C" or 2.0 is required

## Learning Outcomes
- Demonstrate knowledge of the four managerial functions: planning, organizing, leading, and controlling.
- Demonstrate knowledge and skills in the field of human resource management.
- Demonstrate knowledge of marketing research and skills necessary to create a marketing plan.
- Demonstrate knowledge and skills in the field of entrepreneurship.
- Proficiently use technology.

NMCC's business administration program is accredited by the Accreditation Council for Business Schools and Programs (ACBSP). The accreditation represents the achievement of meeting the international standards established for associate degree-granting business programs.
## CAREER STUDIES (Continued from previous page)

### CONCENTRATION IN ALLIED HEALTH

**Associate in Applied Science Degree Program**

<table>
<thead>
<tr>
<th>First Semester</th>
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<tbody>
<tr>
<td>ALH 115 Intro to Health Care Professions</td>
<td>3</td>
</tr>
<tr>
<td>BIO 201 Anatomy &amp; Physiology I with Lab</td>
<td>4</td>
</tr>
<tr>
<td>COL 103 College Success</td>
<td>1</td>
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<tr>
<td>ENG 111 English Composition</td>
<td>3</td>
</tr>
<tr>
<td>Elective (NUT 101, PSY 101, COM 111, or HIS 123)</td>
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<table>
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<tr>
<td>ALH 220 Medical Terminology</td>
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<td>BIO 211 Anatomy &amp; Physiology II with Lab</td>
<td>4</td>
</tr>
<tr>
<td>ENG 226 Introduction to Literature</td>
<td>3</td>
</tr>
<tr>
<td>MAT 116 Quantitative Reasoning</td>
<td>3</td>
</tr>
<tr>
<td>Elective (ENG 227, SPA 101 or HIS 125)</td>
<td>3</td>
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<th>Third Semester</th>
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**Total Required** 60

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### Healthcare Studies Certificate Program

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<tr>
<td>BIO 201 Anatomy &amp; Physiology I with Lab</td>
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<tr>
<td>COL 103 College Success</td>
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<tr>
<td>ENG 111 English Composition</td>
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<table>
<thead>
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<th>Second Semester</th>
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<tbody>
<tr>
<td>ALH 220 Medical Terminology</td>
<td>3</td>
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<td>BIO 211 Anatomy &amp; Physiology II with Lab</td>
<td>4</td>
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<tr>
<td>ENG 226 Introduction to Literature</td>
<td>3</td>
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<tr>
<td>MAT 116 Quantitative Reasoning</td>
<td>3</td>
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<tr>
<td>Elective (ENG 227, SPA 101 or HIS 125)</td>
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**Total Required** 30

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Students pursuing the associate in applied science degree in career studies are required to complete a minimum of 60 credit hours. These credits fall into three categories:

- **Career/Vocational/Technical - 24**
  
  A total of 24 credits must be completed in a career track. Up to 20 credit hours may be awarded to ward this requirement for related experiential knowledge within an occupational track at the College. [Students applying for experiential credits must provide a detailed portfolio to the college’s academic dean for review and possible awarding of credit; students applying for portfolio credits must notify the admissions office at the time of application.]

- **General Education - 21**
  
  A student must have a minimum of 12 credit hours in Communications, Social Sciences, Humanities and Fine Arts plus a minimum of 8 credit hours in Math/Sciences

- **Electives - 15**
  
  A student may take any other courses from within the college to meet the total 60 credit hour requirement, except for developmental courses (courses numbered 099 or lower).
**COMMUNITY PARAMEDICINE**  
(Continued from previous page)

### Associate in Applied Science Degree Program

#### First Semester

<table>
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<tr>
<th>Course</th>
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<tr>
<td>EMS 243</td>
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<td>7</td>
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<tr>
<td>NUT 101</td>
<td>Introduction to Nutrition</td>
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**Total Required:** 14 5 0 16

#### Second Semester

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<td>BIO 211</td>
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**Total Required:** 9 2 9 13

#### Third Semester

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**Total Required:** 7 0 0 17

#### Fourth Semester

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<td>EMS 246</td>
<td>Leadership in EMS</td>
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<td>Diversity / Ethical Reasoning Elective</td>
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<td>Humanities Elective</td>
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**Total Required:** 5 0 0 14

### Certificate Program

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<tbody>
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<td>ALH 124</td>
<td>Health &amp; Safety Compliance</td>
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<td>1</td>
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<td>EMS 243</td>
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<td>7</td>
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<tr>
<td>ENG 111</td>
<td>English Composition</td>
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**Total Required:** 11 3 0 12

#### Fourth Semester

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<td>EMS 245</td>
<td>Community Paramedic Seminar</td>
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<tr>
<td>EMS 246</td>
<td>Leadership in EMS</td>
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<tr>
<td>EMS 247</td>
<td>Community Paramedic Seminar</td>
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<td>3</td>
<td>0</td>
<td>1</td>
</tr>
<tr>
<td>MAT 116</td>
<td>Quantitative Reasoning</td>
<td>3</td>
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<td>0</td>
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</tbody>
</table>

**Total Required:** 5 3 9 9

### Learning Outcomes

- Describe the role of the community paramedic within the healthcare system.
- Prioritize healthcare needs based on disparate populations within the community.
- Promote positive health behaviors in high risk populations.
- Collaborate with healthcare team members to assist in the management of chronic disease through the reduction of social, behavioral, environmental and economic risk factors.
- Provide comprehensive, culturally competent care to individuals and groups.
- Integrate health literacy and evidenced based research application when caring for clients.
- Provide safe and effective care to diverse populations.
- Exhibit the understanding of the leadership role the community paramedic will assume in the EMS system.
### COMPUTER NUMERICAL CONTROL

#### Certificate Program

<table>
<thead>
<tr>
<th>First Semester</th>
<th>C</th>
<th>L</th>
<th>CR</th>
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</thead>
<tbody>
<tr>
<td>MAT 121 Technical Mathematics</td>
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<td>4</td>
</tr>
<tr>
<td>&gt; PMT 110 3D Solid Modeling</td>
<td>1</td>
<td>2</td>
<td>2</td>
</tr>
<tr>
<td>&gt; PMT 111 CNC Mill &amp; Lathe Operations</td>
<td>1</td>
<td>9</td>
<td>4</td>
</tr>
<tr>
<td>&gt; PMT 112 CNC Mill Programming</td>
<td>2</td>
<td>0</td>
<td>2</td>
</tr>
<tr>
<td>&gt; PMT 113 Print Reading for Machinists</td>
<td>2</td>
<td>0</td>
<td>2</td>
</tr>
<tr>
<td>&gt; PMT 114 CNC Lathe Programming</td>
<td>2</td>
<td>0</td>
<td>2</td>
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<tbody>
<tr>
<td>ENG 111 English Composition</td>
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<tr>
<td>&gt; PMT 119 Inspection</td>
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<td>&gt; PMT 121 CNC Mill &amp; Lathe Programming, Setup &amp; Operations</td>
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<td>&gt; PMT 124 Basic CAM for Milling</td>
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<td>&gt; PMT 126 Basic CAM for Turning</td>
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<tr>
<td>&gt; PMT 215 Auxiliary Devices for CNC Mills</td>
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<tr>
<td>&gt; PMT 217 Auxiliary Devices for CNC Lathe</td>
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| Total Required | 36 |

#### Learning Outcomes

- Eligible for NIMS CNC Lathe Operator Certification
- Eligible for NIMS CNC Mill Operator Certification
- Eligible for Sandvik Metal Cutting Technology (MCT) Certification
- Communicate effectively, both written and verbal, form in workplace scenarios using appropriate technical information.
- Recognize safety hazards and potential safety issues and apply safe work practices and procedures in accordance with OSHA standards in the manufacturing workplace.
- Demonstrate proficiency in reading, understanding and following detailed instructions and component drawings.

---

### DIESEL HYDRAULICS TECHNOLOGY

#### Associate in Applied Science Degree Program

<table>
<thead>
<tr>
<th>First Semester</th>
<th>C</th>
<th>L</th>
<th>CR</th>
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<tbody>
<tr>
<td>&gt; AUT 115 Automotive Electricity</td>
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<td>&gt; DIM 112 Introduction to Diesel Hydraulics*</td>
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<td>&gt; DIM 114 Engine Diagnosis / Tune-up*</td>
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<td>ENG 111 English Composition</td>
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<tr>
<td>WEI 101 Introduction to Welding</td>
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<td>2</td>
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| Second Semester | 14 | 22 | 16 |
|------------------|
| > AUT 125 Automotive Electronics | 2 | 2 | 3 |
| > DIM 122 Heavy Equipment / Electrical Systems* | 3 | 9 | 3 |
| > DIM 123 Brake Systems* | 3 | 9 | 1.5 |
| > DIM 125 Suspension / Steering Systems* | 3 | 9 | 1.5 |
| MAT 121 Technical Mathematics | 4 | 0 | 4 |
| SAE 121 Industrial Safety | 3 | 0 | 3 |
| WEI 133 Electric Welding | 2 | 2 | 3 |

| Third Semester | 20 | 31 | 19 |
|------------------|
| > AUT 229 Automotive Heating & Air Conditioning | 2 | 2 | 3 |
| > DIM 211 Hydraulics Technology* | 3 | 9 | 3 |
| > DIM 213 Diesel Engine Rebuilding* | 3 | 9 | 3 |
| PHY 150 Physics | 3 | 2 | 4 |
| Social Science Elective | 3 | 0 | 3 |

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<th>Fourth Semester</th>
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<td>&gt; DIM 221 Drive Train Systems*</td>
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<td>&gt; DIM 222 Air Conditioning Systems / Transport Refrigeration*</td>
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</table>

| Total Required | 68 |

*Note: DIM courses within a semester are scheduled sequentially, not concurrently

Key: C= Class Hours, CR= Credit Hours, L=Laboratory

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The Computer Numerical Control Program is accredited by the National Institute of Metalworking Skills (NIMS).

The Computer Numerical Control Program is accredited by the National Institute of Metalworking Skills (NIMS).

> Major courses; a minimum grade of “C” or 2.0 is required

> Key: C= Class Hours, CR= Credit Hours, L=Laboratory
**DIESEL HYDRAULICS TECHNOLOGY**

(Continued from previous page)

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<td><strong>First Semester</strong></td>
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<td>AUT 115 Automotive Electricity</td>
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<td>COL 103 College Success</td>
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<tr>
<td>DIM 112 Introduction to Diesel Hydraulics*</td>
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<td>DIM 114 Engine Diagnosis / Tune-up*</td>
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<td>ENG 111 English Composition</td>
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<td>WEI 101 Introduction to Welding</td>
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<tr>
<td>AUT 125 Automotive Electronics</td>
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<td>DIM 122 Heavy Equipment / Electrical Systems*</td>
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<tr>
<td>DIM 123 Brake Systems*</td>
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<td>DIM 125 Suspension / Steering Systems*</td>
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<tr>
<td>WEI 133 Electric Welding</td>
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</table>

**Learning Outcomes**

- Demonstrate safety in the workplace, using tools and equipment used in the repair facility.
- Identify truck/equipment routine maintenance standards such as lube, visual check over, and Out of Service procedures.
- Understand the principles of air brake systems and how to diagnose and repair systems including ABS.
- Perform engine valve/injector adjustments (engine tune up).
- Understand the principles of how engine management and exhaust aftertreatment work and how to diagnose and repair.
- Identify different hydraulic pumps and how to adjust relief pressures.
- Troubleshoot and repair electrical systems and engine controls.
- Be eligible for ASE T2-T8 certifications, Maine state Commercial Inspection Licensure and 609 Certification of Federal Clean Air Act.

*Note: DIM courses within a semester are scheduled sequentially, not concurrently

> Major courses; a minimum grade of “C” or 2.0 is required

**EARLY CHILDHOOD EDUCATION**

(Continued on next page)

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<td>ECE 105 Advancing Intellectual &amp; Social Development</td>
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<td>ECE 192 Field Experience in Early Childhood Education I</td>
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<td>PSY 101 General Psychology</td>
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<td>ECE 196 Field Experience in Early Childhood Education II</td>
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<td>ECE 200 Child Growth &amp; Development</td>
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<td>ECE 205 Children’s Literature</td>
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<tr>
<td>BIO 115 General Biology</td>
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<td>CIS 113 Introduction to Microcomputer Applications</td>
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<td>COM 111 Speech</td>
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<tr>
<td>ECE 210 Child Guidance &amp; Discipline</td>
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<tr>
<td>ECE 230 Curriculum in Early Childhood Education (Birth - 3)</td>
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<tr>
<td>ENG 226 Introduction to Literature</td>
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<td>SOC 111 Sociology</td>
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<tr>
<td>ECE 197 Field Experience in Early Childhood Education III</td>
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<td>ECE 220 Education of Young Children with Special Needs</td>
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<td>ECE 235 Curriculum in Early Childhood Education (Ages 3 - 8)</td>
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<td>ENG 226 Introduction to Literature</td>
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<td>SOC 111 Sociology</td>
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</table>

> Major courses; a minimum grade of “C” or 2.0 required

Key: C= Class Hours, CR= Credit Hours, L=Laboratory
**EARLY CHILDHOOD EDUCATION**

(Continued from previous page)

Graduates of the ECE program will:

- Use their understanding of young children’s characteristics and needs, and of multiple interacting influences on children’s development and learning, to create environments that are healthy, respectful, supportive, and challenging for all children.

- Know about, understand, and value the importance and complex characteristics of children’s families and communities; use this understanding to create respectful, reciprocal relationships that support and empower families and to involve all families in their children’s development and learning.

- Know about and understand the goals, benefits and uses of assessment, and understand and use systematic observations, documentation, and other effective assessment strategies in a responsible way, in partnership with families and other professionals, to positively influence children’s development.

- Know, understand, and use positive relationships and supportive interactions as the foundations for their work with young children.

- Identify and conduct themselves as members of the early childhood profession; they will know and use ethical guidelines and other professional standards related to early childhood practices; they will be continuous, collaborative learners who demonstrate knowledgeable, reflective and critical perspectives on their work, make informed decisions that integrate knowledge from a variety of sources, and they will be informed advocates for sound educational practices and policies.

- Know, understand, and use a wide array of effective approaches, strategies, and tools to positively influence children’s development and learning.

- Understand the importance of each content area in young children’s learning; they will know the essential concepts, inquiry tools, and structure of content areas, including academic subjects, and will be able to identify resources to deepen their understanding.

- Use their own knowledge and other resources to design, implement, and evaluate meaningful, challenging curriculum that promotes comprehensive developmental and learning outcomes for all young children.

- Integrate their understanding of and relationship with children and families; their understanding of developmentally effective approaches to teaching and learning; and their knowledge of academic disciplines to design, implement, and evaluate experiences that promote positive development and learning for all young children.

---

**Certificate Program**

<table>
<thead>
<tr>
<th>Semester</th>
<th>Course Code</th>
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> Major courses; a minimum grade of “C” or 2.0 is required

Key: C= Class Hours, CR= Credit Hours, L=Laboratory
# ELECTRICAL CONSTRUCTION & MAINTENANCE

## Associate in Applied Science Degree Program

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<tbody>
<tr>
<td>COL 103 College Success</td>
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<td>&gt; ELE 112 Basic Residential Wiring</td>
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<td>&gt; ELS 115 Basic Electricity / Electronics</td>
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<td>&gt; ELS 116 Basic Electricity / Electronics Lab</td>
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<tr>
<td>DIB 113 Introduction to Digital Systems</td>
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<td>DRR 117 Blueprint Reading for Construction Trades</td>
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## Certificate Program

<table>
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<th>L</th>
<th>CR</th>
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<tbody>
<tr>
<td>&gt; ELC 110 National Electric Code</td>
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<table>
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<td><strong>8</strong></td>
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## Learning Outcomes

- Understand the behavior and principles that govern AC and DC electrical circuits.
- Demonstrate an understanding of the theory and skills associated with the electrical industry.
- Exhibit safety practices and procedures.
- Be eligible to take State of Maine journeyman’s electrician examination and to enter employment under a master electrician.
- Interpret the National Electrical Code as it applies to the electrical industry.
- Qualify for employment opportunities with electrical contractors, electrical equipment suppliers, utilities and industrial maintenance companies.
- Troubleshoot electrical circuits and equipment using available information.
- Calculate electrical quantities.
- Interpret blueprints related to building, mechanical, and electrical system.
- Major courses; a minimum grade of "C" or 2.0 is required

Key: C= Class Hours, CR= Credit Hours, L=Laboratory
# Associate in Applied Science Degree Program

## Pre-requisite: EMT Basic Certificate

### First Semester

<table>
<thead>
<tr>
<th>Course</th>
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<th>CL</th>
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### Pre-requisite: EMT Basic License

### Second Semester

<table>
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<tr>
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### Third Semester

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### Pre-requisite: AEMT Level Licensure

### Fourth Semester

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## Pre-requisite: AEMT Level License

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### Learning Outcomes

- Integrate knowledge and skills in providing high quality, safe emergency care to individuals and groups throughout the lifespan experiencing complex health needs.
- Demonstrate critical thinking and decision making skills through the organization of safe competent care for individuals experiencing life threatening emergencies.
- Utilize effective written, verbal and nonverbal communication skills in caring for patients and families in a variety of healthcare situations and settings.
- Delegate appropriately and work collaboratively with members of the healthcare team.
- Assume professional and legal responsibility and accountability within defined competency roles in managing and directing care to individuals or groups across the healthcare continuum.
- Provide culturally competent care for patients and groups of various ethnic, socio-economic, and cultural backgrounds.

---

CAAHEP
Commission on Accreditation of Allied Health Programs
25400 US Highway 19 North
Suite 158
Clearwater, FL 33763
P:727-210-2350
## ADVANCED EMERGENCY MEDICAL TECHNICIAN Certificate Program

<table>
<thead>
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Pre-requisite: Active EMT Certificate or equivalent licensure

### Second Semester

| EMS 122         | 0  | 0  | 0  | 6  | 2  |
| EMS 126         | 0  | 0  | 6  | 0  | 2  |
| EMS 130         | 0  | 3  | 0  | 0  | 1  |
| MAT 116         | 3  | 0  | 0  | 3  |
| **Total Required** | 3  | 3  | 6  | 6  | 8  |

### Learning Outcomes
- Integrate knowledge and skills in providing high quality, safe emergency care to individuals and groups throughout the lifespan experiencing complex health needs.
- Demonstrate critical thinking and decision making skills through the organization of safe, competent care for individuals experiencing life threatening emergencies.
- Utilize effective written, verbal and nonverbal communication skills in caring for patients and families in a variety of healthcare situations and settings.
- Delegate appropriately and work collaboratively with members of the healthcare team.
- Assume professional and legal responsibility and accountability within defined competency roles in implementing care to individuals in the pre-hospital setting.
- Provide culturally competent care for patients and groups of various ethnic, socio-economic, and cultural backgrounds.

## PARAMEDICINE Certificate Program

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<th>F</th>
<th>CL</th>
<th>CR</th>
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### Second Semester

| EMS 211        | 3  | 2  | 0  | 0  | 4  |
| EMS 215        | 3  | 0  | 0  | 0  | 3  |
| EMS 220        | 0  | 0  | 15 | 5  |
| EMS 222        | 1.5 | 1.5 | 0 | 0  | 2  |
| EMS 223        | 1.5 | 2.5 | 0 | 0  | 3  |
| EMS 236        | 0  | 3  | 0  | 0  | 1  |
| **Total Required** | 9  | 9  | 0  | 15 | 18 |

### Third Semester

| EMS 226        | 0  | 0  | 12 | 0  | 4  |
| EMS 229        | 0  | 3  | 0  | 0  | 1  |
| EMS 231        | 1  | 0  | 0  | 0  | 1  |
| EMS 232        | 0  | 0  | 45 | 1  |
| EMS 233        | 1  | 0  | 0  | 0  | 1  |
| **Total Required** | 2  | 3  | 12 | 45 | 8  |

### Learning Outcomes
- Integrate knowledge and skills in providing high quality, safe emergency care to individuals and groups throughout the lifespan experiencing complex health needs.
- Demonstrate critical thinking and decision making skills through the organization of safe, competent care for individuals experiencing life threatening emergencies.
- Utilize effective written, verbal and nonverbal communication skills in caring for patients in the pre-hospital setting.
- Delegate appropriately and work collaboratively with members of the healthcare team.
- Assume professional and legal responsibility and accountability within defined competency roles in implementing care to individuals in the pre-hospital setting.
- Provide culturally competent care for patients and groups of various ethnic, socio-economic, and cultural backgrounds.
ENTREPRENEURSHIP

Certificate Program

First Semester

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<td>&gt; BUS 101</td>
<td>3</td>
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<tr>
<td>Introduction to Business</td>
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</tr>
<tr>
<td>&gt; CIS 105</td>
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<tr>
<td>Introduction to PC Operating Systems</td>
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<tr>
<td>&gt; CIS 113</td>
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<tr>
<td>Introduction to Microcomputer Applications</td>
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<tr>
<td>&gt; ENG 111</td>
<td>3</td>
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<tr>
<td>English Composition</td>
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<tr>
<td>&gt; MAT 115</td>
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<tr>
<td>Business Math (or MAT 116 Quantitative Reasoning)</td>
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Second Semester

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<td>Computerized Accounting</td>
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<td>&gt; BUS 109</td>
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<tr>
<td>Entrepreneurship</td>
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<td>&gt; BUS 241</td>
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<tr>
<td>Principles of Marketing</td>
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<tr>
<td>&gt; CIS 108</td>
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<tr>
<td>Spreadsheet Applications</td>
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Learning Outcomes:

- Perform financial statement analysis.
- Utilize accounting information for decision making.
- Demonstrate knowledge of marketing research and skills necessary to create a marketing plan.
- Demonstrate knowledge and skills in the field of entrepreneurship.
- Proficiently use technology.

LIBERAL STUDIES

Associate in Arts Degree Program

First Semester

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<tr>
<td>&gt; Diversity Elective</td>
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<td>(PHI 206 or HIS 206)</td>
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<td>&gt; Humanities Elective</td>
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<tr>
<td>&gt; Social Science Elective</td>
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Second Semester

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<td>&gt; Writing Elective</td>
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Third Semester

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Fourth Semester

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Minimum Required |

60

Key: CR= Credit Hours

> Major courses; a minimum grade of "C" or 2.0 is required

> Major courses; a minimum grade of "C" or 2.0 is required
LIBERAL STUDIES
(Continued from previous page)

Transfer Certificate Program

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Second Semester

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Graduates of the Liberal Studies program will:

- Be able to communicate effectively, both orally and in writing.
- Be able to search for, access, evaluate information from a variety of sources and use that information ethically and legally for research and personal purposes.
- Understand mathematical concepts and be able to perform mathematical operations to solve practical problems.
- Demonstrate the ability to be consumers of biological and other scientific information to better inform their daily lives.
- Be able to analyze or explain causal forces which shape social structures, institutions, or behavior through time.
- Be able to read, analyze, and interpret significant texts in order to make meaning, find purpose, and choose values that enhance our understanding of ourselves and govern our relationships with others.
- Develop knowledge and appreciation of the aesthetic dimensions of humankind.
- Demonstrate knowledge of cultural differences.
- Develop an understanding of ethical theories and develop a logical system of values and morality and be able to apply those values and principles to moral problems.
- Develop the basic academic skills and traits necessary to complete a college degree.

MEDICAL ASSISTING
(Continued on next page)

Associate in Applied Science Degree Program

First Semester

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<td>MDA</td>
<td>Medical Assisting Procedures I with Lab</td>
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| Second Semester

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| Summer Semester

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<td>Quantitative Reasoning</td>
<td>3</td>
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<tr>
<td></td>
<td>MDA</td>
<td>Medical Insurance &amp; Coding</td>
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| Third Semester

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| Fourth Semester

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> Major courses; a minimum grade of "C" or 2.0 is required

Key: CR= Credit Hours
## Medical Assisting Certificate Program
(Continued from previous page)

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**Second Semester**

| ENG 111        | 3  | 0  | 3  |
| HIT 114        | 3  | 0  | 3  |
| HIT 116        | 3  | 2  | 4  |

**Summer Semester**

| MDA 223        | 1  | 2  | 5  |

**Total Required** 33

---

### Learning Outcomes:

- Demonstrate an understanding of anatomical structure and normal physiological functions in the human body and of medical terms descriptive of body systems.
- Demonstrate a basic understanding of the concepts and applications of pharmacology to include safe medication administration.
- Demonstrate effective communication with patients, their families, and other members of the health care team.
- Integrate principles of safety, sterilization and disinfecting in all aspects of patient/office procedures.
- Demonstrate administrative competency, to include but not limited to, scheduling, bookkeeping procedures, records management, coding and insurance processing.
- Demonstrate clinical competency to include, but not limited to, specimen collection, processing and analysis, obtaining vital signs, preparing patients for exams or treatments, assisting in procedures, and patient education.
- Demonstrate professional behavior that reflects an internalization of ethical, legal and self management concepts.
- Demonstrate critical thinking skills through organization of safe, competent care provided for individuals.

---

## Medical Coding Certificate Program

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<td>HIT 114</td>
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<td>HIT 116</td>
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**Second Semester**

| HIT 112        | 3  | 0  | 3  |
| HIT 115        | 3  | 0  | 3  |
| HIT 214        | 3  | 0  | 3  |
| HIT 216        | 3  | 0  | 3  |
| MAT 116        | 3  | 0  | 3  |

**Second Semester**

| HIT 219        | 0  | 6  | 2  |

**Total Required** 33

---

### Learning Outcomes:

- Demonstrate the ability to translate information from the medical record into standardized numerical codes accurately and in an efficient manner.
- Demonstrate professional behavior in the workplace including patient confidentiality and professional ethics.
- Recognize factors that affect third-party reimbursement.
- Demonstrate entry level skills in coding with ICD-10-CM/PCS and CPT.
- Describe the relationship between coding and reimbursement in healthcare.
- Demonstrate clear and effective communication skills, critical thinking, and problem solving within their scope of practice.
- Demonstrate theory, technology, and interpersonal skills that may be applied to a variety of employment settings.
- Describe the principles and mechanics of the electronic health record (EHR).
- Transfer to an advanced degree in such areas as Health Information Management, if desired.

---

The Medical Assisting Certificate Program is accredited by the Commission on Accreditation of Allied Health Education Programs (www.caahep.org) upon the recommendation of the Medical Assisting Education Review Board.

---

> Major courses; a minimum grade of “C” or 2.0 is required

Key: C= Class Hours, CR= Credit Hours, L= Laboratory

---
Associate in Applied Science Degree Program

First Semester

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Second Semester

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Total Required: 64

Certificate Program

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Second Semester

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Total Required: 31

Learning Outcomes

• Demonstrate the skills required to gain and maintain entry-level employment in the information technology industry.
• Explore different areas of expertise and analyze career opportunities.
• Install, troubleshoot, and monitor a secure network to maintain integrity, confidentiality, and availability of data and service.
• Understand the computer forensics profession and investigations.
• Explain digital forensics analysis and validation.
• Describe the role of an ethical hacker.
• Identify desktop and server operating systems vulnerabilities and explain ways to fix them.
### Associate in Science Degree Program

#### Pre-requisites

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#### First Semester

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#### Winter Session

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(Only required for LPNs entering second semester)

#### Second Semester

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#### Fourth Semester

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</table>

**Total Required**

60 / 61

*All pre-requisites must be completed prior to entering the program.*

---

### Learning Outcomes

- Evaluate holistic nursing care provided to diverse clients, families, and groups across the lifespan from a variety of settings to ensure that it is compassionate, age and culturally appropriate.
- Collaborate with the interprofessional health care team to manage and coordinate the provision of safe, quality care for clients, families and groups.
- Demonstrate effective use of strategies and client care technology to mitigate errors and reduce the risk of harm to clients, self, and others in a variety of settings.
- Incorporate integrity and accountability while providing client-centered, standard-based nursing care consistent with established regulatory, legal and ethical principles.
- Utilize leadership, management, and priority setting in the provision of safe, high quality client-centered care in a financially responsible manner.
- Demonstrate use of best current evidence, clinical expertise, and quality improvement practices when making clinical decisions in the provision of client-centered care.

---

The associate nursing program at NMCC is accredited by the Accreditation Commission for Education in Nursing (ACEN), 3390 Peachtree Road NE, Suite 1400, Atlanta, GA 30326 and is approved by the Maine State Board of Nursing.

The most recent accreditation decision made by the ACEN Board of Commissioners for the associate nursing program is Continuing Accreditation.

The Maine State Board of Nursing may refuse to grant a license on the basis of the criminal history record information relating to convictions denominated in Title V Chapter 341 Section 5301 Subsection II of the Maine Revised Statutes Annotated.
## OFFICE ASSISTANT

### Certificate Program

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<td>CIS 113 Introduction to Microcomputer Applications</td>
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<td>ENG 111 English Composition</td>
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<td>CIS 108 Spreadsheet Applications</td>
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### Learning Outcomes

- Perform the steps of the accounting cycle.
- Demonstrate the ability to use computerized accounting software.
- Prepare professional formatted documents to current business and discipline preferences.
- Demonstrate knowledge and skills in the field of business.
- Proficiently use technology.

## PLUMBING & HEATING TECHNOLOGY

### Associate in Applied Science Degree Program

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> Major courses; a minimum grade of “C” or 2.0 is required

Key: C= Class Hours, CR= Credit Hours, L=Laboratory
PLUMBING & HEATING TECHNOLOGY
(Continued from previous page)

PLUMBING Certificate Program

First Semester

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Second Semester

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Total Required 28

HEATING Certificate Program

First Semester

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Second Semester

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<td></td>
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Learning Outcomes

• Install Oil, Gas, Water Distribution, Hydronic Distribution and Drainage Waste & Vent piping and fitting using threading, soldering, grooving, compression, expansion and solvent welding systems.

• Correctly size and design distribution systems associated with the Plumbing and Heating trade water distribution, gas distribution and DWV systems.

• Demonstrate correct and safe installation, service and troubleshooting methods of plumbing, hydronic, and refrigeration and Air Conditioning systems.

• Demonstrate correct and safe installation and troubleshooting methods for the Wiring and Controls needed for the Plumbing, Heating, and Refrigeration and AC industry as well as be able to read and understand basic ladder and schematic diagrams.

• Understand State and Federal Codes governing the installation and service requirements needed for the Plumbing & Heating trades as well as be able to read and interpret trade blueprints.

• Be eligible for the following licenses and certifications:
  a. Maine State Journeyman Heating License
  b. Maine State Journeyman in Training Plumbing License
  c. Maine State Propane & Natural Gas Technician License
  d. Certified Employees Training Program (CETP) Certificates for Basic Principles and Practices, 4.2, 4.3, 4.4, 4.5, and 4.6 Books
  e. EPA 608 Universal Refrigeration Certification

Must have completed the Plumbing Certificate Program or permission of the instructor to enroll in this certificate program.

Key: C= Class Hours, CR= Credit Hours, L=Laboratory
# PRACTICAL NURSING
(Continued from previous page)

## Certificate Program

<table>
<thead>
<tr>
<th>Pre-requisites</th>
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**First Semester**

| > BIO 201 | Anatomy & Physiology I with Lab | 3 2 4 |
| ENG 111 | English Composition | 3 0 3 |
| >> NUR 101 | Fundamentals of Practical Nursing | 8 0 8 |
| >> NUR 106 | Clinical Practicum I Adult / Geriatric | 0 9 3 |
| | | 14 11 18 |

| > BIO 211 | Anatomy & Physiology II with Lab | 3 2 4 |
| >> NUR 105 | Pharmacology for Practical Nursing | 3 0 3 |
| >> NUR 107 | Practical Nursing Across the Lifespan | 8 0 8 |
| >> NUR 109 | Clinical Practicum II Special Populations | 0 9 3 |
| | | 14 11 18 |

**Second Semester**

**Total Required** 36

*ALH 124: Health and Safety Compliance must be successfully completed within twelve months or immediately prior to enrollment into NUR 104: Clinical Practicum I.

Anatomy & Physiology and English Composition courses are offered every semester at NMCC, and may be taken prior to beginning the Practical Nursing courses when the schedule allows.

---

## Learning Outcomes

- Assume legal and ethical responsibility and accountability consistent with the Maine State Nurse Practice Act, Maine Board of Nursing rules and regulations, and professional standards of practice. (SLO1)
- Systematically apply the nursing process with individuals and groups across the lifespan to promote wellness, prevent illness and facilitate adaptation to stressors. (SLO2)
- Incorporate teaching/learning principles into the provision of care to individuals and groups. (SLO3)
- Implement best practice standards to achieve positive outcomes for clients across the lifespan. (SLO4)
- Incorporate quality improvement as an essential part of the nursing profession. (SLO5)
- Demonstrate professional nursing care that incorporates sensitivity and caring behaviors to culturally diverse clients and groups, including the older adult. (SLO6)
- Demonstrate safe and effective clinical judgements using critical thinking skills when providing nursing care for individuals and groups. (SLO7)
- Collaborate with health care team members, individual clients and groups to achieve optimal outcomes. (SLO8)
- Employ effective therapeutic and professional communication skills in the practice of nursing. (SLO9)
- Utilize healthcare technology and informatics to provide safe and effective nursing care. (SLO10)
- Deliver high quality client care within the changing healthcare system, using resources in a financially responsible manner. (SLO11)
- Demonstrate efficiency as manager of care through prioritization and delegation in providing optimal nursing care for individuals and groups. (SLO12)
- Develop plans for continued personal and professional growth. (SLO13)
# Structural Welding Certificate Program

<table>
<thead>
<tr>
<th>First Semester</th>
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<tr>
<td>ENG 111 English Composition</td>
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<td>SAE 121 Industrial Safety</td>
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<tr>
<td>WEI 136 Introduction to GMAW &amp; GTAW</td>
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<tr>
<td>WEI 137 Structural Welding II* (7 Weeks)</td>
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<tr>
<td>WEI 138 Open Root Welding* (7.5 Weeks)</td>
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<tr>
<td>WEI 140 Plasma Table Operations</td>
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## Learning Outcomes

- Demonstrate safe and proper use of hand and power tools used by the welder.
- Identify the metals being used and the filler wire needed to weld them.
- Demonstrate the ability to fit and tack a v-groove weld correctly.
- Demonstrate the ability to properly weld a 3/8 v-groove in 4 positions.
- Demonstrate the ability to destructively test a 3/8 v-groove weld and meet AWS test specifications.
- Read and interpret welding symbols used on fabrication, manufacturing and construction prints.
- Demonstrate the ability to weld in all positions with all welding equipment.
- Be eligible for the American Welding Society (AWS) structural certification.

*Note: WEI courses within a semester are scheduled sequentially, not concurrently

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# Water Treatment Technology Associate in Applied Science Degree Program

<table>
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<tr>
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<td>WTT 124 Wastewater Plant Operation</td>
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<td>WTT 221 Wastewater Treatment II</td>
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<td>Humanities Elective</td>
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## Learning Outcomes

- Describe the various processes used within the water treatment and wastewater treatment industry.
- Perform wastewater collection system and water distribution systems inspections.
- Utilize and maintain process documentation in the operation of water and wastewater system.
- Understand the water treatment unit processes including coagulation and flocculation, sedimentation, filtration, and disinfection.
- Understand the wastewater treatment unit processes including preliminary, primary, secondary and tertiary treatment.
- Gain fundamental knowledge of various pumps, valves, flow meters and process analyzers used in the water and wastewater industry.
- Perform various laboratory analyses in the water and wastewater facilities.
- Become eligible for the wastewater, water distribution, wastewater treatment, and collection systems operator certification exams.

Major courses; a minimum grade of "C" or 2.0 is required

Key: C= Class Hours, CR= Credit Hours, L=Laboratory
WATER TREATMENT TECHNOLOGY
(Continued from previous page)

DRINKING WATER Certificate Program
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<td>WTT 111 Water Treatment I</td>
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Second Semester
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TOTAL REQUIRED: 29

Learning Outcomes:
- Describe the various processes used within the water treatment.
- Perform water distribution systems inspections.
- Utilize and maintain process documentation in the operation of water systems.
- Understand the water treatment unit processes including coagulation and flocculation, sedimentation, filtration, and disinfection.
- Gain fundamental knowledge of various pumps, valves, flow meters and process analyzers used in the water industry.
- Perform various laboratory analyses in the water facilities.
- Become eligible for the water treatment and water distribution exams.

WIND POWER TECHNOLOGY Certificate Program
First Semester
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<td>WPT 114 Introduction to Wind Power Industry</td>
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Second Semester
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<td>WPT 213 Wind Power Control Systems</td>
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<td>WPT 214 Wind Power Delivery Systems</td>
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</table>

TOTAL REQUIRED: 35

Learning Outcomes:
- Function successfully as technicians on wind farms and/or in other power production settings.
- Demonstrate a basic understanding of wind energy systems and terminology used within the power industry.
- Demonstrate an understanding of how power generation equipment functions.
- Demonstrate an understanding of troubleshooting techniques utilizing resources available with technical materials and site system information.
- Demonstrate the skills necessary to troubleshoot and repair equipment utilized on a wind farm or other industrial setting.
- Demonstrate skills necessary to use manual and power tools utilized in an industrial setting.
- Demonstrate skills necessary to select and safely use diagnostic test equipment.
- Demonstrate safety concepts used with electrical generation systems, high angle work areas, and rescue with respect to federal regulations and national standards.

> Major courses; a minimum grade of “C” or 2.0 is required

Key: C= Class Hours, CR= Credit Hours, L=Laboratory
Course Descriptions

ACC 110  College Accounting  3 credits / 3 class hrs
Designed to meet the needs of students who are not accounting majors. Emphasis is on manually applying the process of the accounting cycle. Students will be required to journalize, post, adjust and close for an accounting cycle; prepare payroll and payroll tax records; and prepare financial statements. Service sole- ownership businesses are presented. Students are introduced to computerized accounting procedures after they become proficient with the manual process. This course cannot be used for credit by accounting and business administration majors.

ACC 112  Computerized Accounting  3 credits / 3 class hrs
This online course covers small business accounting using a computerized accounting software. Topics include creating a chart of accounts, recording customer and vendor transactions, processing payroll, and printing reports. In addition, setting up a new company is covered, as well as advanced topics such as exporting to spreadsheet software and using the audit trail of the computerized accounting software. Practical application will be by using a computerized homework system and a comprehensive problem. Pre-requisite: ACC 110, ACC 114; or permission of instructor.

ACC 113  Payroll Accounting  3 credits / 3 class hrs
This online course studies federal and state employment laws and their effects on personnel and payroll records with a full explanation of the subject matter using a building block approach to guide the student from the basic principles through the complex applications of payroll. This course is intended to give students a practical working knowledge of the current payroll laws and actual experience in applying regulations. Students are also exposed to computerized payroll procedures. Practical application will be by using a computerized homework system and a comprehensive problem. Pre-requisite: ACC 110, ACC 114 or permission of instructor.

ACC 114  Principles of Accounting I  3 credits / 3 class hrs
This introductory course covers the fundamental principles of accounting as related to a service and/or merchandising sole proprietorship. Emphasis is on developing technical procedures of the accounting cycle including journalizing, posting, adjusting entries, closing books and preparing financial statements. This course exposes the student to specific areas of deferrals and accruals, inventories, payrolls, receivables, payables, and accounting systems. Practical application will be by using a computerized homework system and a comprehensive problem.

ACC 120  Principles of Accounting II  3 credits / 3 class hrs
The first part of the course continues to address topics in financial accounting that began in ACC 114 including the use of GAAP (Generally Accepted Accounting Principles). The remaining emphasis is on the corporate form of ownership. Topics include accounting for bonds, investments in stocks and bonds, business combinations and the statement of cash flows. Practical application will be by using a computerized homework system and a comprehensive problem. Pre-requisite: ACC 114

ACC 124  Managerial Accounting  3 credits / 3 class hrs
This course introduces a business management approach to the development and use of accounting information to support managerial decision-making in both manufacturing and service organizations. Major topics include cost behavior, cost analysis, pricing, profit planning, control measures and the statement of cash flows. Cost-volume-profit relationships will be analyzed to make management decisions. Students will make use of standard costs to measure operating performance and profitability. Responsibility accounting, capital budgeting decisions and ethical challenges in managerial accounting are also covered. Practical application will be by using a computerized homework system. Pre-requisite: ACC 114

ACC 210  Intermediate Accounting I  3 credits / 3 class hrs
This is the first semester of a two-semester course designed to give the student an in-depth overview of Generally Accepted Accounting Principles and financial reporting. Topics include preparation of the balance sheet, income statement, and statement of cash flows; inventory costing; accounts and notes receivables; the allowance method of accounting for bad debts; plant and equipment; investments; and other issues. Practical application will be by using a computerized homework system and case studies. Pre-requisite: ACC 120

ACC 214  Federal Taxation I  3 credits / 3 class hrs
A study of the basic theory of the federal income tax law as it affects individuals and business. Among the topics examined are the computation of gross income, exclusions, capital gains, and losses, property transactions, and various business and personal deductions. Pre-requisite: ACC 120 or ACC 124

ACC 220  Intermediate Accounting II  3 credits / 3 class hrs
Continuation of ACC 210. This is the second semester of a two-semester course designed to give the student an in-depth overview of Generally Accepted Accounting Principles and financial reporting of corporate structured businesses. Emphasis is placed on special problems which may include debt and equity financing, leases, investments, capitalizing interest, and employee compensation. Other dimensions of financial reporting such as earnings per share, accounting changes and error corrections, are also covered. Practical application will be by using a computerized homework system and case studies. Pre-requisite: ACC 210
ACC 223  Accounting for Nonprofit Organizations
3 credits / 3 class hrs
This course consists of the study of fund accounting and the financial statements of state and local governments, hospitals, universities, and other nonprofit entities. General financial principles and fund accounting principles are compared. Specific topics covered include budgets for operations, capital improvements, general funds, revenue funds, debt service funds, trust and agency funds, and proprietary funds. Pre-requisite: ACC 120

ACC 225  Federal Taxation II
3 credits / 3 class hrs
A study of the current tax code as it relates to corporations, partnerships, estates and trusts, along with other selected topics related to taxation of the business entity. Also covered are estate and gift transfer taxes, with time devoted to family tax planning. Pre-requisite: ACC 214

ACC 234  Accounting Information Systems I
3 credits / 3 class hrs
This course covers the conceptual framework to emphasize the professional and legal responsibility of accountants, auditors, and management for the design, operation, and control of AIS (Accounting Information System) applications. It covers the fundamentals of an accounting information system within an organization and examines topics in internal controls and system documentation. The course includes a commercial software package and a text that leads students through the various components of the AIS structure using the software integrated with accounting projects. Practical application will be by using a computerized homework system. Pre-requisite: ACC 114

ACR 211  Painting / Refinishing
6 credits / 3 class hrs / 9 lab hrs
Covers all aspects of the refinishing industry, from safety to the final detailing of the vehicle. Students will also learn color matching procedures using the latest technology and hands-on techniques. Emphasis is placed on base coat/clear coat, tri-coat and waterborne paint products. Pre-requisite: ACR 121

ACR 212  Structural & Mechanical Repairs
6 credits / 3 class hrs / 9 lab hrs
Covers the repair of major collision damage, including straightening frames, uni-body construction, replacing major body sections, aligning, reshaping and finishing of damaged major areas. Front end alignment theory, suspension and steering, power train, electrical, and restraint systems are also covered. Pre-requisite: ACR 211 or instructor's permission

ACR 213  Structural Analysis / Plastics
6 credits / 3 class hrs / 9 lab hrs
Covers intermediate body repairs with measuring systems used. Hydraulic equipment is introduced with hands-on training in structural alignment of the vehicle body. Frame measurement and repair on uni-body and full frame vehicles is covered along with proper sectioning techniques. Pre-requisite: ACR 111

ACR 209  Auto Collision Blueprinting & Estimating
3 credits / 3 class hrs
Provides instruction and hands-on training in the blueprinting and estimating of collision damage. Course will also cover topics, such as insurance coverage, working with appraisers and customers. Pre-requisite: ACR 121

ART 201  Introduction to Film
3 credits / 3 class hrs
This course is an introduction to the study and analysis of film as an art form. Students will view, discuss, and interpret movies from a variety of historical and cultural contexts.

AUT 109  Introduction to Automotive Technology
1 credit / .5 class hrs / 1.5 lab hrs
This is an entry level class designed to introduce students to the automotive field and the advances in technology. Students will start with the history of the automobile, then learn about the employment opportunities in the automotive field and what it takes to become an ASE master technician. Students will have the opportunity to learn about shop safety and the types of tools they will be using and how to use them before going into the shop to start the basic repairs of an automobile such as changing oil, rotating tires and inspecting the vehicle for safe driving. This course meets for 3 weeks.

AUT 112  Suspension & Steering
3 credits / 1.5 class hrs / 4.5 lab hrs
Exposes students to the underside of cars and light trucks. Suspension systems: Theory and operation of tires, tire pressure monitoring systems, tire changing, wheel balancing, suspension systems (conventional and McPherson strut) will be discussed in detail. Disc and drum brakes, brake rotors and pads will also be covered. Steering systems: Theory and operation of conventional and rack and pinion steering systems will be covered, along with how to properly diagnose and repair these systems. Wheel alignment: Theory of front-end geometry including purpose of caster, camber, steering axis inclination, scrub radius, turning radius and toe-in, toe-out will be discussed in detail; techniques of performing thrust angles and four wheel alignments; actual alignments will be done on operational vehicles. Pre-requisite: AUT 109 or instructor's permission

AUT 124  Engine Repair
3 credits / 2 class hrs / 2 lab hrs
Pre-requisite: AUT 116 or instructor's permission

AUT 125  Automotive Electronics
3 credits / 2 class hrs / 2 lab hrs
A continuation of AUT 115, this course covers electrical/electronic systems. Electronics theory is covered giving students an understanding of electronic solid-state components and systems, which will include charging systems, starting systems, ignition systems, anti-lock brakes, supplemental restraint systems and computer controls. Activities completed in this course allow students to learn and understand the concepts of electronics as they apply to vehicle electronic systems and proper diagnosing and repairing of these systems. These activities will include an introduction to electronics covering diodes, transistors, capacitors, and how these semiconductor components are used in electronic systems. Electronic system diagnostics will include the importance of using a digital multimeter and logic probe to prevent meter loading in electronic circuits. Laptop/tablet-based scan tools, graphing meters, oscilloscopes and other electronic diagnostic equipment will be used to understand and diagnose electronic systems during lab activities. Pre-requisite: AUT 115 or instructor's permission

AUT 214  Engine Performance
6 credits / 3 class hrs / 9 lab hrs
Covers the theory and operation of OBD II (On-Board Diagnostics Generation Two) and CAN (Controller Area Network) systems. The complete fuel and emission systems are covered in detail from fuel tank cap to combustion chamber of the engine. Emphasis is placed on fuel injection, ignition and emission control as it pertains to the combustion of the engine.
A U T 228 A l t e r n a t i v e P r o p u l s i o n S y s t e m s

This course prepares students for the Maine State Vehicle Inspection exams. State laws, regulations and proper vehicle inspection procedures are discussed and studied. Emphasized are safety related components for all classes of vehicles. Information classifications A, B, C, D and T. Specific tools, equipment and required materials to perform inspections is also discussed. The course develops diagnostic skills in checking vehicles for safety inspection under Maine motor vehicle safety inspection requirements. Students will be eligible to take the state motor vehicle inspection exams and achieve certification.

A U T 229 A u t o m o t i v e H e a t i n g & A i r C o n d i t i o n i n g

This course provides students with refrigeration theory, heating, air conditioning, and ventilation system operations and methods used to diagnose, adjust and repair these systems. Information covered from previous courses will help students when troubleshooting HVAC electrical/electronic circuit faults. Student will become familiar with aspects of the Federal Clean Air Act and the proper use of HVAC refrigerant, recovery and recycling equipment. Pre-requisite: A U T 125 or instructor’s permission

A U T 230 I n n o v a t i v e A u t o m o t i v e T e c h n o l o g i e s

This course is a comprehensive level course with continued information learned from automotive electronics by increasing student’s knowledge with modern electronic automotive systems. Topics covered in this course will include vehicle safety systems (vehicle-to-vehicle communications, vehicle-to-infrastructure communications, automatic brake control systems, and autonomous detection systems). Other innovative systems that will be discussed are semi and fully autonomous driving, telematics, night vision systems, blind-spot visibility, self park systems, advanced lighting systems and vehicle cyber security. Vehicle computer communications and networks will be discussed, and testing procedures will be performed during lab activities using advanced level equipment. Students will also use their troubleshooting skills developed from previous courses to verify, understand and analyze system faults using appropriate service information. This course will also emphasize safety while working with innovative electronic systems. After successful completion of this course, students will have a greater knowledge of innovative technologies found on vehicles today and future concepts. Pre-requisite: A U T 125 or instructor’s permission

A U T 231 A u t o m a t i c T r a n s m i s s i o n s

The history of the automatic transmission along with construction, theory and operation of the torque converter, planetary gears, clutches, bands and their applications will be discussed. Emphasis on diagnosing and repair along with adjustments of the automatic transmission will be performed. Students will have the chance to diagnose and repair concerns on and off the vehicle. Co-requisite: A U T 223 or instructor’s permission. This is a 7.5 week course.

A U T 232 A l t e r n a t i v e P r o p u l s i o n S y s t e m s

Alternative Propulsion Systems is an advanced level course to enhance students’ knowledge and troubleshooting skills in today and tomorrow’s hybrid HEV, electric vehicles, fuel cell, and other alternative propulsion technologies. Students will use and heighten their troubleshooting skills developed from previous courses to verify, understand and analyze system faults using schematics, laptop-based scan tools, vehicle diagnostic and repair information, technical service bulletins and special service information to pinpoint causes hybrid and electric vehicle drivability concerns. This course will also emphasize high voltage safety while working with hybrid/electric vehicles. Students will understand hybrid vehicle safety features and different procedures and components involved with hybrids today, whether full, medium, or mild hybrids. Students will learn proper techniques and procedures on powering down a hybrid prior to performing any service work and using appropriate tools and personal protective equipment. After successful completion of this course, students will have a greater knowledge of how alternative propulsion technologies operate and safety procedures involved with these systems. Pre-requisite: A U T 125 or instructor’s permission

A U T 233 L i g h t V e h i c l e D i s t r i b u t e d S y s t e m s

The Light Vehicles Diesel Systems course is based on developing changes in light vehicle diesel engines, diesel emissions and diesel OBD II electronic computer control systems. This course will cover diesel engine operational theory, engine fault diagnosis, engine inspection and repair. Other topics covered will be diesel fuels, air induction fuel systems, and turbo chargers. Advanced level topics in this course will include diesel electrical/electronic systems, diesel durability and reliability. The students will use their troubleshooting skills developed from previous courses to verify, understand and analyze faults using schematics, laptop-based scan tools, digital storage oscilloscopes (Pico Scope), vehicle repair information, technical service bulletins and special service information in pinpointing system concerns. The student will at times use original equipment manufacturer (DEM) information to diagnose and repair vehicles when other sources of information are not available. The course will also emphasize the safety of working on diesel engines and related systems. The student will learn and understand the proper techniques on safely depressurizing fuel systems and properly shutting down related systems prior to performing any service work and using proper tools and personal protective equipment. After successful completion of this course, students will have a greater knowledge of light duty diesel technologies found on vehicles today and future makes and models. Pre-requisites: A U T 124 and A U T 125 or instructor’s permission

B C T 11 Interior Materials & Methods

This course will continue the practice and use of hand and power tools necessary for today’s new model vehicles. Students will review theory and practice dry wall finishing procedures. Students will install asphalt shingles and clad eave and rake fascias with aluminum coil stock. Pre-requisite: B C T 111

B C T 125 Woodworking

Students will learn woodworking skills through lecture, demonstration and practical application. A series of projects of increasing complexity and detail will be completed. The techniques required to cut and process panel, solid wood, produce accurate joinery, assemble finished projects, and the skills required to do so in an efficient and cost-effective manner will be covered. Projects will be on an individual team basis. Prerequisite: B C T 111 or instructor’s permission.

B I O 114 Human Biology with Lab

Introduces the anatomy and physiology of the human body. All systems of the body are covered, and each system also has a chemistry component relating to its function. Detailed scientific data and terminology are not used, so that a concept approach can be used to learn about the human body. Recommended for students in early childhood education or liberal studies, as well as for those preparing for a medical career but lacking a biology and/or chemistry background.

B I O 211 Anatomy & Physiology II with Lab

This course is designed for first year students preparing for a career in the medical field. The sequence of topics in the second semester will be as follows: Introduction, Structure levels and Anatomical Positions and Cavities. This will be followed in a topical manner by the skeletal, muscular, and nervous systems. The intent of this approach is to allow the student to develop a concise understanding of how each system of the body functions and interacts. Labs are designed to supplement the lecture portion of Anatomy and Physiology. The concepts covered in the lecture course are explored in greater detail using a variety of aids.

B I O 218 Microbiology Lecture with Lab

This course is a basic introduction to the science of microbiology. The student should develop a broad understanding of both theoretical and laboratory aspects of the science. Specific topics to be covered include general characteristics of bacteria, viruses, protozoa, and fungi; disease transmission; immunology; epidemiology; and microbial control. The student will have the opportunity to practice techniques for specimen collection, culturing, staining, and microscopic observation of representative species. Pre-requisite: B I O 211
Students create customized business plan content while examining entrepreneurial opportunities, financing, marketing, selling and customer service, cash flow, managing employees, and growing a business. Recommended for all students who aspire to business ownership and management.

**BUS 113**  
**Sales Fundamentals**  
3 credits / 3 class hrs

Assists students to analyze the importance of personal preparation for selling effectively, by understanding of self, the product or service, and the customer.

**BUS 114**  
**Personal Finance**  
3 credits / 3 class hrs

Designed to help individuals analyze and direct their own financial affairs. Students will practice and apply skills to begin a lifelong journey of personal financial planning. This course will provide strategies for managing personal financial resources, buying decisions, insurance, investing, and retirement planning. Open to all students.

**BUS 117**  
**Business Law I**  
3 credits / 3 class hrs

Provides a background in the sources of American law and the global legal environment. Provides a basic knowledge of courts and procedures, ethics, torts and crimes, contracts, property and its protection, and debtor-creditor relationship.

**BUS 119**  
**Legal Environment of Business**  
3 credits / 3 class hrs

A survey of the law applicable to business and its environment. The course will help students gain a greater understanding of the standards and methods of reasoning that are used to answer questions about the legal environment in which businesses function. It also covers the legal issues that commonly confront businesses and the way in which our legal system is organized and operates.

**BUS 150**  
**Special Topics in Business Technology**  
3 credits / 3 class hrs

This survey course is intended to provide the opportunity to offer courses of variable content on emerging issues or technology of special interest to the college community that would not normally be part of the MCCC curriculum. Topics and content will vary from semester to semester. This course will increase the awareness of current issues and technology surrounding the student.

**BUS 201**  
**Leadership**  
3 credits / 3 class hrs

Designed to expose senior level students to areas of competence and knowledge that are fundamental to the practice of leadership in a variety of business and life settings. Students will examine the prominent leadership theories, acquire skills common to successful leaders, and listen to opinions of leaders of our own community from business, government, and social service organizations.

**BUS 210**  
**Principles of Insurance**  
3 credits / 3 class hrs

Covers basic ideas, problems and principles found in all types of modern insurance and other methods of handling risk. Personal and business risk management will be included.

**BUS 214**  
**Project Management**  
3 credits / 3 class hrs

Topics include project management life cycle and process; identifying and selecting projects; developing a project proposal; techniques for planning, scheduling, resource assignment, budgeting and controlling project performance; project risks; project manager responsibilities and skills; project team development and effectiveness; project communication and documentation; and project management organizational structures. The concepts in the course support the project management knowledge areas of the Project Management Institute’s A Guide to the Project Management Body of Knowledge (PMBOK® Guide).

**BUS 215**  
**Business Ethics**  
3 credits / 3 class hrs

Introduces contemporary and controversial ethical issues that face the business community. Case studies are utilized to study the competing values and interests involved in ethical situations. Upon completion, students should be able to demonstrate an understanding of their moral responsibilities and obligations as members of the workforce and society.

**BUS 217**  
**E-Commerce**  
3 credits / 3 class hrs

This course explores the opportunities and challenges associated with electronic commerce and the internet. Students will learn the key business strategies and technological elements of electronic commerce essential to succeeding in today’s internet-based economy.

**BUS 229**  
**Principles of Management**  
3 credits / 3 class hrs

Enlivens management principles through its emphasis of real-world management practices. The experiences of people and business used in class illustrate the relevance of each theoretical management concept and how those concepts apply to actual business situations. Due to constantly changing management practices, leadership and change management concepts are integrated in the issues and applications throughout the course.

**BUS 233**  
**Supervisory Management**  
3 credits / 3 class hrs

Designed to provide theoretical and practical knowledge of the management process in a variety of organizational settings. Covers basics of management relationships, individual motivation and behavior in business, and development of skills for daily supervision. This course involves a high level of team work and interaction among students.

**BUS 239**  
**Human Resource Management**  
3 credits / 3 class hrs

An organization’s human resources management function focuses on its people. It includes practices that help the organization deal most effectively with all people in the pre-selection, selection and post-selection phases of the employment cycle. This course covers human resource management trends and changes, equal employment opportunity/affirmative action, job analysis, recruiting, testing, selection, training, performance appraisal, compensation/benefits, labor relations, discipline, workplace health and safety, ethical dilemmas, and cultural diversity.

**BUS 241**  
**Principles of Marketing**  
3 credits / 3 class hrs

Designed for the student planning to take only one marketing course. Provides an overview of the marketing skills and techniques used in product planning and promotion. Explores the strategy behind and implementation of a marketing plan, while covering consumer behavior, product life cycle, marketing communications, and pricing tactics.
This course will develop students' ability to reason scientifically using reduction, and a brief overview of nuclear and organic chemistry. The course covers network security, installing operating systems (Windows 2008 Server and Windows 7), installing network interface cards; cabling; peer-to-peer networks; client/server networks; configuring TCP/IP, DHCP, TCP/IP utilities; 100BaseT; wireless technology; star, ring, bus topologies; monitoring network traffic; protocols and the OSI model; accessing the Internet; measuring server performance; analyzing network traffic; and maintaining and supporting the network.

COE 128 Advanced Operating Systems 3 credits / 2 class hrs / 2 lab hrs

Helps prepare students for the second of two exams required for Microsoft Certified Solutions Associate (MSCA): Windows 8 certification. Students master configuration or support for Windows 8.1 computers, devices, users, and associated network and security resources. Those in this IT Professional career field work with networks configured as a domain-based or peer-to-peer environment with access to the Internet and cloud services. These IT Professionals could be consultants, full-time desktop support technicians, or IT generalists who administer Windows 8.1 based computers and devices as a portion of their broader technical responsibilities. Additional skills addressed, including the recent 8.1 objectives: Design an Installation and Application Strategy, Maintain Resource Access, Maintain Windows Clients and Devices and Manage Windows 8 Using Cloud Services and Microsoft Desktop Optimization Pack.

COE 237 Configuring Advanced Servers 4 credits / 2 class hrs / 4 lab hrs

Configuring Advanced Windows Server 2012 covers the third of three exams required for Microsoft Certified Solutions Associate (MSCA): Windows Server 2012 certification. This course will help validate the skills and knowledge necessary to administer a Windows Server 2012 Infrastructure in an enterprise environment. This MCSE exams collectively validate the skills and knowledge necessary for implementing, managing, maintaining and provisioning services and infrastructure in a Windows Server 2012 environment. This Microsoft Official Academic Course is mapped to the 70-412

**COE 219 Linux**

3 credits / 2 class hrs / 3 lab hrs

This course is intended for students who want to learn about the Linux operating system. It does not assume any prior knowledge of Linux and is geared toward those interested in systems administration as well as those who will use or develop programs for Linux systems. The course provides comprehensive coverage of topics related to Linux certification, including Linux distributions, installation, administration, X-Windows, networking, and security.

COE 118 Office Computer Applications 3 credits / 3 class hrs

This course is designed to develop student proficiency in data manipulation, data exchange and information presentation using a desktop workstation. The lab software used is the Microsoft Office suite of applications operating in a Windows environment. Advanced projects in Word, Excel, Access and PowerPoint are completed. Pre-requisite: CIS 112 or CIS 113

CIS 129 Database Applications for Business 3 credits / 3 class hrs

Provides a comprehensive coverage of database management systems using Microsoft Access. An important part of this course will be using Access to solve business problems by completing hands-on activities to design, create and modify basic to advanced database applications. Activities will include: designing databases, creating and maintaining a database, defining table relationships, using queries and action queries, creating forms and reports, using the switchboard manager, integration and Web features, using macros and VBA, managing and securing a database.

CIS 220 Web Development & Publications 3 credits / 3 class hrs

Examines the development, handling and moving of information primarily using Web based technology for the purpose of increased office information. The course emphasis is on Internet Web page development and graphics, HTML tagging language and publishing tools with emphasis using Microsoft FrontPage. Desktop publishing using Adobe PageMaker is included for exposure to various types of professional publications which can be converted to HTML or PDF formats for electronic viewing. Because the use of images in business publications is essential to effective print and Web publications, this course also provides a survey of digital imaging concepts and technologies. Pre-requisite: CIS 112 or CIS 113

COE 117 Introduction to SQL 3 credits / 2 class hrs / 2 lab hrs

This course introduces the students to SQL, which is the standard relational database language. The course covers the basics of SQL syntax and how to use it in practice, including: creating and managing tables, querying tables, managing data, and securing data.

COE 116+ Certification Preparation Lab 3 credits / 9 lab hrs

This course is the laboratory component of COE 116+Cert Prep. Co-requisite: COE 116

COE 125 Computer Networking Hardware 3 credits / 2 class hrs / 2 lab hrs

Provides the student with basic knowledge and skills needed to install and maintain a network. The course prepares students to become Network+ certified. Network+ is a leading vendor-neutral certification in the computer industry for network technicians. The course covers network security, installing operating systems (Windows 2008 Server and Windows 7), installing network interface cards; cabling; peer-to-peer networks; client/server networks; configuring TCP/IP, DHCP, TCP/ IP utilities; 100BaseT; wireless technology; star, ring, bus topologies; monitoring network traffic; protocols and the OSI model; accessing the Internet; measuring server performance; analyzing network traffic; and maintaining and supporting the network.

COE 128 Advanced Operating Systems 3 credits / 2 class hrs / 2 lab hrs

Helps prepare students for the second of two exams required for Microsoft Certified Solutions Associate (MSCA): Windows 8.1 certification. Students master configuration or support for Windows 8.1 computers, devices, users and associated network and security resources. Those in this IT Professional career field work with networks configured as a domain-based or peer-to-peer environment with access to the Internet and cloud services. These IT Professionals could be consultants, full-time desktop support technicians, or IT generalists who administer Windows 8.1 based computers and devices as a portion of their broader technical responsibilities. Additional skills addressed, including the recent 8.1 objectives: Design an Installation and Application Strategy, Maintain Resource Access, Maintain Windows Clients and Devices and Manage Windows 8 Using Cloud Services and Microsoft Desktop Optimization Pack.

COE 217 Installing & Configuring Servers 4 credits / 2 class hrs / 4 lab hrs

This course gives you in-depth coverage of the 70-740 certification exam objectives and focuses on the skills you need to install and configure Windows Server 2016. After you finish this course, you'll have an in-depth knowledge of Windows Server 2016, including installation, file and storage services, virtualization, Windows containers, and Nano Server, among many other topics.

**COE 218 Windows Administration**

4 credits / 2 class hrs / 3 lab hrs

This course gives you in-depth coverage of the 70-741 certification exam objectives and focuses on the skills you need to configure networking with Windows Server 2016. After you finish this course, you'll have an in-depth knowledge of Windows Server 2016 networking services, including TCP/IP, DNS, DHCP, IPAM, remote access, and advanced networking solutions.

**COE 219 Electronics for Computer Technicians**

3 credits / 2 class hrs / 3 lab hrs

The Electronics for Computer Techs course prepares students to solve electronic problems involving current, voltage, resistance and power. Students will be able to explain the relationship between current, voltage, resistance and power. Students will be able to discuss the relationship between electricity and magnetism. Students will construct DC circuits, using a schematic diagram as a guide, with components such as resistors, relays, switches, lamps, batteries and capacitors. Students will use multi-meters, power supplies and electronic testers throughout the course.

**COE 220 Forensics**

3 credits / 2 class hrs / 2 lab hrs

This course focuses on the use of the most popular forensics tools and provides specific guidance on dealing with civil and criminal matters relating to the law and technology. Includes discussions on how to manage a digital forensics operation in today's business environment. In addition, this book also covers such valuable skills as: Data Acquisition, Processing Crime and Incident Scenes, Working with Windows and Linux Systems, Current Computer Forensics Tools, Macintosh and Linux Boot Processes and File Systems, Recovering Graphics Files.

COE 227 Configuring Advanced Windows Server 4 credits / 2 class hrs / 4 lab hrs

Configuring Advanced Windows Server 2012 covers the third of three exams required for Microsoft Certified Solutions Associate (MSCA): Windows Server 2012 certification. This course will help validate the skills and knowledge necessary to administer a Windows Server 2012 Infrastructure in an enterprise environment. This MCSE exams collectively validate the skills and knowledge necessary for implementing, managing, maintaining and provisioning services and infrastructure in a Windows Server 2012 environment. This Microsoft Official Academic Course is mapped to the 70-412

**CIS 112 Fundamentals of Computer Concepts**

3 credits / 2 class hrs / 2 lab hrs

This course is an introduction to end-user computer concepts and applications. The course focuses on personal computer software applications, computer concepts and terminology regularly used in a computerized business environment to solve business problems. An important part of this course will be hands-on activities using Microsoft Office Suite to demonstrate various information system concepts. Activities will involve the following introductory concepts: Windows operating systems and utility programs, word processing, electronic spreadsheets, database management systems, presentation graphics, and several Internet applications. It will also cover common computer concepts pertaining to security, safety, privacy and network communications and components of the system unit.

CIS 113 Introduction to Microcomputer Applications 3 credits / 3 class hrs

Provides an overview of microcomputer applications, including a brief introduction to computer concepts, microcomputer operating systems, and hands-on experience with a business software suite consisting of word processing, spreadsheets, databases, and presentation graphics.

**CIS 115 Introduction to PC Operating Systems**

1 credit / 1 class hr

This course provides students with a working knowledge of various technology concepts. The course focuses on different elements of technology devices and how fundamentally around how these devices operate. Each student will also develop file management techniques to be successful in everyday situations. Students will develop basic computer application skills, problem solving abilities, and critical thinking skills that are essential to the business environment.

CIS 108 Spreadsheet Applications for Business 3 credits / 3 class hrs

Provides a comprehensive coverage of electronic spreadsheets using Microsoft Excel. An important part of this course will be using Excel to solve business problems by completing hands-on activities to design, create and modify to advanced electronic spreadsheets. Activities will include: formulas and functions, spreadsheet designs, charts and graphs, sorting, filtering, and validation, calculation and 3-0 formulas, protection, data validation, Web features, data tables, scenario management, importing data, using macros, and VBA.

**CIS 105 Introduction to PC Operating Systems**

1 credit / 1 class hr

This course covers the fundamental concepts of computer operating systems. Activities will involve the following introductory concepts: Windows operating systems and utility programs, word processing, electronic spreadsheets, database management systems, presentation graphics, and several Internet applications. It will also cover common computer concepts pertaining to security, safety, privacy and network communications and components of the system unit.
This course offers a comprehensive guide for anyone wishing to take the CompTIA Security+ SY0-501 Certification Exam. It provides an introduction to the fundamentals of network security, including compliance and operational security; threats and vulnerabilities; application, data, and host security; access control and identity management; and cryptography. The course covers new topics in network security as well, including psychological approaches to social engineering attacks, Web application attacks, penetration testing, data loss prevention, cloud computing security, and application programming development security.

COM 111 Speech
3 credits / 3 class hrs / 1 lab hr

This is an oral communication course that offers experience in selection and organization of speech content, audience analysis and delivery. Classroom experience emphasizes preparation and delivery of informative, persuasive, rebuttal speeches plus other types of oral presentations.

COM 212 Business Communications
3 credits / 3 class hrs

Focuses on principles of nonacademic spoken and written expression that will help the student succeed in a business occupation. Concentrates on the practical written and oral applications of communication theory in the forms of business correspondence, memoranda, employee-related documents and oral presentations. The class also includes technological applications and ethical and cross-cultural considerations in business communication practices. Other interpersonal communication topics that may be discussed are nonverbal communication, listening skills, telephone skills and business etiquette. Pre-requisite: ENG 111

DIB 113 Introduction to Digital Systems
3 credits / 2 class hrs / 1 lab hr

The course concludes with a design project which incorporates circuitry studied throughout the course. Pre-requisites: ESL 115 and ESL 116

DIM 114 Engine Diagnosis & Tune-up
3 credits / 3 class hrs / 9 lab hrs

Diagnosis and service of diesel engines to include details of construction, theory of operating of two and four cycle engines, plus failure analysis. Disassembly and rebulding for service and study of engine components is done on mechanical and electronic controlled engines. Engine tune-up, valve settings injector timing, and dynamic/static timing will be practiced for competency and accuracy. Pre-requisite: DIM 112. This course meets for 8 weeks.

DIM 122 Electrical Systems - Heavy Equipment
3 credits / 3 class hrs / 9 lab hrs

Emphasizes the practical aspects of a charging system, starting system, lighting and accessory components, as well as the proper use of the test equipment needed. Reading wiring diagrams and schematics and following circuits through each is practiced. Introduction into the electronic controls of diesel engines is covered extensively with hands-on training. Pre-requisites: AUT 115 and DIM 114. This course meets for 8 weeks.

DIM 123 Brake Systems
1.5 credits / 3 class hrs / 9 lab hrs

Truck air brake systems are explained in detail throughout this course. Air brake operation, system components and the Federal Motor Vehicle Safety standard will be discussed along with practical hands-on learning of servicing, inspecting, adjusting and identifying common brake failures systematically to ensure brake balance. Basic ABS systems failure diagnosis is introduced. Basic component adjustment and replacement is also covered. Pre-requisite: DIM 122. This course meets for 4 weeks.

DIM 125 Suspension & Steering Systems
1.5 credits / 3 class hrs / 9 lab hrs

Detailed analysis of the four main suspension systems used in the trucking industry, walking beam, air, spring and torsion bar design. Troubleshooting and repair of these systems will be covered in detail. Maintenance of tire and wheel components along with wheel end adjustment, replacement and inspection procedures will be practiced. Front axle alignments and adjustments to toe angle will be practiced for competency and accuracy. Introduction to equipment suspensions will be introduced; tractor and roller systems. Pre-requisite: DIM 123. This course meets for 4 weeks.

DIM 211 Hydraulics Technology
3 credits / 3 class hrs / 9 lab hrs

Introduction to fluid forces and their application to power transfer. Emphasis on troubleshooting and repair of hydraulic systems. To include schematic terminology, construction, circuit analysis and testing of the hydraulic system. This unit will also expand the student's knowledge of hydraulic braking and steering systems. Pre-requisite: DIM 125. This course meets for 8 weeks.

DIM 213 Diesel Engine Rebuilding Technology
3 credits / 3 class hrs / 9 lab hrs

Diagnosis and service of diesel engines to include details of construction, theory of operation of two cycle and four cycle engines, plus failure analysis. Disassembly and rebulding for service and study of engine components is done on mechanical and electronic controlled engines. Students have the opportunity to expand their knowledge and apply technical skills. Pre-requisite: DIM 211. This course meets for 8 weeks.

DPR 109 Print Reading for Welders
3 credits / 2 class hrs / 2 lab hrs

This course provides students the knowledge to read and comprehend the various types of prints found in the welding industry. Content includes print reading basics, math and measurement, an overview of welding processes, types of welds and joints, and welding symbol use.

DPR 117 Blueprint Reading for Construction Trades
3 credits / 2 class hrs / 2 lab hrs

This course introduces students to orthographic drawings and interpretation of construction documents. Students will review architectural, civil structural, mechanical, and electrical prints to become familiar with drawing used in residential and light commercial construction. Interpreting technical specifications and preparing a construction cost estimate are also included.

ECE 101 Healthy Learning Environments for Children
3 credits / 3 class hrs

Examines organizing space and equipment for indoor and outdoor activities; helping children learn to play together; understanding and providing for children's health, safety and nutritional needs; and maintaining a safe learning and play environment in and outside of the classroom.
**ECE 220** Education of Young Children with Special Needs
3 credits / 3 class hrs

Includes: observation and documentation of child behavior; categories and descriptions of special needs; adapting curriculum to meet individual needs; and developing healthy attitudes and behaviors in children, staff and parents toward the special needs child. Emphasis will be placed on developing and maintaining supportive relationships with parents of children with special needs and developing cooperative relationships with other professionals involved with the child, including therapists, social workers and medical personnel. Pre-requisite: ECE 200 or commensurate experience

**ECE 230** Curriculum in Early Childhood Education (Birth-3 years)
3 credits / 3 class hrs

Provides an in-depth study of the development and implementation of developmentally appropriate curriculum for infants and toddlers based on understanding of child development, individuality and the individual child, and community and program goals. Topics will include assessment of children; age-appropriate scheduling and instructional planning; and maintaining a physically and psychologically safe learning environment. Students will develop creative instructional materials and will evaluate and utilize commercially developed products. Pre-requisite: ECE 200 or commensurate experience

**ECE 235** Curriculum in Early Childhood Education (Ages 3-8)
3 credits / 3 class hrs

Continues topics studied in ECE 230 with emphasis on the development and evaluation of curriculum and materials suitable for the preschool child and for school-aged children in child care settings. Coursework will focus on curricula as exemplars of developmentally appropriate practice in early childhood education and on practical issues around implementation of curriculum for children in this age group. Students will work toward development of their personal definition, goals and values around curriculum. Pre-requisites: ECE 105 and ECE 200 or commensurate experience

**ECE 243** Macroeconomics
3 credits / 3 class hrs

This course is based on a basic theory of macroeconomics which provides a unique theoretical and visual learning system that presents and reinforces core concepts, then immediately assesses comprehension to ensure understanding highlights the latest information on economic growth, income distribution, federal deficits, environmental issues, and other economic developments while applying concepts to everyday life. Note: ECE 111 Principles of Economics will substitute.

**EET 221** Control Systems & PLCs
3 credits / 2 class hrs / 3 lab hrs

Programmable Logic Controllers are used extensively in process control and machine control. The course provides a strong foundation for understanding the fundamentals that apply to all PLC brands and offers an introduction to applications where PLC are used in industry. Theory will be reinforced by applying ladder diagram concepts from hard wired circuit or ladder logic programming using PLC equipment. Students will gain experience with hardware and software systems for the Koyo DL 105, Allen Bradley SLC 500, Compact Logix, and Control Logix platforms. Introductions to Devicenet and Panel View Plus systems will also be presented. Pre-requisites: DB 113, ELS 124, and ELS 125

**ELC 110** National Electrical Code
3 credits / 3 class hrs

Presents the fundamentals of the current National Electrical Code (NEC). Classroom discussion emphasizes single and multi-family dwellings while reviewing concepts of motors, control wiring and commercial wiring systems. Introduces the concept of using the NEC book as a tool and emphasizes methodology of reading and understanding the NEC. Periodic examinations are given. An excellent course for beginning electricians preparing for the journeymen license exam.

**ELC 116** National Electrical Code for Industry
3 credits / 3 class hrs

Presents the fundamentals of the current National Electrical Code (NEC). Classroom discussion emphasizes commercial and industrial wiring techniques while reviewing residential wiring concepts. Introduces the concept of using the NEC book as a tool and emphasizes methodology of reading and understanding the NEC. Periodic examinations are given. An excellent course for electricians preparing for the master license exam. Pre-requisite: ELC 110 or instructor's permission

**ELE 112** Basic Residential Wiring
3 credits / 2 class hrs / 2 lab hrs

A beginning course in electrical wiring methods using electricians’ tools and wiring materials. Wiring projects include single-pole switching, 3-way switching, and 4-way switching of lighting circuits, receptacle circuits including GFCI and AFCI protection, and installation of romex cable, boxes, and associated hardware.

**ELE 210** Electrical Construction & Maintenance I
3 credits / 3 class hrs

Students learn the elements involved in residential and commercial wiring, acquiring the skills necessary to plan, layout and install wiring materials and devices common to building construction in accordance with the guidelines set forth in the National Electrical Code and in accordance with usual practices in the industry. Students will obtain a basic fundamental knowledge of DC and AC power technology motors and transformers on which to build an applied knowledge of control techniques. Pre-requisites: ELE 112, ELS 124 and ELS 125; Co-requisite: ELE 212

**ELE 212** Electrical Construction & Maintenance I Lab
3 credits / 9 lab hrs

Lab component of ELE 210. Co-requisite: ELE 210

**ELE 213** Microeconomics
3 credits / 3 class hrs

Pre-requisites: ECE 105, ECE 106 and ECE 200 or commensurate experience

**ELE 217** Commercial Electrical Systems Fundamentals
3 credits / 3 class hrs

Pre-requisites: ECE 105, ECE 106 and ECE 200 or commensurate experience

**ELE 218** Electrical Construction & Maintenance II
5 credits / 1 class hr / 12 lab hrs

Develops students to understand the importance of electrical wiring systems and materials. Emphasizes methodology of reading and understanding the NEC. Periodic examinations are given. An excellent course for electricians preparing for the journeyman license exam.
ELE 222  
Electrical Construction & Maintenance II  
3 credits / 3 class hrs

Students will learn the key elements involved with commercial and industrial wiring, acquiring the skills necessary to install wiring materials and devices common to the commercial and industrial construction in accordance with the National Electrical Code and in accordance with usual practices in the industry. Pre-requisites: ELE 210 and ELE 212; Co-requisite: ELE 223

ELE 223  
Electrical Construction & Maintenance II Lab  
3 credits / 9 lab hrs

Lab component of ELE 222

ELS 115  
Basic Electricity / Electronics  
3 credits / 3 class hrs / 3 lab hrs

Examines the subject at the beginner’s level. Topics include current, voltage, resistance, Ohm's law, magnetism, electrical measurements, DC circuits, inductance, capacitance, AC measurements, transformers. Corequisite: ELS 116

ELS 116  
Basic Electricity / Electronics Lab  
2 credits / 6 lab hrs

Lab component of ELS 115 Corequisite: ELS 115

ELS 119  
Introduction to Electronic Systems  
2 credits / 1 class hr / 2 lab hrs

This course will introduce students to the basic concepts required to maintain and troubleshoot electronic control systems. The course begins with a study of the relationships between current, voltage and resistance in both DC and AC systems, then progresses to a comparison of analog and digital measuring instruments. Electrical safety as well as an introduction to components used in industrial control systems will be presented next. The course concludes with an introduction to schematic diagrams and troubleshooting techniques used to maintain typical water and wastewater control systems.

ELS 124  
Industrial Electronics  
3 credits / 2 class hrs / 3 lab hrs

Integrates concepts learned in AC and DC circuits as they apply to industrial manufacturing equipment. It provides an introduction to industrial control systems with a focus on equipment applications. Topics include power supplies, thyristors, discrete and analog sensors and devices, opto-electronics computer controlled equipment, and industrial network communication. Lab exercises provide practical experience with shop equipment, troubleshooting circuits and reading schematics. Pre-requisite: ELS 115 and ELS 116

ELS 125  
Motors & Controls  
3 credits / 2 class hrs / 3 lab hrs

Studies electric motors and how they are controlled. Units of study include: single phase motors; motor control basics; three phase motors and control; specialty motors and control; power distribution and monitoring systems; and DC motors, generators and control. Laboratory exercises using real life motors and control devices help students gain practical experience with equipment they will encounter in the work environment. Pre-requisites: ELS 115 and ELS 116

EMS 112  
Respiratory Emergencies  
2 credits / 23 class hrs / 22 lab hrs

This course is designed to provide students with an in depth understanding of the respiratory system. Topics will include a review of anatomy and physiology of the respiratory system, respiratory pathophysiology, assessment and management of the respiratory patient. Students will practice basic as well as advanced level airway management techniques and procedures. This course serves as the major fundamental foundation for Advanced EMT licensure and practice.

EMS 113  
Cardiology I  
2 credits / 30 class hrs

This course is designed to provide students with an understanding of the cardiovascular system, including conduction system of the heart, electrocardiography, 12-lead ECG, and beginning treatment of a patient presenting with cardiac related conditions. Students will demonstrate use of the ECG monitor/defibillator including defibrillation, non-invasive pacing, and cardioversion. Topics will include a review of the anatomy and physiology of the heart and circulatory system, electrophysiology, and assessment of the cardiac patient.

EMS 114  
AEMT Lab  
1 credit / 45 lab hrs

This laboratory course is designed to enhance, develop and establish student’s overall patient management skill level. Subject matter is complementary to instruction provided in the Fundamentals of EMS, Respiratory Emergencies, and Cardiology I courses. Students will perform with proficiency skills such as airway management, medication administration, peripheral and intraosseous access, and patient assessment/management. This course is required before any AEMT student enters the clinical setting. Co-requisites: EMS 113, EMS 114, and EMS 115

EMS 115  
Fundamentals of EMS  
3 credits / 38 class hrs / 22 lab hrs

This course introduces the student to the role of the advanced life support provider. Topics covered include roles and responsibilities of the EMT professional, medical terminology, self-care, and an introduction to pathology. Student’s learning will include but not be limited to, how to perform a health history and advanced level physical examination, intravenous and intraosseous cannulation, medication administration, and introductory pharmacology concepts. Pre-requisite: Matriculation in the AAS or AEMT Certificate program.

EMS 116  
Emergency Medical Technician-Basic  
6 credits / 60 class hrs / 90 lab hrs

This course is designed to give students, through lecture, practical lab, and clinical experience, the entry-level knowledge and skills necessary to provide basic emergency medical care and transportation for patients who access the emergency medical system. Upon successful course completion, students are eligible to take the National Registry of Emergency Medical Technicians (NREMT) certification examinations, at the EMT level. Students will perform interventions necessary to provide patient care and transportation including patient assessment, airway management, oxygen administration, CPR, spinal motion restriction, shock management, bandaging, splinting, and medication administration. Knowledge and skills obtained at the EMT level provide the foundation for advancement to Advanced EMT and Paramedic.

EMS 122  
AEMT Clinical Externship I  
2 credits / 100 clinical hrs

This clinical course provides students with the opportunity to apply in the hospital setting, skills and knowledge learned in the classroom, lab and simulation. Students partner with assigned preceptors at local hospitals to develop skills in but not limited to, critical decision making, ECG interpretation, physical assessment, and problem airway management. Hospital sites include ER, ICU, OR, IV therapy, and various others. Students must complete the minimum number of hours and skills established by the NMMCC program in order to successfully pass courses and ultimately be eligible for AEMT licensure. This is one of two required clinical courses for the AEMT program. Pre-requisite: EMS 114

EMS 126  
AEMT Externship II  
2 credits / 100 clinical hrs

Building on skills learned in lab and the hospital setting, students will apply their knowledge to actual patient situations in prehospital settings. Students are partnered with preceptors who will assist the student into the role of an advanced level EMT professional. Students must complete the minimum number of hours and skills required by the program and approved by CoAEMSP to be eligible for certification exams. This is one of two required clinical courses for the AEMT program. Pre-requisite: EMS 114; Co-requisite: EMS 122

EMS 130  
AEMT-Skills Seminar  
1 credit / 45 lab hrs

This course can serve as a refresher course for those who are currently licensed Advanced EMTs or advancing license to Paramedics, as well as students wishing to become nationally certified at the AEMT level. Students will review and practice all AEMT skills in an interactive seminar format. Multiple case studies, interactive lab sessions, and creative teaching methods are used, concluding with mandatory skills and written testing to assure mastery of topics, prior to sitting for the NREMT – AEMT exams. This is a pass/fail course. Pre-requisite: EMS 114; Co-requisite: EMS 126

EMS 205  
Medical Emergencies  
3 credits / 45 class hrs

This course explores the pathophysiology and management of selected diseases and conditions. Topics include infectious and communicable diseases, toxicology, hematology, neurologic, endocrine, allergy and anaphylaxis, and gastrointestinal emergencies. Pre-requisites: EMS 213. This course includes completion of Advanced Medical Life Support (AMLS).

EMS 213  
Advanced Emergency Cardiovascular Care  
4 credits / 45 class hrs / 45 lab hrs

A comprehensive study of cardiovascular and vascular disorders. Topics include pathophysiology, advanced cardiac assessment, detection and treatment of cardiac rhythm disturbances, 12-lead ECG analysis, and treatment of cardiovascular disorders. Lecture and lab sessions include cardiac arrest management, and clinical decision making. Students successfully completing this course will receive a certificate in Advanced Cardiac Life Support (ACLS). Pre-requisite: EMS 130

EMS 214  
Advanced Emergency Pharmacology  
3 credits / 38 class hrs / 8 lab hrs

This course provides students with knowledge about the principles of pharmacology. It includes pharmacologic classifications, mechanisms of drug actions, pharmacokinetics, key adverse effects and drug interactions. An overview of the bodily effects of drugs as well as review of major drug categories. This course provides students with knowledge, responsibilities, and accountability in the administration of medications across the lifespan. This course will also cover dosage calculations necessary for safe preparation and administration of medications. Co-requisite: Matriculation into the Paramedic Certificate Program or associate degree program.

EMS 216  
Paramedic Clinical Externship I  
5 credits / 125 clinical hrs

This faculty directed practicum gives each student the changes to develop competency in the clinical setting while working one on one with an experienced preceptor. Clinical rotations occur in both the hospital and field, including: cardiac care units, emergency departments, operating rooms, ambulance services, to name a few. Students must complete the minimum number of skills and hours established by the program and CoAEMSP to be eligible for certification exams. This is one of three required clinical courses at the paramedic level. Co-requisites: ALH 124, EMS 205, EMS 220 and EMS 222

EMS 220  
Pediatric Emergencies  
2 credits / 23 class hrs / 22 lab hrs

This course is designed to allow students to integrate pathophysiological principles and assessment findings to formulate a field impression, and implement an assessment and treatment plan for the neonatal and pediatric patient. Topics will include age specific assessment and management of respiratory, cardiac, trauma, neurological, obstetric and gynecological emergencies. The lab portion of this course includes Pediatric Advanced Life Support and Emergency Pediatric Care (EPC) (these certifications require additional fees).
This course covers the pathophysiology, kinematics and management of the trauma patient. Topics include, but are not limited to, multisystem trauma, burns, spinal, head, orthopedic, and internal injury, as well as current trends in trauma management. Through the lab portion of this course students will complete a Prehospital Trauma Life Support (PHTLS) course. There is an additional cost for this certification.

EMS 222 Paramedic Clinical Externship II 4 credits / 170 clinical hrs

Building on the skills and knowledge presented in previous courses, this externship will allow students to continue to grow and refine advanced EMS skills and assessment. Students will spend this rotation perfecting clinical and assessment skills in a variety of settings. Students will immerse themselves in emergency ambulance response, interfacility transport ambulances, OB units, Intensive Care Units, and physician offices. Students will continue to develop leadership skills while partnered with an experienced EMS preceptor. Students must complete the minimum number of skills and hours established by this program and CoAEMSP to be eligible for certification exams. This is one of three required clinical courses at the paramedic level. Pre-requisite: EMS 216

EMS 229 Paramedic Skills Seminar 1 credit / 45 lab hrs

Designed as the capstone course for the paramedic education program, this course will provide students with an intense review of didactic and psychomotor experiences that simulates professional practice. Students completing this course will practice the skills necessary to successfully pass the national examinations and to become effective entry level field practitioners. Additionally, a comprehensive review of didactic content is included. Topics include ambulance service management, concepts of lifelong learning, Maine’s Paramedic interfacility Transport Module (PIFT), quality improvement, and the AEMPs’ role in the community. Students will have the opportunity to perfect assessment-based management through a case scenario approach. Utilizing both high and low fidelity simulation, the course concludes with students taking the National Registry Certification Examination. Co-requisite: EMS 226

EMS 231 Special Populations 1 credit / 15 lab hrs

This course is designed to allow students to integrate pathophysiological and assessment findings to formulate a field impression, and implement an assessment and treatment plan for the geriatric and psychiatric patient, as well as the patient with special needs. Topics will include age/condition specific assessment management of respiratory, cardiac, trauma, neurological, and behavioral emergencies.

EMS 232 Paramedic Clinical Capstone 1 credit / 45 clinical hrs

Designed as the clinical capstone course for the paramedic program. Students will apply and integrate all didactic, psychomotor, affective, and clinical constructs of the EMS program and apply it to contemporary practice in the pre-hospital setting. Students will demonstrate and exercise the ability to function as an entry-level paramedic while being guided, overseen, and evaluated by experienced paramedic preceptors. Co-requisite: EMS 226

EMS 233 EMS Operations 1 credit / 45 lab hrs

Upon completion of this course students will be able to utilize knowledge and skills gained to safely manage multi-casualty incidents and incident/trauma response; utilize air medical resources; identify hazardous materials and other specialized incidents. Some portions of this course may take place off campus for a better student experience.

EMS 236 Paramedic Assessment Based Management 1 credit / 45 lab hrs

Designed to be a summative laboratory course, students will be evaluated in both the team lead and team member role in scenarios. This course serves to culminate the skills practiced and evaluated in the pre-student’s ability to be both a team member and the clinical decision maker in given patient care scenarios. The scenario lab component provides the students the contextual opportunity to demonstrate competence in the simulated environment prior to progressing to the role of Team Lead in a field clinical environment. Co-requisite: Matriculation into the Paramedic Certificate Program or associate degree program.

EMS 243 Community Paramedicine 8 credits / 90 class hrs / 30 lab hrs

This course takes the experienced paramedic and expands upon their role into the community. Course content includes medical legal issues, scope of practice, financial implications, nutrition, and public health. A significant portion of this course is reserved for discussion of the social determinates of health and the role of the community paramedic in public health. Students will learn about high risk populations, health promotion and injury prevention strategies, as well as chronic disease management. Advanced physical assessment, laboratory test interpretation and bedside diagnostics are introduced. Co-requisite: Matriculation in the Community Paramedicine program.

EMS 245 Community Paramedicine Clinical 3 credits / 90 clinical hrs

Designed to allow students to apply the skills learned in the didactic and lab courses to a variety of clinical settings under the direction of a preceptor. Clinical rotations occur at hospitals, schools, public health facilities, long term care facilities, clinical diagnostic laboratories, primary care offices, and in a variety of other specialty areas. The goal of the clinical experience is to expose the student to a variety of roles. Co-requisite: ALN 124, EMS 244

EMS 246 Leadership in EMS 2 credits / 30 class hrs

This course serves to provide the student with a deeper understanding of the major components and principles of a leadership role, as well as adapting to the changing role of the EMS provider. The student will learn different styles of leadership and investigate the qualities of a successful leader. The student will develop a comprehensive understanding of public relations, education, and medical direction; and their roles in the advancement of a stronger EMS system. Pre-requisite: Current EMS licensure.

EMS 247 Community Paramedic Seminar 1 credit / 45 lab hrs

Designed as a capstone course the seminar will provide the student with an intense lab experience that simulates professional practice, as well as present their capstone project, worked on throughout the program. Additional topics covered include ambulance services management, concepts of lifelong learning, quality improvement, and the provider’s role in their community. Pre-requisite: EMS 245

EMS 296 Critical Care Emergency Medical Transport 7 credits / 100 class hrs

This course is the nationally accepted University of Maryland–Baltimore County Critical Care Emergency Transport Program. This program is designed to prepare paramedics and nurses to function as members of a critical care transport team. Critical patients that must be transported between facilities require a different level of care from hospital or emergency field patients. Participants will gain an understanding of the special needs of critical patients during transport, become familiar with the purpose and mechanisms of hospital procedures during transport. Topics include: The Critical Care Environment, Breathing Management, Surgical Airway Management, Hemodynamic Management, Cardiac Management, Pharmacological Management, GI, GU and Renal Management, Neurological Management, Complications of Transport and Special Considerations. Students with 100% attendance will be evaluated with a written examination at the end of the course. Successful participants are issued a renewable certificate from the University of Maryland-Baltimore County (valid for three years). Pre-requisites: Must be a licensed Paramedic or Registered Nurse with certifications in BLS, ACLS, ITLS, NCC/PHTLS, PALS and one year of field experience.

ENG 017 Reading & Writing Fundamentals 4 credits / 4 class hrs

This course is designed to help students improve their reading vocabulary, writing skills; including paragraph and essay development; comprehension, study and test-taking abilities. The class will cover critical reading and writing skills, main ideas, vocabulary development, supporting details, organizational patterns, study skills and strategies, and inference. We will use a wide variety of resources such as the textbook, a collection of essays, newspapers, magazines, internet websites, blogs, and books to help the student strengthen and build reading and writing basic skills. Credit from this course is not applicable towards graduation.

ENG 011 English Composition 3 credits / 3 class hrs

Basic writing course intended to strengthen the student’s ability to think logically and to write clearly. The course will cover grammar, paragraph organization, the essay and the research paper with a strong emphasis on revision.

ENG 226 Introduction to Literature 3 credits / 3 class hrs

An introduction to the study of literature designed to help students develop the ability to read, interpret, and criticize a variety of literary forms and to appreciate literature as a source of insight into human values. Pre-requisite: ENG 111

ENG 227 Advanced Composition 3 credits / 3 class hrs

Students will review the writing process and the strategies for drafting, revising and editing covered in English Composition. Students will continue to work on developing the ability to critically read and analytically write papers that clearly express their ideas. Emphasis will be on primary and secondary research skills and the use of MLA and APA style documentation. Students will learn and practice the writing conventions used within their major area of study. The course will prepare students for upper level course work in their majors, research in the workplace, and/or transfer to four-year programs. Pre-requisite: ENG 111

ENG 228 Topics in Literature 3 credits / 3 class hrs

Close reading of texts related by topic, theme, or historical period. May be repeated for credit. Pre-requisite: ENG 111

ENG 231 Women in Literature 3 credits / 3 class hrs

Examines and explores the role of literary expression in defining, understanding and communicating the experience of being alive and female, as it has been expressed in texts written in the English language. This course analyzes how women have used literature to claim a voice, defining and writing themselves and their experiences into existence. This course will consider the ways that race, class, ethnicity, sexuality, age, region and physical ability inform women’s struggle for understanding, self-determination and power in a world dominated by patriarchal privilege. Students will read a variety of women’s perspectives that will address these issues and develop their own voices and voice in understanding, speaking and writing about women’s literature. Pre-requisite: ENG 111

ENG 239 Introduction to Creative Writing 3 credits / 3 class hrs

This course is portfolio based and will cover three genres: fiction, poetry, and nonfiction. In each genre, students will read a great deal, up to three short works or several works by multiple poets.
each week. Class time will be used to write and discuss exercises, workshop, and analyze tests. Prerequisite: ENG 111

HIS 123 U.S. History, 1500-1865
3 credits / 3 class hrs
A survey of the political, social, economic and cultural forces that shaped American history from the beginnings of European exploration to the end of the Civil War.

HIS 125 U.S. History, 1865 to Present
3 credits / 3 class hrs
A survey of the political, social, economic, and cultural forces that shaped American history from the end of the Civil War until the present.

HIS 206 American Sports History
3 credits / 3 class hrs
This course is a survey of American sports history from the colonial era to the present. An emphasis will be placed on the role of sports in American life and how broad social and cultural changes in American society have been reflected in and by sports.

HIS 207 Maine History
3 credits / 3 class hrs
A survey of Maine history from the age of discovery to the present.

HIT 111 Medical Law & Ethics
3 credits / 3 class hrs
Provides the student with a study of law and legal concepts as they apply to the practice of health information management. Emphasis is on HIPAA Privacy/Security Rule regarding privacy and confidentiality, health record documentation management and release of information practices; and use and disclosure of patient information. Other topics will include state and federal statutory regulations for legal health records, medical staff appointments, healthcare provider credentialing, healthcare risk management, physician liability, and the expanding role of medical record information and subsequent impact due to the advance of electronic health records. Issues that occur in biomedical ethics will also be presented. It will provide the language and framework for understanding more about ethics within the context of dealing with complex health information issues as well as the process that HIM professionals can use to make appropriate ethical choices and to analyze what is and is not justified from an ethical perspective. Corequisite(s): HIT 114 and HIT 116.

HIT 114 Clinical Classification System I with Lab
3 credits / 2 class hrs / 2 lab hrs
Emphasizes the principles and conventions of clinical classification systems used in today’s healthcare settings. Emphasis will be placed on understanding more about ethics within the context of dealing with complex health information issues as well as the process that HIM professionals can use to make appropriate ethical choices and to analyze what is and is not justified from an ethical perspective. Corequisite(s): HIT 114 and HIT 116.

HIT 115 Clinical Applications of Pathophysiology & Pharmacology
3 credits / 3 class hrs
Designed to educate Allied Health students on the study of pathophysiology and general health management of disease and injuries across the human life span. The course will examine the fundamentals of pathophysiology as it is manifested within each body system. It will include pathogenesis etiology, clinical manifestations, current diagnostics, and pharmacological and other treatment modalities. Emphasis will be on disease terminology and abbreviations with identification of disease symptomatology, differential diagnosis and evaluation of laboratory data and drug therapy through textbook readings. It will also focus on the principles of drug action and how the use of drugs alter the disease process. Also included will be the cellular mechanisms of drug actions and the mechanisms of adverse drug effects. Prerequisite(s): BIO 114.

HIT 116 Clinical Classification System II with Lab hrs
3 credits/ 3 class hrs / 2 lab hrs
Emphasizes the principles and conventions of the HCP/CPT clinical classification systems used in today’s healthcare settings. Other topics in this course include applicable licensing and regulatory issues relative to coded data, payment and reimbursement systems, professional ethics, content of the medical record, decision-making processes, data validity and integrity, classification systems and nomenclature, and quality assessment and improvement. Students will be expected to apply decision making in record review for complete, accurate, and timely coding. HCP/CPT coding will also be practiced and applied in conjunction with ICD-10-CM for hospital ambulatory surgery, the physician office setting and other outpatient settings. The CMS developed Prospective Payment System for ambulatory care will be reviewed. Concepts covered in the class are explored in greater detail in the coding lab. Corequisite(s): ALH 220 and BIO 114.

HIT 214 ICD-10-CM/PCS Coding Part II
3 credits / 3 class hrs
Integrates and builds on knowledge and skills gained in HIT 114, enhancing the skill level by coding complex clinical case studies. Reimbursement topics include coding compliance, case mix analysis, severity of illness systems, coding quality monitors, coding auditing strategies, and official coding guidelines. Emphasis is placed on accurate code selection and correct sequencing of principle and secondary classification as well as ICD-10-PCS process coding for medical documentation and reimbursement. Student learning is reinforced on diagnostic and procedure based prospective payment systems including MS-DRGs, APR-DRGs. Also reinforced are diagnostic coding systems including ICD-0, and DSM-5, Systemized Nomenclature of Medicine (SNOMED) and its role as a basis for the electronic health record. Prerequisite(s): HIT 114 and HIT 116. Corequisite(s): HIT 115 and HIT 216.

HIT 216 CPT Coding Part II
3 credits / 3 class hrs
Integrates and builds on knowledge and skills gained in HIT 116, enhancing the skill level by coding complex clinical case studies in the outpatient setting utilizing complex CPT code assignments. Special emphasis is placed on outpatient reimbursement issues including RUGs, PACs, RBRVs, and E/M Coding. Concepts covered in the course will be reinforced in greater detail in the coding lab. Prerequisite(s): HIT 114 and HIT 116. Corequisite(s): HIT 115 and HIT 216.

HIT 219 Professional Practical Experience
2 credits / 3 class hrs
This course is a supervised work experience that provides students with exposure to coding practices in a hospital, physician’s office, clinic or other healthcare setting with directed projects common to the typical coding tasks of a clinical coding specialist. Students are introduced to the health information process and coding procedures through observation, study and work. This experience will be a hands-on experience coding authentic patient records, whether through a field-based or virtual professional practice experience. Student must be available to complete a 60-hour internship during the semester to include actual coding time, recorded presentations and other resources made available to the student. HIT 219 cannot be taken until all other program requirements have been successfully completed.

HPB 110 High Pressure Boiler Operator
3 credits / 3 class hrs
Meets the education requirements necessary to take the State of Maine high pressure boiler operator examination. Emphasis on boiler classification, definitions, symbols and theory of operation, as well as State of Maine boiler rules.

INS 110 Instrumentation & Process Controls
3 credits / 2 class hrs / 2 lab hrs
This course will introduce students to the fundamentals of process measurement and control systems. The course will begin with a study of industrial instrumentation including pressure, level, flow and analytical measurement systems. A thorough understanding of 4-20mA process signals will be provided as well as an introduction to PID process loop controllers. The course will conclude with an introduction to motor speed control concepts including configuration and troubleshooting variable frequency drive systems. Pre-requisite: ELS 119.

MAT 011 Foundational Mathematics
3 credits*/ 3 class hrs
This course prepares the student for upper-level math courses. Credit from this course is not applicable for graduation.

MAT 115 Business Mathematics
3 credits / 3 class hrs
Designed to provide solid, practical and current coverage of the mathematical topics students must master to succeed in business today. Students will develop the computational and vocabulary skills necessary for retailing, marketing, accounting, business management, and finance. Topics include: interest, banking, depreciation systems, payroll, statistics, and graphs.

MAT 116 Quantitative Reasoning
3 credits / 3 class hrs
This survey mathematics class includes use of basic quantitative skills with fractions, decimals, and percent; fundamentals of algebra; and the exploration of the mathematical concepts of unit analysis, personal finance, and basic statistics.

MAT 121 Technical Mathematics
4 credits / 4 class hrs
This applied mathematics course reviews and strengthens the student’s understanding of fundamental algebra, measurement, plane geometry, solid figures and geometric constructions skills. Emphasis is placed on problem solving in the specific trade areas to prepare the student to meet the mathematical challenges that they will encounter in physics, technical lab, and field of employment.

MAT 125 College Algebra
3 credits / 3 class hrs
This course covers variables and symbols; scientific notation; formulas and literal equations; slope, intercepts, and equations of lines; graphs of linear and quadratic functions; graphs of linear inequalities; solving systems of linear equations; polynomials; products and factors; roots, rational exponents, and complex numbers; rational expressions; solving linear, quadratic, and higher order equations; solving linear inequalities; an introduction to exponential and logarithmic functions, and applied problem solving.
Overview of insurance claim procedures and legal aspects of billing.

Focuses on understanding medical insurance and billing of the Medicare and Medicaid in the healthcare industry. Provides an overview of insurance claim procedures and legal aspects of billing.

This course introduces the student to the healthcare industry and the medical assisting profession. Students will learn therapeutic communication skills and how to properly interact with patients and different healthcare professionals. Students will begin learning about the different healthcare records and how they work in the medical office. This is a 7-week course that will run from the beginning of the semester through week 7. Corequisites(s): ALH 220, BIO 114, MDA 110 and MDA 112

Medical Assisting Office Procedures

This is an 8-week course that will start during the 7th week of the semester and end during the 8th week of the semester. This course will assist the student to develop skills necessary to perform effectively within the medical office. These skills will include interpersonal skills, computer & telephone techniques, patient processing, office operations, and health information management. Students will learn how to schedule patient appointments and procedures as well as how to use practice management software. Students will learn the finance part of the medical office and how to bill patients for services rendered. This course will give the student an overview of the administrative duties required of a medical assistant. Corequisites(s): ALH 220, BIO 114, MDA 100 and MDA 112

Medical Assisting Procedures I with Lab

This course provides the basics of clinical medical assisting to include infection control, patient assessment, patient education, nutrition/health promotion and assisting with medical emergencies that may occur in the ambulatory care settings. Students will learn about different medical specialties and how to assist providers with exams that are done in those specialty departments. Students will learn the basics of pharmacology and pharmacology math to give them the skills necessary to properly administer oral medications and parenteral (injectable, excluding IV) medications. Students will learn how to properly document patient care in the medical record to comply with healthcare regulations. Corequisites(s): ALH 220, BIO 114, MDA 100 and MDA 110

Medical Insurance and Coding

This course focuses on understanding medical insurance and billing of the diverse medical insurances, including Blue Cross/Blue Shield, Medicare and Medicaid in the healthcare industry. Provides an overview of insurance claim procedures and legal aspects of billing.

Students will learn how to do procedural and diagnostic medical coding. Provides a forum in which students strive for accuracy in completing medical insurance forms. Prerequisite(s): ALH 220, BIO 114, MDA 100, MDA 110 and MDA 112; Corequisite(s): MDA 213

Medical Assisting Procedures II with Lab

This course builds on the content and skills of Medical Assisting Procedures I with Lab and continues preparing students to assist in different medical specialties. Students will continue to build on clinical skills that will be used in the ambulatory care setting including: assisting with minor surgical procedures, performing EKGs, assisting with OB/GYN exams, phlebotomy, and assisting with pediatric care. This course also prepares students to complete different CLIA waived laboratory skills that may be performed as a medical assistant. Prerequisite(s): ALH 220, BIO 114, MDA 100, MDA 110, and MDA 112; Corequisite(s): MDA 125

Medical Assisting Advanced Proficiency

This is a 5-credit course that requires students to complete 165 unpaid hours of clinical externship within an ambulatory care setting. During the 165 unpaid hours, students will perform the administrative and clinical competencies that they have learned in the classroom and laboratory while under professional supervision. Upon completion of this course, students should be able to function as an entry level medical assistant. Prerequisite(s): ALH 220, BIO 114, and MDA 213

Electronic Health Records

This course is designed to prepare the student to more efficiently use the computer software of an electronic health record. The course emphasizes that thorough documentation is essential for the highest reimbursement possible. Hands-on activities will provide students with transferable skills that will prepare them for success in the medical office, regardless of what software their practice uses.

Nursing Program Success - First Semester Experience

This course is designed to equip the incoming nursing student with tools that promote success. Students will be engaged in several academic advising sessions in both individual and group formats and will be expected to complete a Personal Learning Plan, focusing on the student’s strategy towards success in the nursing program. Classes will address issues such as learning styles, communication skills, study habits, time management, establishing professional collaborative relationships, test taking skills and coping strategies. This foundational course must be taken in the student’s first semester of the nursing program. Co-requisites: NUR 117 and NUR 128

Fundamentals of Practical Nursing

This course introduces and examines concepts that form the foundation for the practice of nursing and the related role of the Practical Nurse. It not only examines the history and evolution of nursing, but also explores health-care delivery systems, ethical and legal issues, safety, infection control, and documentation. Student learning will be focused on the holistic and basic human needs of individuals across the lifespan, within the framework of the nursing process. Skills and tools of communication, delegation, the role of the Practical Nurse in the nursing process, and critical thinking will be introduced and used to care for diverse, stable client(s).

Co-requisites: ALH 124, ENG 111, BIO 201 and NUR 104

Clinical Practicum I Adult/Geriatric

This clinical and lab course for the Practical Nurse student allows practice and development of the basic nursing skills needed to deliver safe client care to diverse adult and geriatric clients. Clinical learning experiences occur in structured health care settings and are correlated with classroom instruction. Students are expected to meet the clinical guidelines and policies for the Practical Nurses program and the off-campus clinical site(s) required by the respective facility. Pre-requisites: ALH 124; Co-requisite: NUR 101 and BIO 201

Clinical Practicum II Special Populations

This course discusses pharmacological principles and knowledge regarding nursing responsibilities and accountability in the administration of medications across the lifespan. It includes an overview of the body's effects of drugs as well as a review of major drug categories. Pharmacological classifications, mechanisms of drug actions, pharmacological, key adverse effects, and drug interactions will be discussed. This course will continue to build on first semester skills in performing dosage calculations necessary for safe preparation and administration of medications. There is no clinical component to NUR 115; Co-requisite: NUR 130

Clinical Practicum III Nutrition

This course provides nursing students with knowledge about fundamental concepts of nutrition across the lifespan, including the relationship of nutrition to health, necessary nutrients for healthy functioning, energy balance and fitness, food safety, and national guidelines, with applications to individuals and groups. Strategies include classroom presentations, nutritional assessments of self and case-study clients, planning of interventions, and evaluation of nutritional approaches. There is no clinical component to NUR 117; Co-requisite: NUR 128
NUR 124  Role Transition  
1 credit / 15 class hrs (1 week) 

Designated for LPNs who are entering the nursing program for semester two. The course focuses on the role change of the licensed practical nurse to that of an associate degree nurse. The role of the AD nurse as a member within the discipline of nursing, provider of care and manager of care is emphasized. The nursing process is utilized as a method to assist the learner to meet the basic, bio- psychosocial needs of individuals throughout the life span. Prerequisite(s): State of Maine LPN licensure, one or more years work experience as practical nurse. This is usually taught as a one-week course prior to the start of the spring semester. 

Note: For LPNs, this pre-requisite must have been successfully completed within three years prior to acceptance into NUR 130. 

NUR 128  Foundations of Nursing  
4 credits / 4 class hrs 

Introduces students to concepts that form the foundation for the practice of nursing. Student learning is focused on the basic human needs of individuals presented within the framework of the nursing process. Includes basic principles of nutrition, pharmacology, applied physiology, the aging process, and the role of the nurse which addresses ethical and legal responsibilities. Prerequisite(s): BIO 201, ENG 111 and MAT 116 (“unless admitted directly from HS, then HS biology and chemistry with lab (completed within the past 10 years or BIO114; and HS level algebra); Co-requisite(s): NUR 100, NUR 117, NUR 129 and BIO 211 

NUR 129  Clinical Practicum I / Geriatric Population  
3 credits / 9 lab hrs 

This course allows students to apply concepts covered in NUR28 that form the foundation for the practice of nursing. Clinical experience is focused on the basic human needs of individuals presented within the framework of the nursing process. Clinical learning experiences provide an opportunity for students to develop, practice and refine basic nursing skills safely in lab, simulation and clinical settings with a focus on older adults. Prerequisite(s): Current American Heart Association BLS (Healthcare Provider) certification; Co-requisite(s): AHI 124, NUR 100, NUR 117 and NUR 128 

NUR 130  Nursing Across the Lifespan I  
4 credits / 4 class hrs 

Provides hands on training in several areas associated with the plumbing career. Beginning with the assembly of the common piping systems including copper, IPS, PEX and PVC, students will work on the fundamentals of plumbing technology. The course stresses quality and collaboration with the interprofessional health care team to enable students to enhance their clinical reasoning skills which enables students to enhance their clinical reasoning skills and collaborate with the interprofessional health care team to manage and coordinate safe, quality care for clients, families, and groups. Prerequisite(s): NUR 225, NUR 228, BIO 218 and PSY 207; Corequisite(s): NUR 230, COM 111 and humanities elective 

NUR 131  Clinical Practicum II/Across the Lifespan  
3 Credits / 9 lab hrs 

The clinical, lab, and simulation course for second semester nursing students allows further development and application of intermediate nursing skills needed to deliver safe client care to individuals across the lifespan with a focus on childbearing families. Clinical learning experiences occur in structured health care settings and are correlated with NUR130 classroom instruction. Prerequisite(s): NUR 128, NUR 129, NUR 117, BIO 201 and NUR 124 (*if LPN), current American Heart Association BLS (Healthcare Provider) certification; Co-requisite(s): NUR 130, NUR 115 and PSY 101 

NUR 195  Clinical Externalship  
3 credits / 135 clinical hrs 

Provides nursing students with an opportunity to develop and further refine nursing skills acquired in NUR 129 and NUR 131. This course is an elective for nursing students who have successfully completed the second semester in nursing. Enrollment may be limited based upon availability. Clinical learning experiences utilize the nursing process to provide nursing care to clients in structured health care settings. Pre-requisites: NUR 115, NUR 130, BIO 211 and PSY 101 

NUR 225  Nursing Across the Lifespan II  
5 credits / 5 class hrs 

Emphasis is placed on a holistic approach to the provision of nursing care to diverse individuals throughout the life span experiencing common, well-defined health problems. Through the uses of the nursing process as the mechanism for the delivery of nursing care, emphasis is given to the restorative and maintenance of an individual's bio-psycho-social needs. Prerequisite(s): NUR 130, NUR 131, NUR 115, BIO 211 and PSY101; Co-requisite(s): NUR 228, BIO 218 and PSY 207 

NUR 228  Clinical Practicum III / Across the Lifespan  
4 Credits / 12 lab hrs 

Clinical learning experiences in this course allow for advance skills in practice in lab and simulation, and provision of holistic, evidence-based nursing care to diverse clients across the lifespan in a variety of settings. Clinical experiences are correlated with NUR 225 classroom instruction and promote the development of critical thinking and priority-setting while providing compassionate, age and culturally appropriate nursing care. Prerequisite(s): NUR 130, NUR 131, NUR 115, BIO 211 and PSY 101; Co-requisite(s): NUR 225, BIO 218 and PSY 207 

NUR 230  Nursing Across the Lifespan III  
5 Credits / 5 class hrs 

Focuses on a holistic approach to the care of the diverse individuals or groups of individuals throughout the life span who are experiencing multiple, common, well-defined health problems. Emphasizes the completion of the role of the nurse process as the student prepares to assume the full scope and legal framework of associate degree nursing practice. Students explore the impact of current issues in nursing on the role of the ADN. Prerequisite(s): NUR 225, NUR 228, BIO 218 and PSY 207; Corequisite(s): NUR 231, COM 111 and humanities elective 

NUR 231  Clinical Practicum IV / Across the Lifespan  
4 Credits / 12 clinical hrs 

This clinical practicum is correlated with NUR 230 classroom instruction and builds on the concepts and knowledge gained from previous nursing courses, allowing for the application of theories and concepts associated with nursing leadership, nursing research, and management of care. This practicum includes a clinical preceptorship which enables students to enhance their clinical reasoning skills and collaborate with the interprofessional health care team to manage and coordinate safe, quality care for clients, families, and groups. Prerequisite(s): NUR 225, NUR 228, BIO 218 and PSY 207; Corequisite(s): NUR 230, COM 111 and humanities elective 

NUT 101  Introduction to Nutrition  
3 credits / 3 class hrs 

This course provides an overview of nutrition and wellness promotion. Fundamental concepts of nutrition across the lifespan are introduced, including the relationship of nutrition to health; necessary nutrients for healthy functioning, energy balance and fitness, food safety, and national guidelines, with applications to individuals and groups. Strategies include classroom presentations, nutritional assessments of self and case-study clients, planning of interventions, and evaluation of various nutritional approaches. Self-care strategies are presented, including the use of non-pharmacologic, integrative interventions. 

PHI 111  Everyday Ethics  
3 credits / 3 class hrs 

An introduction to virtue ethics and how the virtues apply to the dilemmas of everyday life. 

PHI 121  Introduction to Philosophy  
3 credits / 3 class hrs 

An introduction to reading, analyzing, and discussing philosophical texts. Students will explore the principal concerns of philosophy, including the limits of our knowledge, the nature of reality, the existence of God and free will, and the relationship between the individual and society. Students will apply philosophical concepts and methods to contemporary problems in the world. 

PLH 101  Plumbing Technology  
3 credits / 3 class hrs 

This course will introduce the student to the fundamental principles of plumbing technology. The course stresses quality plumbing installations along with the basic knowledge of how plumbing systems function with the relationship to the Maine State Plumbing Code. The course begins with safety, fundamentals of plumbing drainage, venting of the plumbing system, potable water pipe installation, subsurface drainage systems, pipe and fitting identification and several other basic principles of the art of plumbing. Common methods of pipe ffitting assembly such as copper, IPS, PEX and PVC systems, drain and waste vent system fundamental and sizing, potable water fundamentals, fixture installation and plumbing service. 

PHI 201  Ethics  
3 credits / 3 class hrs 

An introduction to morality, moral theory and moral thinking. Students will be exposed to basic moral concepts, theory, and reasoning before applying that knowledge to specific moral problems. Pre-requisite: ENG 111 

PHY 150  Physics  
4 credits / 3 class hrs / 2 lab hrs 

Physics is the foundation of all sciences and technologies. This algebra/trigonometry-based physics course is designed to serve Associate of Applied Science students in trade and technical occupations. Its purpose is to acquaint the student with basic physical concepts relating to measurement, the interaction of forces, work and energy, properties of fluids, thermodynamics, and power. Students gain a broad understanding through the use of unifying principles across multiple energy systems. There is emphasis on standard units of measurement, formulation, and written and spoken language associated with these basic physical concepts. Laboratory activities add to course content and reinforce course objectives. Pre-requisite(s): Any 100-level math course
PLH 113 Pipefitting Calculations 3 credits / 3 class hrs
Introduces students to pipe fitting mathematics with particular attention given to the plumbing and heating trades. Emphasis is to help the student develop a strong skill in commonly used pipe calculations. This course will particularly help candidates for the Maine plumbing journeyman or master license examination.

PLH 122 Plumbing Code Review 3 credits / 3 class hrs
Introduces the student to the Maine State Plumbing Code and explains each chapter in detail. Particular attention will be given to the sizing of DWV, potable and storm piping systems. This course is designed to be a preparation for the Maine Journeyman’s exam.

PLH 123 Plumbing Lab II 3 credits / 9 lab hrs
This is a skills-based course which gives the student hands on training in many areas of the plumbing and pipe fitting trades. The majority of lab time will be used to develop skills in proper assembly and testing of potable hot and cold water lines, DWV lines, various plumbing fixtures and appliances, domestic hot water sources, and faucet installation and repair. Pre-requisites: PLH 101, and PLH 109; Co-requisite: PLH 122

PLH 126 Water Pumps & Water Treatment 2 credits / 1 class hr / 2 lab hrs
This course will introduce students to fundamentals of residential water pumps and water treatment. Review of well types; the hydrological cycle, basic operation of jet and submerged pumps, tank and pump accessories, troubleshooting and a review of Maine laws that apply to installation of water pumps will be the major focus of the water pump portions of this course. Water treatment includes the installation of water softeners, reverse osmosis systems, Biologic systems, as well as water filtration. Maine State Well Drillers and Pump installers codes will also be covered.

PLH 209 HVAC Controls 2 credits / 1 class hr / 2 lab hrs
This course will introduce students to fundamental working concepts for comfort heating such as: oil burner parts, warm air heating installations, basic duct work, furnace and boiler controls and wiring, combustion analysis, heating mediums with a major concentration in hot water (hydronic) heat and radiant heat installations. The topics that will be included will be: hydronic (hot water) heating sources and emitters, hydronic piping arrangements, and electrical component wiring and control devices.

PLH 211 Heating Technology I 3 credits / 3 class hrs
This course will introduce students to fundamental concepts for comfort heating such as: oil burner basics, warm air heating, fundamentals of heat, heat loss through the building envelope, calculating heat loss, combustion, heating mediums with a major concentration in hot water (hydronic) heat and radiant heat methods. The topics that will be included will be: oil burners, Hydronic heating systems design and sizing, heat transfer fundamentals, heating load estimates, hydronic (hot water) heating sources and emitters, hydronic piping arrangements, and electrical component wiring and control devices. Prerequisites: PLH122, PLH 123 or instructor’s permission.

PLH 216 Propane & Natural Gas I 3 credits / 2 class hrs / 2 lab hrs
Meets the criteria for three fuel gas licenses. Students will study basic principles and practices, appliance servicing, and installation of propane and natural gas equipment. Each section will include examination for state licensing, which is necessary for employment in the field of propane and natural gas in Maine. The coursework consists of a combination of lectures, demonstrations, homework and tests.

PLH 218 Heating Lab I 3 credits / 9 lab hrs
This course will introduce students to fundamental working concepts for comfort heating such as: oil burner parts, warm air heating installations, basic duct work, furnace and boiler controls and wiring, combustion analysis, heating mediums with a major concentration in hot water (hydronic) heat and radiant heat installations. The topics that will be included will be: hydronic (hot water) heating sources and emitters, hydronic piping arrangements, and electrical component wiring and control devices. Prerequisite(s): PLH122, PLH 123 or instructor’s permission; Corequisite(s): PLH214

PLH 219 Propane & Natural Gas II 3 credits / 2 class hrs / 2 lab hrs
This course is a continuation of PLH 216 and meets the criteria for additional fuel gas licenses. Students will study the basic principles and practices, appliance servicing and installation of propane and natural gas equipment. Each section will include examination for state licensing which is necessary for employment in the field of propane and natural gas in Maine. Pre-requisite: PLH 216

PLH 222 Heating II 5 credits / 2 class hrs / 9 lab hrs
A continuation of PLH 214, covering the following: fuel oil and its application to domestic burners; oil tanks and tank piping; fuel units; combustion theory; chimneys and draft; commercial oil burners; combustion efficiency testing; heating control wiring; heating system design and sizing; and customer satisfaction. Lab time will be used to properly install control wiring. Pre-requisite: PLH 214 and PLH 218; Corequisite: PLH 225

PLH 225 Maine Oil & Solid Fuel Code 1 credit / 1 class hr
Introduces the student to the laws and rules that apply to oil and solid fuel burning appliances in Maine. Discussions and lectures will be centered around the State of Maine rules book for the installation of oil and solid fuel burning appliances, National Fire Protection Association pamphlets #31 and #211, and portions of the National Electrical Code.

PLH 226 Refrigeration & Air Conditioning 2 credits / 1 class hr / 2 lab hrs
This course covers the fundamentals of refrigeration and air conditioning. Upon completing the course, students can test for the EPA 60B Certification. The students will be trained to safely use the tools required for the trade. Major topics discussed will be: refrigeration, heat pump installation and service, compressors, controls, refrigerants, along with hermetic systems. Considerable time will be spent on the refrigerant evacuation and re-fill and line testing.

PMT 110 3D Solid Modeling 2 credits / 1 class hr / 2 lab hrs
3D Solid Modeling is an introductory course in designing parts and preparing basic mechanical drawings used in the machine trades industry. Students will learn the proper use of software, drafting and design techniques and the graphic presentation of mechanical components. Students will learn to understand dimensional, orthographic projection and isometric drawing. Students will use computer software to develop manufacturing parts and drawings, and a 3D printer to print parts.

PMT 111 CNC Mill & Lathe Operations 4 credits / 1 class hr / 9 lab hrs
CNC Mill and Lathe Operations is an introductory course in operating Computer Numerical Control (CNC) mills and lathes, to produce a variety of machined components in work-like conditions. This course will focus on maintaining quality and safety standards; keeping records; maintaining equipment and supplies. Program training includes basic CNC operator skills, inspection, and process adjustments.

PMT 112 CNC Mill Programming 2 credits / 2 class hrs
CNC Mill Programming introduces the student to basic CNC Mill programming. Students will write simple programs to perform facing, contouring and hole-making operations for typical CNC Vertical Machining Centers. Emphasis is placed on developing an understanding of typical G and M codes used in modern CNC controls. Throughout the course, students will be required to perform calculations for speeds and feeds for various tooling and machining applications.  

PMT 113 Reading for Machinists 2 credits / 2 class hrs
An introductory course in reading and understanding basic mechanical drawings in the machine trades industry. Actual industrial prints prepare the student for the real conditions found in a machine shop.

PMT 114 CNC Lathe Programming 2 credits / 2 class hrs
CNC Lathe Programming introduces the student to basic CNC Mill programming with an emphasis on the following: coordinate system; G-Code command; M-Code Functions; cutting tool selection; machining conditions such as speeds, feeds, data points, tool nose compensation.

PMT 115 CNC Mill Setup 1 credit / 3 lab hrs
CNC Mill Setup is an introductory course in the setup 3 axis CNC mills through practical application. Every aspect of the machine setup is covered from selecting the starting stock to performing a first article inspection on the completed part. Students will load tools, set up work-holding fixtures, set work and tool offsets. Students will verify their setup is correct before machining by running a graphic simulation and above-part verification. They will cut the first piece and inspect their own work, adjusting offsets as necessary to produce a part within customer specification.

PMT 117 CNC Lathe Setup 1 credit / 3 lab hrs
CNC Lathe Setup is an introductory course in the setup 2 axis CNC lathes through practical application. Every aspect of the machine setup is covered from selecting the starting stock to performing a first article inspection on the completed part. Students will load tools, set up work-holding fixtures, set work and tool offsets. Students will verify their setup is correct before machining by running a graphic simulation and above-part verification. They will cut the first piece and inspect their own work, adjusting offsets as necessary to produce a part within customer specification.

PMT 119 Inspection 2 credits / 1 class hr / 3 lab hrs
The Inspection course will provide the student with training in geometric dimensioning & tolerancing (GD&T) interpretation, and inspection, per the ASME Y14.5-2009 standard. This course also reinforces dimensional metrology practices, and introduces new methods such as Coordinate Measuring Machine (CMM), and FARO Arm inspection. With the use of precise inspection equipment, students will verify part quality and document results for quality control. This course provides the student with the complete fundamentals of geometric dimensioning and tolerancing (GD&T) concepts as adopted by ANSI and published by ASME. It builds on prior knowledge of blueprints and machined parts and applies that knowledge to geometric toleranced (GD&T) drawings. Students will learn the terminology and definitions of geometric dimensioning and tolerancing and how to apply its concepts. Prerequisite: PMT 113 or instructor’s permission.
CNC Mill and Lathe Programming, Setup & Operations
4 credits / 1 class hr / 9 lab hrs

This course is intended to provide a variety of training on OSHA 1910 General Industry safety and health standards to entry level workers. The class is designed to emphasize hazard identification, avoidance, control and prevention to students. Students successfully completing all of the requirements will be eligible for the 10-hour OSHA certification.

This course continues to familiarize the student with building construction materials and methods, with an emphasis on sustainable building technology. Students will have practical experience working with a variety of materials and building construction products. Heat loss analysis for a residential or light commercial building will be conducted. Pre-requisite: TEC 112

Includes lectures, discussion and/or experience concerning office- support topics, technical and knowledge, communication, problem- solving, compilations, office-support, employment, and critical- thinking skills. A training/beaching presentation and a program- specific application project are included. Pre-requisite: CIS 113

This course offers students how sociologists conduct research, and it describes the basic concepts and theories sociologists use to explain the social world.

This course introduces students to the science of abnormal behavior. The course will evaluate issues from a sociological and psychological perspectives on abnormal behavior. The course will evaluate issues from a sociological and psychological perspectives. Case studies will be examined as they relate to various disorders. Pre-requisite: PSY 101

This course will introduce the student to the field of welding. Students will begin to attain an understanding of and ability to use the Spanish language in a culturally appropriate manner.

This course is intended to provide a variety of training on OSHA 1910 General Industry safety and health standards to entry level workers. The class is designed to emphasize hazard identification, avoidance, control and prevention to students. Students successfully completing all of the requirements will be eligible for the 10-hour OSHA certification.

Includes lectures, discussion and/or experience concerning office- support topics, technical and knowledge, communication, problem- solving, compilations, office-support, employment, and critical- thinking skills. A training/beaching presentation and a program- specific application project are included. Pre-requisite: CIS 113

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This course continues to familiarize the student with building construction materials and methods, with an emphasis on sustainable building technology. Students will have practical experience working with a variety of materials and building construction products. Heat loss analysis for a residential or light commercial building will be conducted. Pre-requisite: TEC 112

PMT 217
Auxiliary Devices for CNC Lathe
2 credits / 1 class hr / 3 lab hrs

This course introduces the field of psychology as a study of human behavior. Through lecture and discussion in such areas as learning, human growth and development, an introduction of motivation, sensation/perception, personality, emotions, behavior disorders and self and society are presented.

This course will focus on basic 2-3/2-axis milling applications. Prerequisite: PMT 112 or instructor's permission

In this introductory welding course that helps students develop a basic knowledge of welding processes. An introduction to gas welding techniques including oxy-acetylene welding, cutting, and plasma cutting is provided. Students are also introduced to the arc welding process. Discussion of equipment and materials used is also provided. Lab activities provide practice in developing an understanding of the equipment, proper selection of the welding process determined by materials being joined, and the differences in technique necessary for welding in different positions. Safe handling of welding equipment and supplies is strongly emphasized as is overall shop safety.

This course introduces students to appropriate materials and methods as found on residential and light commercial construction projects. Units of instruction include: site work, concrete, foundations, masonry, framing systems, and roofing. Environmentally sustainable construction materials will be highlighted.

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This course will utilize "live" work projects to provide student exposure to real-world machining applications, and introduce multi-axis applications such as thread milling, 4th-axis indexing, 5th-axis indexing, external threading, and boring. Prerequisites: PMT 111, PMT 112, and PMT 114, or instructor's permission
This is an introductory welding course that helps students develop a basic knowledge of welding processes. An introduction to arc welding techniques include oxy-acetylene welding, cutting, and plasma cutting is provided. Students also develop a basic knowledge of the gas metal arc welding (GMAW) process. Discussion of equipment and materials used is also provided. Lab activities provide practice in developing an understanding of the equipment, proper selection of the welding process related to the student’s chosen field, and the differences in technique necessary for welding in different positions. Safe handling of welding equipment and supplies is strongly emphasized as is overall shop safety.

### WEI 133 Thin Metals Welding
3 credits / 2 class hrs / 2 lab hrs

Provides classroom and hands-on training in the welding skills commonly used in automotive collision repair. The course covers the proper safety, setup, and operation of oxyacetylene welding and GMAW welding equipment for welding on the metals used in the manufacturing of automobiles. Students will perform GMAW plug welding, continuous welding, and stitch welding on various metals with a concentration on the thin metal welding in the horizontal, vertical, and overhead positions. Students will perform oxyacetylene cutting, heating, brazing and welding. The course includes all of the elements of the welding module in I-CAR standards.

### WEI 133 Electric Welding
3 credits / 2 class hrs / 2 lab hrs

This course helps the student develop basic knowledge and skills necessary to the understanding of welding through a primary focus on arc welding. Discussion focuses on developing an understanding of the different arc welding processes, associated types of equipment and welding materials, and the appropriate selection of welding process as dictated by the materials being joined. Lab activities provide practice in developing basic skills in arc welding processes related to the student’s chosen field. The focus is on developing an understanding of equipment operation, proper selection of welding process as dictated by the materials being joined, and the differences in technique for welding in different positions on different thickness materials. Safe handling of equipment and supplies and overall shop safety is strongly emphasized. Pre-requisite: WEI 101, or instructor's permission.

### WEI 135 I-CAR Welding
3 credits / 1.5 class hrs / 4.5 lab hrs

This course helps the student develop the basic knowledge and skills necessary to the understanding of welding through a primary focus on the I-CAR welding. Discussion focuses on developing an understanding of the different gas metal arc welding techniques, associated types of equipment and welding materials, and the appropriate selections of welding parameters as dictated by the materials being joined. Lab activities provide practice in developing the skills needed to successfully complete the I-CAR steel GMAW certification test WSC03. Safe handling of equipment and supplies and overall shop safety is strongly emphasized. Pre-requisite: WEI 113.

### WEI 136 Gas Metal Arc Welding & Gas Tungsten Arc Welding
3 credits / 2 class hrs / 2 lab hrs

This is an introductory welding course that helps students develop a basic knowledge of the Gas Metal Arc Welding and the Gas Tungsten Arc Welding processes. An introduction to G.M.A.W techniques and G.T.A.W. techniques is provided. Discussion of equipment and materials used is also provided. Lab activities provide practice in developing an understanding of the equipment, proper selection of the welding process determined by the material being joined, and the differences in technique necessary for welding in different positions. Safe handling of welding equipment and supplies is strongly emphasized as is overall shop safety. Pre-requisite: WEI 133, or instructor's permission.

### WEI 137 Structural Welding I
3 credits / 1.5 class hrs / 4.5 lab hrs

This course provides students with an understanding of the requirements of the American Welding Society Structural Welding Code D1.1, and AWS W.3 – 99 Standard for Certified Welders. The student will be given the opportunity to develop skills in the Shielded Metal Arc Welding process on 3/8 inch steel plate to E7018 electrodes. Pre-requisite: WEI 133

### WEI 138 Structural Welding II
3 credits / 1.5 class hrs / 4.5 lab hrs

This course provides the student with the practice time required to prepare for the American Welding Society’s Structural Welder Certification. The student will be given the opportunity to further develop the skills in the shielded metal arc welding process using E7018 electrodes. Students will work on 3/8 inch steel plate in the 3G and 4G positions. Safe handling of equipment, supplies and overall shop safety is strongly emphasized. Pre-requisite: WEI 137

### WEI 139 Open Root Welding
3 credits / 1.5 class hrs / 4.5 lab hrs

This course is designed to give the student the ability to develop the skills necessary to successfully complete open root welds on mild steel plate in four positions using E6010 electrodes with the shielded metal arc welding process. Safe handling of equipment, supplies and overall shop safety is strongly emphasized. Pre-requisite: WEI 138

### WEI 140 Plasma Table Operation
2 credits / 1 class hr / 2 lab hrs

Utilize CAD-CAM tools to lay out and generate code for efficiently cutting material using a CNC plasma table. Includes design, tool set-up, tool maintenance, code editing, and safe operation to create a variety of general fabrication and maintenance related components.

### WPT 110 Safety Fundamentals for Wind Technicians
3 credits / 2 class hrs / 3 lab hrs

Course focuses on understanding safety and risk assessment related to working with wind turbine systems. Topics include evaluation of high angle work considerations, tower rescue systems and procedures along with related electrical safety standards. Lecture discussions and lab activities include evaluation of power industry tasks related to working with automated systems. These include risk mitigation methods such as training requirements and working procedures for electrical hazards, LODI, confined space, elevated working surfaces, cranes, rigging and tool safety. Course references include OSHA Regulations 29 CFR 1910, 29 CFR 1926, ANSI Z359 and NFPA 70E Standards. Students may earn certifications for Competent Wind Energy Rescue and Rigging Basics upon satisfactory completion of this course. Course requirements: Basic First Aid, CPR, AED certifications and CPT physical assessment.

### WPT 114 Introduction to Wind Power Industry
3 credits / 2 class hrs / 3 lab hrs

Students will be introduced to the wind power industry through discussions on technician skill requirements, career opportunities, latest industry trends and challenges, along with an overview of wind turbine systems, and project operations. Classroom discussions and lab activities will include review of wind data resources, wind turbine siting requirements, hands-on exercises with a variety of wind turbine systems and simulation trainers, industrial wiring practices, along with electric motor function and control. Co-requisites: ELS 115 and ELS 116

### WPT 119 Wind Turbine Drive Systems
3 credits / 2 class hrs / 3 lab hrs

This course provides an understanding of mechanical systems utilized in wind turbine systems. Discussion topics include: mechanical drive systems, shafts and sealing devices, gear systems, and bearings. The course will also cover hydraulic principles necessary to control modern wind turbines such as pumps, actuators, fluid control devices and ancillary systems. Discussion will focus on preventative maintenance practices, which include lubrication requirements, fastener technology, component alignment and vibration testing and monitoring. Some discussions will focus on the use or preventative maintenance data analysis that may be utilized for process improvements through predictive maintenance planning.

### WPT 213 Wind Power Control Systems
3 credits / 2 class hrs / 3 lab hrs

Considers systems utilized to control wind turbines: AC and DC motor applications, motor control system applications, automated control processes (PLCs), communication systems, remote access and related farm operations. Topics include: basics of AC & DC motor types and function, motor control system fundamentals, introduction to motor control ladder logic & applications, PLC architecture, I/O device introduction, PLC programming fundamentals and use of wind farm management tools. Course also includes an introduction to communication media fundamentals for Ethernet & optical fiber network applications. Lab exercises provides hands-on activities with basic motor control systems applications, automated system applications with PLCs and motor control, introduction to PLC programming, networking basics, along with data storage, transfer and analysis activities. Network activities include hardware assembly, cable installation and related testing equipment. Pre-requisites: ELS 115 and ELS 116

### WPT 214 Wind Power Delivery Systems
3 credits / 2 class hrs / 3 lab hrs

This course considers the elements fundamental to generate electricity and then move that electricity to an end-user. Subjects of study include generation, conversion, transmission, distribution and the various steps involved in the process. Students will be exposed to a variety of exercises on transformer technology and related power system operation. Pre-requisites: ELS 115 and ELS 116

### WPT 215 Troubleshooting Automated Systems
3 credits / 2 class hrs / 3 lab hrs

Course considers troubleshooting and repair of electrical, electronic, hydraulic and mechanical systems utilized to operate wind turbines, wind farm infrastructure and remote equipment operations. Topics include: use of control system information such as fault codes, operations data, production data along with service activity reports to assist with system defect analysis and correction. Discussions also use system diagrams, schematics, manufacturers supplied information and other resources for troubleshooting and repair activities. Lab exercises provide hands-on activities with control system assembly, troubleshooting and repair. Pre-requisites: ELS 115 and ELS 116

### WPT 103 Introduction to Water Treatment Technology
3 credits / 3 class hrs

This course is designed to introduce the students to the field of Water and Wastewater Treatment. This course will begin with a discussion of the water and wastewater treatment. The course will then discuss the basics of water treatment to include water regulations, water purification, coagulation and flocculation, sedimentation, filtration, disinfection, and distribution. The course will continue with the basics of wastewater treatment to include wastewater regulations, wastewater sources and treatment, Collection systems, preliminary, primary, biological, secondary, advanced, wastewater disinfection, and various solids treatment processes. This course will prepare students to succeed in subsequent program major courses outlined in the curriculum.

### WTT 111 Water Treatment I
3 credits / 2 class hrs / 2 lab hrs

This course will begin with a study of the safe drinking water and public health protection through operation of water treatment facilities. Topics include coagulation, flocculation, sedimentation, filtration, disinfection, corrosion control, and taste and odor control. This course will prepare students for the State of Maine DHHS Class I & II Water Treatment Operator License Exam.

### WTT 113 Water Plant Operations
3 credits / 3 class hrs

This course is designed to introduce students to the fundamentals required to understand the regulatory requirements and the
day-to-day operational processes used by water treatment plants. It will also provide an introduction into various physical and chemical processes used with the industry. This class will introduce the student to documentary and record keeping procedures used in the industry. This course will prepare students for the State of Maine DHHS Class I & II Water Treatment Operator License Exam.

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Credits / Hours</th>
<th>Pre-requisites</th>
</tr>
</thead>
<tbody>
<tr>
<td>WTT 120</td>
<td>Treatment Plant Safety</td>
<td>3 credits / 3 class hrs</td>
<td></td>
</tr>
<tr>
<td>WTT 121</td>
<td>Wastewater Treatment I</td>
<td>3 credits / 2 class hrs / 2 lab hrs</td>
<td></td>
</tr>
<tr>
<td>WTT 124</td>
<td>Wastewater Plant Operation</td>
<td>3 credits / 3 class hrs</td>
<td></td>
</tr>
<tr>
<td>WTT 201</td>
<td>Water Distribution Systems</td>
<td>3 credits / 2 class hrs / 2 lab hrs</td>
<td></td>
</tr>
<tr>
<td>WTT 205</td>
<td>Wastewater Collection Systems</td>
<td>3 credits / 2 class hrs / 2 lab hrs</td>
<td></td>
</tr>
<tr>
<td>WTT 211</td>
<td>Water Treatment II</td>
<td>4 credits / 3 class hrs / 2 lab hrs</td>
<td></td>
</tr>
<tr>
<td>WTT 221</td>
<td>Wastewater Treatment II</td>
<td>4 credits / 3 class hrs / 2 lab hrs</td>
<td></td>
</tr>
</tbody>
</table>

This course is designed to introduce students to the need for safety requirements within the water and wastewater industry. This course will begin with a discussion on safe work practices in the water and wastewater industry. This will include the following topics: hazard communication, lockout/tagout, confined space entry, respiratory protection, noise control, PPE requirements, electrical safety, laboratory safety, excavation safety, emergency response and process safety, bloodborne pathogens, and safe work practices for water and wastewater plant operators. This course will prepare students for the State of Maine DHHS Class I & II Water Treatment Operator License Exam and the Maine DEP Wastewater Treatment Plant Grade I & II Operator License Exam.

This course will provide an introduction to the operation of wastewater treatment plants. The course will begin with a look at different aspects of wastewater treatment to include: wastewater characteristics, preliminary treatment, primary treatment, biological treatment, wastewater treatment ponds, fixed film treatment, activated sludge, nutrient removal, and disinfection. This course will prepare students for the State of Maine DEP Grade I & II Wastewater Treatment Plant Operator License Exam.

This course is designed to introduce students to the fundamentals required to understand the regulatory requirements and the day-to-day operational processes used by wastewater treatment plants. This course will cover the following topics: laboratory procedures, computers for plant O&M, records and report writing, plant administration, review of plant O&M manuals, review of plant budgets, review of plant discharge license, and review of QA/QC testing requirements. This course will prepare students for the State of Maine DEP Grade I & II Water Treatment Plant Operator License Exam.

This course will focus on municipal water distribution systems. The course will cover the following topics: water storage facilities, distribution system facilities, operation and maintenance, disinfection, safety, and management of distribution systems. This course will prepare students for the State of Maine DHHS Class I & II Water Distribution Operator License Exam. Pre-requisite: WTT 111.
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A6 A9 ASE B6
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Joyce Maker  
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Calais  
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Peter DelGreco  
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North Yarmouth  
President & CEO  
Maine & Company

Dr. Mark Fourre  
Camden  
President  
Coastal Healthcare Alliance

Kossi Gamedah  
Falmouth  
SVP, Retail Operations  
Goodwill Northern New England

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Augusta  
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Kathie Leonard  
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President & CEO  
Auburn Manufacturing, Inc.

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Corporate Development Tilson

Cheryl Wendelken  
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Director  
Brooks Family Foundation

Valerie Bilogue Minkala  
Presque Isle  
Student Trustee

Pender Makin  
Commissioner  
(Ex officio, voting member)  
Maine Department of Education

Laura Fortman  
Commissioner  
(Ex officio, non-voting member)  
Maine Department of Labor

GOVERNANCE
The college is governed by the Maine Community College System Board of Trustees. Their business affiliation and their location are:
## Northern Maine Community College Academic Calendar
### 2022 - 2023
#### Fall 2022
- **August 24 & 25**: Faculty Administrative Days (No Classes)
- **August 29**: First Day of Classes
- **September 5**: Labor Day (No Classes, Offices Closed)
- **September 6**: End of Add/Drop
- **September 23**: Grades Due for Spring 2022 Incomplete Courses
- **October 10 & 11**: Indigenous Day (No Classes, Offices Closed Oct 10)
- **October 14**: Open House
- **October 21**: Mid-Semester
- **November 11**: Veterans’ Day Observed (No Classes, Offices Closed)
- **November 18**: Last day to drop classes without academic penalty
- **November 23 - 25**: Thanksgiving Break (No classes, Offices Closed Nov. 24 & 25)
- **December 16**: Last Day of Classes (End at Noon)
- **December 20**: Grades Due by Noon
#### Spring 2023
- **January 12**: Faculty Administrative Days (No Classes)
- **January 16**: Martin Luther King Holiday
- **January 17**: First Day of Classes
- **January 25**: End of Add/Drop*
- **February 3**: Grades Due for Fall 2021 Incomplete Courses
- **February 20**: President’s Day (No Classes, Offices Closed)
- **March 10**: Mid-Semester
- **April 3 – 7**: Spring Break (No Classes)
- **April 14**: Last day to drop classes without academic penalty
- **April 17**: Patriot’s Day (No Classes, Offices Closed)
- **May 10**: Last Day of Classes (End at Noon)
- **May 12**: Grades due by Noon
- **May 13**: Graduation

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## Northern Maine Community College Academic Calendar
### 2023 - 2024
#### Fall 2023
- **August 23 & 24**: Faculty Administrative Days (No Classes)
- **August 28**: First Day of Classes
- **September 4**: Labor Day (No Classes, Offices Closed)
- **September 6**: End of Add/Drop
- **September 22**: Grades Due for Spring 2023 Incomplete Courses
- **October 9 & 10**: Indigenous Day (No Classes, Offices Closed Oct 9)
- **October 13**: Open House
- **October 20**: Mid-Semester
- **November 10**: Veterans’ Day Observed (No Classes, Offices Closed)
- **November 17**: Last day to drop classes without academic penalty
- **November 22 - 24**: Thanksgiving Break (No classes, Offices Closed Nov. 23 & 24)
- **December 15**: Last Day of Classes (End at Noon)
- **December 20**: Grades Due by Noon
#### Spring 2024
- **January 11**: Faculty Administrative Days (No Classes)
- **January 15**: Martin Luther King Holiday
- **January 16**: First Day of Classes
- **January 25**: End of Add/Drop*
- **February 2**: Grades Due for Fall 2021 Incomplete Courses
- **February 19**: President’s Day (No Classes, Offices Closed)
- **February 20 – 24**: Winter Break (No Classes)
- **March 8**: Mid-Semester
- **April 1 – 5**: Spring Break (No Classes)
- **April 12**: Last day to drop classes without academic penalty
- **April 15**: Patriot’s Day (No Classes, Offices Closed)
- **May 8**: Last Day of Classes (End at Noon)
- **May 10**: Grades due by Noon
- **May 11**: Graduation

All day and evening classes will meet on all scheduled days unless designated a “No Class” day.

*If you drop a class after the end of the add/drop period, you will be charged tuition and fees.

If you have questions please see your academic advisor.
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<td><strong>Academic Affairs</strong></td>
<td>Academic Dean</td>
<td>Angela Buck</td>
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<td>Senior Administrative Specialist</td>
<td>Abby Clark</td>
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<td><strong>Academic Success Center</strong></td>
<td>Coordinator</td>
<td>J.R. Kriestead</td>
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<td><strong>Admissions</strong></td>
<td>Director</td>
<td>Sarah Stackhouse</td>
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<td>Jacqueline Martin</td>
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<td>Abigail Frost</td>
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<td><strong>Arts &amp; Sciences</strong></td>
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<td><strong>Barnes &amp; Noble Bookstore</strong></td>
<td>Manager</td>
<td>Kimberly Filiatreault</td>
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<td>Michael Williams</td>
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<td>Wendy Caverhill</td>
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<td>Dwight Clayton</td>
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<td><strong>Food Services</strong></td>
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<td>Corey Bourgoin</td>
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<td><strong>Continuing Education</strong></td>
<td>Assistant Dean of Continuing Education</td>
<td>Leah Buck</td>
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<td>Administrative Assistant</td>
<td>Holly Grant</td>
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<td><strong>Counselling Office</strong></td>
<td>Director</td>
<td>Tammy Nelson</td>
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<td>Student Navigator</td>
<td>Ashley Hall</td>
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<td>Johna Lovely</td>
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<td>Tyra Rolon</td>
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<td>Teila Pimental</td>
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<td>Griffin Goins</td>
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<td><strong>Events</strong></td>
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<td>Angela Wardwell</td>
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<td><strong>Facilities</strong></td>
<td>Manager</td>
<td>Lee Griffin</td>
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<td><strong>Financial Aid</strong></td>
<td>Director</td>
<td>Brian Hall</td>
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<td>Assistant Director</td>
<td>Cheryl Lamoreau</td>
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<tr>
<td><strong>Houlton Higher Education Center</strong></td>
<td>Director</td>
<td>Joe Fagnant</td>
<td>521-3100 (ext. 3150)</td>
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<td>Advisor</td>
<td>Ken Ervin</td>
<td>521-3100 (ext. 3152)</td>
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<td>Administrative Assistant</td>
<td>Pattie Sloat</td>
<td>521-3100 (ext. 5)</td>
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<td>Lindsay LeBlanc</td>
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<td><strong>Library</strong></td>
<td>Assistant Dean of Learning Resources</td>
<td>Ann Spinney</td>
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<td><strong>Nursing &amp; Allied Health</strong></td>
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<td>Eileen McDougual</td>
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<td><strong>President's Office</strong></td>
<td>President</td>
<td>Timothy Crowley</td>
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<td>Manager</td>
<td>Peter Goheen</td>
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<td>George Brigham</td>
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<td><strong>Student Services</strong></td>
<td>Dean of Students</td>
<td>Matthew Grillo</td>
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<td>Shannon Cook</td>
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<td>Katherine Gordon</td>
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<tr>
<td><strong>Technology</strong></td>
<td>Dean of Technology &amp; Facilities</td>
<td>Barry Ingraham</td>
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<td>Manager of Energy &amp; Information Systems</td>
<td>Robert Smith</td>
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<td>David Wyman</td>
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<td><strong>Testing Center</strong></td>
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<td><strong>Trade &amp; Technology Occupations</strong></td>
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<td>Pam Buck</td>
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For a more complete listing of employee phone numbers, including faculty, please see your Student Handbook or visit nmcc.edu