

Eastern Maine Community College Great College. Smart Choice.

Technical

Career &

Transfer Education

2015-2016 College Catalog

MISSION STATEMENT

Eastern Maine Community College Bangor, Dover-Foxcroft, East Millinocket, Ellsworth

Eastern Maine Community College provides the highest quality postsecondary technical, career, and transfer education and serves as a dynamic community and economic development resource.

To achieve this mission, Eastern Maine Community College

- provides access to affordable technical, career and transfer education.
- awards Associate in Applied Science, Associate in Science, Associate in Arts Degrees; Advanced Certificates; and Certificates for credit instruction.
- > offers non-credit, customized courses and programs.
- offers post-secondary programs leading to employment in technical and other career fields.
- provides opportunities for transfer to other post-secondary institutions.
- > customizes and provides short-term education and training opportunities for Maine's employers.
- encourages citizenship, leadership, ethical decision-making, and reliable problem solving and offers courses, activities and student services that reinforce those qualities.
- ➤ offers skills development in research, writing, reading, and critical thinking needed for continuous learning required in the modern world of work.
- fosters personal and professional development of all employees.
- engages proactively in partnerships with the communities and businesses served by the College.

A MESSAGE FROM THE PRESIDENT ON BEHALF OF THE COLLEGE COMMUNITY

Our Eastern Maine Community College is a place where we help transform people's lives. It is a place that adult students are receiving training that they need for promotions in their current jobs or retraining for new careers. It also is a great place for recent high school graduates to begin their college degree earning their associates degree and then going on to graduate private and public universities in Maine and other universities across the United States.

Our mission is to provide the highest quality technical, career and liberal arts education and to serve as a key community and economic development resource for the entire EMCC service area. We pride ourselves in our academic programs and also the learning that takes place both inside and outside the classroom. The information contained in this catalog offers you complete information about college programs, services, policies and procedures to help you plan and fulfill your college dreams.

Welcome to EMCC a great College and a Smart Choice!

GENERAL INFORMATION

NOTICE OF NONDISCRIMINATION

Eastern Maine Community College does not discriminate as prescribed by federal and/or state law on the basis of race, color, religion, national origin, sex, sexual orientation, age, disability, marital, parental or veteran status in specified programs and activities. Inquiries about the College's compliance with, and policies that prohibit discrimination on these bases may be directed to: Affirmative Action Officer, Maine Hall, Room 134B, 354 Hogan Road, Bangor, Maine 04401, telephone number 207-974-4633, voice/TDD 207-974-4658, fax number 207-974-4888, e-mail at jvail@emcc.edu internet at http://www.emcc.edu/

United States Department of Education Office for Civil Rights, 5 Post Office Square, 8th Floor, Boston, MA 02109-3921, telephone 617-289-0111, TTY/TDD 800-877-8339, fax 617-289-0150, e-mail OCR.Boston@ed.gov internet at http://www2.ed.gov/about/offices/list/ocr/index.html

Maine Human Rights Commission (MHRC), 51 State House Station, Augusta, ME 04333-0051, telephone 207-624-6050, TTY/TTD 207-624-6064, fax 207-624-6063, http://www.maine.gov/mhrc/ and/or Equal Employment Opportunity Commission, 475 Government Center, Boston, MA 02203, telephone 617-565-3200 or 1-800-669-4000, TTY 617-565-3204 or 1-800-669-6820, fax 617-565-3196, internet http://www.eeoc.gov/.

Reserve Clause

Eastern Maine Community College reserves the right to change any provisions, regulations, policies, procedures, costs, or requirements set forth herein and the right to withdraw or amend any services as may be required or desirable by circumstances.

Correspondence

Inquiries should be directed to the appropriate officers of the College.

At Eastern Maine Community College, email addresses are configured as follows:

Employee'sFirstInitialEmployee'sLastName@emcc.edu

Example: Stacy Green, Director of Admissions = sgreen@emcc.edu

Eastern Maine Community College Telephone: 1-207-974-4600
354 Hogan Road In Maine: 1-800-286-9357
Bangor, ME 04401 www.emcc.edu

Academic Affairs Elizabeth Russell, Dean of Academic Affairs
Automotive Rick Thomas, Chair
Building Construction Technology Les Stackpole, Chair
Business ManagementWilliam Dorrity, Chair
Civil Engineering Technology Mark Nisbett, Chair
Computer Aided Drafting and Drafting Mark Nisbett, Chair
Computer Systems Technology Harold Casey, Chair
Criminal JusticeCornel Plebani, Chair
Culinary ArtsJay Demers, Chair
Diesel, Truck and Heavy Equipment Lowell Gardner, Chair
Digital Graphics DesignJohn lanelli, Chair
Early Childhood Education Jane Loxterkamp, Co-Chair
Education Cynthia Geaghan, Co-Chair
Electrical and Automation Technology Rick Reardon, Chair
Electricians TechnologyRick Reardon, Chair
Emergency Medical Services
EnglishLesley Gillis, Chair
Fine Woodworking and Cabinet Making Les Stackpole, Chair
Fire Science Technology
General TechnologyLiz Russell, Dean of Academic Affairs
Hospitality and Tourism Management Mark Janicki, Chair
Liberal StudiesRobb Freeman, Lesley Gillis, Jeff Melmed, Chairs
Math/ScienceJeff Melmed, Chair
Medical Assistant TechnologySally Hall, Chair
Medical Office TechnologyKim Campbell, Chair
Medical Radiography Heather Merrill, Chair
NursingPilar Burmeister, Chair
Outdoor Recreation and Tourism Debora Rountree, Associate Dean
Refrigeration, Air Conditioning and Heating Rick Gomm, Co-Chair
Charlie Veilleux, Co-Chair

Restaurant and Food Service ManagementJay Demers, Chair Social SciencesRobb Freeman, Chair
Surgical Technology
Welding Christopher Maseychik, Chair
Adjunct Faculty
Admissions
Affirmative ActionJody Vail, Human Resources Director
Corporate and Professional ServiceMatthew McLaughlin, Coordinator
College Store
Counseling Services Salena King-Caruso, Counselor
Disability Services Liz Saucier, Coordinator
Enrollment CenterDaniel Crocker, Dean
Facilities Management
Financial AidCandace Ward, Director
General Administrative Matters Terri Adam, President's Office
Health ServicesNancy Burns, Administrative Secretary
ImmunizationsNancy Burns, Administrative Secretary
Institutional Research and Student DataDaniel Crocker, Dean
Library Services
Non-Credit CoursesMatthew McLaughlin, Coordinator
Off-Campus Services
East Millinocket Center Debora Rountree, Associate Dean
One Industrial Drive
East Millinocket, ME 04430
207-746-5741 ● 1-800-498-8200 (in Maine)
Hancock County Higher Education CenterLynne Witham, Director
Mill Mall, 248 State Street, Suite 1
Ellsworth, ME 04605
207-667-3897
Penquis Higher Education CenterLiz Russell, Dean
50 Mayo Street
Dover-Foxcroft, ME 04426
207-564-2942 ● 1-800-590-2942 (in Maine)
Residential Life
Room Reservations and Rental
Safety and Security
Student Insurance Services
Student Success Center
Student Registration
Transcripts
Veteran Affairs
Carrade Ward, 7550clate Dean

Academic Programs

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The Dream as a state of the ADER CO.	Associate in Arts Degree	Associate in Applied Science Degree	Associate in Science Degree	Certificate
Automotive Technology		•		ļ
Automotive Technology – Basic Systems				•
Building Construction Technology		•	•	•
Business Management		•		
Business Management – Small Business Development				•
Civil Engineering Technology			•	
Computer Aided Drafting and Design			•	
Computer Systems Technology		•		
Computer Systems Technology – Computer Repair Technology				•
Computer Systems Technology – Healthcare Info Technology	1			•
Criminal Justice	1	•		
Culinary Arts		•		
Culinary Arts – Food Service Specialist				•
Diesel, Truck and Heavy Equipment Technology		•		•
Digital Graphic Design		•		•
Early Childhood Education		•		•
Education				
Education – Career and Technical Education Option		•		
Electrical and Automation Technology		•		
Electricians Technology				•
Emergency Medical Services	 	•		•
Fine Woodworking and Cabinet Making		•		
Fire Science Technology	 	•		•
General Technology		•		
Hospitality and Tourism Management		•		
Liberal Studies	•			
	<u> </u>	•		
Medical Assistant Technology		•		
Medical Office Technology Medical Office Technology – Health Care Secretary	 			•
Medical Radiography	 		•	
Nursing	 	 		—
	 	•		
Outdoor Recreation and Tourism Petrigographics Air Conditioning and Heating	 			
Refrigeration, Air Conditioning and Heating	-			•
Refrigeration	-			
Restaurant and Food Service Management	1			
Surgical Technology	-			-
Welding Technology		•		
Welding Technology – Pipe Welding				
Welding Technology – Structural Welding				•

About Eastern Maine Community College

HISTORY

Eastern Maine Community College, formerly Eastern Maine Technical College (EMTC) and Eastern Maine Vocational Technical Institute (EMVTI), was established in 1966 by the Maine State Legislature, under the authority of the State Board of Education. In 1968 the college moved from temporary quarters in downtown Bangor to open farmland on Hogan Road, which is now adjacent to the ever-growing Bangor Mall district, which includes a multi-cinema complex, shopping opportunities, and many established eateries.

In 1986 the 112th Legislature created a board of trustees to govern all campuses of the System. The name of the College changed from "Technical" to "Community" on July 1, 2003 to more accurately reflect its purpose. The College prepares students for various pathways, including starting their career, furthering their education, or updating their skills.

Today, Eastern Maine Community College offers certificates, associate in applied science degrees, associate in science degrees, associate in arts degrees, and advanced certificates in more than 30 technologies, liberal studies, and other areas of study. Eastern Maine Community College prepares technicians and skilled workers for careers in mechanical, engineering and construction industries, allied health professions, business occupations, and education. Programs of study are developed in cooperation with experts currently working in representative areas of technology. Short-term and specialized training and re-training courses are also available to business, industry, and the community. Approximate enrollment is 1,343 full-time and 1,270 part-time students, with 66.5 full-time and approximately 130 adjunct faculty.

MORE ABOUT THE EASTERN MAINE COMMUNITY COLLEGE EXPERIENCE

Sports, musical events, theaters, shopping and outdoor recreational activities fill and surround Bangor, home of Eastern Maine Community College. With a population under 35,000, Bangor offers all of the amenities of a larger city yet provides the safe, peaceful charm of a smaller Maine town.

Within one hour's drive of the spacious Bangor campus, you'll find Acadia National Park, the only national park in the northeastern United States; Mt. Katahdin--known for its challenging hiking trails; and nearby access to the world through Bangor International Airport. Maine's scenic rivers and lakes provide abundant opportunities for white water rafting, kayaking, fishing, and canoeing. You can experience the thrill of big mountain skiing by traveling two hours to Sugarloaf/USA, or you can spend a relaxing day snowboarding at Hermon Mountain--just 15 minutes away.

The City of Bangor boasts one of the State's largest shopping malls, the nation's oldest community orchestra, a children's museum, professional theatre company, a brand new civic center and auditorium and several specialty shops and fine eateries. In recent years, Bangor was the host of the National Folk Festival. Following the success of this festival, the city continues to host a yearly American Folk Festival in August. The Bangor State Fair and the downtown Art Show are annual events that can't be missed.

One of six universities and colleges located in or near Bangor, Eastern Maine Community College has developed partnerships with several of these institutions. At the University of Maine in Orono, Eastern Maine Community College students can enjoy world-class performances at the Collins Center for the Arts, attend Division I athletic events, or utilize the Fogler Library—the largest research library in the State of Maine.

The main campus of Eastern Maine Community College is located on a 72-acre parcel of land on the Hogan Road in Bangor. Off-Campus Centers are located at the heart of the communities they serve. Our small size and small classes contribute to an atmosphere in which faculty and students develop friendships and professional alliances that mutually enrich their lives for years to come.

OFF-CAMPUS CENTERS

Eastern Maine Community College has Off-Campus Centers located in Dover-Foxcroft, East Millinocket and Ellsworth. At these centers, individuals can enroll in credit courses and, in some cases, complete most coursework toward an associate degree or certificate. Professional staff is available to assist with academic advising, financial aid, career

counseling, placement testing, and course registration. Non-credit courses are also offered at the Centers.

PHILOSOPHY

Eastern Maine Community College awards associate in applied science, associate in science and associate in arts degrees; certificates; and documents of completion for customized short-term programs and courses.

Eastern Maine Community College is dedicated to providing all students with a well-balanced education focused on problem solving, decision-making, communications, social understanding, computer applications, mathematics, and science. Liberal arts courses are required of all programs to form the foundation for lifelong learning. Technology programs include concentrated studies in both technical theory and application in the area of specialization. Programs and student support services are designed to develop leadership skills, personal responsibility, teamwork, and appreciation of the complex problems faced by a changing society.

MISSION OF THE MAINE COMMUNITY COLLEGE SYSTEM

The basic mission of the Maine Community College System is to provide associate degree and certificate programs directed at the educational, occupational, technical, and transfer needs of the State's citizens and the workforce needs of the State's employers.

The primary goals of post-secondary technical education and the Maine Community College System are to create an educated, skilled and adaptable labor force which is responsive to the changing needs of the economy of the State and to promote local, regional and statewide economic development.

ACCREDITATION

Eastern Maine Community College is a publicly supported post-secondary institution, fully accredited by the New England Association of Schools and Colleges, Inc., which is the primary accrediting agency for schools and colleges in the New England states. New England Association of Schools

and Colleges, 3 Burlington Woods Drive, Ste. 100, Burlington, MA 01803; 781-271-0022; http://www.neasc.org.

The Automotive Technology program is accredited by the National Automotive Technicians Education Foundation (NATEF), a division of ASE, as a Master Automotive program in all eight areas of automotive accreditation. National Automotive Technicians Education Foundation, 101 Blue Seal Drive, S.E. Suite 101, Leesburg, VA 20175; 703-669-6650.

The Business Management program is in candidacy status with the Accreditation Educational Services (AES), 7895 W. 157th Terrace, Overland Park, KS 66223, 913-685-1288. www.theaes.net. AES accredits business and business-related programs that lead to associate and bachelor degrees in community and junior colleges in the United States and its territories.

The Surgical Technology program is accredited by the Commission on Accreditation of Allied Health Education Programs (www.caahep.org) upon the recommendation of Surgical Technology and Surgical Assisting (ARC-STSA).

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

Commission on Accreditation of Allied Health Education Programs 1361 Park Street Clearwater, FL 33756 727-210-2350 www.caahep.org

The Medical Radiography program is accredited by the Joint Review Committee on Education in Radiologic Technology (JRCERT), 20 N. Wacker Drive, Suite 2850, Chicago, IL 60606-3182; 1-312-704-5300. www.ircert.org.

The Nursing program is approved by the Maine State Board of Nursing, 161 Capitol St. 158 State House Station Augusta, Maine , 04333-0158

phone: (207) 287-1133 fax: 207-287-1149. www.maine.gov/boardofnursing. The program is accredited by the Accreditation Commission for Education in Nursing, Inc. (ACEN), 3343 Peach Tree Rd NE, Suite 850, Atlanta, GA 30326; phone 404-975-5000; fax 404-975-5020; www.acenursing.org. The ACEN accreditation is from 2012-2020.

The Welding program is certified as a S.E.N.S.E. program (Schools Excelling through National Skills Education) and Educational member through American Welding Society, 8669 NW 36 Street, Ste. #130, Miami, FL 33166-6672; 1-305-443-9353; 1-800-443-9353; www.aws.org.

CIVILITY STATEMENT

The dictionary describes civility as follows:

- A politeness
- A courtesy
- A polite act or expression
- Not deficient in common sense
- Adhering to the norms of polite social exchange

There will be times that each student, administrator, faculty member or staff personnel will experience frustration to a high degree. When this occurs, and it will, we encourage each person experiencing this high level of frustration to step back, walk away, and return later to discuss the situation. Seek out someone to act as a third party with respect to conflict resolution.

We encourage all individuals who are in any way part of the college community to think *CIVILITY* on a daily basis. We want to be:

- A college where respect is expected.
- A college where respect is obvious.
- A college where we all treat each other as we would wish to be treated.
- A college where conflict resolution is the rule of thumb.
- A college where we all feel that someone is available to assist when needed.
- A college where all community members have the same goal—a peaceful and tranquil campus to pursue an education.

CANCELLATION OF COLLEGE ACTIVITES AND EMERGENCIES

The College will be open unless conditions on campus present an unsafe or adverse environment for students and employees. This applies to all College Centers.

<u>Cancellations:</u> Decisions to close the College and/or College Centers for the day will be made prior to 5:30 a.m. Cancellations after classes have started will be as follows: afternoon class cancellation prior to 10:00 a.m. and evening by 3:00 p.m. If classes are cancelled for the day, they will also be cancelled for the evening. Some emergencies are not predictable and each will be handled on a case-by-case basis.

<u>Delayed Opening:</u> Depending on conditions, the College may choose to delay the beginning of classes. Delayed openings will be consistently applied and include the following times: 10 a.m.; 12 noon; 2 p.m.; 4 p.m.; and 6 p.m. Delayed openings will be handled as if the College is in full operation for the entire day. For example, if a delayed opening is at 10:00 a.m., students and employees are to report to the activity normally scheduled at 10:00 a.m. Regardless of the beginning or end time of the class, if it is normally in session at 10:00 a.m., students and faculty will report to that class.

See Student Handbook for more information. The Student Handbook can be found on the College's website or in the Library.

NOTICE TO STUDENTS WITH DISABILITIES

Eastern Maine Community College does not discriminate on the basis of disability in the admissions to, access to, or operations of its programs, services or activities. Eastern Maine Community College does not discriminate on the basis of disability in its hiring or employment practices. In accordance with Section 504 of the Rehabilitation Act of 1973 and Title II of the Americans with Disabilities Act of 1990, the College is committed to helping qualified students with disabilities achieve their individual educational goals. Upon request and documentation, the College provides to qualified students reasonable accommodations to remediate the competitive disadvantage that a disability can create in our collegiate setting. Students with disabilities who are entitled to and are requesting reasonable accommodations must

contact the Coordinator of Disability Services, in 121A Maine Hall, by phone at 207-974-4868 or by e-mail at [TBA] in accordance with College Policy and Procedure. Daniel Belyea serves as the College's ADA Compliance Officer and can be contacted at 207-974-4664 or by e-mail at dbelyea@emcc.edu.

HARASSMENT/SEXUAL HARASSMENT/NONDISCRIMINATION POLICY

Eastern Maine Community College has a zero tolerance for any forms of harassment or discrimination of our students, employees or visitors. The College recognizes the dignity and the right of individuals to work, learn, play and live in an environment free of harassment and discrimination. If you feel you have been or are being harassed, contact Jody Vail, Affirmative Action Officer, by phone at 207-974-4633, or by e-mail at ivail@emcc.edu. The Affirmative Action Officer is located in Room 134B, Maine Hall. She will listen to your concerns, explain your rights, and assist you through the grievance process. To the extent possible, the confidentiality of complaints will be protected. College policy prohibits retaliation or retribution against someone reporting harassment, sexual harassment, or discrimination. Additionally, you may file complaints with the Maine Human Rights Commission or the United States Department of Education, Office of Civil Rights.

See Student Handbook for more information. The Student Handbook can be found on the College's website at http://www.emcc.edu/campus-life/student-resources/ or in the Library, Katahdin Hall, second floor.

ADMISSIONS INFORMATION

ADMISSION POLICY

Eastern Maine Community College requires applicants to have earned a high school diploma or state high school equivalency certificate (GED or HiSET). Algebra I is required for admission into all programs. In addition, applicants must meet all other program-specific requirements. The College maintains a "rolling admissions" policy for most programs, allowing candidates to apply and be considered for acceptance until the programs are filled with qualified students. However, applicants are advised to apply early because of competition for programs and limited enrollment capacities.

Due to the competitive nature of the Medical Radiography, Nursing and Surgical Technology programs, a "selective admissions" policy is followed. Applicants to these programs are strongly encouraged to apply early as the selection process can begin as early as November and the deadline to submit an application is December 30 each year. If necessary, applications for competitive programs may reopen at the discretion of the College.

Because the start dates of the Advanced EMT (A-EMT) and Advanced Life Skills (Paramedic) classes do not follow the traditional academic calendar established by Eastern Maine Community College, the admission timeline and application deadlines for the Emergency Medical Services Associate Degree program differs from those established for other programs offered by EMCC. Applications for the EMS program will be accepted on an "as needed" basis. The open application period may vary depending on demand. Contact Atlantic Partners at 207-974-4880 for more information regarding course/program availability.

APPLICATION PROCEDURES

Timeline: Although applications for admission may be submitted no earlier than one year prior to the starting date of the program, applicants are advised to apply early because of strict enrollment capacities and competition for programs.

Applications received within fourteen (14) calendar days of the official start of each semester may be reviewed for the next available semester. Limited exceptions may be made for certain programs at the discretion of the College.

Requirements: Applications will be evaluated after the Admissions Office has received the following information:

- 1. Completed "Application for Admission" with essay (if applicable) and a non-refundable \$20 application fee.
- 2. Official high school and/or adult education transcript(s) for all years attended sent directly from the high school/adult education provider.
- 3. GED or HiSET test results (if applicable) sent directly from the Department of Education in the state issuing the test. GED and HiSET results from Maine can be requested at https://www.diplomasender.com/.
- 4. Transcript(s) of all previous college work sent directly from each institution attended regardless of whether transfer credit is being sought. Applicants must disclose all prior colleges attended. Failure to furnish all information on past education may constitute adequate reason for disqualification of your acceptance or subsequent dismissal from the College as well as possible retraction or denial of financial aid funds.
- 5. Scholastic Aptitude Test (SAT) or American College Test (ACT) scores sent directly from the College Board or the high school for applicants who will graduate or have graduated from high school within the previous three years. EMCC will also consider the Accuplacer placement assessment for those who have not taken the SAT or ACT.
- 6. Two recommendations on EMCC reference forms sent directly from the evaluator for applicants to the Medical Assistant Technology, Medical Radiography, Nursing, and Surgical Technology programs.
- 7. Preadmission test results for applicants to the Medical Radiography and Nursing programs. Students seeking admission to the Medical Radiography program are required to take the Health Occupations Aptitude Exam at a cost of \$30. Students seeking admission to the Nursing program are required to take the Elsevier HESI A² preentrance exam at a cost of \$40. Pre-admission testing may also be required for other programs at the discretion of the Admissions

Committee. Testing for both programs takes place several times throughout the fall/winter. Dates vary.

*Emergency Medical Services applicants should request an EMS Application Packet from the Admissions Office. Application requirements include all of the above-mentioned materials plus an EMS Application Packet.

Interviews: A personal interview is required for selected Medical Radiography; Refrigeration, Air Conditioning and Heating; and Surgical Technology applicants, or for other programs at the discretion of the Admissions Committee.

Advanced Standing Nursing Applicants: Practical Nurses (PN or LPN) applying to the Nursing program must a) complete the admission requirements outlined in this catalog, b) provide documentation of successful completion of a State Board approved practical nursing program, and c) submit transcripts of practical nursing education and any college-level courses.

International Applicants: Eastern Maine Community College is authorized under federal law to enroll non-immigrant students. Applicants who are citizens of countries other than the United States are expected to submit the same credentials as other applicants, including transcripts of courses taken and examination results. If the documents are not in English, they must be accompanied by an English translation certified by a recognized agency that specializes in evaluation of foreign educational documents. EMCC recommends World Educational Services to obtain an international educational credential evaluation. E-mail: info@wes.org, Bowling Green Station, PO Box 5087, New York, NY 10274-5087. If English is not the applicant's native language, EMCC requires a Test of English as a Foreign Language (TOEFL) score of 530 paper/197 computer based/71 Internet based (iBT). Applicants who have completed EMCC's Integrative English Training Program with 15 credit hours of coursework with a 3.0 GPA or higher are exempt from providing TOEFL results. International students are encouraged to apply for admission and supply all required documentation prior to July 1 for fall enrollment and prior to November 1 for spring enrollment. Once accepted into a program of study, an I-20

document will be prepared for the international student. This document will allow an international student to interview for their student visa. International students attending Eastern Maine Community College may arrive in the United States up to thirty days prior to the start of semester classes.

General Technology Applicants: Prior to completing an application, persons interested in the General Technology program should meet with the Program Coordinator to determine the specific individual requirements of this degree.

Homeschooled Applicants: Homeschooled students are required to submit an official school transcript or an annual assessment of courses completed and one of the following: SAT, ACT, HiSET or GED results.

CRIMINAL BACKGROUND SCREENING

Eastern Maine Community College is committed to ensuring that students have the ability to benefit from the education received at the College. Certain affiliates associated with EMCC require that students placed in their facility for clinical/internship/field placement experiences clear a criminal background check prior to placement. Students whose background check reveals criminal history may be prevented access to the clinical site, and as a result, the student will not have sufficient clinical experience to successfully complete the program. Additionally, licensing boards for certain professions including the health care occupations may deny the individual the opportunity to sit for an examination if an applicant has a criminal history.

All applicants to Medical Assistant Technology, Medical Radiography, Nursing and Surgical Technology who are offered admission will be required to submit to a national criminal background screening process at their expense within 30 days of acceptance. Applicants who have engaged in any activity or behavior which may be considered abuse, neglect or exploitation of a minor or of an incapacitated or dependent adult, or who have been convicted of any crime involving fraud or dishonesty, or drugs, or for which imprisonment of one year or more has been imposed are urged to seek clarification regarding program completion requirements from the Director of Admissions prior to application submission.

To Order a Criminal Background Screening: EMCC has partnered with American DataBank to conduct national background screenings. If you have been accepted into a program of study requiring a background screening, you are required to order the background screening, at your own expense, within 30 days of acceptance. Results will be sent directly to EMCC. The minimum fee is \$75. Additional fees may be incurred for multiple names and/or addresses within the past 7 years. The results of a criminal background screening will be kept on file and will expire 24 months from the date it was conducted unless the student has been continuously enrolled at EMCC since the semester following the initial screening. In all circumstances, it is the expectation that the student will convey any and all new criminal convictions and pending convictions to the Director of Admissions or to their Department Chair. Questions and concerns should be directed to the Director of Admissions.

EMCC does not currently conduct criminal background screening for applicants to **Criminal Justice**; however, individuals who have engaged in certain criminal activity could be denied access to gainful employment in their intended field. Prior convictions for Class D misdemeanors and felony offenses, including those involving drug-related charges and domestic violence, can potentially limit or prevent access to employment opportunities in the justice professions. Those students seeking admission into the Criminal Justice program are strongly encouraged to seek clarification from the Director of Admissions prior to submitting an application.

EMCC does not currently conduct criminal background screening for applicants in other programs (including but not limited to Automotive Technology; Diesel, Truck and Heavy Equipment Technology; Emergency Medical Services; Fire Science Technology; Healthcare Information Technology; or Medical Office Technology) however, individuals who have engaged in certain criminal activity could be denied access to gainful employment in their intended field. Additionally, licensing boards for certain professions may deny the individual the opportunity to sit for an examination if they have been convicted of certain crimes. Individuals who have engaged in any activity which may be considered abuse, neglect or exploitation of a minor or of an incapacitated or dependent adult, or who have been convicted of any crime involving fraud or dishonesty, or drugs, or for which imprisonment of one year or more has

been imposed are urged to seek clarification from the Director of Admissions prior to application submission.

All students enrolled in EMCC's Early Childhood Education and Education programs must receive fingerprint clearance from the Maine Department of Education prior to beginning classes. A copy of the verification card must be submitted to the Admissions Office within 60 days of receiving notification of acceptance. The total cost of this process is \$75 and the card expires five years from date of issue. Admitted students will be sent information regarding how to complete an application for fingerprint clearance with their acceptance letter.

Individuals who have engaged in certain criminal activity could be denied access to gainful employment in their intended field. Additionally, field placement sites may deny the individual access to their site if they have been convicted of certain crimes. Individuals who have engaged in any activity which may be considered abuse, neglect or exploitation of a minor or of an incapacitated or dependent adult, or who have been convicted of any crime involving fraud or dishonesty, or drugs, or for which imprisonment of on year or more has been imposed are urged to seek clarification from the Director of Admissions prior to submitting an application for admission to the Early Childhood Education or Education program.

SPECIAL CONDITIONS OF ADMISSION, ENROLLMENT, AND **PARTICIPATION**

Introduction: The colleges of the MCCS offer education and services to students under a process of modified open admissions. Typically, this process enables those students who meet the stated academic criteria for program or college admissions to attend and access the full offerings of the college. In some circumstances, however, a student's personal experiences may affect a student's admission, enrollment or participation in a college's various offerings. The purpose of this policy is to express the authority of the colleges to handle such circumstances.

Definitions: For the purposes of this policy, the following terms have the following meanings.

- "Admission" means entry into a college, off-campus site, program or course;
- "Circumstances warranting special conditions" or "special circumstances" mean those acts that raise reasonable concerns for community safety and community order. They typically involve prior personal misconduct that demonstrates a diminished reliability to comply with the reasonable rules and regulations of the college, and/or a greater likelihood of risk of harm to persons or property. Such circumstances often include, but are not limited to, a criminal conviction;
 - o Condition of bail, probation, restraining order or other judicial or administrative order;
 - Pending arrest, indictment or other criminal charge;
 - Report or recommendation of law enforcement, probation or parole officer that relates to the risks of harm or disruption that a student may present;
 - Report or recommendation of a mental health professional that relates to the risks of harm or disruption that a student may present; or
 - o Civil litigation whose allegations raise like concerns for a college.
- A "condition" can include either exclusion, restriction or both.
- "Enrollment" includes enrollment in on-campus or online courses.
- "Participation" means involvement in any college service or activity including, for example, access to housing, financial aid, athletics or extra-curricular activities, as well as a general freedom of movement around campus.
- "Student" includes an applicant for admission, and admitted student, and an enrolled student.

Completed vs. Evolving Matters: This policy applies both to those special circumstances that have been completed and those that are still evolving. For example, this policy applies to instances when a student has been criminally convicted and to instances when a student is facing criminal charges not yet proven. While this policy recognizes the presumption of innocence that attaches to the latter, this policy also recognizes, and adopts here the equivalent of, the prudent interim approach of courts in imposing reasonable restrictions on the individual until the process for finding guilt, innocence or other disposition is complete.

Coordination of this Policy with the Student Code of Conduct: When the student's underlying personal conduct at issue is subject to the jurisdiction of the MCCS Student Code of Conduct (for example, the underlying misconduct at issue occurs on college property or is related to a college event, and is also subject to criminal prosecution), the procedures of the Code and the substantive guidance of this policy shall be used. When the underlying conduct is not subject to that Code (for example, the underlying misconduct at issue does not occur on college property or in relation to a college event but is still subject to criminal prosecution), the procedures and substantive guidance of this policy shall be used.

Authority to Exclude or Limit: A college may exclude a student or limit a student's admission, enrollment or participation to the extent that a student's special circumstance diminishes the student's:

- Likelihood of success in a program which admission is competitive;
- Ability to be placed in a required internship or clinical experience;
- Ability to qualify for a professional license after graduation;
- Ability to qualify for financial aid, especially federal financial aid if there is a drug-related conviction;
- Compatibility for placement in a college residence hall;
- Trustworthiness for on-campus employment;
- Reliability to comply with the reasonable rules and regulations of the college; and
- Reliability not to present a greater likelihood of risk or harm to persons or property.

Determining Whether to Exclude or Limit a Student: In determining whether to apply any conditions to a student with a special circumstance, a college should:

- 1. Identify the specific nature of the student's special circumstance. For example, a college should consider the following:
 - a. Whether the conduct underlying the special circumstance was admitted or proven, or is not yet admitted or proven;
 - b. When and how recently the conduct was committed or alleged to be committed, and whether the student was a juvenile or adult at the time;

- c. Whether the conduct was against a person or property, violent or passive; and intentional, reckless, negligent or grossly negligent;
- d. When the harm actually or allegedly caused was minor and temporary or serious and permanent;
- e. Whether the student acknowledged the student's responsibility by plea, or contested by trial and/or appeal;
- f. What punishment, if any, was imposed on the student; whether that punishment was satisfactorily completed; whether the student is on bail, probation or parole, and if so, the terms and conditions thereof; and the perceived degree to which the student has been rehabilitated; and
- g. Any other factor that is relevant and material.
- 2. Provide the student with an opportunity to be heard before making a decision; consult, as appropriate, with the MCCS General Counsel
- 3. Weigh the student's circumstances against the college's interest in, for example, those issues addressed in Section E Above and determine the rational relationship between the facts of a particular student's case and the college's interests in excluding or limiting the student
- 4. Impose those conditions that by amount, scope and duration are reasonable under the particular circumstances.

SELECTION CRITERIA

Eastern Maine Community College determines the admissions status for applicants by considering the following criteria:

- high school transcript and/or GED or HiSET scores;
- academic performance in prerequisites for the program of study;
- class standing;
- cumulative grade point average;
- recommendations, when required or voluntarily submitted;
- interview, when required;
- results of Scholastic Aptitude Test (SAT) or American College Test (ACT) from the College Board; and/or other pre-admission tests, if applicable.

ADMISSIONS CATEGORIES

The following categories are used during the admissions process.

- **Acceptance**—The applicant has met the entrance requirements and has been approved for a program of study.
- **Conditional Acceptance**—The applicant is admitted with conditions (college readiness coursework, for example) which must be successfully completed within the prescribed timeframe.
- Waiting List—1) The program applied for is filled, but the applicant
 may be accepted if an opening occurs; or 2) student qualifications for
 acceptance are not strong enough to be given first priority, but are
 sufficient to warrant periodic review. The College maintains a limited
 waiting list. Waiting list status does not guarantee acceptance for
 admission the following year; applicants must reapply for admission.
- Non-acceptance—The applicant has not met the entrance requirements or has not met the standards established for a competitive program.

ACCEPTANCE PROCEDURES

- 1. Within 30 days of acceptance, students must pay a **tuition deposit of \$75** to the Student Accounts Office. This deposit ensures a position in the program and is credited to the student's first semester bill.
- 2. Students wishing to live in a residence hall must submit a **room deposit of \$100** with the **residence hall application** to the Student Accounts Office. This deposit is credited to the student's first semester residence hall bill.
- 3. Students must complete the Eastern Maine Community College Health History Form and provide proof of diphtheria-tetanus (administered within the last ten years) and two doses of the measles, mumps, and rubella vaccines (administered after student's first birthday) at least two weeks prior to the start of classes. Students admitted to one of the allied health programs are required to provide additional immunization materials as outlined in the acceptance packet.
- 4. Within 30 days of acceptance, students are required to take the **computerized placement test** (Accuplacer®) including writing sample so that the College may determine appropriate placement in math and writing. Based on the results of this assessment, students may be required to successfully complete math and English courses that are not part of the program curriculum. As a result, the length of time required to complete the program may be extended. Testing

- exemptions may be made by the Admissions Committee for students who have taken the placement assessment within the past three years, students with transfer credit for comparable coursework, and students whose SAT or ACT results exceed the pre-established cutoffs.
- All applicants to Medical Assistant Technology, Medical Radiography, Nursing and Surgical Technology who are offered admission will be required to submit to a national criminal background screening process at their expense within 30 days of acceptance.
- 6. All applicants to Early Childhood Education and Education who are offered admission will be required to receive fingerprinting clearance from the Department of Education and submit a verification card to the Admissions Office within 60 days of acceptance.

APPLICATION FOR READMISSION

Matriculated students who have taken a leave of absence, including military leave; have been dismissed from Eastern Maine Community College for academic or disciplinary reasons; or have had a voluntary break in enrollment may seek readmission to the same program under the following provisions. The catalog in force at the time of readmission will be used to determine program requirements. Students shall be subject to all rules and regulations effective at EMCC at the time of, or subsequent to, readmission. Re-entry into certain courses and/or programs will be on a space available basis. Students seeking readmission must:

- 1. Submit an Application for Readmission (SNAP-APP);
- 2. Meet the admission requirements (including pre-requisites for individual courses) which apply to the program at the time of readmission;
- 3. Send official transcripts for all courses taken since attending EMCC (<u>all</u> previous academic transcripts will be required if the student is returning after five years);
- 4. Be recommended for readmission by the Readmission Team.
- 5. In addition to the above-stated requirements, applicants who have been dismissed from EMCC must also submit a non-refundable \$20 reapplication fee and an essay outlining what steps were taken since dismissal from the College to ensure academic success upon return to the environment.

Student material may be reviewed by a Readmission Team comprised of program faculty, the Director of Admissions, and the Academic Dean. This Team may request additional information from other EMCC faculty and staff and/or the applicant. An interview with the Readmission Team and/or references may be required. The student will be notified of the decision via letter from the Director of Admissions.

Any one or more of the following are examples of reasons that a request for readmission to Eastern Maine Community College may not be granted: 1) lack of available space in the program; 2) more than one dismissal from EMCC; 3) prior disruptive and/or damaging behavior; 4) failure to demonstrate adequate personal improvement since dismissal; 5) overdue balance owed to EMCC. There may be other reasons not listed.

DEFERRED ADMISSION

Students who have been accepted and who have paid the tuition deposit may postpone their matriculation for one semester or one year by making such a request in writing to the Director of Admissions. Permission to defer an applicant's admission is granted at the discretion of the Director of Admissions. Applicants whose admission is deferred are responsible for updating the Admissions Office of all pertinent changes (e.g. name, address, courses completed). The tuition deposit is retained by the Student Accounts Office unless the applicant chooses to withdraw and follows the refund policy.

TRANSFER CREDIT TO EASTERN MAINE COMMUNITY COLLEGE

Students may transfer credits earned at other regionally accredited institutions prior to beginning their programs of study. The responsibility rests with students to provide the Admissions Office with an official copy of each college transcript, mailed or faxed directly from each college to the Admissions Office. Copies of course syllabi may be requested.

Generally, courses with grades of C (2.0) or better which are judged by Eastern Maine Community College to be equivalent to Eastern Maine Community College course offerings will be transferred. On occasion, examinations may be required to show competency of subject material. Students may transfer courses not to exceed

- 1. 75% of the total required credits and
- 2. 65% of the total technical course credits in a major field.

In general, only courses taken within the past ten years are reviewed. Courses older than ten years may require additional documentation in order for transfer credit review to occur. Eastern Maine Community College is the final judge regarding awarding of transfer credit from other institutions.

Students who have achieved acceptable College Level Examination Program (CLEP) or Defense Activity for Non-Traditional Education Support (DANTES) scores may also be granted academic credit if the course is in those students' programs of study. Transferred course grades and/or CLEP scores will appear on the students' EMCC transcript but will not be used in computing grade point averages. Students with questions about these examinations should contact the Academic Affairs Office.

Eastern Maine Community College is a Service Members Opportunity College (SOC). Assessment of service-connected prior learning is conducted using various nationally recognized resources for determining course equivalence. Students eligible for veterans' benefits must arrange for evaluations of all previous post-secondary educational experiences for possible transfer credit.

Awards of Excellence, Honors, High Honors, and other recognitions of achievement require that a student earns 75% of credits from courses taken at EMCC.

NEW ENGLAND REGIONAL STUDENT PROGRAM

Qualified residents of New England states other than Maine may be admitted to Eastern Maine Community College at reduced tuition rates (in-state tuition plus 50%) through the New England Regional Student Program (NERSP), sponsored by the New England Board of Higher Education (NEBHE). The rate for 2015-16 is \$135 per credit hour.

FINANCIAL INFORMATION

TUITION, ROOM AND BOARD

Currently, tuition is assessed at a rate of \$90 per credit hour for in-state students and \$180 per credit hour for out-of-state students. Students are advised that costs are subject to change without notice.

Combined room and board charges for 2015-2016 are as follows:

On-campus housing - Acadia Hall:

Room & Board per semester based on Meal Plan A is \$4,000 Room & Board per semester based on Meal Plan B is \$3,602

On-campus housing - Kineo Hall:

Room & Board per semester based on Meal Plan A is \$4,400 Room & Board per semester based on Meal Plan B is \$4,002

Meal Plan A is 7-day meal plan and is designed for students living in college housing who stay weekends. Meal Plan B is designed for students living in college housing who do not anticipate using the dining hall on weekends.

PARKING/VEHICLE REGULATIONS

Parking Decals: Student vehicles on campus must display a current College decal. Parking decal requests are available online at www.emcc.edu or the MyEMCC portal.

Health and Security Fee: All matriculated and non-matriculated students, faculty and staff must obtain a parking pass. The Safety and Security Fee helps cover the cost of day and evening security personnel for students on both the Bangor campus and our off-campus Centers. The annual College Safety and Security Fee is \$2.50 per credit hour. Students who use multiple vehicles may obtain up to two (2) decals. A third decal may be purchased for \$5.

Parking Fines: A \$100 fine per offense will be assessed for parking in handicapped parking spaces. A \$25 fine will be assessed for parking in a fire lane and to students whose vehicle is parked in unauthorized areas. Grades and transcripts will be withheld if students fail to pay fines.

Vehicle Regulations:

- The speed limit on campus is 15 miles per hour.
- Parking on campus roads, behind and beside the residence halls, in loading zones, on walkways, or on grassed areas is prohibited at all times.
- Motor vehicles must not be left on campus during vacations without making special arrangements with the Student Services in Room 105, Maine Hall between the hours of 8:00 a.m. and 4:30 p.m., Monday – Friday.
- Excessive noise by vehicles or its occupants, or otherwise operating in a manner that is dangerous, is prohibited.

Violation Penalties: Vehicles parked in unauthorized areas may be ticketed and/or towed at the owner's expense, without warning. Unauthorized areas include, but are not limited to: parking in a "No Parking Zone", parking on the roadway, hindering snow removal, parking in unauthorized areas, not displaying a current EMCC decal, occupying more than one parking space, parking in handicap spaces without proper identification. Safety is always our concern.

BOOKS AND SUPPLIES

The cost of books and supplies vary by program of study. All costs of books and supplies are a direct expense and are paid by the student. Books can be purchased at the College Store and students may be eligible for a College Store credit if they have financial aid in excess of their semester bill or if they qualify for the College's installment payment plan and choose to include a College Store credit.

FEES

College Activity Fee: The College Activity Fee is \$3 per credit hour. The College Activity Fee supports student activities at Eastern Maine Community College including sanctioned clubs and organizations, Student Senate, special events, recreation, and commuter services.

College Comprehensive Fee: The College Comprehensive Fee is \$9.00 per credit hour. The College Comprehensive Fee supports student services at Eastern Maine Community College including health services, personal counseling, intercollegiate sports, registration, grades and transcripts, graduate job services, and student IDs. The fee does not cover technology, orientation, graduation, lab, health and accident insurance, residence hall recreation, or liability insurance fees.

Information Technology Fee: The College Information Technology Fee is \$9.00 per credit hour. This fee supports computer services for students and provides all students with on campus access to the Internet and email. In addition, it helps to fund online library resources.

Student Accident and Sickness Insurance Fee: A \$998 fee for this coverage is billed to all students carrying more than six (6) credit hours; however, the fee may be waived upon receipt of proof of insurance online, prior to the established deadline. The fee for students beginning classes in January 2016 will be \$581. This fee is not refundable.

Liability Insurance Fee: The \$12.90 fee per year for \$1,000,000 malpractice liability insurance is mandatory for students in standard health occupation programs. The cost for \$1,000,000 coverage for students in higher risk health specialty programs is \$54.29 per year. This fee is not refundable.

Matriculation Fee: The \$70 Matriculation Fee is a fee charged at the time of initial enrollment as a matriculated student. This fee covers costs associated with new student orientation and graduation. This is a onetime fee.

Residence Hall Recreation Fee: A Residence Hall Fee of \$65 per semester is required of all residents. Proceeds from this fee support activities and programs in the residence halls and includes basic cable television service to residents' rooms and lounges.

Residence Hall Security Deposit: The deposit is \$100.

Technology Fees:

These fees vary by program to cover costs of supplies and materials. In addition, some technologies require special fees for national or state tests. Students are advised that these fees may change without notice. These fees are charged on a per credit hour basis by technology course.

Automotive	e Technology (ATA, ATH, ATT)	18.00
_	nstruction (BCT)	
	anagement (BUA, BCA, BMT)	
Civil Engine	ering Technology (CET)	18.00
Computer A	Aided Drafting and Design (CAD)	18.00
Computer S	Systems Technology (CST)	18.00
	ts (CUL)	
Diesel, Truc	ck and Heavy Equipment (ATA, ATT, ATH)	18.00
Drafting (D	TG)	18.00
Early Childh	nood Education (ECE, EDB)	9.00
Education (ECE, EDB)	9.00
Electrical a	nd Automation Technology (EPT)	18.00
Electricians	Technology (ELC)	18.00
Emergency	Medical Services (EMS)	18.00
Fire Science	e (FIR)	9.00
Fine Wood	working and Cabinet Making (FWC)	18.00
Hospitality	and Tourism Management (HTM)	18.00
Math/Scien	ice and Science (BIO, CHE, NUT, PHY)	18.00
Medical As	sistant (MAS)	18.00
Medical Ra	diography (MRT)	18.00
Nursing (N	RG, NUR)	18.00
Outdoor Re	ecreation and Tourism (ORT)	18.00
Refrigeration	on, Air Conditioning and Heating (RAH)	18.00
Surgical Te	chnology (SUR)	18.00
Welding/Pi	pe Welding (FIT, WEL)	18.00
Other cour	ses having fees:	
ART, ASL, E	CO, ENG, FYE, GEN, GIS, HIS, HUM, ISA, KOR,	
LAE, LAM, I	MAT, MATL, PHI, PSY, SOC, SPE, TTO	9.00
Course Fe	es:	
ATA 100	Automotive Technician Test Prep	51.00
ATA 124	Automotive Maine State Inspection Fee	34.00
ATA 215	Automotive Technician Test Prep	51.00
ATH 101	Diesel, Truck & HE Technician Test Prep	51.00

ATH 201	Diesel, Truck & HE Technician Test Prep	51.00
BCT 151	Building Construction Certification Fee	50.00
BCT 152	Building Construction Certification Fee	50.00
BCT 255	Building Construction Certification Fee	50.00
BCT 272	Building Construction Certification Fee	50.00
BMT 221	Medical Transcription I	196.00
BMT222	Medical Transcription II	156.00
CET 111	Civil Engineering Materials Laboratory	75.00
CET 214	Civil Engineering Soils Laboratory	75.00
CST 123	PC Hardware and Operating Systems	180.00
CST 124	Introduction to Linux Certification	150.00
CST 161	Certification for Healthcare IT	180.00
CST 162	Net+ Certification	140.00
CST 164	Healthcare IT Certification	75.00
CST 212	Network Architecture II	140.00
CST 221	Network Security	200.00
CST 232	Server Operating Systems	225.00
CST 261	A+ Certification for Healthcare IT	180.00
ELC 100	Intro to Electricians Technology	25.00
EMS 100	First Responder	170.00
EMS 121	First Aid in the Workplace	81.00
EMS 123	Emergency Medical Technician	165.00
EMS 124	First Responder to EMT Bridge	170.00
EMS 125	Advanced Healthcare Provider to EMT Bridge	100.00
EMS 201	Fundamentals of EMS	175.00
EMS 202	Cardiac/Respiratory Emergencies	
EMS 205	EMT Intermediate Skills Seminar	100.00
EMS 206	Intermediate Clinical Preceptorship and Field Exp	110.00
EMS 208	Advanced Emergency Cardiovascular Care	200.00
EMS 210	Paramedic Emergencies I	210.00
EMS 212	Emergency Care Across the Lifespan	225.00
EMS 214	Paramedic Skills Seminar	350.00
EMS 215	Paramedic Clinical Preceptorship and Field Exp. I	100.00
EMS 216	Paramedic Clinical Preceptorship and Field Exp. II	30.00
EMS 217	Paramedic Clinical Preceptorship and Field Exp. III	200.00
EMS 231	Paramedic Emergencies II	
EMS 233	Paramedic Emergencies III	150.00
EPT 123	Power Distribution	
FWC 103	Fine Woodworking Certification Fee	62.50

FWC 111	Fine Woodworking Certification Fee	62.50
FWC 201	Fine Woodworking Certification Fee	62.50
FWC 211	Fine Woodworking Certification Fee	62.50
MAS 231	Medical Assistant Externship – AAMA Certification.	125.00
MRT 230	Radiology Review and Career Planning	200.00
NUR 105	Nursing Testing Fee for ATI and Kaplan	212.50
NUR 136	Nursing Testing Fee	
NUR 267	Nursing Testing Fee	
NUR 270	Nursing Testing Fee	112.50
RAH 103	RAH Certification/Licensing Fee	190.00
RAH 104	RAH Certification/Licensing Fee	190.00
RAH 203	RAH Certification/Licensing Fee	190.00
RAH 204	RAH Certification/Licensing Fee	190.00
SUR 105	Surgical Technology Fee	45.00
SUR 123	Surgical Technology Fee	190.00
WEL 134	Welding Certification Fee	
WEL 137	Welding Certification Fee	
WEL 277	Welding Certification Fee	300.00

MAINE RESIDENCY

Introduction: This policy defines the category of students and/or student applicants who qualify for the Maine Community College System (MCCS) in-state tuition rate.

- A. **Policy** The following students qualify for the MCCS in-state tuition rate.
 - 1. Students who have established a Maine residence within the meaning of this policy. For purposes of this policy, a student has established a "Maine residence" if the student has:
 - a. Established a primary domicile in Maine for at least the 12 consecutive months immediately preceding college admission (not application, registration or enrollment), and does so for reasons other than the student's education. Evidence of such domicile includes the student's primary physical presence, degree of settled connections and sincere regard for that domicile as home, all as judged by factors like those set forth in section D below; and
 - b. A sincere intent at the time of admission to reside in Maine following the student's projected graduation date.

- 2. Students who are claimed as dependents for tax purposes by a parent or other guardian, provided such claimant(s) are themselves residents within the meaning of this policy.
- 3. Students who are members of the Armed Forces during their period of active duty in Maine, or who are claimed as dependents by members of the Armed Forces during such member's period of active duty in Maine.
- 4. Students who are married to, or domestically registered with, a person who is a resident within the meaning of this policy, provided that the student intends to establish and maintain a domicile in Maine.
- 5. Students who qualify through a special MCCS program that otherwise grants in-state rate access. Current examples of such programs include the APPLE and New Brunswick Community College initiatives. (Students other than New Brunswick Community College students, who are not legal residents of the United States, do not qualify for the MCCS in-state tuition rate.)
- B. Evidence of Residence All factors and circumstances relating to determination of residency are considered on a case-by-case basis. The burden is on the student to prove establishment of Maine residence for other than educational purposes. Examples of factors considered include: signed residential lease, filing of Maine resident state income tax; Maine address on latest federal income tax return; home ownership and payment of property taxes in Maine; driver's license; voter registration; marriage license or domestic registration; and/or military home of record in Maine.
- C. Mid-Semester Change in Status A student's classification for resident or non-resident tuition shall apply for the entire semester for which the classification was made and shall not be changed once a semester commences, provided that erroneous classifications may be reviewed and addressed as a college determines is appropriate.
- D. Temporary Absence from the State Maine residents who are absent from the State for military or full-time educational purposes will normally remain eligible for in-state tuition, provided such persons continue during such period of temporary absence to claim

Maine as their state of residency on all official documents and declare income earned out-of-state on Maine income tax returns.

PAYMENT OF COSTS

Student Responsibilities: All bills are the responsibility of the student and all bills are posted to students MyEMCC accounts.

Billing: Students are billed for courses on a per credit hour basis each semester. Full payment of the semester charges within the time prescribed is a prerequisite to registration and inclusion on the official class lists. Returned checks will be subject to a \$25 service fee.

Private Scholarships: Scholarships will not be listed on a student's statement of account and will be deducted when payment of the scholarship is received.

Sponsored Students: If a student's tuition bill is being paid by a Federal, State, or Private Agency, the student is responsible for providing Student Accounts staff with a current letter of intent or authorization. The letter should verify the name of the sponsored student, the terms/conditions of the sponsoring agency and details of tuition and fees to be billed. Student Accounts will apply Financial Aid (Pell/SEOG/ME State Grant) funds awarded to the student's account before the sponsoring agency is billed, unless otherwise stated on the letter of intent or authorization. If the sponsoring agency requires Federal Direct Loans to be used, it must state that in the authorization. EMCC does not accept verbal authorizations from sponsors.

Authorizations and/or purchase orders may be faxed to the Business Office at 207-974-4666. Without this authorization, EMCC is required to bill the student for all charges.

Unpaid Financial Obligations: Students are not permitted to attend classes after the first week of any semester if their semester bills have not been paid in full or if specific arrangements for payment plans have not been made with Student Accounts. Students who are delinquent according to signed agreements with Student Accounts may be dropped from enrollment or may be assessed late charges. Residential students who are delinquent in the payment of room and board charges may be dismissed from the residence halls.

The College is authorized to withhold grades, degrees, diplomas and transcripts from students for failure to pay all lawful fees and charges. A \$50 late fee will be applied to delinquent accounts.

DEPOSITS

Tuition: A tuition deposit of \$75 is required upon notification of acceptance. Deposits will be credited to semester bills and will be refunded only if written notification of non-enrollment is sent to the Admissions Office before May 1 for fall enrollment and before September 15 for spring enrollment. Students admitted and making a deposit after these deadlines will have 30 days from the date of acceptance to request a refund.

Room Deposit: An additional Residence Hall Deposit of \$100 is required of all students who plan to live in a residence hall. Returning students must submit this deposit by April 15 for fall enrollment to retain their room assignment. This deposit will be credited to the semester bill. It will be refunded only if a written request is sent to the Residential Life Department before July 1st for fall entrance and before December 1st for spring entrance.

STUDENT BILL ADJUSTMENT POLICY

Definitions:

- <u>Bill Adjustment</u> Financial change made to a student's bill/account.
- <u>Deposits</u> Charges held for a particular reason. For example, deposits are used to hold a student's space in a program of study, in a technology, or in a residence hall.
- <u>Semester-long Day Course</u> A course which is offered for the entire length of the semester, usually 15-16 weeks. Semester-long courses are usually general education courses such as mathematics, English, social sciences, and science courses. A number of technology courses are semester-long.
- <u>Modular Course</u> A course that does not follow a standard day schedule. Modular courses vary in length, instructional time and day.

Frequently, these courses are offered in a sequence over the course of a semester.

 <u>Summer/Evening/Weekend Course</u> - Course taught after 5 p.m. or taught at a time other than the fall and spring semesters, Monday through Friday format.

BILL ADJUSTMENT SCHEDULE FOR STUDENTS ENROLLED IN CREDIT STUDY (TUITION, ROOM AND BOARD, COMPREHENSIVE FEES, COURSE FEES, AND TECHNOLOGY FEES:

Bills will be adjusted when a student withdraws from a course or college, following College policy and procedures. The stated course, add/drop, and college withdrawal procedures ensure that all offices are informed of the enrollment status of a student and that bill adjustments are completed correctly.

Percentage of Costs Credited To Bill*	Semester-long Day/Modular/Evening/ Summer Courses	Procedure
100%	Course cancelled by College	Adjustments will be made to student's account by College
100%	Official withdrawal from a course which produces a net reduction in student's semester credit hours and which is within 6 calendar days of the semester's first day of classes	Withdrawal from college or schedule adjustments - Go to Enrollment Center (Katahdin Hall)
50%	Official withdrawal from a course which produces a net reduction in student's semester credit hours and which is between 7 and 10 calendar days of the semester's first day of classes	Course Withdrawal – Go to Enrollment Center (Katahdin Hall)
0%	Official withdrawal from a course which produces a net reduction in student's semester credit hours and which is after 10 calendar days of the semester's first day of classes.	Course Withdrawal - Go to Enrollment Center (Katahdin Hall)
0%	Unofficial withdrawal at any time – including "no shows"	
*Required de	posits will be retained by the College.	

The following schedules are based on Maine Community College policy and are used to adjust tuition, room and board, residence hall recreation fees, comprehensive fees, course fees, and technology fees.

Exceptions to refund policy are possible due to the following:

- 1. Refunds for room and/or board cancelled after a semester begins due to an unexpected or uncontrollable event.
- 2. Exceptions on a case-by-case basis for students who present unusual and compelling medical or other significant extenuating circumstances. These exceptions can be made only at the senior management level.

Refunds of Room and Board Charges			
Percentage of Costs Credited To Bill*	Semester-long Day/Modular/Evening/ Summer Courses	Procedure	
100% of room and board charges	College residence cancelled by College	Adjustments will be made to student's account by College	
100% of room and board charges	Official withdrawal from a college residence prior to the: semester's first day of classes	Notification from student to Residential Life	
80% of room and board charges	Official withdrawal from a college residence prior to the: End of the second week of classes	Notification from student to Residential Life	
60% of room and board charges	Official withdrawal from a college residence prior to the: End of the third week of classes	Notification from student to Residential Life	
40% of room and board charges	Official withdrawal from a college residence prior to the: End of the fourth week of classes	Notification from student to Residential Life	
20% of room and board charges	Official withdrawal from a college residence prior to the: End of the fifth week of classes	Notification from student to Residential Life	
0%	Official withdrawal from a college residence any time after the end of the fifth week of classes		
0%	Unofficial withdrawal from a college residence at anytime		
*Required deposits will be retained by the College.			

Modular courses may be prerequisites for subsequent modular courses. Students enrolled in modular courses, who either drop enrollment in their technology or fail a module, may not be allowed to attend other modular courses in the sequence. In such cases, the student bill will be adjusted using the bill adjustment schedule.

Note: Federal Title IV financial aid recipients may lose financial aid and/or be required to repay financial aid if enrollment and cost of attendance are decreased. It is wise to consult with a financial aid advisor prior to making any adjustments to enrollment status or course enrollment.

Bill Adjustment for Matriculation Fee: The Matriculation Fee is a onetime administrative fee charged at the time of initial enrollment as a matriculated student. No adjustment for this fee will be made to the student's account after the beginning of the semester or completion of orientation. If a student chooses not to attend orientation or graduation, the student is not exempt from this fee.

Bill Adjustment for Deposits: Deposits are addressed in various ways.

Tuition Deposit for Newly Accepted Students: A tuition deposit of \$75 is required upon notification of acceptance into a program of study. This deposit is credited to the semester bill. Newly accepted students are asked to send this deposit to hold a place in the program of study.

On occasion, newly admitted students may change their educational plans and not enroll. In order to receive a full refund of the tuition deposit, these students must notify the Admissions Office in writing by May 1 for fall semester enrollment and by September 15 for spring enrollment.

Housing Deposit: On occasion, students may make other plans and decide not to reside on campus. In order to receive a refund of the residence hall deposit, these students must notify the Director of Residential Life in writing by July 1 for fall semester residency and by December 1st for spring semester residency.

Room deposits for students who apply and are unable to be assigned campus housing will be refunded or applied to any outstanding bill on file with the EMCC Student Accounts. Following the first day of the semester, adjustment to student bills will follow the previously stated bill adjustment schedule.

Residence Hall Security Deposit: The Residence Hall Security Deposit of \$100 is held until the end of the academic year. All or part of this fee is refundable upon departure provided that:

- 1. The resident's room, furnishings and public areas are in the same condition as they were during move in, all belongings have been removed and room has been cleaned.
- 2. The resident follows the proper checkout procedure as outlined in the Residential Life Handbook, which includes a room inspection by the Resident Director or his/her designee
- 3. The resident leaves for reasons other than a violation of the Student Code of Conduct or Housing Contract

In addition, repairs for damages which occur in public areas that cannot be assigned to an individual will be divided amongst the occupants/residents of the building and deducted from each occupant/resident's security deposit. Any charges which exceed a resident's security deposit will be added to the student's account with Student Accounts. In addition, the Business Office reserves the right to retain any resident's security deposit to cover any outstanding charges on the student's account.

Bill Adjustment Schedule for Non-Credit Courses, Seminars, and Workshops: Both matriculated and non-matriculated students may enroll in non-credit courses. Selected non-credit courses have registration fees, which are retained by the College. The bill adjustment schedule for non-credit courses is as follows.

Percentage of Costs Credited To Bill	Conditions	Length of Course
100%	Course canceled by the College	Any length
100%	Student withdrawal prior to the start of course	Any length
80%	Within 10% of instructional time	Over 15 hours
50%	10-25% of instructional time	Over 15 hours
0%	Over 25% of instructional time	Over 15 hours
0%	After start of instructional time	Less than 15 hours

Selected non-credit courses have registration fees, which are retained by the College.

Bill Adjustment for Workshops, Seminars, and Conferences: Full refunds will be issued for seminars, workshops and conferences if notice is received 5 days prior to the day of the program. A non-refundable registration fee may be charged for workshops, seminars, and conferences.

If, for unusual circumstances (i.e. medical problems, death in the family), a student withdraws from a non-credit course, workshop, seminar, or conference, and if a student so requests, a credit for a future offering of the same course, workshop, seminar, or conference may be given at the discretion of the program coordinator in place of the bill adjustment.

Bill Adjustment for Customized Training: The College offers a number of customized training activities through special contracts for businesses. The conditions of bill adjustments are negotiated with the individual businesses.

The Student Aid Office reviews requests for financial aid after applicants have been admitted to the College. The office administers a variety of programs to help students finance their education.

FINANCIAL AID APPLICATION PROCESS

Each year students complete a Free Application for Federal Student Aid (FAFSA).

Priority awards are made to students whose applications are filed before May 1; late applications will be reviewed and awarded based on funds available after all on-time applicants are awarded. The FAFSA worksheet is available at high school guidance offices as well as the College's Student Students should file the FAFSA electronically at Aid Office. www.fafsa.ed.gov. If a student does not have internet available, please call the Student Aid Office at 207-974-4625 for assistance.

All financial aid applicants are considered without regard to age, gender, race, ethnic origin or physical ability, except in those cases where aid is intended to rectify a prior or existing imbalance in minority or other group participation in the education process.

Special Notes:

- 1. Students who extend their studies beyond two years may be enrolled less than full-time at some point in their program of study.
- 2. Less than full-time student status can affect financial aid.

TYPES OF FINANCIAL ASSISTANCE

Federal Pell Grants are need-based federal grants which are available to students pursuing their first undergraduate degree.

Federal Supplemental Educational Opportunity Grants (SEOG) are federal funds available to students awarded a Federal Pell Grant with highest financial need.

Eastern Maine Community College Grants are based primarily on financial Need or specific grant criteria. They include but are not limited to: EMCC Grant; Osher I; II; III; V; Rural Initiative Child Care Grants; EMCC Child Care; Hope Milliken McNally; SkillsUSA; Phi Theta Kappa; Foundation and Endowed Scholarships. More information about our specific grants/scholarships is available on MyEMCC.

State of Maine Grants are need-based grants for Maine residents who file a FAFSA by May 1 and meet annual the family contribution cutoff as established by the Financial Authority of Maine.

Federal Work-Study provides federally-funded student employment on the campus. Jobs may provide work experience, as well as regular student income for educational expenses. Students are limited to parttime work, on the College campus and eligibility is based on need and available funds.

Federal Subsidized Direct Loans taken while enrolled at EMCC are based on financial need. Interest rate is set on July 1 each year; Interest is deferred while the student is continuously enrolled at least half time (6 or more credits). Borrowers begin repayment of principal and interest within six months of the end of their half time or greater enrollment.

Federal Unsubsidized Direct Loans taken while enrolled at EMCC are not based on financial need. Interest rate is set on July 1 each year. Interest accrues on the loan while attending EMCC. Borrowers begin repayment of principal and interest within six months of the end of their half time or greater enrollment.

VETERANS' BENEFITS

Students who plan to receive veterans' benefits must see the College's VA Certifying Official to initiate paperwork. Veterans' benefits include Montgomery GI Bill-Active Duty (Chapter 30), Post 9/11 (Chapter 33), Montgomery GI Bill-Selected Reserve (Chapters 1606), Reserve Educational Assistance Program (REAP/Chapter 1607), Survivors' and Dependents' Educational Assistance Program (DEA/Chapter 35).

All Eastern Maine Community College credit bearing degree and certificate programs have been approved by the Maine State Approving Agency for Veterans Education Programs. Most non-credit courses and programs are not approved. (Exception: Maine Oil Dealers Association

High Pressure Boiler Course.) Students receiving veterans' educational assistance are required to have all their previous post-secondary educational experiences evaluated for transfer of credit **prior** to certification of their veteran's benefits. Additional information concerning veterans' benefits is available at the Enrollment Center.

Degree Status: To receive VA Educational Benefits, a veteran must apply for admission to a specific academic program. Special Note: Only courses that fulfill academic program requirements within their specific academic program are used to determine the number of credits approved for benefits by the VA.

Request for Certification: Students who receive VA Educational Benefits must complete and submit a Request for Semester Certification each time they register for courses. If the student's Request for Semester Certification is not submitted at least sixty days prior to the beginning of the semester, it will cause a delay in the arrival of the benefit check.

Veterans Continuous Pay: Veteran/dependent students enrolled in six or more credit hours will receive continuous pay between semesters provided there is not more than a thirty day break in class attendance between the ending of one semester and the beginning of the following semester.

NATIVE AMERICAN TUITION WAIVER

Eastern Maine Community College waives tuition for Native American matriculated students, enrolled in academic, credit-bearing courses. Fees **are not** covered by this tuition waiver and are the student's responsibility.

To apply for this tuition waiver:

- Student must annually complete a Free Application for Federal Student Aid, and
- Student must be admitted to a credit bearing academic program at EMCC (apply online for Admission at <u>www.emcc.edu</u>), and

- Student must complete an application for the waiver (Native American Program Agreement form) located on the Financial Aid web page, www.emcc.edu, <a href="https://and.edu.org
- Students must provide official documentation (directly from the tribe, Nation or Band) that the student is included on the current tribal census, or has at least one parent or grandparent included on the current tribal census of the Passamaquoddy Tribe, the Penobscot Nation, the Houlton Band of Maliseets, the Aroostook Band of Micmacs or other state or federally recognized North American Indian tribe.

WITHDRAWAL FROM EMCC AND FINANCIAL AID ADJUSTMENTS

Financial Aid funds are awarded to a student under the assumption that the student will attend school for the entire period for which the assistance is awarded. A student begins **earning** Federal funds on his or her first day of class attendance. If a student withdraws from the college during the semester, the student may no longer be eligible for the full amount of Federal funds that the student was originally awarded (scheduled to receive).

If a recipient of Federal grants or loan funds withdraws from the College after starting classes, the amount of Federal grants or loan assistance **earned** by the student must be determined. Up **through the 60% point** in each semester (payment period or period of enrollment), a pro rata schedule is used to determine the amount of Federal funds the student has earned at the time of their withdrawal. **After the 60% point** in the semester (payment period or period of enrollment), a student has earned 100% of the Federal funds he or she was scheduled to receive during the semester.

For a student who withdraws after the 60% point-in-time, there are no unearned funds. However, the College must still determine whether the student is eligible for a post-withdrawal disbursement. If the amount disbursed to the student is greater than the amount the student <u>earned</u>, the unearned funds **must be returned**.

Special Note: If any federal aid was disbursed directly to the student, s/he is responsible for returning unearned funds to the federal financial aid

programs within a timely manner. Failure to do so may result in the student's ineligibility for future federal student aid.

If the amount disbursed to the student is less than the amount the student earned, and for which the student is otherwise eligible, he or she is eligible to receive a post-withdrawal disbursement of the earned aid that was not received.

Federal financial aid includes: Federal Pell Grants, Federal SEOG, Federal Direct Loans (subsidized and unsubsidized), and PLUS Loans. Federal Work Study is excluded. For Title IV eligible students who officially withdraw from the College, the withdrawal date is either the date the student began the College's withdrawal process, or officially notified the Academic Affairs Office of intent to withdraw.

Per federal regulations, if the student does not officially withdraw from the college (see section in catalog on Withdrawal from the College), a withdrawal date is established by the college to be either the midpoint of the semester or a date determined by documented academically-related activity. A student who did not officially withdraw and fails to earn any academic credit for a semester will be considered to have unofficially withdrawn at the midpoint of the semester. Federal financial aid will be adjusted, unless the student is able to prove completion of at least one semester-length course. Adjustments to Federal financial aid will be made within 45 days of the date that the College determines the student has withdrawn. Additional information about the return of Title IV federal student aid and withdrawal from the College is available from the Student Aid Office.

Note: When a student withdraws from the College, any unpaid student charges are still owed to the College.

STUDENT SUPPORT SERVICES INFORMATION

COUNSELING SERVICES

Student Support Services Counseling is Eastern Maine Community College's free and confidential counseling service for students. We strive to attend to the mental health needs of EMCC students while also providing outreach, education, consultation, and crisis management for the larger EMCC community.

While attending EMCC, you may encounter transitions and challenges. Our programs and services are intended to support you through these experiences, help you achieve your academic goals, and find ways of leading a more fulfilling life. We endeavor to provide these services in an environment that is comfortable and welcoming for all students.

PERSONAL COUNSELING

On-campus, short-term counseling is available to currently enrolled students by Salena King-Caruso, Ph.D. To schedule an initial counseling appointment, call 207-974-4858 or send an email to sking@emcc.edu. Before coming to your first appointment, you will be requested to complete an Intake Form which can be found http://www.emcc.edu/wp-content/uploads/2011/11/Intake-Form.pdf or just outside the counselor's office (Maine Hall, room 124). Dr. King-Caruso generally sees clients Monday – Friday from 9:00 a.m. to 4:00 p.m. If you are unable to schedule an appointment during those times, it may be possible for you to be seen outside of regular hours.

Crisis services are available to students as well. If you should find yourself in crisis, please go to the counseling office (Maine Hall, room 124) or call Dr. King-Caruso at (207) 974-4858. If Dr. King-Caruso is unavailable, call campus security at (207)745-6090 and tell them that you are in crisis and need to speak with the counselor. The security staff will help you to get in contact with Dr. King-Caruso.

OUTPATIENT HEALTH SERVICES

Eastern Maine Community College offers to all of its students, outpatient health services through the Penobscot Community Health Center's Brewer Medical Center, located at 735 Wilson Street in Brewer. These

services are free of charge to all Eastern Maine Community College students who set up their appointments with the Dean of Enrollment Management Office, or by showing their student identification cards at the walk-in office, also located at 735 Wilson Street in Brewer. Appointments are mandatory to receive the services, unless the student chooses to utilize the walk-in clinic. Charges will be due for immunizations, lab tests, x-rays, and other medical procedures.

Students who are enrolled in the Student Accident and Sickness Insurance plan may submit medical claims to the insurance company for processing. For further information about setting up an account with the insurance company, please visit http://www2.crossagency.com/2015-2016/emcc.php

Eastern Maine Community College offers no on-campus health services. Services provided by Penobscot Community Health Center include: treatment of acute illnesses, treatment of injuries, counseling and testing for various health-related issues, and referrals as needed.

RESIDENCE HALLS

Acadia and Kineo Halls are chemical-free residence halls and provide housing for approximately 260 students. The halls are staffed with two Resident Directors and eight Resident Assistants who offer help with personal and academic concerns. The Director of Residential Life, Activities and Student Engagement oversees the Residential Life Department. The McCorkill Dining Hall, located in Katahdin Hall, is open seven days a week during the academic year. Meal options are available for commuters, faculty and staff.

Additional services and regulations governing the residence halls are contained in the Residential Life Handbook that is available in the Director of Residential Life's Office as well as the lobby and Resident Directors' Offices in each hall.

RECREATIONAL SPORTS AND GYM USAGE

Eastern Maine Community College offers an organized and balanced recreation program. Intramurals consist of team, dual, and individual competitive women's, men's and coeducational leagues.

The Recreational Committee coordinates all recreational sports offerings. The committee meets on a bi-weekly basis.

Open gym is advertised for drop-in use by the College community. The Johnston Gym is open to all students offering a variety of activities, free of charge with a current student I.D. card. All visitors and guests will need to pay a usage fee for each visit. The fee will be posted in the Johnston Gymnasium.

COLLEGE STORE

The <u>College Store</u>, located in Maine Hall, offers textbooks and supplies and carries a variety of Eastern Maine Community College clothing, gifts, greeting cards, and health and beauty aids. The store is open the following hours during the fall and spring semesters:

- Monday and Wednesday 7:30 a.m. 6 p.m.
- Tuesday and Thursday 7:30 a.m. 5 p.m.
- Friday 7:30 a.m. 3 p.m.

During the first week of classes, the bookstore is open 7:30 a.m. – 6 p.m. Monday through Thursday and 7:30 a.m. – 4 p.m. on Friday.

STUDENT SENATE

Meeting at noon every Wednesday, these student leaders seek to fulfill the Student Senate objectives which include promoting the general college welfare, serving the students best interest, and helping to provide a lively college spirit. All students are invited to attend Student Senate meetings and provide ideas for the betterment of the College community. Student organizations may petition the Senate for monies to carry out their activities.

COMPUTER LABORATORIES

Several computer facilities are available to students when not used for classroom instruction. These include computer laboratories located in the Nickerson Wing of Maine Hall and two CAD laboratories in Rangeley Hall. In addition, computers are available in the Library, technology departments, and the student lounge area in Maine Hall. Computers are also available at the off-campus centers. Students are encouraged to use these facilities and to become familiar with the policies and procedures governing their use.

TUTORING

Eastern Maine Community College is committed to student success. In keeping with that philosophy, tutoring and other academic support services for Eastern Maine Community College students are available through the Student Success Center in Maine Hall. Arrangements for obtaining this type of assistance can be made directly through the Center.

VISITORS

Visitors/children are not allowed in classrooms, shops or labs or other areas of the College without prior permission of the classroom instructor or appropriate supervisor. Children should not be left unattended in any area of the College.

STUDENTS' RIGHTS

RIGHT TO APPEAL

Eastern Maine Community College is dedicated to providing students with fair and equal adjudication of student grievances. The steps must be made in order of progression, and all information and decisions are made available to the next level of appeal.

The appeal rights of the following provisions apply to those cases in which Eastern Maine Community College has not invoked the Student Code of Conduct or is not a residential life contract violation. In those cases where the College does not invoke the Student Code of Conduct or in which a residential life contract violation has not occurred, the appeal rights of the following provisions apply in lieu of, and not in addition to, the appeal rights accorded in the Student Code of Conduct.

When a student has reason to question an administrative, staff or faculty decision, the following procedures shall apply.

<u>Step One.</u> The student should first discuss the concern with the person s/he has the concern with. This must be discussed within five (5) working days of the decision. Maximum efforts should be made toward resolution of concerns on this informal level. However, if the concern persists, then the student should proceed to Step Two.

<u>Step Two</u>. The student may appeal to the immediate supervisor of the administrator, staff person or faculty member involved. This appeal must be made within five (5) working days of the decision in question. The person receiving the appeal must respond in writing within five (5) working days of receiving the appeal. Step Two will be the final step in the appeal process.

<u>Step Three.</u> The appeal process may continue through to the level of the Eastern Maine Community College President using the process described in Step Two above.

STUDENT CODE OF CONDUCT

See current <u>Student Handbook</u>, which may be found on the College website or in the Library.

RIGHT TO PRIVACY

The Family Education Rights and Privacy Act of 1974, known as the "Buckley Amendment," requires that Eastern Maine Community College obtain consent in writing before releasing your educational record, except to specified parties. The intent of the Act is to protect the privacy of students with regard to access to records and to providing release of such records. The opportunity for a hearing to challenge such records should be obtained from the Dean of Enrollment Management and Institutional Research Office, located in the Enrollment Center, Katahdin Hall.

Third parties who may have access to educational records of students without prior written consent include:

- a. Eastern Maine Community College officials who have legitimate educational interests;
- b. Officials of other schools in which the student seeks or intends to enroll;
- c. Certain authorized federal agencies;
- d. Persons in connection with the student's application for, or receipt of, financial aid;
- e. Organizations conducting studies for, or on behalf of, educational agencies or institutions;

- f. Accrediting organizations;
- g. Parents of a dependent student as defined by the Internal Revenue Code of 1954; and
- h. Judicial authorities.

Under the Solomon Amendment enacted in 1996, the College is required to provide directory type information for students at least 17 years of age upon request of representatives of the Department of Defense for military recruiting purposes.

The Office of Institutional Research and Student Data makes available the students' name, class, major, home address and local address as well as telephone numbers. You may request that your current year's directory information be suppressed from public distribution by contacting the Enrollment Center and completing the appropriate form no later than September 30 (January 31 for those students beginning their program of study in January) of the current school year.

If you request the public directory information be suppressed, then any request from parents, relatives, friends, student organizations, and all others who may wish to contact you will be denied. Only in emergency situations will we release information concerning your whereabouts to other than those persons authorized under the Act.

ACADEMIC INFORMATION

ACADEMIC HONESTY

Submitting the same work in more than one course without permission from the involved instructors, cheating, plagiarism, or otherwise receiving academic credit under false pretenses, are all serious offenses and may result in dismissal from the College. Instructors may dismiss such offenders from courses with the grade of "AF" and report the cases to appropriate department chairs and the Academic Dean.

APPEALS PROCESS

The academic appeals process consists of the following steps. First, the student meets with the responsible faculty member. If resolution is not reached, the student meets with the department chair of the faculty member's department. The next point of appeal is the Academic Dean, followed by the President. Students should follow this process when concerned with a course grade and related course activities.

For an explanation of rights and responsibilities, students are also referred to the Student Code of Conduct located in the Student Handbook.

ACADEMIC ADVISORS

Matriculated students are assigned a faculty or professional staff advisor or core of advisors who assist students with curricular and scholastic matters and with adjustment to college, and who can refer students to appropriate College personnel for assistance. Students can view their advisor information on the *MyEMCC* student portal.

FULL-TIME STUDENT STATUS

Students who are registered for at least 12 credit hours per semester are considered full-time students. Students who are registered for fewer than 12 credit hours per semester are part-time students. Students should note that most programs require more than 15 credit hours per semester in order to graduate in two years or less.

MATRICULATED STATUS

A student who is admitted to a particular program of study and who continues to make satisfactory academic progress is considered to be a matriculated student. Loss of matriculation status may carry financial aid implications.

MAXIMUM COURSE LOAD

No student will be permitted to enroll in more than 21 credit hours per semester without the permission of the Dean of Academic Affairs.

PLACEMENT TESTING AND COURSE SELECTION

Eastern Maine Community College requires that students achieve minimum scores on the appropriate computerized placement tests before beginning the "standard" program courses. Identifying areas of skill weaknesses and having the opportunity to develop these skills is essential to successful program completion. If a student does not achieve minimum scores, s/he will be required to take preparatory courses.

GRADING SYSTEM

Grades are given as letters with the option of assigning plus or minus to represent levels of achievement. Letter grade designations include the following:

- A Highest honors
- B Honors
- C Satisfactory
- D Minimal passing grade
- F Failure to meet course objectives
- P Satisfactory completion of an ungraded course. No quality points for computation of grade point average (GPA) are assigned, but credit hours are applicable toward graduation requirements.
- AF Administrative Failure Dropped from a course for reasons other than grade performance, such as not meeting course attendance requirements. The quality point value of this grade is zero points or the same as an F grade and will be computed as such in the student's GPA.

- W Withdrawal Withdrawal from a course after add/drop (6 calendar days from) to the midpoint (65 percent of the length of the course) for reasons of health or other extenuating circumstances. No value assigned, nor is it used in computing the GPA.
- Incomplete All course work is expected to be completed by the end of the semester. In exceptional circumstances, students may be given an "I" (Incomplete) grade if they fail to complete their course work on time. One additional semester is provided to the student to complete their "I" grade. At the end of that semester, an "I" grade will be converted to an "F" (failing) grade if the student has not completed missing work and a grade change has not been submitted to the Office of Institutional Research and Student Data.
- NG No grade at this time

AUDIT

Students may audit an Eastern Maine Community College course provided that they meet the course prerequisites. They must pay normal tuition and lab fees for the course. Students auditing a course receive no credit for that course. Their academic transcript will record the course with a grade of "AU" for audit. Permission to audit courses may be withheld due to class size limitations, as students taking courses for credit have first registration priority. Request to audit a course must occur within the add-drop period. Request to change status from credit to audit must occur by the mid-point of the semester.

GRADE POINT AVERAGE

Letter grades equal the following point values, which are used to calculate term and cumulative grade point averages (GPA)

A grade point average is calculated by multiplying the quality point value (0.00 to 4.00) for the letter grade earned (A to F) by the number of credit

hours per course. The products are totaled and are then divided by the total number of credits hours carried during the semester.

Grade point averages computed by the semester are referred to as term grade point averages. Grade point averages computed for all courses taken to date are referred to as cumulative grade point averages.

Only Eastern Maine Community College courses are used to determine grade point averages.

GRADE APPEALS BY STUDENTS

The academic appeals process for students who have concerns about grades or course activities consists of a four part process:

- <u>Step One</u>: The student starts by talking with the responsible instructor.
- <u>Step Two</u>: If resolution of the issue is not satisfactory to the student, the student may appeal to the department chair of the faculty member's department.
- <u>Step Three</u>: If resolution is still not satisfactory, the student may appeal to the Dean of Academic Affairs.
- <u>Step Four:</u> As the final step of the appeals process, the student may appeal to the President of the College.

PRESIDENT'S LIST

At the end of each semester the Academic Dean prepares for the President a list of those fulltime Dean's List students who have earned a grade point average of 4.0. Students may not be considered for the President's List if they have incomplete grades. The President offers special recognition to these students.

DEAN'S LIST

For the purpose of recognizing academic excellence among full-time matriculated students, each semester the Academic Dean will prepare a list of those students who have earned a semester grade point average of 3.25 or higher with no course grade below a C. Students may not have incomplete grades to be considered for the Dean's List. Full-time students are registered for at least 12 credit hours for the semester.

HONORABLE MENTION LIST

Eastern Maine Community College recognizes and applauds the academic accomplishments of its part-time students through the Honorable Mention List. All of the following criteria must be met for a student to be eligible for the Honorable Mention List:

- Must be matriculated;
- Must be enrolled in 6-11 credit hours;
- Must have earned a C or better in every course;
- Must not have any incomplete grades for the semester; and
- Must have earned a semester grade point average of at least 3.25

ACADEMIC PROBATION

Academic probation is a means of identifying those students who are in academic jeopardy, and must show academic improvement in order to continue their studies. Probationary status will be determined by cumulative grade point averages below 2.0 at the end of any semester. Probationary status is removed when students raise their grade point average to 2.0 or better.

Students will be sent notification of probationary status and are encouraged to create a student success plan. They are also encouraged to use the services of the Student Success Center. The Academic Dean may impose conditions which are academically appropriate for continuation of studies. In addition, student permanent records will carry the words "Academic Probation" with the semester of probation.

ACADEMIC DISMISSAL

A student will be dismissed for failure to earn the minimum acceptable *cumulative* GPA below:

- a. less than a 0.50 GPA for up to 15 credit hours attempted
- b. less than a 1.75 GPA for 15.1 to 30 credit hours attempted
- c. less than a 1.90 GPA for 30.1 to 45 credit hours attempted
- d. less than a 2.00 GPA for more than 45 credit hours attempted

Additionally, a student must complete 67 percent of all cumulative attempted credits with a grade of 1.33 or better; otherwise, the student will be dismissed.

Students who have withdrawn from the same course more than twice are required to meet with the Academic Dean. If appropriate, the Dean may choose to dismiss the student.

Students may also be dismissed for violations of the Student Code of Conduct.

Dismissed students will receive notification in writing from the Academic Affairs Office, and the transcript of those students will carry the words "Academic Dismissal," with the semester of dismissal. Dismissal requires students to be un-enrolled for a minimum of one semester. Students may appeal the dismissal decision to the Academic Dean.

MID-SEMESTER GRADES/ACADEMIC WARNINGS

At the mid-point of each semester, the Academic Dean may notify in writing those students whose grades are failing or near failing. These students are encouraged to meet with their instructors and/or department chairs to discuss course work improvement and to use the services of the student Success Center.

Mid-semester grades become part of a student's permanent records; however, they are not recorded on official academic transcripts.

GRADE REPORTS

Students are responsible for accessing their final course grades online using the MyEMCC portal at www.emcc.edu. Grades are not mailed to students.

TRANSCRIPT OF ACADEMIC RECORD

The Office of Institutional Research and Student Data maintains the official academic record of each student in perpetuity. Transcripts of these records are not furnished to individuals, other institutions, or prospective employers without the written consent of the student. Each graduate receives one complimentary official transcript with the diploma. Transcripts are \$5 per request (up to two copies) and \$1 for each additional copy. Expedited transcripts (within a 24-hour turnaround time) are \$10 (prepaid) and faxing any transcripts costs \$10 (prepaid). These fees are not refundable.

No partial transcripts or copies of transcripts from other institutions (including high schools) are issued. Voice or e-mail requests will not be honored, as a signed Transcript Request Form must be submitted in order to provide a transcript.

Transcript Request Forms are available in the Enrollment Center located in Katahdin Hall, online at www.emcc.edu. A student may mail or fax a signed request to the Office of Institutional Research and Student Data. The fax number is 207-974-4683.

ADDRESS AND NAME CHANGE

To ensure that our students receive all correspondence from the College, we request that students notify the Enrollment Center immediately of any change in their name, address, or contact information. To make a name change, the student should provide their updated social security card. The Enrollment Center is located in Katahdin Hall. Address changes may also be made online through the student's MyEMCC account.

EXPUNGING RECORDS

Only the official academic record maintained by the Office of Institutional Research and Student Data is officially designated as a permanent record. Other records can be expunged at the discretion of a specific department where the record resides. For example, the Student Aid Office expunges records five years after the student's last academic year of attendance. Immunization documentation will be destroyed five years after last attendance. Access rights shall be honored prior to the destruction of records if the student has requested such access.

Academic departments which maintain educational records may have specific policies regarding access to and retention of such records which are consistent with FERPA. Students seeking information about those specific policies should contact the specific department or office which is the custodian of that record.

TRANSFER OF CREDIT FROM EASTERN MAINE COMMUNITY **COLLEGE TO OTHER COLLEGES AND UNIVERSITIES**

Eastern Maine Community College is accredited by the New England Association of Schools and Colleges, Inc., therefore, most academic credits will transfer to other colleges and universities. General education courses usually transfer more easily than technical courses. The receiving school has the right to determine whether or not credits will transfer.

EMCC has developed articulation agreements with several colleges/universities to provide seamless transfer opportunities for students moving on to earn a Bachelor's Degree. Our formalized agreements can be found at http://www.emcc.edu/academics/transferringcredits/articulation-agreements/

CREDIT BY EXAMINATION (Challenge Exams)

EMCC offers Challenge Exams to students with specific knowledge for courses which have been approved by the Academic Dean and the Department Chair for the department that specifically offers the course(s).

Permission to take an examination must be obtained from the chair of the department administering the examination. The exams are scheduled at a time and place of the Department Chair's choosing. The exam will be offered by the Department Chair or designate. The Department Chair completes a form for students which designates the name and identification of the course being challenged, the name of the student, and the time and place of the examination. This form is taken to Student Accounts by the student where payment is made. The receipt from Student Accounts must be shown to the Department Chair before the student is permitted to take the exam.

Students having previously failed or withdrawn from a course are not permitted to obtain credit for that course by examination unless the student can demonstrate to the responsible chair that substantial study has occurred since the student failed the course.

The charge for taking a Challenge Exam is generated by Student Accounts. This fee will vary by the number of the credits, by any lab components involved in the Challenge Exam, and by the complexity of the exam. If the Challenge Exam is passed, then the recording fee for the course is one-fourth of the normal tuition charge for the course.

Credit for the course will be granted upon successful completion of the required examination, as determined by the course, and will be recorded on the transcript as "Pass, Challenge Exam." Credit by Examination shall be limited to a maximum number of credit hours such that the combination of transfer credit and credit by examination will not exceed the total percentage of allowable transfer credit listed in the current catalog.

ATTENDANCE, ABSENCES

Students are expected to be punctual and to attend all scheduled classes, laboratory periods, shop activities, and clinical experiences or field work. Faculty members (1) set specific attendance requirements for their classes, (2) file copies of attendance requirements with the Academic Dean, and (3) communicate those requirements to students during the first class meeting of each course.

Students are responsible for all course requirements, regardless of reason(s) for absences. Make-up of academic requirements occurs at the discretion of faculty members.

Written warnings from instructors indicate they are considering dropping students from courses for non-compliance with written policies. Students may be dropped from courses, and a grade of "AF" will be automatically assigned.

REPEATING COURSES

Repeating Failed Courses - Students may repeat any courses that they have failed. If specific failed courses are required for academic programs, the same courses must be repeated unless students receive written permission from the Academic Dean to take others. The last grade earned in a repeated course will be used in computing the cumulative grade point average although grades for all courses taken will appear on the student's transcript.

Repeating Passed Courses - Students may repeat any courses in which they earned passing grades. Students will receive credit only once for each course completed. Even though all courses and grades will appear on transcripts, only grades earned during last attempts will be used to compute cumulative grade point averages.

The student bill is based on the total credits carried for the term, including the passed course.

Special Notes:

- 1. Financial aid recipients may repeat a passed course once and receive financial aid.
- 2. Veteran students cannot have successfully passed courses certified for VA benefits. The repeated course credits are deducted from the overall term credits to determine the veteran's enrollment status. If the reduction in credits results in less than full time enrollment, the veteran's monthly benefit will be reduced.

ADD/DROP AND COURSE WITHDRAWAL

Eastern Maine Community College offers courses within various timeframes. As a result, both Add/Drop and Course Withdrawal periods differ in length, according to the course in question.

ADD/DROP

For fifteen- and sixteen-week semesters, the Add/Drop period will be the first 6 calendar days of the semester. For periods shorter than 15 weeks, the Add/Drop period will be the first 10% of classes. Courses can be added outside this time frame only for exceptional circumstances with the instructor's permission. Special Note: Financial Aid and VA benefits are based on the total credits a student is registered for at the end of the Add/Drop period.

During this period, students may change their academic schedules with the approval of the appropriate advisor. A change is considered official only after Enrollment Management has received it. Courses dropped from the student schedules during the Add/Drop period will not appear on transcripts.

COURSE WITHDRAWAL

The Withdrawal period begins after Add/Drop and ends at the 65% point of the course. Courses dropped during the Withdrawal period will reflect a "W" on the transcript. After the Withdrawal period, students who stop attending will receive an "AF" or "F".

Students who withdraw from technology classes during a semester will remain enrolled in their academic program through the end of that semester. If students intend to take classes in the following semester as matriculated students, they must contact the Admissions Office to request an extension of their academic program, or apply for and be accepted to another academic program at the College.

Special Notes:

- 1. Financial aid is not adjusted if a student withdraws from a class after the Add/Drop period.
- 2. VA benefits are adjusted if a student withdraws from a class anytime during the semester. Their enrollment change is reported to the Veterans Administration and can result in an adjustment to their monthly stipend as well as the possibility of their obligation to repay benefits to the VA.

SATISFYING PROGRAM REQUIREMENTS

Students are responsible to monitor their degree program requirements and to plan their schedule of courses accordingly. They should check with their academic advisor, before making any change to their schedules. Students are responsible to meet all graduation requirements of their academic program.

GRADUATION

Requirements: Eastern Maine Community College will grant associate in applied science degrees, associate in science degrees, associate in arts degrees, advanced certificates, and certificates to those students who have:

- 1. passed all prescribed courses required in their program with a minimum cumulative GPA of 2.0;
- 2. passed all courses within their major area of study with a minimum cumulative GPA of 2.0; and

3. paid all bills.

Application for Graduation: All students are required to complete an Application for Graduation. Generally, students completing their program in a given academic year submit their application in November. To apply for graduation, visit MyEMCC and follow the instructions in the posted February announcement.

Attendance at Graduation: Students who have fulfilled the requirements for graduation are expected to attend commencement exercises. Graduation documents and official transcripts will be mailed after commencement.

Students who complete their course requirements after the May commencement (for example, after the summer or fall semesters) must notify the Academic Dean to initiate the process for approving their credential.

Awards of Excellence: During each commencement exercise, those students who have excelled both personally and academically within their program receive the Excellence in Technology awards. Usually one student in each technology receives this award. Phi Theta Kappa members and students graduating with honors (cumulative grade point averages of at least 3.25) are also recognized.

Awards of Excellence and other recognitions of achievement require that a student earns 75% of credits from courses taken at EMCC.

Graduating with Honors/High Honors: Graduating students meeting a 75% residency requirement at EMCC will be eligible for the awards of Honors and High Honors if they attain the requisite cumulative GPA. The Honors award requires a cumulative GPA of 3.25-3.74; the High Honors award requires a cumulative GPA of 3.75-4.00.

CHANGE IN PROGRAM/LEVEL

Change of Level: With the permission of the Director of Admissions, students enrolled in programs offering more than one level of instruction may change from one level to another.

Change of Program: Enrolled students wishing to be considered for a different program of study must apply through the Admissions Office. Those decisions involve available space, academic preparation, and commitment to the desired program. However, the change of program would not take effect until the following semester.

BREAK IN ENROLLMENT

Matriculated students who do not enroll in program-specific courses each consecutive semester until the completion of all program requirements may be withdrawn from their program as a result of the break in attendance. Students who have been withdrawn otherwise in good standing with Eastern Maine Community College are asked to discuss their intent to re-enroll with an Admissions Counselor. Students may be required to complete an Application for Readmission. Re-entry into certain courses and/or programs will be on a space-available basis.

WITHDRAWAL FROM THE COLLEGE

Students who decide to withdraw from Eastern Maine Community College must obtain and complete a "Student Status Change Form" from the Academic Affairs Office. Failure to follow this official withdrawal process may result in failing grades recorded on the student's academic transcript.

Non-attendance of classes is not considered withdrawal and jeopardizes a student's academic record and eligibility for a refund of tuition, refundable fees, or room and board costs. Students who live on campus must follow the check-out procedure identified in the Residential Life Handbook.

READMISSION AFTER DISMISSAL OR WITHDRAWAL

Students who withdraw from Eastern Maine Community College while failing one or more courses or who are dismissed for academic reasons, will not be readmitted any sooner than one academic semester from the date of withdrawal/dismissal. Students who are dismissed for academic reasons may appeal their dismissals to the Academic Dean who will then (1) allow the dismissal decision to stand, (2) reverse the decision, or (3) readmit them under specified conditions.

Students dismissed for academic reasons may enroll, with the approval of the Academic Dean, in specific courses in order to remove deficiencies that may have resulted in the dismissal.

Special Note: The decision of the Academic Dean to permit a student to return to classes, does not automatically restore the student's financial aid eligibility. Refer to the College Financial Aid web page for an explanation of federal regulations regarding Satisfactory Academic Progress for financial aid recipients.

LEAVE OF ABSENCE

A matriculated student in good academic standing may apply for and receive a Leave of Absence (usually no longer than a year) while maintaining status in his or her degree program. If a student is in the first semester of study, the Leave request will be reviewed at the end of the semester when grades are available. A student may not request a Leave of Absence for the semester in which he or she is enrolled. Students wishing to return from a Leave of Absence are required to submit an Application for Readmission with the Admissions Office to indicate their interest in returning.

Re-entry into the technology courses is on a space-available basis. Further information and necessary forms may be obtained in the Academic Affairs Office.

STUDENTS CALLED TO ACTIVE MILITARY SERVICE

Eastern Maine Community College recognizes the educational rights of its students who are called to active military duty. Students who (either voluntarily or involuntarily) enter active military service during time of national or international crisis will be eligible for financial credit for their course work. Students must call or meet with the Academic Dean prior to departure to discuss the reasons for entering active military service and complete the appropriate withdrawal form. Readmission to the student's program is based on space availability.

LIBRARY

The Eastern Maine Community College Library is located on the second floor of Katahdin Hall and is open 60 hours a week. The Library is wireless and offers the following:

- Books, journals and more for research
- Computer access
- Laptops you can take out of the Library
- Group study rooms including the reservable Chute Group Study Room
- Quiet study environment
- Recreational reading materials
- Special events including art receptions
- Interlibrary loan service
- Library tours
- Course reserves
- Research assistance including citation help
- Book to Art club

The Library website found at http://emcc.libguides.com/emcclibrary offers thousands of online resources available 24/7 including:

- E-books for research including Ebrary and Credo ebooks
- E-journals
- E-newspapers
- Citation help including NoodleTools and APA/MLA handouts
- Library tutorials
- Online Library Scavenger Hunt
- Research tips
- Subject guides
- E-books for leisure reading including Kindles and other e-readers
- Chat reference services
- Schedule a research appointment from the library website

Staff librarians are happy to assist students with any questions. An EMCC ID is required to check out materials from the Library and access them online. A student's library barcode is 2644000 + EMCC ID number. The Library is open Monday-Thursday from 8 a.m. to 9 p.m., and Fridays from 8 a.m. to 5 p.m. during the academic year. Break and summer hours change and are posted on the Library website.

Phone: (207) 974-4640 Text: (207) 245-1351

Email: ask@emcc.libanswers.com

STUDENT SUCCESS CENTER

The Student Success Center (SSC) located in Room 121, Maine Hall empowers students to take personal responsibility for their learning by offering a variety of free services that students can access to help them succeed at Eastern Maine Community College. These services include academic advising, disability services, lunch and learn workshops, placement testing, supplemental instruction, tutoring, and writing lab.

SUPPORT SERVICES FOR STUDENTS WITH DISABILITIES

The Student Success Center provides and coordinates services to students with documented disabilities in accordance with Section 504 of the Rehabilitation Act of 1973 and Title II of the Americans with Disabilities Act of 1990. Students requesting accommodations must fill out an EMCC Disability Services Request Form and submit supporting documentation to the Coordinator of Disability Services, located in the Student Success Center, to be considered for accommodations.

PHI THETA KAPPA INTERNATIONAL HONOR SOCIETY

The purpose of Phi Theta Kappa is the recognition and encouragement of scholarship among associate degree students. To achieve this purpose, Phi Theta Kappa provides opportunities for the development of leadership and service, an intellectual climate for exchange of ideas and ideals, lively fellowship for scholars, and stimulation of interest for continuing academic excellence.

Membership is extended by invitation. To be considered for membership, a student must:

- be enrolled during the semester that the invitation is being extended;
- have completed a minimum of 12 academic credit hours (in 100-level courses);
- have a grade point average of 3.5 or higher;
- be of good moral character and possess recognized qualities of citizenship; and be recommended by the department chairperson.

Membership is recognition of intellectual achievement while students are enrolled in college, as they continue their education, and as they seek employment. Membership avails opportunities for leadership and service locally, regionally, and nationally.

The membership fees are the sole resource by which Phi Theta Kappa is able to provide education and cultural programs and services for its members.

STUDENT EXCHANGE EXPERIENCES

Eastern Maine Community College will offer up to three college credits for student exchange experiences in other countries. In order to earn credit, students are required to satisfy predetermined goals and objectives. Sixty hours of on-site experiences will be worth one credit hour, with a maximum of three credit hours for any single exchange experience. The final grade will be pass or fail.

COMPUTER USE POLICY FOR ALL USERS

Purpose: To promote and ensure the responsible use of computers by or through Eastern Maine Community College.

EMCC seeks to enhance opportunities for individual and collaborative learning and research. As a public institution with limited resources and distinct policy and legal obligations, EMCC also needs to ensure that such uses are consistent with those resources and obligations. The goal of this Policy is to balance these interests and promote responsible and secure use for all.

APPLICATION

This policy applies to:

- A. each Center and any other entity of EMCC;
- B. all computing resources owned or operated by EMCC including, but not limited to, all hardware, software, peripherals, networks, network components, accounts, physical and logical data, e-mail and all other data or information transmitted by such equipment ("computers");
- C. all employees, students and other persons who use such computers ("users"); and
- D. in addition to any other computer use policy adopted by entities of EMCC, and by entities outside EMCC that operate resources accessed through or from EMCC.

GENERAL RULES

Educational Priority - The priority use of EMCC's computers is to provide direct support for learning, teaching and administration of programs. Such priority will govern access to EMCC's computers.

Use is a Privilege, Not a Right: Users do not have a right to use EMCC computers or accounts thereon. Users are granted a privilege to use such computers and accounts. This privilege is limited by the provisions of this Policy, any other pertinent policy or law, and may be withdrawn for violation thereof.

Limited Right of Privacy: Users may not have an expectation of privacy in their use of EMCC's computers or networks. For example, EMCC reserves the following rights:

- 1. <u>Periodic Network Monitoring</u>. EMCC reserves the right to monitor periodically, randomly and without notice use rates, patterns, speed and system capacity to ensure the efficiency or integrity of the EMCC network and its computers. Such monitoring may proceed only by a person expressly authorized by the College President.
- 2. <u>Inspection of a Particular Account or Computer</u>. EMCC reserves the right to inspect for reasonable cause those accounts, computers or files that EMCC has reason to believe are misused, corrupt or damaged. Such inspection may proceed only by a person expressly authorized by the College President and as advised by the MCCS General Counsel.
- 3. <u>Search and Seizure by Law Enforcement Agencies</u>. User accounts, computers or files may also be subject to search and seizure by law enforcement agencies for law enforcement purposes.

Time, Manner and Place Limitations: EMCC reserves the right to limit certain uses on or through EMCC computers at those times and locations that EMCC determines are necessary to regulate system capacity and speed. These limitations apply, but are not limited, to download of video, music, photographic and other large data files.

Examples of Specific Prohibitions

Conduct that violates this Policy includes, but is not limited to, the following:

- a. unauthorized access to computers;
- b. unauthorized use of a computer account;
- c. connecting unauthorized equipment to the EMCC network;
- d. unauthorized attempts to circumvent data protection or security including, but not limited to, creating or running programs that identify security loopholes or decrypt secure data;
- e. knowingly or recklessly performing an act that will interfere with the regular operation of a computer;
- f. knowing or recklessly running or installing a program that, by intent or effect, damages a computer, system or network (this includes, but

- is not limited to, programs known as computer "viruses", "Trojan horses" and "worms".);
- g. knowingly or recklessly wasting computer resources;
- h. knowingly or recklessly overloading computer resources, such as running excessive programs that use relatively substantial bandwidth and other resources (this includes, but is not limited to, peer-to-peer applications.);
- i. violating terms of applicable software licensing agreements;
- violating copyright laws, including their fair use provisions, through unlawful reproduction or dissemination of copyrighted text, images and other protected materials;
- k. using System computers for commercial activity, such as selling products or services;
- I. using electronic mail to harass or threaten another person or organization;
- m. initiating or perpetuating electronic chain letters or unauthorized mass mailings (this includes, but is not limited to: multiple mailings to news groups, mailing lists or individuals; "spamming;" "flooding;" and "bombing".);
- n. forging the identity of a person or computer in an electronic communication;
- o. transmitting or reproducing materials that is libelous, slanderous or defamatory;
- p. displaying, downloading, printing or distributing obscene, lewd, sexually explicit or sexually offensive images or text in a manner that constitutes sexual harassment or other violation of law;
- q. unauthorized monitoring of another user's electronic communications; or reading, copying, changing or deleting another user's files or software without authority; and R. otherwise violating existing laws or EMCC policies.

Enforcement: Violation of this Policy may result in the loss of computing and/or network access; other disciplinary action; or appropriate civil or criminal legal action.

Security: The EMCC Dean of Information Technology shall work with the MCCS Director of Finance and Administration to develop and adopt standards that provide adequate uniform security for all System computers and networks.

CORPORATE AND PROFESSIONAL SERVICES EMCC CENTER FOR BUSINESS & INDUSTRY

Eastern Maine Community College's Center for Business and Industry serves the community as an economic and workforce resource. The Center is responsive to the education and training needs of the Tri-County Region (Penobscot, Piscataquis and Hancock Counties), and works with businesses and community partners to address workforce growth, training needs, professional development, and education.

SERVICES

Customized Trainings: Short-term and long-term courses can be designed to fit the training needs of a business or organization. EMCC is adept at designing a wide range of technical trainings, and trainings to enhance communication, teamwork, supervisory, leadership, process and quality, and change management skills. Courses can be designed to award continuing education units or college credits depending on the goals and requirements of the organization.

Non-credit Courses and Certifications: EMCC offers a variety of general non-credit courses in both technical and professional development fields. These often prepare students for certification exams that result in industry required licensures.

Maine Quality Centers: Maine Quality Centers is a program of the Maine Community College System that offers grant funding for customized training received through any of Maine's seven community colleges. Funding is available for new employee training resulting from business expansion; and incumbent worker training for existing employees.

Welding Test Center: The Welding Test Center is an independent materials testing laboratory that provides mechanical testing services for industry. Other services include welding/brazing procedure specification development, welding/brazing procedure qualification testing and welder/brazer performance qualification testing to all major welding codes, developing individual company welder qualifications, and code and welding consultation services. The Center is accredited by the American Welding Society, the Maine Department of Transportation and

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the Maine Department of Labor - Boiler Division. The Welding Test Center holds membership with: American Society of Mechanical Engineers (ASME), American Society of Non-destructive Materials (ASNT), American Society of Testing Materials (ASTM), American Society of Materials (ASM), Maine Marine Trades Association, and Manufactures' Association of Maine.

ACADEMIC PROGRAMS

ESSENTIAL LEARNING OUTCOMES

All graduates of associate degree programs at Eastern Maine Community College will improve their initial skills in the following common learning objectives:

Communication: Graduates effectively convey ideas to others using graphics, speech and writing.

Teamwork: Graduates work effectively in teams with individuals from diverse backgrounds.

Independent Learning: Graduates access, evaluate, and synthesize information independently using appropriate technology.

Problem Solving: Graduates can interpret manuals and reports, use mathematical skills, scientific methods, and logic to identify and solve problems appropriate to the discipline of study.

GENERAL EDUCATION COURSES BY CATEGORY

Most program requirements include restricted electives which include any 100-level or higher course with the specified prefix. Elective courses by category are:

HUMANITIES	COMMUNICATIONS	MATHEMATICS	SCIENCE	SOCIAL SCIENCE
Literature	ENG101	MAT	BIO	ECO
ENG112	ENG116		CHE	GEO
ENG222	ENG162		CHM	GIS
ENG223	ENG172		NUT	HIS
ENG224	ENG215		PHY	PSY
ENG225	ENG221			SOC
ENG227	SPE101			
ENG228				
ENG241				
ENG291				
Fine Arts				
ART				
ENG212				
ENG214				
HUM				
MUS				
Philosophy				
PHI				
Language				
ASL				
KOR				

Humanities: The study of literature, language, philosophy, and fine arts to analyze values, to stimulate speculation and creativity, and to explore the meaning of human existence.

English (Writing Intensive or Communication): The study of the skills of discourse—collecting, preparing, and presenting ideas in written and oral form.

Mathematics: The study of numbers and their operations, measurement, and relationships, and the use of computational methods in problem solving.

Science: The study of life and physical sciences directed toward the application of the scientific method of inquiry to natural phenomena.

Social Science: The study of psychological, social, historical, and political behavior directed toward an understanding of human continuity and change.

Automotive Technology

Credentials:

Associate in Applied Science Degree 65 credit hours)
Certificate (33 credit hours)

Academic Requirements for Admission:

<u>A.A.S. Degree</u>: High School level Algebra I required. Algebra II, Geometry, Physics or Chemistry with Lab desired. Certificate: High School level Algebra I required.

Program Overview:

The Automotive Technology program provides theoretical foundations, practical education, and work experience in the engineering, testing, servicing, troubleshooting and repairing of automobiles. The program is accredited by the National Automotive Technicians Education Foundation (NATEF), a division of ASE, as a Master Automotive Program in all eight areas of Automotive accreditation. The curriculum follows the NATEF standards, which helps students to prepare for ASE technician certification tests.

Graduates are employed as automotive service technicians, sales personnel, service managers, maintenance supervisors, service writers, warranty claims adjusters, and parts persons.

Concurrent enrollment agreements with many high schools and technical education centers offer students the opportunity to get a head start on their college careers by taking classes and earning college credit while still in high school. Information can be found at http://www.emcc.edu/academics/concurrent-enrollment/

Key Learning Objectives:

Graduates with the Associate in Applied Science Degree will function at an entry-level position for servicing, diagnosing, repairing, and creating work orders in the following areas:

- Car and light truck hydraulic and anti-lock braking systems
- Standard/automatic transmissions, transaxles and drivelines
- Gasoline and light-duty diesel engines

- Gasoline fuel systems
- Steering and Suspension systems
- Electrical and electronic systems
- Emissions control systems
- Heating, ventilation and air conditioning systems

Graduates will demonstrate:

- proper public relations and customer service techniques for an independent or dealer service facility.
- an understanding and application of legal requirements including those of OSHA, EPA, and State of Maine regulations regarding the handling and disposal of hazardous materials and related safety issues.

Students are tested with standard written tests as well as hands-on testing that coincide with the assigned textbook, NATEF standards, as well as industry standards in each area. Students must pass Automotive courses with a C or higher to count for graduation.

Automotive Service Excellence (ASE) Profile

Until the early 1970's, consumers had no way to distinguish between incompetent and competent mechanics. In response to this need, the independent, non-profit institute for Automotive Service Excellence (ASE) was established in 172. ASE's mission is to improve the quality of vehicle repair and service through the testing and certification of repair and service professionals. At present time there are about 438,000 professionals with current certifications. They work in every segment of the automotive industry; car and truck dealerships, independent garages, fleets, service stations, franchises, and more.

Automotive Technology – A.A.S. Degree			
First Semester	Automotive Courses	Credits	
ATA 100	Automotive Safety and Light Vehicle Repair	4	
ATA 110	Automotive Basic Electrical Systems	3	
ATA 120	Automotive Shop Management	2	
ATA 124	Automotive State Inspection Prep (Elective)	1	
	General Education Courses	Credits	
ENG 101	College Composition	3	
MAT 113	Technical Mathematics I	3	
Second Semester	Automotive Courses	Credits	
ATA 125	Automotive Steering and Suspension I	2	
ATA 126	Automotive Steering and Suspension II	2	
ATA 145	Automotive Brake Systems I	2	
ATA 146	Automotive Brake Systems II	2	
ATA 150	Automotive Engine Repair	3	
	General Education Courses	Credits	
Restricted	Any Humanities or Social Science	3	
Elective	(100 level or higher)		
MAT 114	Technical Mathematics II	3	
Summer Semester			
ATA 190	Automotive Program Internship	3	
Third Semester	Automotive Courses	Credits	
ATA 210	Advanced Automotive Electrical Systems	3	
ATA 215	Manual Transmissions and Driveline	3	
ATA 220	Engine Performance and Diagnosis	3	
WEL 265	Gas Metal Arc Welding Basic	1	
	General Education Courses	Credits	
Restricted	Any Lab Science (100 level or higher)	4	
Elective			
Fourth Semester	Automotive Courses	Credits	
ATA 225	Automotive Heating and Air Conditioning	3	
ATA 230	Drivability and Emission Controls	3	
ATA 235	Automatic Transmissions and Transaxles	3	
	General Education Course	Credits	
ENG 215	Business and Technical Writing	3	
Restricted	Any Humanities or Social Science	3	
Elective	(100 level or higher)		
	TOTAL A.A.S. DEGREE CREDITS	65	

Automotive Certificate in Basic Systems First Semester **Automotive Courses** Credits Automotive Safety and Light Vehicle Repair **ATA 100** 3 **ATA 110 Automotive Basic Electrical Systems** 2 **ATA 120 Automotive Shop Management** 1 **ATA 124** Automotive State Inspection Prep (Elective) **General Education Courses** 3 **ENG 101 College Composition MAT 113** Technical Mathematics I 3 Credits **Second Semester Automotive Courses** 2 **ATA 125** Automotive Steering and Suspension I Automotive Steering and Suspension II 2 ATA 126 2 **ATA 145** Automotive Brake Systems I 2 **ATA 146** Automotive Brake Systems II 3 ATA 150 **Automotive Engine Repair General Education Courses Credits** Restricted Any Humanities or Social Science Elective (100 level or higher) **MAT 114** 3 Technical Mathematics II **TOTAL CERTIFICATE CREDITS** 33

Building Construction Technology

Credentials:

Associate in Applied Science Degree (61-63 credit hours) Associate in Science Degree (60 credit hours) Certificate (32 credit hours)

Academic Requirements for Admission:

A.S. Degree: High School level Algebra I, Algebra II, Geometry, Physics or Chemistry with Lab required.

A.A.S. Degree: High School level Algebra I required. Algebra II, Geometry, Physics or Chemistry with Lab desired.

Certificate: High School level Algebra I required.

Program Overview:

Associate in Applied Science Degree: This program is designed for students who are planning for leadership positions within the construction industry. This program encompasses studies in cabinetmaking and millwork, residential, commercial and industrial Building science, construction estimating and construction. scheduling, building codes, quality control and safety are integral components of this program. Students learn blueprint reading, computer aided drafting and design, construction layout, and carpentry skills. Students apply these skills by performing field layout projects, constructing a residential building, manufacturing and installing cabinetry and designing, placing and finishing concrete.

Associate in Science Degree: This program is designed for students who are planning for mid-management positions within the construction industry or who will transfer credits to another college. This program encompasses studies in residential, commercial and industrial construction. Building science, construction estimating and scheduling, building codes, quality control and safety are integral components of this program. Students learn skills in blueprint reading, computer aided drafting and design, construction layout, and carpentry skills. Students apply these skills by performing field layout projects, constructing a residential building, and designing, placing and finishing concrete.

Certificate: This program is designed to prepare students for entrylevel positions as a carpenter in the residential building field. Students who complete the Certificate will earn NCCER* Certification at Carpentry Level I and part of Level III. This program focuses on residential construction. Students study blueprint reading, drafting, safety and residential construction practices and apply these studies by building a residential building.

Concurrent enrollment agreements with many high schools and technical education centers offer students the opportunity to get a head start on their college careers by taking classes and earning college credit while still in high school. Information can be found on http://www.emcc.edu/academics/concurrent-enrollment/

Key Learning Objectives:

Graduates with the Associate in Science Degree or the Associate in Applied Science Degree in the Building Construction program will function at an entry-level position in the construction industry, but with the skill set necessary for later promotion into a midmanagement level position. Skills will include:

- Blue-print reading and drafting
- Planning construction projects and reviewing for code compliance
- Estimating of costs and time for construction projects
- Layout of building projects using transits and levels
- Inspecting work for quality assurance
- Explaining the integration of building components as a system
- Performing energy audits Earning NCCER* certifications in Carpentry Level I, II and portions of Level III.

Building Construction Technology—A.S. Degree		
First Semester	Building Construction Course	Credits
BCT 151	Residential Construction I	7
	General Education Courses	Credits
DTG 121	Architectural Drafting I	3
ENG 101	College Composition	3
MAT 113	Technical Mathematics I	3
Second Semester	Building Construction Course	Credits
BCT 152	Residential Construction II	7
	General Education Courses	Credits
DTG 124	Architectural Drafting II	3
MAT 114	Technical Mathematics II	3
Restricted	Any Communications (100 level or higher)	3
Elective		
Summer		Credits
BCT 201	Cooperative Education for Building	1-3
Elective	Construction Technology	
Third Semester	Building Construction Courses	Credits
BCT 213	Stair Construction	1
BCT 255	Commercial and Industrial Construction	4
BCT 264	Construction Estimating	3
DTG 223	Architectural Drafting III	3
	General Education Courses	Credits
PHY 121	Physics I	3
PHY 122	Physics I Laboratory	1
Fourth Semester	Building Construction Course	Credits
BCT 275	Building Science	4
	General Education Courses	Credits
Restricted	Any Humanities or Social Science	3
Elective	(100 level or higher)	
Restricted	Any Humanities or Social Science	3
Elective	(100 level or higher)	
Restricted	Any Humanities or Social Science	3
Elective	(100 level or higher)	
	TOTAL A.S. DEGREE CREDITS	61-63

^{*}National Center for Construction Education and Research (NCCER) is a nationwide standardized curriculum and testing organization. NCCER completion credits are recognized by construction firms all over the country.

Building Construction Technology—A.A.S. Degree			
First Semester	Building Construction Course	Credits	
BCT 151	Residential Construction I	7	
	General Education Courses	Credits	
DTG 121	Architectural Drafting I	3	
ENG 101	College Composition	3	
MAT 113	Technical Mathematics I	3	
Second Semester	Building Construction Course	Credits	
BCT 152	Residential Construction II	7	
DTG 124	Architectural Drafting II	3	
	General Education Courses	Credits	
Restricted Elective	Any Math or Science (100 level or higher)	3-4	
Restricted Elective	Any Communications (100 level or higher)	3	
Summer		Credits	
BCT 201	Cooperative Education for Building	(1-3)	
Elective	Construction Technology (optional)		
Third Semester	Building Construction Courses	Credits	
BCT 213	Stair Construction	1	
BCT 255	Commercial and Industrial Construction	4	
BCT 264	Construction Estimating	3	
DTG 223	Architectural Drafting III	3	
	General Education Courses	Credits	
Restricted	Any Math or Science (100 level or higher)	3-4	
Elective			
Fourth Semester	Building Construction Courses	Credits	
BCT 272	Cabinetmaking and Millwork	5	
BCT 275	Building Science	4	
General Education Courses		Credits	
Restricted	Any Humanities or Social Science	3	
Elective	(100 level or higher)		
	TOTAL A.A.S. DEGREE CREDITS 61-63		

Building Construction Technology—Certificate		
First Semester	Building Construction Course	Credits
BCT 151	Residential Construction I	7
DTG 121	Architectural Drafting I	3
	General Education Courses	Credits
HIS 101	American History Since 1898	3
MAT 113	Technical Mathematics I	3
Second Semester Building Construction Course		Credits
BCT 152	Residential Construction II	7
DTG 124	Architectural Drafting II	3
General Education Courses		Credits
ENG 101	College Composition	3
MAT 114	Technical Mathematics II	3
TOTAL CERTIFICATE CREDITS		

Business Management

Credential:

Associate in Applied Science Degree (60 credit hours)

Academic Requirements for Admission:

High School level Algebra I, English Composition required.

Program Overview:

The Business Management program provides a sound foundation of principles designed to prepare students for the business world. Courses offer practical, marketable skills while developing an understanding of business theory.

Graduates are qualified for entry-level management employment in banking, retailing, federal and state government, sales, insurance, and marketing.

Key Learning Objectives:

Graduates with the Associate in Applied Science Degree in the Business Management program will get a thorough grounding in the theories and principles of accounting, finance, marketing, economics, statistics, and management. You'll come away with training on how to budget, organize, plan, direct, control, and otherwise manage various organizations. No matter the industry or specific work setting, sound business principles are critical for the organization's success and business majors play a critical role in helping their employer realize that success.

EMCC has developed articulation agreements with several colleges/universities to provide seamless transfer opportunities for student's moving on to earn a Bachelor's Degree. Our formalized agreements can be found on http://www.emcc.edu/academics/transferring-credits/articulationagreements/

In addition, concurrent enrollment agreements with many high schools and technical education centers offer students the

opportunity to get a head start on their college careers by taking classes and earning college credit while still in high school. Information can be found on http://www.emcc.edu/academics/ concurrent-enrollment/.

Skills Developed Through this Major:

Analytical Numerical Analysis & Interpretation

Computer Literacy Marketing **Creative Thinking** Organizational

Planning & Budgeting **Creative Thinking Problem Solving**

Decision Making Management (People & Activities) Teamwork

Oral & Written Communication Time Management

Sample Career Titles with this Degree:

Administrative Assistant Entrepreneur Administrative Professional Tax Preparer **Customer Service Representative Event Planner** Loan Officer Accounts Payable/Receivable Clerk Sales Representative **Business Analyst Program Coordinator** Real Estate Agent

Project Assistant/Manager **Human Resource Assistant**

Retail Sales Representative Marketing Specialist **Customer Service Representative Advertising Assistant**

Busi	ness Management—A.A.S. Degree	
First Semester	Business Management Courses	Credits
BUA 101	Introduction to Business	3
BUA 111	Accounting I	3
BUA 165	Business Math	3
	General Education Course	Credits
ENG 101	College Composition	3
PSY 101	Introduction to Psychology <u>or</u>	3
	PSY 211 Human Relations	
Second Semester	Business Management Courses	Credits
BCA 115	Introduction to Computer Applications	3
BUA 112	Accounting II	3
BUA 131	Business Law I	3
	General Education Courses	Credits
MAT 119	MAT119 College Algebra	3
ENG 215	Business and Technical Writing	3
Third Semester	Business Management Courses	Credits
BUA 211	Managerial Accounting	3
BUA 234	Credit and Finance Management	3
Restricted	Any Business Management	3
Elective	(100 level or higher)	
	General Education Courses	Credits
ECO 221	Introduction to Microeconomics	3
MAT 161	Introduction to Statistics	3
Fourth Semester	Business Management Courses	Credits
BUA 271	Marketing Principles	3
BUA 291	Principles of Management and Organization	3
Restricted	Any Business Management	3
Elective	(100 level or higher)	
•	General Education Course	Credits
ECO 222	Introduction to Macroeconomics	3
PHI 101	Ethics	3
•	TOTAL A.A.S. DEGREE CREDITS	60

Business Management Elective Options: BUA 132 Business Law II; BUA 141 Principles of Small Business Management; BUA 103 Business Plan Development; BUA 213 Accounting with Quickbooks; BUA 260 Social Environment of Business; BUA 263 Sales and Customer Relations; BUA 265 Leadership; BUA 281 Cooperative Education for Business. Other business courses may be considered on an individual basis.

Business Management - Small Business Development

Credential:

Certificate (30 credit hours)

Academic Requirements for Admission:

High School level Algebra I and English Composition required.

Program Overview:

The Certificate in Small Business Development is intended to help those individuals wanting to start a business or to help their current business become more successful.

Students enrolled in this program may also be Associate Degree students in Business Management. Most graduates of the Certificate program will be students adding courses to their existing programs.

Business Management -			
Small	Small Business Development—Certificate		
First Semester	Business Management Courses	Credits	
BUA 101	Introduction to Business	3	
BUA 111	Accounting I	3	
BUA 141	Principles of Small Business Management	3	
BUA 263	Sales and Customer Relations	3	
General Education Courses C		Credits	
ENG101	College Composition	3	
Second Semester Business Management Courses		Credits	
BUA 112	Accounting II	3	
BUA 131	Business Law I	3	
BUA 103	Business Plan Development	3	
BUA 271	Marketing Principles	3	
	General Education Course	Credits	
PHI 101	Ethics	3	
	TOTAL CERTIFICATE CREDITS 30		

Civil Engineering Technology

Credential:

Associate in Science Degree (64-66 credit hours)

Academic Requirements for Admission:

High School level Algebra I, Algebra II, Geometry and Physics required. Trigonometry desired.

Program Overview:

Civil Engineering Technology prepares students for employment as civil engineering technicians who will assist in the planning, design, and construction of buildings, highways and heavy construction.

Key Learning Objectives:

Graduates with the Associate in Science Degree in Civil Engineering Technology will function at an entry-level position as a civil engineering technician with the following skills:

- Analyze and solve solutions of force systems for beams, trusses, and frames under static loading.
- Evaluate material performance under applied loads for engineering applications for concrete, metals, plastics, and wood, and taking into account building code requirements for loads including dead, live, snow, wind, and earthquake.
- Construct probability density functions from test data and compute probabilities of failure.
- Use surveying procedures in construction and to calculate volume, stakeout, and grade.
- Layout site mapping, profile, and cross-sections.
- Use computer aided drafting and design software to draft plans and to analyze and design various civil engineering projects.

Civil Engineering Technology—A.S. Degree		
First Semester	Civil Engineering Course	Credits
CET 100	Introduction to Civil Engineering	1
CET 110	Materials	3
CET 111	Materials Lab	1
1	General Education Courses	Credits
ENG 101	College Composition	3
Restricted	MAT 119 College Algebra <u>or</u>	3 or
Elective	MAT 123 College Algebra & Trigonometry	4
PHY 121	Physics I	3
PHY 122	Physics I Laboratory	1
Second Semester	Civil Engineering Course	Credits
CET 101	Plane Surveying	3
CET 121	Civil CADD	3
CET 214	Soils Mechanics	4
'	General Education Courses	Credits
Restricted	MAT 120 College Trigonometry or	3
Elective	MAT 217 Pre-Calculus	
PHY 123	Physics II	3
PHY 124	Physics II Laboratory	1
Summer	,	Credits
CET 201	Cooperative Education for Civil	3
	Engineering Technology (or CET 221)	
Third Semester	Civil Engineering Courses	Credits
CET 124	Construction Estimating	3
CET 211	Statics and Strength of Materials	4
1	General Education Courses	Credits
Restricted	MAT 161 Introduction to Statistics and	6 or
Elective	MAT 217 Pre-Calculus <u>or</u>	4
	MAT 225 Calculus I	
Restricted	Any Humanities or Social Science	3
Elective	(100 level or higher)	
Fourth Semester	Civil Engineering Course	Credits
CET 202	Construction Surveying	3
CET 212	Structural Design	4
CET 221	3D Civil CADD (or CET 201)	3
•	General Education Courses	Credits
ENG 215	Business and Technical Writing	3
SPE 101	Oral Communication	3
•	TOTAL A.S. DEGREE CREDITS	63-64

Computer Aided Drafting and Design

Credentials:

Associate in Science Degree (60-62 credit hours) Certificate (30 credit hours)

Academic Requirements for Admission:

A.S. Degree: High School level Algebra I, Algebra II, and Geometry required.

Certificate: High School level Algebra I required. Algebra II and Geometry desired.

Program Overview:

Computer Aided Drafting and Design (CADD) is a rapidly emerging technological area that consists of many disciplines, different software, and constant learning cycles. This program provides the student with a background in the fundamentals of drafting along with preparation to develop state-of-the-art skills in CADD technology. The curriculum covers the principles, methods, and techniques of CADD in various disciplines. These disciplines will include: mechanical, architectural, civil, 3D, presentation graphics, and other smaller disciplines. Graduates typically find employment with fabricators, architects, engineering firms, mapping companies, construction companies, service bureaus, and other specialty shops.

Concurrent enrollment agreements with many high schools and technical education centers offer students the opportunity to get a head start on their college careers by taking classes and earning college credit while still in high school. Information can be found at http://www.emcc.edu/academics/transferring-credits/articulationagreements/

Key Learning Objectives:

Graduates with the Associate in Science Degree in Computer Aided Drafting and Design will have a background in the fundamentals of drafting along with state-of-the-art skills in CADD technology. The students will be exposed to all the different major drafting areas. These areas include Architectural, Civil, and Mechanical, Structural, Electrical, Plan Graphics and 3D. Upon graduation students will function at an entry-level position in architectural firms, engineering firms, mapping companies, and construction companies with the following skills:

- Have satisfactory drafting skills using manual and computer assisted means.
- Do board sketching, field sketching, orthographic projection, auxiliary, and sectional views for engineering, construction, and manufacturing processes.
- Will show proficiency in 2D CADD from basic to advanced skills.
- Will show proficiency in Industry leading CAD related software to include, AutoCAD, AutoCAD Architecture, Revit, Inventor, 3DS MAX, and Photoshop.
- Will use 3D techniques and operations using AutoCAD, 3DS MAX, and Revit. This includes wireframes, surfaces, solid models, full 3D design, shading, and photo-realistic imaging.
- Will use Photoshop in conjunction with other learned software to create visual images used in presentations, documents, and web related imagery.
- While working in a simulated office environment students will solve problems individually, will work in a team or group environment and will work with clients.
- Students will produce industry acceptable output in a variety of sizes and mediums. The students' best work will be showcased in a portfolio in an interview-ready state.

	Computer Aided Drafting and Design—A.S. Degree		
First	First Semester Computer Aided Drafting & Design Courses		Credits
	CAD 105	CADD 1	3
	CAD 128	Residential/Commercial Construction	3
		Theory	
	CAD 131	Building Information Modeling I (BIM I)	3
		General Education Courses	
	ENG 101	College Composition	3
	MAT 113	Technical Mathematics I	3
Seco	nd Semester	Computer Aided Drafting & Design Courses	Credits
	CAD 106	CADD II	3
	CAD 132	Solid Modeling I	3
		General Education Courses	Credits
	ENG 215	Business and Technical Writing	3
	MAT 114	Technical Mathematics II	3
	PSY 211	Human Relations	3
Thir	d Semester	Computer Aided Drafting & Design Courses	Credits
	CAD 205	3D Visualization	3
	CAD 232	Solid Modeling II	3
	CAD 242	Building Information Modeling II (BIM II)	3
		General Education Courses	Credits
	PHY 108	Survey of Applied Physics	4
	SPE101	Oral Communication	3
Fou	rth Semester	Computer Aided Drafting & Design Courses	Credits
	CAD 229	Career Experience Lab	4
	CAD 234	Visualization for Architecture, Engineering	3
		and Construction (AEC)	
		General Education Courses	Credits
	Restricted	Any Humanities or Social Science	3
	Elective	(100 level or higher)	
	Restricted	Any Communications, Humanities, Math,	3
	Elective	Science, or Social Science (100 level or	
		higher)	
	Restricted	Free Elective	1-3
	Elective		
			60-62

Computer Aided Drafting and Design—Certificate		
First Semester	Computer Aided Drafting & Design Courses	Credits
CAD 105	CADD 1	3
CAD 128	Residential/Commercial Construction	3
	Theory	
CAD 131	Building Information Modeling I (BIM I)	3
	General Education Courses	
ENG 101	College Composition	3
MAT 113	Technical Mathematics I	3
Second Semester	Computer Aided Drafting & Design Courses	Credits
CAD 106	CADD II	3
CAD 132	Solid Modeling I	3
	General Education Courses	Credits
ENG 215	Business and Technical Writing	3
MAT 114	Technical Mathematics II	3
PSY 211	Human Relations	3
	TOTAL CERTIFICATE CREDITS	30

Computer Systems Technology

Credential:

Associate in Applied Science Degree (62 credit hours)

Academic Requirements for Admission:

High School level Algebra I required. Algebra II desired.

Program Overview:

Computer Systems Technology is a two-year Associate in Applied Science Degree program designed to educate the student in the areas of personal computer hardware and software; data communications; and computer network hardware, software, and management. Students receive a solid foundation in the functional components and operating systems of modern computers, and gain experience in configuring, maintaining and upgrading a variety of systems.

Communications between computers has become important in today's world and the curriculum presents the fundamental concepts necessary to understand these systems. Laboratory work with peer-to-peer and client/server networks, local- and wide-area networks (LANs and WANs), and midrange/mainframe multi-user systems allows the student to apply knowledge gained in the classroom.

Graduates are prepared to assume a variety of positions such as: computer systems technician, computer technician, computer maintenance technician, computer network installer, computer network technician, network administrator, telecommunications technician, and help desk service provider.

The technical program is supplemented by courses designed to assist the networking technician in advancing his or her career. Courses are provided in mathematics, physics, written and oral communications, and the humanities.

EMCC has developed articulation agreements with several colleges/universities to provide seamless transfer opportunities for students moving on to earn a Bachelor's Degree. Our formalized be found agreements can on http://www.emcc.edu/academics/transferring-credits/articulationagreements/

In addition, concurrent enrollment agreements with many high schools and technical education centers offer students the opportunity to get a head start on their college careers by taking classes and earning college credit while still in high school. Information can be found on http://www.emcc.edu/ academics/concurrent-enrollment/.

Key Learning Objectives:

Graduates with the Associate in Applied Science Degree in the Computer Systems Technology program should be able to:

- Install, configure, troubleshoot, maintain, and upgrade personal computer systems hardware and software.
- Effectively design and manage networks and efficiently operate them.
- Use effective troubleshooting strategies and techniques in correcting a variety of computer system hardware and software problems.
- Install, configure, navigate, and manage modern client and server network operating systems.
- Define and describe the physical factors that affect data communications media.
- Select the most feasible alternative voice and data communications technologies for specific business applications from the various technologies available.
- Interact appropriately with customers, co-workers and the public in a service oriented-industry.
- Develop and deliver training for system users.

Computer Systems Technology—A.A.S. Degree First Semester **Computer Systems Technology Courses Credits** Introduction to College Learning or CST 101 1 **FYE 100 College Success Introduction to Computer Systems** 3 **CST 103** 3 **CST 123** PC Hardware and Operating Systems **CST 143** Web Applications and Development 3 **General Education Courses Credits ENG 101 College Composition** 3 3 MAT 119 College Algebra **Second Semester Computer Systems Technology Courses** Credits **CST 124** An Introduction to Linux 3 4 CST 162 Network+ Certification 4 **CST 163 Computer Applications General Education Courses** Credits **MAT 120** College Trigonometry 3 3 **SPE 101 Oral Communication Third Semester Computer Systems Technology Courses** Credits 3 **CST 203** Systems Analysis and Design **CST 205** 3 **Network Architecture** 3 **CST 232 Server Operating Systems General Education Courses Credits** Any Humanities or Social Science Restricted 3 Elective (100 level or higher) **PSY 211 Human Relations** 3 **Fourth Semester Computer Systems Technology Courses Credits Network Security CST 221** 3 3 **CST 226** Wireless Networking **CST 246 Virtualized Computer Systems** 3 **CST 248** Capstone 1 **General Education Courses Credits PHY108** Survey of Applied Physics **TOTAL A.A.S. DEGREE CREDITS** 62

Computer Systems Technology – Computer Repair Technology

Credential:

Certificate (31 credit hours)

Academic Requirements for Admission:

High School level Algebra I required. Algebra II desired.

Program Overview:

The Certificate program in Computer Repair Technology (CRT) prepares the successful student for an entry-level position in the field of computer repair. Students are provided with a solid foundation in personal computer hardware, operating systems, and data communications through theory classes and hands-on experiences in the laboratory.

Graduates find work in a variety of organizations that are in need of maintenance and repair of computers. This includes positions such computer systems technician, computer technician, and computer maintenance technician.

Mathematics and communications courses provide students the power to relate their understanding of computer systems to other professionals and to computer owners in need of repair services.

The Computer Repair Certificate may be used as a pathway for students who may later want to enter an Associate in Applied Science Degree program in Computer Systems Technology.

Computer Repair Technology—Certificate		
First Semester	First Semester Computer Systems Technology Courses	
CST 101	Introduction to College Learning <u>or</u>	1
	FYE 100 College Success	
CST 103	Introduction to Computer Systems	3
CST 123	PC Hardware and Operating Systems	3
CST 143	Web Applications and Development	3
·	General Education Courses	Credits
ENG 101	College Composition	3
Restricted	MAT 113 Technical Mathematics I or	3
Elective	MAT 119 College Algebra	
Second Semester	Computer Systems Technology Courses	Credits
CST 124	An Introduction to Linux	3
CST 162	Network+ Certification	4
CST 163	Computer Applications	4
	General Education Courses	Credits
Restricted	MAT 114 Technical Mathematics II <u>or</u>	3
Elective	MAT 120 College Trigonometry	
Restricted	ENG 215 Business and Technical Writing or	3
Elective	PSY 211 Human Relations <u>or</u>	
	SPE 101 Oral Communication	
TOTAL CERTIFICATE CREDITS		

Computer Systems Technology – Healthcare IT Certificate

Credential:

Certificate (31 credit hours)

Academic Requirements for Admission:

High School level Algebra I required. Algebra II desired.

Program Overview:

The Healthcare Information Technology program is a certificate program that prepares the successful student for an entry-level position in the healthcare field dealing with computers and computer networks. Students are provided with a solid foundation in personal computer hardware, software, networks, information and data security, and healthcare regulations through theory classes and hands-on experiences in the laboratory.

Graduates with appropriate certifications can find work in a variety of healthcare organizations such as hospitals and group physician practices that are in need of installation, maintenance and repair of computers and computer networks.

Mathematics and communications courses give students the power to relate their understanding of information technology systems to other professionals in the healthcare industry.

The Healthcare Information Technology Certificate may be used as a pathway for students who may later want to enter an Associate in Applied Science degree program in Computer Systems Technology.

Healthcare IT—Certificate		
First Semester	Healthcare IT Courses	Credits
CST 161	A+ Certification for Healthcare IT	4
CST 163	Computer Applications for IT	4
	General Education Courses	
ENG 101	College Composition	3
Restricted	MAT113 Technical Mathematics I <u>or</u>	3
Elective	MAT119 College Algebra	
PSY 211	Human Relations	3
Second Semester	Healthcare IT Courses	Credits
CST 162	Net+ Certification	4
CST 164	Healthcare IT Certification	4
General Education Courses		Credits
SPE 101	Oral Communications	3
ENG 215	Business and Technical Writing	3
	TOTAL CERTIFICATE CREDITS	31

The Healthcare IT Certificate is offered in a part-time evening format.

*MAT 119 is recommended for those students who anticipate pursuing an Associate Degree in Computer Systems Technology. All 31 credits could then transfer to the degree program.

Criminal Justice

Credential:

Associate in Applied Science Degree (60-61 credit hours)

Academic Requirements for Admission:

High School level Algebra I required.

Program Overview:

The Criminal Justice (CRJ) program is designed to provide a solid foundational understanding of the American justice system. Students are required to complete a range of major courses that blend academic learning with a highly emphasized experiential focus. Under the instruction of a diverse faculty of practicing professionals, hands-on learning exercises are utilized to translate conceptual awareness into real world application of knowledge. Individual and team-based class-room learning is also augmented by internship opportunities in area agencies and offices. The program is designed to meet the needs of both traditional and non-traditional students who seek to gain the education necessary to penetrate or advance within any number of justice professions.

Graduates of the CRJ program will be well-positioned to:

- Complete a Bachelor's degree in Criminal Justice at a four year college or university
- Apply to the Maine Criminal Justice Academy (MCJA) Law Enforcement Pre-Service Training Program OR Basic Law **Enforcement Training Program**
- Seek entry-level employment in private security, law enforcement, corrections, and the courts

Key Learning Objectives:

Graduates of the Criminal Justice program will be prepared to:

- Apply conceptual knowledge to analyze and respond to current events in criminal justice.
- Evaluate statistics that are relevant to practitioners in the justice professions.

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- Use current information management tools to gather, manage, and interpret data.
- Employ ethically driven critical analysis skills in decision-making.
- Manage the demands of developing an employment-ready, professional identity
- Interact effectively with individuals from various economic, sociocultural, and racial backgrounds.

Examples of career opportunities include but are not limited to:

Municipal Police Officer

County Sheriff's Deputy

State Trooper

Game Warden

Corrections Officer

Victim-Witness Advocate

Marine Patrol Officer

Problem Officer

Loss Prevention Worker

Fire Marshal

Dispatcher

Fraud Investigator

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Criminal Justice—A.A.S. Degree		
First Semester	Criminal Justice Course	Credits
CRJ 101	Introduction to Criminal Justice	3
<u>.</u>	General Education Courses	Credits
BCA 115	Introduction to Computer Applications	3
ENG 101	College Composition	3
MAT 119	College Algebra	3
SOC 101	Introduction to Sociology	3
Second Semester	Criminal Justice Courses	Credits
CRJ 113	Criminology	3
CRJ 121	Criminal Law	3
CRJ 131	Police Operations	3
	General Education Courses	Credits
ENG 215	Business and Technical Writing	3
PSY 101	Introduction to Psychology	3
Third Semester	Criminal Justice Courses	Credits
CRJ 205	Criminal Investigations	3
CRJ 232	Report Writing and Testifying	3
CRJ 242	Criminal Procedure	3
	General Education Courses	Credits
PSY 235	Abnormal Psychology	3
SPE 101	Oral Communication	3
Fourth Semester	Criminal Justice Course	Credits
CRJ 201	Ethics for the CJ Practitioner	3
CRJ 221	American Corrections	3
CRJ 226	Criminalistics	3
Restricted	Any Criminal Justice (200 level or higher)	3
Elective		
	General Education Courses	Credits
Restricted	CHE 103 Chemistry for Emergency	3-4
Elective+	Responders <u>or</u> BIO 121 A&P I <u>and</u>	
	BIO 124 A&P I Lab	
	TOTAL A.A.S. DEGREE CREDITS	60-61

Culinary Arts

Credentials:

Associate in Applied Science Degree (62-63 credit hours)

Academic Requirements for Admission:

High School level Algebra I, Algebra II and a lab science required.

Program Overview:

Culinary Arts provides students with a background which is complete and versatile. Graduates are hired as chefs, kitchen managers, catering directors, and restaurant managers.

EMCC has developed articulation agreements with several colleges/universities to provide seamless transfer opportunities for student's moving on to earn a Bachelor's Degree. Our formalized agreements can be found on http://www.emcc.edu/academics/transferring-credits/articulation-agreements/

In addition, concurrent enrollment agreements with many high schools and technical education centers offer students the opportunity to get a head start on their college careers by taking classes and earning college credit while still in high school. Information can be found on http://www.emcc.edu/academics/concurrent-enrollment/.

Key Learning Objectives:

Graduates with the Associate in Applied Science Degree in Culinary Arts will be able to perform at both entry-level and mid-level positions in the areas of basic professional cooking and baking, as well as front of the house and supervisory responsibilities within the following areas:

- Line cooking including sauté, broiler/grill, fry and expedition work.
- Pre-preparation and preparation work in the categories of Garde Manger and Hot Foods; Saucier, Entremetier, and Tournant.
- Menu planning and execution.

- Food costing, purchasing and distribution.
- Reservation systems and all phases of dining room position execution.
- Preparation of glutinous products, simple desserts and advanced dessert selections.
- Sanitation.
- Basic nutrition and modified diet menu items.

Graduates have the opportunity to attain nationally recognized certification in ServSafe Sanitation under the auspices of the National Restaurant Association Educational Foundation and Food and Beverage Management through the American Hotel & Lodging Educational Institute.

Culinary Arts—A.A.S. Degree **Culinary Arts Courses** First Semester Credits **CUL 112 Culinary Skills Development** 3 6 **CUL 124** Culinary Arts I **Culinary Sanitation and Theory** 3 **CUL 131 General Education Courses** Credits **ENG 101** College Composition **Second Semester Culinary Arts Courses** Credits **CUL 125** Culinary Arts II 6 Food Service Management 3 **CUL 141 Credits General Education Courses** Any Math or Science (100 level or higher) Restricted 3-4 Elective 3 SPF 101 **Oral Communication** Summer 3 **CUL 215** Culinary Externship **Third Semester Culinary Arts Courses** Credits Classical European Pastry Arts **CUL 218** 3 5 **CUL 262** Classical French Cuisine **General Education Courses** Credits **ENG 215** 3 **Business and Technical Writing** 3 Restricted Any Humanities or Social Science Elective (100 level or higher) 3 CUL230 Regional Italian Cuisine permission (by permission only) – not required **Fourth Semester Culinary Arts Courses** Credits **CUL 214 Advanced Culinary Skills** 3 5 **CUL 264 International Cuisine General Education Courses** Credits **NUT 221** Nutrition 4 Restricted Any Humanities or Social Science 3 Elective (100 level or higher) HIS 106 - Food in **History Recommended TOTAL A.A.S. DEGREE CREDITS** 62-63

Culinary Arts - Food Service Specialist Certificate

Credential:

Certificate (30-31 hours)

Academic Requirements for Admission:

High School level Algebra I required.

Program Overview:

The Food Service Specialist Certificate program is designed to meet the educational needs of students who wish to pursue entry to midlevel kitchen positions in food service operations such as restaurants or institutions. Students may seamlessly continue in an Associate Degree program in either Culinary Arts or Restaurant and Food Service Management after having earned their Food Service Specialist Certificate.

Key Learning Objectives:

Graduates with a Food Service Specialist Certificate will be able to perform at entry to midlevel positions in many areas of a commercial kitchen. A Classical French foundation will guide graduates through their practical hands-on kitchen training which includes American Regional Cuisine.

Specific program objectives include:

- Pre-Preparation and Preparation of Hot Food Items.
- Preparation of Breads, Rolls, & Basic Desserts.
- Training in basic Garde Manger to include Salads, Dressing, and other Cold Foods.
- Exposure to Soup, Stock, & Sauce Preparation.
- Theoretical and Practical training in Sanitation & Kitchen Management.

Graduates will have the opportunity to become certified in the areas of ServSafe Sanitation through the Educational Foundation of the National Restaurant Association and Food and Beverage Management through the Educational Institute of the American Hotel and Lodging Association Educational Institute.

Culinary Arts – Food Service Specialist—Certificate First Semester **Culinary Arts Courses** Credits **CUL 112 Culinary Skills Development** 3 6 **CUL 124** Culinary Arts I **Culinary Sanitation and Theory** 3 **CUL 131 General Education Courses** Credits **ENG 101** College Composition **Second Semester Culinary Arts Courses** Credits **CUL 125** Culinary Arts II 6 3 **CUL 141** Food Service Management **Credits General Education Courses** Any Math or Science (100 level or higher) Restricted 3-4 Elective **SPE 101 Oral Communication** 3 **TOTAL CERTIFICATE CREDITS** 30-31

Diesel, Truck and Heavy Equipment Technology

Credentials:

Associate in Applied Science Degree (65 credit hours)

Academic Requirements for Admission:

High School level Algebra I required. Algebra II, Geometry, Physics or Chemistry with Lab desired.

Program Overview:

The Diesel, Truck and Heavy Equipment Technology program provides theoretical foundations, practical education, and work experience in the engineering, testing, servicing, troubleshooting and repairing of trucks, diesel engines and heavy equipment. The curriculum is designed to ensure that course content is pertinent to the needs of industry. Recent graduates are employed as heavy equipment service technicians, sales personnel, service managers, maintenance supervisors, service writers, warranty claims adjusters, and parts persons.

Concurrent enrollment agreements with many high schools and technical education centers offer students the opportunity to get a head start on their college careers by taking classes and earning college credit while still in high school. Information can be found on http://www.emcc.edu/academics/concurrent-enrollment/

Key Learning Objectives:

Graduates with the Associate in Applied Science Degree in Diesel, Truck and Heavy Equipment will function at an entry-level position for servicing, diagnosing, repairing and creating work orders in the following areas:

- Truck hydraulic and air braking systems as they pertain to heavyduty trucks and heavy equipment
- Standard/automatic transmissions and final drives
- Diesel and heavy-duty gas engines
- Electronic and mechanical fuel injection systems
- Suspension systems
- Electrical and electronic systems

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- Hydraulic systems
- Air conditioning systems

Graduates will demonstrate proper public relations and customer service techniques for a fleet or dealer service facility. Graduates will demonstrate understanding and application of legal requirements including those of OSHA, EPA, and State of Maine regulations regarding the handling and disposal of hazardous materials and related safety issues.

The Diesel, Truck and Heavy Equipment program curriculum follows industry standards, which helps students to prepare for the ASE and other technician certifications test.

Students are tested with standard written tests as well as hands-on testing that coincide with the assigned textbook, industry standards in each area. Students must pass within the C range or better to pass the module.

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Equipment/Truck I ATT 133 Basic Electrical Systems 3 ATT 135 Advanced Electrical Systems 2 ATH 163 Heavy Equipment/Truck Steering and Suspension Systems 3 ATH 113 Heavy Equipment/Truck Braking Systems 3 General Education Courses Credits ENG 101 College Composition 3 MAT 113 Technical Mathematics I 3 Second Semester Diesel, Truck and Heavy Equipment Courses Credits ATH 121 Heavy Equipment/Truck Drive Trains 4 ATH 175 Motor Vehicle Inspection 2 ATH 103 Minor Repairs: Heavy Equipment/Truck 2 ATT 251 Automotive Basic Machine Shop Principles 2 General Education Courses Credits Restricted Any Humanities or Social Science (100 level or higher) MAT 114 Technical Mathematics II 3 Third Semester Diesel, Truck and Heavy Equipment Courses Credits ATH 133 Diesel Engine Diagnosis and Tune-up (Heavy, Gas) ATH 131 Diesel Fuel Systems 3 ATH 131 Diesel Engines (Heavy, Gas) 4 General Education Courses Credits ENG 215 Business and Technical Writing 3 CHE 100 Chemistry for Everyday Living or APHY 108 Survey of Applied Physics Fourth Semester Diesel, Truck and Heavy Equipment Courses Credits ATH 151 Hydraulic Systems 3 ATT 141 Heating and Air Conditioning 3 ATH 171 Troubleshooting Techniques 2 ATH 211 Shop Management: Heavy Equipment/Truck 2	Diesel, Truck and Heavy Equipment—A.A.S. Degree		
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	SPE 101	Oral Communication	3
TOTAL A.A.S. DEGREE CREDITS 65	<u> </u>		65

Heavy Truck and Equipment Systems

Credential:

Certificate (31 credit hours)

Academic Requirements for Admission:

High School level Algebra I required.

Program Overview:

The Diesel, Truck and Heavy Equipment Technology program provides theoretical foundations, practical education, and work experience in the engineering, testing, servicing, troubleshooting and repairing of trucks, diesel engines and heavy equipment. The curriculum is designed to insure that course content is pertinent to the needs of industry. Recent graduates are employed as heavy equipment service technicians, sales personnel, service managers, maintenance supervisors, service writers, warranty claims adjusters, and parts persons.

Heavy Truck and Equipment—Certificate		
First Semester	Diesel, Truck and Heavy Equipment Courses	Credits
ATH 101	Shop Orientation and Safety I: Heavy	1
	Equipment/Truck I	
ATH 133	Basic Electrical Systems	3
ATT 135	Advanced Electrical Systems	2
ATH 163	Heavy Equipment/Truck Steering and	3
	Suspension Systems	
ATH 113	Heavy Equipment/Truck Braking Systems	2
	General Education Courses	Credits
ENG 101	College Composition	3
MAT 113	Technical Mathematics I	3
Second Semester	Diesel, Truck and Heavy Equipment Courses	Credits
ATH 121	Heavy Equipment/Truck Drive Trains	4
ATH 175	Motor Vehicle Inspection	2
ATH 103	Minor Repairs: Heavy Equipment/Truck	2
ATT 251	Automotive Basic Machine Shop Principles	2
	General Education Courses	Credits
Restricted	Any Humanities or Social Science	3
Elective	(100 level or higher)	
	TOTAL CERTIFICATE CREDIT HOURS	30

Digital Graphic Design

Credentials:

Associate in Applied Science Degree (61-63 credit hours) Certificate (30 credit hours)

Academic Requirements for Admission:

A.A.S. Degree: High School level Algebra I required.

Certificate: Algebra I required

Program Overview:

The Digital Graphic Design Program provides theoretical foundations, practical education, and work experience in Commercial Art. Using current digital technologies and software, students study type, design principles, page layout, photography, image editing, digital illustration, web design and printing/publishing. Graduates of the DGD Program work in marketing, publicity, photography, printing and web design companies.

Key Learning Objectives:

Graduates with the Associate in Applied Science Degree in Digital Graphic Design will:

- Use specific cognitive skills acquired through creative, artistic and logical means.
- Envision a project from beginning to end utilizing knowledge obtained in a highly creative, original, intuitive, and perceptive environment.
- Be able to solve complex visual design problems, make judgments and decisions, and think logically and critically.
- Apply skills in time management and organization while working on multiple projects simultaneously with strict deadlines.
- Have technical proficiency, business skills, production processes, and the knowledge to apply these aspects to careers in Digital Graphic Design or related graphic arts fields.

Digital Graphic Design—A.A.S. Degree		
First Semester	Digital Graphic Design Courses	Credits
ART 112	2-D Design	3
DGD 101	Introduction to Digital Photography	3
DGD 120	Digital Illustration	3
	General Education Courses	
ENG 101	College Composition	3
Restricted	Any Math (100 level or higher)	3
Elective +		
Second Semester	Digital Graphic Design Courses	Credits
DGD 113	Introduction to Photoshop	3
DGD 131	Introduction to Page Layout & Design	3
	General Education Courses	Credits
BUA 111	Accounting I	3
HUM 103	Intro to Art and Design in the 20 th Century	3
SPE 101	Oral Communication	3
Third Semester	Digital Graphic Design Courses	Credits
ART 132	Commercial Photography	3
DGD 201	Graphic Web Design	3
DGD 221	Introduction to Typography	3
	General Education Courses	Credits
Restricted	Any Math or Science (100 level or higher)	3-4
Elective		
Restricted	Any Humanities or Social Science	3
Elective	(100 level or higher)	
Fourth Semester	Digital Graphic Design Courses	Credits
DGD 230	Professional Business Practices	4
DGD 231	Printing and Publishing	3
DGD 232	Advanced Digital Graphics	3
	General Education Courses	Credits
Restricted	Any Math or Science (100 level or higher)	3-4
Elective		
Free Elective	Any 100 level or higher	3
	TOTAL A.A.S. DEGREE CREDIT	61-63

	Digital Graphic Design—Certificate		
First	Semester	Digital Graphic Design Courses	Credits
	ART 112	2-D Design	3
	DGD 101	Introduction to Digital Photography	3
	DGD 120	Digital Illustration	3
		General Education Courses	
	ENG 101	College Composition	3
	Restricted	Any Math (100 level or higher)	3
	Elective		
Seco	ond Semester	Digital Graphic Design Courses	Credits
	DGD 113	Introduction to Photoshop	3
	DGD 131	Introduction to Page Layout & Design	3
		General Education Courses	Credits
	BUA 111	Accounting I	3
	HUM 103	Intro to Art and Design in the 20 th Century	3
	SPE 101	Oral Communication	3
		TOTAL CERTIFICATE CREDITS	30

<u>The Digital Graphic Design Certificate is also offered in a part-time evening format.</u>

Early Childhood Education

Credentials:

Associate in Applied Science Degree (62-63 credit hours) Certificate (34 credit hours)

Academic Requirements for Admission:

High School level Algebra I required.

Program Overview:

Early Childhood Education prepares individuals for rewarding careers as skilled early childhood professionals. The Associate in Applied Science Degree offers the theoretical foundation and practical learning experiences for success in a wide variety of occupations working with young children from birth through age eight, including those children with special developmental and learning needs. Students may choose to use this degree as a pathway to earn a Bachelor's Degree in a PreK-3 teaching certification program.

The Early Childhood Certificate program prepares individuals for entry-level positions at institutions and agencies serving young children and for in-service personnel who want to upgrade their skills.

EMCC has developed articulation agreements with several colleges/universities to provide seamless transfer opportunities for students moving on to earn a Bachelor's Degree and teaching certification. Our formalized agreements can be found on http://www.emcc.edu/academics/transferring-credits/articulation-agreements/.

In addition, concurrent enrollment agreements with many high schools and technical education centers offer students the opportunity to get a head start on their college careers by taking classes and earning college credit while still in high school. Information can be found on http://www.emcc.edu/academics/concurrent-enrollment/.

Key Learning Objectives:

Graduates with the Associate in Applied Science Degree in Early Childhood Education will:

- Understand current theories of child development and consider the cognitive, language, social/emotional and physical domains of development when interacting with young children.
- Know about, understand and value the diversity of children and their families and use this understanding to develop respectful and supportive relationships with families.
- Use best practices to communicate effectively and involve families and communities in their children's development and learning.
- Use observation, documentation and developmentally appropriate assessment tools to track progress, plan curriculum and communicate with families and other professionals.
- Apply principles of child development and positive guidance to plan and implement developmentally appropriate experiences and environments for young children.
- Know the essential concepts, inquiry tools and structure of the content areas of early childhood curriculum and use resources to deepen understanding.
- Use knowledge, resources and a variety of instructional strategies to plan, implement and evaluate meaningful and challenging curriculum that promotes positive learning outcomes for all young children.
- Reflect on their practices, uphold ethical standards, maintain relationships with colleagues and seek out opportunities for continuous professional growth.

Students who hold a current Child Development Associate credential or have submitted an acceptable portfolio to the College will receive up to nine (9) college credits in the Early Childhood Education program. A copy of the current CDA certificate must be presented for evaluation.

Early Childhood Education—A.A.S. Degree		
First Semester	Early Childhood Education Courses	Credits
ECE 110	Child and Adolescent Development	3
ECE 116	Children's Literature	3
	General Education Courses	Credits
ENG 101	College Composition)	3
Elective #	General Education Course	3
Elective #	General Education Course	3
Second Semester	Early Childhood Education Courses	Credits
ECE 117	Observing and Recording in the field	3
ECE 127	Cognitive and Affective Development	3
ECE 131	Infant and Toddler Curriculum	3
	General Education Courses	Credits
Elective #	General Education Course	3
Elective #	General Education Course	3
Third Semester	Early Childhood Education Courses	Credits
ECE 216	Survey of Exceptionalities	3
ECE 220	Numeracy, Environments and Integrated	3
	Curriculum for Young Children	
ECE 232	Field Placement II	4
	General Education Courses	Credits
Elective #	General Education Course	3
Elective #	General Education Course	4
Fourth Semester	Early Education Course	Credits
ECE 221	STEM Curriculum for Young Children	3
ECE 233	Field Placement III	6
Education	Any EDB of ECE course not taken as a	3
Elective	requirement	
	General Education Courses	Credits
Elective #	General Education Course	3-4
	TOTAL A.A.S. DEGREE CREDITS	62-63

- **# General Education Selections** which are not dictated must be in this distribution and must be 100-level or higher
 - 3 Credits Communications
 - 9 Credits Humanities or Social Sciences
 - 10 Credits— Math or Science (Minimum of one MAT course and one lab science)

All students who wish to make use of transfer agreements may be more restricted.

Early Childhood Education - Certificate		
First Semester	Early Childhood Education Courses	Credits
ECE 110	Child and Adolescent Development	3
ECE 116	Early Literacy Development	3
	General Education Courses	Credits
ENG 101	College Composition	3
Elective #	General Education Course	3
Second Semester	Early Childhood Education Courses	Credits
ECE 117	Observing and Recording in the Field	3
ECE 127	Cognitive and Affective Development	3
ECE 131	Infant and Toddler Curriculum	3
Third Semester	Early Childhood Education Courses	Credits
ECE 216	Survey of Exceptionalities	3
ECE 220	Numeracy, Environments and Integrated	3
	Curriculum for Young Children	
ECE 232	Field Placement II	4
	General Education Courses	Credits
Elective #	General Education Course	3
_	TOTAL CERTIFICATE CREDITS	34

[#] General Education Selections which are not dictated must be in this distribution and must be 100-level or higher

³ Credits - Humanities or Social Sciences

³ Credits - Math

Education

Credentials:

Associate in Applied Science Degree (61-62 credit hours)
Associate in Applied Science Degree - Career & Technical Education
Option (61 credits)

Academic Requirement for Admission:

High School level Algebra I required.

Program Overview:

Education prepares students for rewarding careers in K-8 schools and social service agencies to perform important and supporting roles. This program offers the theoretical foundation and practical learning experiences for success in a wide variety of occupations working with children and adolescents in classrooms and other settings.

Graduates of this program will learn specific teaching methods, behavior management strategies and will apply knowledge of child and adolescent development in their work. Graduates of the program may use this degree as a pathway to continue their education to become a certified K-8 teacher.

This program is appropriate for individuals who wish to gain recertification credits for a current teaching certificate or who wish to upgrade skills in working with all students within their classrooms.

EMCC has developed articulation agreements with several colleges/universities to provide seamless transfer opportunities for student's moving on to earn a Bachelor's Degree. Our formalized agreements can be found on http://www.emcc.edu/academics/transferring-credits/articulation-agreements/

Key Learning Objectives:

Graduates with the Associate in Applied Science Degree in Education will:

 Understand how students learn and develop, and plan learning opportunities that support a student's physical, cognitive and social/emotional development.

- Use a variety of instructional strategies to meet the diverse learning needs of students and to encourage critical thinking and problem solving.
- Understand the principles of extrinsic and intrinsic motivation and use specific management strategies to create a learning environment that fosters positive social interaction and engagement in meaningful learning experiences.
- Recognize that students differ in their approaches to learning and create learning opportunities that are modified and adapted to diverse learners.
- Plan lessons and activities that are based on knowledge of the subject matter, knowledge of the individual students and knowledge of the State and/or National standards.
- Use appropriate formal and informal assessment strategies to inform curricula decisions, adjust instruction and evaluate learning outcomes that are matched to the physical, cognitive and social/emotional needs of individual students.
- Reflect on their practices to continually evaluate the effects of planning and decisions made and to seek opportunities to grow professionally.
- Use ethical behavior when interacting with students, school colleagues, families and agencies in the community to support students' learning and well-being.

Education—A.A.S. Degree **First Semester Education Courses** Credits Child and Adolescent Development ECE 110 3 3 ECE 116 Early Literacy Development Introduction to Education-Schools, Students 3 EDB 202 and Society **General Education Courses ENG 101** College Composition 3 3 **General Education Course** Elective # Second Semester **Education Courses** Credits **ECE 117** Observing and Recording in the Field 3 3 **EDB 221 Educational Psychology General Education Courses** Credits Elective # **General Education Course** 3 3 Elective # **General Education Course** 3-4 Flective # **General Education Course Third Semester Education Courses** Credits **ECE 216** Survey of Exceptionalities 3 The Teaching Process 3 EDB 204 Field Experiences II EDB 232 4 **General Education Courses** Credits Elective # **General Education Course** 3 Elective # 4 **General Education Course Fourth Semester Education Courses** Credits EDB 115 Development and Guidance of Behavior 3 5 **EDB 233** Field Experience III 3 Any Education (EDB) or Early Childhood Restricted Elective+ Education (ECE) Course **General Education Courses Credits** Elective # **General Education Course TOTAL A.A.S. DEGREE CREDITS** 61-62

- **# General Education Selections** which are not dictated must be in this distribution and must be 100-level or higher
 - 3 Credits Communications
 - 9 Credits Humanities or Social Sciences
 - 10 Credits— Math or Science (Minimum of one MAT course and one lab science)

All students who wish to make use of transfer agreements may be more restricted.

Education – Career and Technical Education Option

Credentials:

Associate in Applied Science Degree (61 credits)

Academic Requirement for Admission:

High School level Algebra I required.

Program Overview:

The Education program with an option in Career and Technical Education (CTE) is designed for current and future educators who teach in Career and Education Centers and Community Colleges. The program offers practical learning experiences to help the instructor adapt to teaching their technical trade to high school and college students. Graduates of this concentration will learn specific teaching methods and strategies to enhance student success. Classroom and lab management, safety, assessment and behavior management will be included in the curriculum. Graduates may use this degree as a pathway to continue their education in CTE Teaching at the bachelor's and master's level.

EMCC has developed articulation agreements with several colleges/universities to provide seamless transfer opportunities for student's moving on to earn a Bachelor's Degree. Our formalized agreements can be found on http://www.emcc.edu/academics/transferring-credits/articulation-agreements/.

Key Learning Objectives:

Graduates of the CTE Option will:

- Understand the mission, history and emerging trends for Career and Technical Education.
- Understand how students learn and develop and plan learning opportunities that support a student's development in all domains.
- Use a variety of instructional strategies to meet the diverse learning needs of all students and to encourage critical thinking and problem solving.

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- Recognize that students differ in their approaches to learning and create learning opportunities that are modified and adapted to diverse learners.
- Plan lessons and activities that are based on knowledge of the subject matter, knowledge of the individual students and knowledge of industry standards.
- Use appropriate formal and informal assessment strategies to inform curricula decisions, adjust instructions and evaluate learning outcomes.
- Reflect on their practices to continually evaluate the effects of planning and decision making and to seek opportunities to grow professionally.
- Use ethical behavior when interacting with students, families, colleagues and community to support student's learning and well-being.

Education – A.A.S. Degree		
Concentra	tion in Career & Technical Education	
Summer Semester	Education Courses	Credits
EDB 101	Introduction to Career/Tech Education	3
Fall Semester	Education Courses	Credits
ECE 216	Survey of Exceptionalities	3
EDB 202	Introduction to Education	3
	General Education Courses	Credits
ENG 101	College Composition	3
Elective	Any Math (100 level or higher)	3
Spring Semester	Education Courses	Credits
EDB 212	Assessment & Evaluation in CTE Programs	3
EDB 232	Field Experiences II	4
	General Education Courses	Credits
Elective	Any Communications (100 level or higher)	3
Elective	Any Science (100 level or higher)	4
Summer Semester	Education Courses	
EDB 112	Classroom Management and Shop Safety	3
	for CTE Instructors	
Fall Semester	Education Courses	Credits
EDB 115	Development and Guidance of Behavior	3
EDB 117	Working with Students in Language &	3
	Literacy	
	General Education Courses	Credits
Elective	Any Math/Science (100 level or higher)	3
Electives	Any Humanities/Social Science (100 level	9
	or higher	
Spring Semester	Education Courses	
EDB 204	The Teaching Process	3
EDB 213	Working with Students with Autism	3
EDB 233	Field Experience III	5
TOTAL A.A.S. DEGREE CREDITS 61		

[#] General Education Selections which are not dictated must be in this distribution and must be 100-level or higher

³ Credits – Communications

⁹ Credits - Humanities or Social Sciences

¹⁰ Credits— Math or Science (Minimum of one MAT course and one lab science)

Electrical and Automation Technology

Credential:

Associate in Applied Science Degree (64-66 credit hours)

Academic Requirements for Admission:

<u>A.A.S. Degree</u>: High School level Algebra I, Algebra II, Geometry, Physics or Chemistry with Lab required. Must be familiar with Microsoft Office, e-mail, and the internet.

Program Overview:

Electrical and Automation Technology prepares students for exciting and well-paying career paths in the field of industrial control and automation. All manufacturing processes rely on electricity, electronics, sensors, communications, networks, motors, hydraulics and pneumatics, and computer control. The program provides sound theory reinforced by laboratory applications which reflect the expectations and responsibilities of graduates in the workplace.

Students receive a solid foundation in DC/AC theory, electrical machines and transformers, power distribution, basic wiring techniques, motor controls, programmable automation controllers, industrial electronics, digital electronics, data communications, hydraulics and pneumatics. Graduates are eligible to sit for the State of Maine Journeyman Electrician Exam. After having passed it, as well as having met the on-the-job experience requirements of the State Electrician Examining Board, they will receive their Journeyman Electrician license. Graduates assume employment in positions including industrial electrical and instrument technician, maintenance technician, engineering assistant, construction electrician, field representative, and many others.

The Electrical and Automation Technology program is an active partner with the Federal Aviation Administration (FAA) Collegiate Training Initiative (CTI) providing an internship and allowing graduates to apply directly to the FAA as a technician or specialist. EMCC is also a Certified Training and Education Site for FANUC Robotics Material Handling Program Software.

In addition, concurrent enrollment agreements with many high schools and technical education centers offer students the opportunity to get a head start on their college careers by taking classes and earning college credit while still in high school. Information can be found on http://www.emcc.edu/academics/concurrent-enrollment/.

Key Learning Objectives:

Graduates with the Associate in Applied Science Degree will function at an entry-level position in the field of industrial control and automation with the following skills:

- Be capable of installing, troubleshooting, and maintaining electrical power and control systems.
- Be able to interpret a wide range of electrical drawings including: construction blueprints, electrical and electronic schematics, ladder diagrams, connection diagrams, one line diagrams, loop sheets, P&IDs, and others.
- Be capable of installing, troubleshooting, and maintaining fluid power systems.
- Be capable of programming, installing, and maintaining fluid power systems.
- Demonstrate a working knowledge of the National Electrical Code and how it affects electrical installations.
- Demonstrate hand-on working knowledge of the following areas:
 AC/DC circuits, transformers, power distribution, motors, generators, motor controls, electronic components, and circuits.
- Be proficient with electrical test instrumentation: millimeter, oscilloscope, megger, phase sequence meter, motor rotation, tester and others.
- Be competent with many PC applications: AutoCAD, Easy Power, Automation Studio, MultiSim, Microsoft Office, AB RSLogix, GE Cimplicity, FANUC Handling Tool, and others.
- Be well versed in the practice of electrical and industrial workplace safety procedures.
- Problem solve as an individual as well as part of a team.
- Effectively communicate in speech and the written word.

TOTAL A.A.S. DEGREE CREDITS * MAT 119 College Algebra, MAT 120 College Trigonometry, MAT 161 Statistics or MAT 119 College Algebra, MAT 120 College Trigonometry, MAT 217 Pre-Calculus or MAT 120 College Trig, MAT 217 Pre-Calculus, MAT 225 Calculus I or MAT 217 Pre-Calculus, MAT 225 Calculus I, MAT 226 Calculus II

General Education Courses

Any Humanities or Social Science

Oral Communication

(100 level or higher)

SPE 101

Restricted Elective

Credits

64-66

3 3

Electricians Technology

Credential:

Certificate (39 credit hours)

Academic Requirement for Admission:

High School level Algebra I required.

Program Overview:

Electricians Technology is a part-time, evening program that provides a strong electrical/electronic foundation necessary to meet the increasing technological demands of the electrical trade. Designed for the individual interested in becoming a licensed electrician, this program provides the 576 hours of education needed to meet the licensing requirements of the State of Maine.

Upon successful completion of the Program, the State of Maine Electrician Examining Board will allow the student to sit for the Journeyman's Examination. The Electricians Technology program also can be used to meet the educational requirements for various limited electrician licenses.

Students that successfully complete an electrical technology program at a secondary regional technical center may be eligible for up to 3 credits toward EMCC's Electricians Technology Certificate.

Note: Electricians who want to upgrade skills or gain general knowledge may take individual courses without enrolling in the program.

Electricians Technology—Certificate Electricians Technology Courses First Semester Credits Introduction to Electricians Technology **ELC 100** 3 **ELC 111** Basic Electricity I 3 **Electrical Controls I** 3 ELC 151 **Credits General Education Courses ENG 101 College Composition** 3 **Second Semester Electricians Technology Courses ELC 112** Basic Electricity II 3 **ELC 171** 3 **Electrical Blueprint Reading General Education Courses** Technical Mathematics I 3 **MAT 113 Third Semester Electricians Technology Courses Electrical Controls II ELC 152** 3 3 **ELC 161** Transformers **General Education Courses PSY 101** Introduction to Psychology or 3 **Human Relations PSY 211 Fourth Semester Electricians Technology Courses ELC 121** National Electrical Code 3 3 **ELC 131 Basic Electronics** 3 **ELC 141 Electric Motors TOTAL CERTIFICATE CREDITS** 39

<u>The Electricians Technology Certificate is offered in a part-time evening</u>
<u>format. Students who wish to attend full-time should contact the</u>
Admissions Office to discuss scheduling options.

Emergency Medical Services

Credentials:

Associate in Applied Science Degree (65 credit hours) Certificate (23-24 credit hours)

Academic Requirements for Admission:

<u>A.A.S. Degree:</u> High School level Algebra I and science course with lab, EMT license.

Certificate: High School level Algebra I and science course with lab.

Program Overview:

The Emergency Medical Services (EMS) program provides the opportunity to earn a Certificate and/or an Associate in Applied Science Degree to individuals who work with ambulance services, rescue squads, fire services, and other first responder organizations. Offered in concert with Atlantic Partners Emergency Services, the program augments a nationally recognized technical core with general education courses. The Program is typically taken on a parttime basis over three to four years.

Awards of Completion are given at three levels as students complete technical courses and are prepared to sit for State Licensure and National Certification. These three Awards of Completion are:

- Award for Emergency Medical Technology (EMT): EMS 123 is required.
- Award for Advanced Emergency Medical Technician (A-EMT): EMS 123, EMS 201, EMS 202, EMS 205, and EMS 206 are required.
- Award for Paramedic: All A-EMT courses as well as EMS 208, EMS 210, EMS 231, EMS 212, EMS 233, EMS 214, EMS 215, EMS 216, and EMS 217.

Concurrent enrollment agreements with many high schools and technical education centers offer students the opportunity to get a head start on their college careers by taking classes and earning college credit while still in high school. Information can be found on http://www.emcc.edu/academics/concurrent-enrollment/.

Key Learning Objectives:

Graduates with the Associate in Applied Science Degree will function, following completion of State Testing Requirements, as entry-level paramedics for ambulance and rescue squads with the following skills:

- Cardiac skills including advanced cardiac life support skills and cardiac arrest resuscitation
- Use of defibrillators and electrocardiographs
- Medication administration
- Management of specific emergencies including:
 - o Environmental emergencies
 - o Psychological emergencies
 - Obstetric and gynecological emergencies
 - o Neonatal care and resuscitation
 - o Airway management
 - Neurological emergencies
 - o Endocrine emergencies
 - o Infectious diseases
- Advanced trauma management
- Emergency medical care of special populations including geriatric and pediatric patients

Emergency Medical Services—A.A.S. Degree		
	Emergency Medical Services Courses	Credits
EMS 123	Emergency Medical Technician—Basic	5.5
EMS 201	Fundamentals of EMS	3
EMS 202	Cardiac/Respiratory Emergencies	3
EMS 205	EMT-Intermediate Skills Seminar	2
EMS 206	Intermediate Clinical Preceptorship and	3
	Field Internship	
EMS 208	Advanced Emergency Cardiovascular Care	4.5
EMS 210	Paramedic Emergencies I	2.5
EMS 212	Emergency Care Across the Lifespan	2.5
EMS 214	Paramedic Skills Seminar	2
EMS 215	Paramedic Clinical Preceptorship and Field Internship I	3
EMS 216	Paramedic Clinical Preceptorship and Field Internship II	2
EMS 217	Paramedic Clinical Preceptorship and Field Internship III	3
EMS 231	Paramedic Emergencies II	3
EMS 233	Paramedic Emergencies III	3
•	General Education Courses	Credits
BIO 121	Anatomy and Physiology I	3
BIO 122	Anatomy and Physiology II	3
BIO 124	Anatomy and Physiology I Laboratory	1
BIO 126	Anatomy and Physiology II Laboratory	1
ENG 101	College Composition	3
Restricted	Math (100 level or higher)	3
Elective+		
Restricted	Any Humanities or Social Science	6
Elective	(100 level or higher)	
Restricted Elective	Any Communications (100 level or higher)	3
1	TOTAL A.A.S. DEGREE CREDITS	65

BIO 121

BIO 124

ENG 101

Emergency Medical Services—Certificate Emergency Medical Services Courses Credits EMS 123 Emergency Medical Technician—Basic 5.5 EMS 201 **Fundamentals of EMS** 3 3 Cardiac/Respiratory Emergencies EMS 202 2 **EMT-Intermediate Skills Seminar** EMS 205 3 EMS 206 Intermediate Clinical Preceptorship and Field Internship **General Education Courses Credits**

Anatomy and Physiology I

College Composition

Anatomy and Physiology I Laboratory

TOTAL CERTIFICATE CREDITS

Fine Woodworking and Cabinet Making Technology

Credentials:

3

1

3

23.5

Associate in Applied Science Degree (61-62 credit hours)

Academic Requirements for Admission:

A.A.S. Degree: High School level Algebra I required. Algebra II, Geometry, Physics or Chemistry with Lab desired.

Program Overview:

The Fine Woodworking and Cabinet Making program provides students with a two-year option tailored for differing occupational goals. Students will gain the knowledge and skills necessary to plan and complete cabinetry projects. Students choose courses in drafting, cabinet layout, estimating, cabinet-making, furniture, and millwork. Students apply their studies by building different types of cabinets in each year of the program. The Fine Woodworking and Cabinet Making program provides the student with the knowledge and skills necessary to plan and complete cabinetry, furniture and millwork projects. Students learn to work with prints, specifications, and shop drawings. Emphasis is placed on selecting proper materials, determining the best procedures, manufacturing parts to specification, assembling, and finishing individual projects.

Students learn the fundamentals of working with wood in our well-equipped shop, from planning a project to adding the finishing details. From using traditional woodworking equipment and hand tools to the latest computer numerically controlled (CNC) machinery and software, students learn to plan and process wood in the most efficient manner. You will learn the setup and operation of wood working machinery and equipment, breakout of lumber and panel components, laminating, veneering, machining, sanding, assembly and finishing.

Successful graduates of this program will have the skills necessary to become employed in a variety of custom woodworking environments including cabinet shops, yacht building, architectural millwork, or

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furniture making. Beginning wages will vary depending on the shop at which the graduate is employed.

Key Learning Objectives:

Students who successfully complete the Associate in Applied Science Degree program will be able to:

- Set up a shop for producing furniture, cabinets, or other wood products with the necessary tools, equipment, space and safety.
- Evaluate a piece of case furniture needing repair, make recommendations, and perform needed repair.
- Demonstrate the fundamental woodworking processes with respect to hand tool and machine use, veneering, wood bending, laminating, and finishing of various materials.

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Fine Woodworking and Cabinet Making—A.A.S. Degree			
First Semest	er	FWC Technology Courses	Credits
FWC 1	02	Basic Woodworking I	3
FWC 1	03	Basic Woodworking II	4
DTG 12	23	Drafting for Cabinetmaking I	3
		General Education Courses	Credits
ENG 10	01	College Composition	3
MAT 1	13	Technical Mathematics I	3
Second Sem	ester	FWC Technology Courses	Credits
FWC 1	11	Woodworking	7
DTG 12	25	Drafting for Cabinetmaking II	3
		General Education Courses	Credits
MAT 1	14	Technical Mathematics II	3
SPE 10	1	Oral Communication	3
Summer			Credits
FWC 2	00	Cooperative Education for (optional – may	(1-3)
		substitute Free Elective)	
Third Semes	ter	FWC Technology Courses	Credits
FWC 2	01	Basic Cabinetmaking and CNC	7
DTG 22	25	Drafting for Cabinetmaking III	3
		General Education Courses	Credits
Restric	ted	Any Math or Science (100 level or higher)	3-4
Electiv	е		
Fourth Seme	ester	FWC Technology Courses	Credits
FWC 2	11	Advanced Cabinetmaking	7
		General Education Courses	Credits
Restric	ted	Any Humanities or Social Science	3
Electiv	е	(100 level or higher)	
Restric	ted	Any Humanities or Social Science	3
Electiv	e	(100 level or higher)	
Free El	lective	Any course 100 level or higher	3
		TOTAL A.A.S. DEGREE CREDITS	61-62

Fire Science Technology

Credentials:

Associate in Applied Science Degree (61 credit hours) Certificate (31 credit hours)

Academic Requirements for Admission:

A.A.S. Degree: High School level Algebra I. Geometry desired. Certificate: High School level Algebra I. Geometry desired.

Program Overview:

The Fire Science Technology program is designed to provide students with sound technical and academic experiences, enabling them to assume positions of responsibility as members of fire departments or as technical employees of industrial firms and insurance companies.

The first year of the program provides training in building construction, system design for detecting and eliminating fire hazards, and trains students to reduce hazard through periodic inspections, remedial recommendations, and systematic follow-ups. The second year focuses on aspects of leadership, command, control, and education.

The ultimate goal is to assist the in-service student to develop the appropriate skills and knowledge both to further their ability as a front-line firefighter, but also to develop the skills to assume a leadership role in their community. Students who are not employed in a related field are highly encouraged to pursue a live-in position or other hands-on application of the curriculum.

Graduates of the Associate in Applied Science degree program are prepared to assume positions of leadership within their department, and to manage teams performing tasks in the community and on the fire ground.

Graduates of the program will be employed as industrial fire protection specialists, safety technicians, fire insurance inspectors, inspection bureau representatives, state fire inspectors, and municipal fire department employees, many of whom will earn their degree while employed in their area of specialty.

All Fire Science Technology students are strongly encouraged to take EMS 123 (EMT) and to complete the Firefighter I/II certification. Both of these will be needed for employment by a fire department. Live-in Students will complete FFI/II during the summer before school and should complete EMS 123 in their first semester.

Courses may also be taken individually or in clusters to meet National Fire Protection Association (NFPA) Certification for various fire science professional standards.

Concurrent enrollment agreements with many high schools and technical education centers offer students the opportunity to get a head start on their college careers by taking classes and earning college credit while still in high school. Information can be found on http://www.emcc.edu/academics/concurrent-enrollment/.

Live-in Student Firefighter Externship:

The Live-In Firefighter Externship is offered in cooperation with various area fire departments. Through this externship students are hired to live in area fire houses (rent free) in exchange for being "on call" during specific hours.

Admission to the Live-In Student Firefighter program is not guaranteed (space is limited) and depends upon a successful job interview and satisfactory completion of pre-service training. Early application for the limited live-in positions is strongly encouraged.

Live-in students have a greater persistence rate with 85% reaching graduation within three years. Live-in students have a greater success rate in classes because they apply what they learn on a daily basis. In addition, these students have access to members of their host departments who can tutor them on topics and skills.

Key Learning Objectives:

Graduates with the Associate in Applied Science Degree will be prepared to:

- Analyze and apply proactive fire prevention and control methods for safe and cost effective fire protection.
- Analyze and apply reactive fire and emergency scene operations for safe and cost effective fire protection.
- Examine and appraise principles of supervision and management necessary for effective leadership and administration in the fire/rescue service.
- Effectively communicate with others using methods appropriate to the situation and audience.
- Function effectively in teams.
- Access, evaluate, and synthesize information independently using appropriate technology.
- Demonstrate a functional approach to problem solving.

Fire Science Technology—A.A.S. Degree		
	In-Service Track	
First Semester	Fire Science Technology Courses	Credits
FIR 110	Fire Protection Systems	3
FIR 115	Fire Service Building Construction	3
	General Education Courses	Credits
ENG 101	College Composition	3
Restricted	MAT 113 or higher level math	3
Elective		
Restricted	Any Social Science (100 level or higher)	3
Elective		
Second Semester	Fire Science Technology Courses	Credits
FIR 152	Fire Inspection and Prevention	3
FIR 155	Fire Science Hydraulics	3
	General Education Courses	Credits
PHY 108	Survey of Applied Physics	4
Restricted	MAT 114 or higher level math	3
Elective		
Restricted	Any Humanities or Social Science	3
Elective	(100 level or higher)	
Third Semester	Fire Science Technology Courses	Credits
FIR 202	Hazardous Incident Management	3
FIR 215	Fire Service Leadership	3
FIR/EMS*	Fire Science Elective	3
	General Education Courses	Credits
CHE 103	Chemistry for Emergency Responders	3
ENG 215	Business and Technical Writing	3
Fourth Semester	Fire Science Technology Courses	Credits
FIR 250	Fire Ground Operations	3
FIR 260	Fire Administration	3
FIR/EMS*	Fire Science Elective	3
FIR/EMS*	Fire Science Elective	3
•	General Education Courses	Credits
Restricted	Communications, Humanities, or Social	3
Elective	Science (100 level or higher)	
•	TOTAL A.A.S. DEGREE CREDITS	61

^{*}Fire Science Elective Options: FIR 100 Introduction to Fire Protection, FIR 101 Firefighter I, FIR 102 Firefighter II, FIR 104 Emergency Telecommunicator Basic, FIR 127 Fire Science Learning Seminar, FIR 131 Fire Behavior and Combustion, FIR 165 Wildlife Fire Management for Firefighters, FIR 200 Hazardous Materials, FIR 207 Fire and Life Safety Educator, FIR 210 Fire Service Instructor, FIR221 Fire Investigation and Analysis, and select EMS courses.

Fire Science Technology—A.A.S. Degree			
Live-in Student Track			
First Semester	Fire Science Technology Courses	Credits	
EMS 123	Emergency Medical Technician	5.5	
FIR 110	Fire Protection Systems	3	
FIR 115	Fire Service Building Construction	3	
	General Education Courses	Credits	
Restricted	MAT 113 or higher level math	3	
Elective			
Second Semester	Fire Science Technology Courses	Credits	
FIR 152	Fire Inspection and Prevention	3	
FIR 155	Fire Science Hydraulics	3	
•	General Education Courses	Credits	
ENG 101	College Composition	3	
PHY 108	Survey of Applied Physics	4	
Restricted	MAT 114 or higher level math	3	
Elective	-		
Third Semester	Fire Science Technology Courses	Credits	
FIR 202	Hazardous Incident Management	3	
FIR 215	Fire Service Leadership	3	
	General Education Courses	Credits	
CHE 103	Chemistry for Emergency Responders	3	
ENG 215	Business and Technical Writing	3	
Restricted	Any Social Science (100 level or higher)	3	
Elective			
Fourth Semester	Fire Science Technology Courses	Credits	
FIR 250	Fire Ground Operations	3	
FIR 260	Fire Administration	3	
Restricted	FIR 207 Fire and Life Safety Educator or	3	
Elective	FIR 210 Fire Service Instructor		
	General Education Courses	Credits	
Restricted	Any Social Science/Humanities	3	
Elective	(100 level or higher)		
Restricted	Any Communications, Humanities, or Social	3	
Elective	Science (100 level or higher)		
TOTAL A.A.S. DEGREE CREDITS 60.5			

Fire Science Technology—Certificate			
First Semester	Fire Science Technology Courses	Credits	
FIR 110	Fire Protection Systems	3	
FIR 115	Fire Service Building Construction	3	
	General Education Courses	Credits	
ENG 101	College Composition	3	
Restricted	MAT 113 or higher level math	3	
Elective			
Restricted	Any Social Science (100 level or higher)	3	
Elective			
Second Semester	Fire Science Technology Courses	Credits	
FIR 150	Fire Inspector I	3	
FIR 155	Fire Science Hydraulics	3	
FIR/EMS*	Fire Science Elective	3	
·	General Education Courses	Credits	
CHE 103	Chemistry for Emergency Responders	3	
PHY 108	Survey of Applied Physics	4	
	TOTAL CERTIFICATE CREDITS	31	

*Fire Science Elective Options: FIR 100 Introduction to Fire Protection, FIR 101 Firefighter I, FIR 102 Firefighter II, FIR 104 Emergency Telecommunicator Basic, FIR 127 Fire Science Service Learning Seminar, FIR 160 Fire Investigation I, FIR 165 Wildlife Fire Management for Firefighters, FIR 207 Fire and Life Safety Educator, FIR 210 Fire Service Instructor, and select EMS courses.

All students who intend to be front-line firefighters must complete EMS 123 and FF1/FF2 in order to qualify for jobs at full-time departments. Most departments are now hiring FF2/Paramedics.

Firefighter I/II will be credited as a fire science elective (6 credits) provided the student has passed the state certification test and provides proper documentation.

State licensure as an EMT will be credited as a fire science elective. EMT-Basic = 5 credits, EMT-Intermediate = 11 credits, and EMT-Paramedic = 19 credits fire electives + 3 social science electives.

General Technology

Credential:

Associate in Applied Science Degree (60 credit hours)

Academic Requirement for Admission:

High School level Algebra I required.

Program Overview:

General Technology recognizes skills acquired through employment. Applicants must have earned a four-year high school diploma or a state high school equivalency certificate. All applicants are expected to have successfully completed at least four years of work experience. During the application process, the applicant must meet with the Program Coordinator.

The student begins the program by creating a portfolio that clearly outlines work-related competencies. The completed portfolio, which is reviewed by a team of appropriate evaluators, is used to determine if college credit will be awarded for prior learning experiences. The student must meet with an academic advisor to outline and plan the program of study. Graduates of this Program are employed in a variety of settings at the time of entry into the Program.

General Technology-A.A.S. Degree			
	General Technology Courses	Credits	
GEN101-121	Prior Learning Assessment	1-21	
GEN 111 or	Portfolio Development <u>or</u>	1	
GEN 113	Prior Learning Portfolio Development	3	
	Selected Coursework (Minimum: 16 credits)	16-34	
	General Education Courses	Credits	
ENG 101	College Composition	3	
Restricted	Any Communications (100 level or higher)	3	
Electives			
Restricted	Any Humanities or Social Science	6	
Electives			
Restricted	Mathematics or Science (100 level or higher)	9	
Electives			
TOTAL A.A.S. DEGREE CREDITS			

Hospitality and Tourism Management

Credential:

Associate in Applied Science Degree (61 credit hours)

Academic Requirements for Admission:

High School level Algebra I required. Algebra II and a lab science desired.

Program Overview:

A Degree in Hospitality and Tourism Management from Eastern Maine Community College offers a diverse mix of career choices and opportunities. Foodservice Management positions as well as Lodging Management and Hotel Operations top the list of many. Some graduates may be interested in Resort Management or positions in the Airline Industry, Sustainable Tourism, Event Management and Entertainment Arts Management. With training in customer service, as well as comprehensive management and marketing techniques and a solid foundation of general education courses, the Program includes the building blocks for a rewarding and exciting career. Successfully completing the Program will open the door to a variety of lucrative career opportunities. Transfer education or entrepreneurship as well as immediate employment with a vast number of major corporations are just some of the options that a degree in Hospitality and Tourism Management can offer.

Graduates from the Program will receive nationally recognized certification in Hospitality Management and Managing Front Desk Operations, Foodservice Sanitation, Fundamentals of Alcohol Service as well as other certifications under the auspices of the Education Foundation of the National Restaurant Association and the American Hotel and Lodging Association.

EMCC has developed articulation agreements with several colleges/universities to provide seamless transfer opportunities for students moving on to earn a Bachelor's Degree. Our formalized agreements can be found on

http://www.emcc.edu/academics/transferring-credits/articulationagreements/.

Key Learning Objectives:

Graduates with an Associate in Applied Science Degree in Hospitality and Tourism Management will be able to perform at both entry-level and mid-level positions in the areas of front desk management and reservations, front line management and supervisory positions in a variety of Hospitality and Tourism relation positions. Training will allow graduates to demonstrate a working knowledge of:

- Front office management
- Customer service skills
- Basic restaurant management and food preparation skills
- Tourism as it relates to geography
- Event planning and execution
- Cost controls and forecasting techniques

Hospitality and Tourism Management – A.A.S.			
First Semester	Technology Courses	Credits	
BCA 115	Introduction to Computer Applications	3	
HTM 101	Introduction to Hospitality Management	3	
HTM 111	Hotel Front Office and Guest Accounting	3	
	General Education Courses	Credits	
ENG 101	College Composition	3	
GEO 107	Geography for Travel and Tourism	3	
Second Semester	Technology Courses	Credits	
BUA 111	Accounting I	3	
HTM 131	Beverage Controls and Sanitation	3	
HTM 141	Hospitality Human Resources	3	
HTM 161	Customer Service/Relations	3	
	General Education Courses	Credits	
Restricted	Any Humanities or Social Science	3	
Elective	(100 level or higher)		
Third Semester	Technology Courses	Credits	
HTM 221	Introduction to Food Preparation	3	
HTM 231	Hospitality Law	3	
	General Education Courses	Credits	
SPE 101	Oral Communication	3	
Restricted	Any Math or Science (100 level or higher)	3	
Elective			
Restricted	Any Humanities or Social Science	3	
Elective	(100 level or higher)		
Fourth Semester	Technology Courses	Credits	
BUA 271	Marketing Principles	3	
HTM 251	Planning and Development of Tourism	3	
HTM 261	Meetings and Convention Management	3	
	General Education Courses	Credits	
ENG 215	Business and Technical Writing	3	
NUT 221	Nutrition	4	
	TOTAL A.A.S. DEGREE CREDITS	61	

Liberal Studies

Credential:

Associate in Arts Degree (60-62 credit hours)

Academic Requirement for Admission:

High School level Algebra I required.

Program Overview:

The Associate in Arts Degree with a concentration in Liberal Studies is a broad-based educational program with a curriculum spanning a wide range of academic areas. These areas include: Humanities, Communications/English, Social Science, Mathematics, Computer Applications, and Laboratory Science.

Primarily, this degree is intended to ease transfer into some baccalaureate programs at other post-secondary institutions. Additionally, from the Liberal Studies program, students may apply for entry into various professional and technical programs offered at Eastern Maine Community College as well as throughout the Maine Community College System.

Students are encouraged to explore in depth a particular academic discipline and also to enhance their education by electing career- and skill-specific courses offered through the other programs on campus.

Upon successful completion of at least 60 credit hours in curriculum areas specified on the next page, and with a minimum grade point average of 2.0, the student will be awarded the Associate in Arts Degree in Liberal Studies. All courses including electives must be at 100 or higher level.

A guaranteed admissions agreement, **AdvantageU**, was signed by the University of Maine System and the Maine Community College System in 2005. The **AdvantageU** program is designed to provide community college students with a streamlined transfer process into the Maine public university of their choice, following completion of their Associate in Arts Degree. Information and application

procedures for the **AdvantageU** program are located on http://www.emcc.edu/academics/transferring-credits/advantageu/.

Key Learning Objectives:

Upon completion of the Associate in Arts in Liberal Studies Degree, the graduate is prepared to:

- Communicate clearly and effectively in a variety of contexts.
- Access, evaluate and utilize a variety of information resources.
- Articulate and utilize fundamental mathematical concepts.
- Explain basic general scientific laws, theories, and concepts in either the biological or physical sciences.
- Apply critical thinking skills and link concepts across a variety of disciplines.
- Critically examine the values, rituals and beliefs of cultures that are separated in time or space from one's own.

Liberal Studies—Associate in Arts Degree			
First Semester	Liberal Studies Courses	Credits	
ENG 101	College Composition	3	
SOC 101	Introduction to Sociology	3	
Math Elective	Any Math (100 level or higher)	3	
Free Elective	(100 level or higher)	1-3	
Free Elective	(100 level or higher)	3	
Second Semester	Liberal Studies Courses	Credits	
ENG 112	Introduction to Literature	3	
PSY 101	Introduction to Psychology	3	
Communications Elective	Any Communications (100 level or higher)	3	
Math Elective	Any Math (100 level or higher)	3	
Free Elective	(100 level or higher)	3	
Third Semester	Liberal Studies Courses	Credits	
Communications	Any Communications (100 level or	3	
Elective	higher)		
Restricted	HIS101 American History Since 1898 <u>or</u>	3	
Elective	HIS111 World History		
Science Elective	Any Lab Science (100 level or higher)	4	
Free Elective	(100 level or higher)	3	
Free Elective	(100 level or higher)	3	
Fourth Semester	Liberal Studies Courses	Credits	
PHI 101	Ethics	3	
Social Science	Any Social Science (100 level or higher)	3	
Elective			
Restricted	Any Lab Science (100 level or higher)	4	
Elective			
Free Elective	(100 level or higher)	3	
Free Elective	(100 level or higher)	3	
	TOTAL A.A. DEGREE CREDITS	60-62	

	Biology Education Engineering		20	Medical				
	ыоюду		Education	1	Engineering		Radiograp	hy
	ENG101	3	ECE110*	3	BCA115	3	BIO121	3
First Semester	SOC101	3	ENG101	3	ENG101	3	BIO124	1
	BIO109	4	MAT119 or MAT108^	3	HIS101	3	ENG101	3
F	MAT119^	3	EDB202*	3	MAT123	4	MAT119	3
	FREE ELE	3	SOC101	3	SOC101	3	MRT111	1
							MRT131	1
							FRE ELE*	3
Credits		16		15		16		15
	ENG112	3	EDB221*	3	ENG112	3	BIO122	3
_	PSY101	3	ENG112	3	MAT217	3	BIO126	1
Second	HIS101 or HIS111	3	MAT107^	3	PHI101	3	MAT Ele^	3
Ser	BIO209	4	PSY101	3	PSY101	3	PSY101	3
•	MAT120^	3	PHI101	3	SPE101	3	PSY211	3
							SPE101	3
Credits		16		15		15		16
	SPE101	3	ECE216*	3	ENG215	3	BCA115	3
_	BIO239	4	ENG215	3	FREE ELE*	3	ENG 112	3
Third Semester	PSY211, PSY214	3	MAT161*	3	MAT161*	3	HIS101 or HIS111	3
T	MAT217^	3	ECE116	3	MAT225*	4	SOC101*	3
•	CHE113	3	Lab Sci Ele	4	PHY121	3	FREE ELE*	3
	CHE115	1			PHY122	1		
Credits		17		16		17		15
_	ENG215	3	FREE ELE	3	ECO201 or ECO222	3	ENG215	3
Fourth Semester	PHI101	3	HIS101	3	FREE ELE*	3	PHI101	3
	BIO216	4	SPE101	3	MAT226*	4	PHY235*	3
	CHE114	3	PSY211	3	PHY123	3	FREE ELE*	3
	CHE116	1	Lab Sci Ele	4	PHY124	1	FREE ELE*	3
Credits		14		16		14		15

3

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16

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16

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3

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16

Nursing

BIO121

BIO124

ENG101 MAT119

PSY101

SOC101

BIO122

BIO126

PSY211

PSY231*

BIO216*

BCA115

ENG112

BMT113*

FREE ELE*

ENG215

HIS 111

HIS101 or

FREE ELE*

BMT114*

PHI101

SPE101

MAT161[^]

Semester

Semester

Semester

Semester

Credits

Credits

Third

Credits

Fourth

Credits

Pre-

Pharmacy

ENG101

SOC101

BIO109

CHE113

CHE115

MAT225

ENG112

PSY101

BIO209

MAT161

CHE114

CHE116

COM ELE

PHI101

BIO121

BIO124

ORG CHEM~4

ECO201 or

ECO222

HIS ELE

SPE101

BIO122

BIO126

ORG CHEM~4

Surgical

Technology

1

3

3

3

3

16

1

3

3

3

3

16

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3

3

3

3

16

3

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3

3

3

15

BIO121

BIO124

ENG101

MAT119

PSY101

SOC101

BIO122

BIO126

PSY211

PSY231*

SPE101

BIO216*

BCA115

ENG112

BMT113*

FREE ELE*

HIS101 or

HIS111

ENG215

FREE ELE*

BMT114*

PHI101

MAT161[^]

1

4

18

3

1

17

1

14

3

3

1

17

Medical Assistant Technology

Credential:

Associate in Applied Science Degree (61 credit hours)

Academic Requirements for Admission:

High School level Algebra I and Biology with Lab required.

Program Overview:

Medical Assistants are multi-skilled allied health professionals specifically trained to work in ambulatory settings such as physician's offices, clinics and group practices, performing administrative and clinical procedures. Students are provided with extensive hands-on training in both entry-level and advanced medical assistant competencies in accordance with the Standards and Guidelines for the Accreditation of Educational Programs in Medical Assisting. Graduates from the Medical Assistant Technology program are eligible to sit for the American Association of Medical Assistants (AAMA) certification examination upon successful completion of the Program.

Students must complete 61 credits in the Medical Assistant Program and achieve a minimum grade of **C** in all courses. (Students must attain a final GPA of 2.0 or higher).

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

EMCC has developed articulation agreements with several colleges/universities to provide seamless transfer opportunities for students moving on to earn a Bachelor's Degree. Our formalized agreements can be found on http://www.emcc.edu/academics/transferring-credits/articulation-agreements/.

Key Learning Objectives:

Graduates with the Associate in Applied Science Degree are expected to:

- Utilize and understand appropriate medical terminology.
- Apply a basic understanding of human physiology and anatomy in the role of a medical assistant.
- Demonstrate a basic understanding of the concepts of pharmacology.
- Demonstrate a basic understanding of medical law and expected ethical behavior for individuals working in the healthcare field.
- Demonstrate a basic understanding of common disease processes.
- Practice principles of effective communication with patients, their families and the healthcare team.
- Demonstrate administrative competency including, but not limited to: clerical functions, bookkeeping procedures, and insurance claim processing.
- Demonstrate clinical competency including, but not limited to: fundamental procedures, specimen collection, diagnostic testing, and patient care.

Medical Assistant—A.A.S. Degree			
First Semester	Technology & Related Technology Courses	Credits	
MAS 101	Introduction to Medical Assisting	1	
BCA 115	Introduction to Computer Application	3	
BMT 113	Introduction to Medical Terminology	3	
	General Education Courses	Credits	
BIO 121	Anatomy & Physiology I	3	
BIO 124	Anatomy & Physiology I Laboratory	1	
ENG 101	College Composition	3	
Second Semester	Technology & Related Technology Courses	Credits	
MAS 111	Clinical Procedures with Lab	4	
MAS 121	Medical Office Procedures	3	
MAS 131	Math Methods for Medical Assistants	3	
	General Education Courses	Credits	
BIO 122	Anatomy & Physiology II	3	
BIO 126	Anatomy & Physiology II Laboratory	1	
PSY 101	Introduction to Psychology	3	
Third Semester	Technology & Related Technology Courses	Credits	
MAS 201	Principles of Pharmacology	3	
MAS 211	Clinical Procedures II with Lab	4	
MAS 221	Insurance Coding for the Medical Office	3	
BMT 121	Medical Law & Ethics	3	
	General Education Course	Credits	
PSY 231	Developmental Psychology	3	
Fourth Semester	Technology & Related Technology Course	Credits	
MAS 231	Medical Assistant Externship	5	
	General Education Courses	Credits	
BIO 222	Pathophysiology	3	
ENG 215	Business & Technical Writing	3	
Free Elective	(100 level or higher)	3	
	TOTAL A.A.S. DEGREE CREDITS	61	

The Medical Assistant Technology is also offered in a part-time evening format.

Medical Office Technology

Credentials:

Associate in Applied Science Degree (62 credit hours)

Academic Requirements for Admission:

High School level Algebra I, Biology with Lab, and English Composition required.

Program Overview:

The Associate in Applied Science degree is designed to prepare students for employment in physicians' offices, clinics, hospitals, and other health care facilities. With the ever-changing medical climate, the demand for trained office professionals in health care is growing. This Program will prepare students to be proficient in a number of vital skill areas including medical coding and billing, transcription, health record maintenance, scheduling, and software applications.

Concurrent enrollment agreements with many high schools and technical education centers offer students the opportunity to get a head start on their college careers by taking classes and earning college credit while still in high school. Information can be found on http://www.emcc.edu/academics/concurrent-enrollment/

Program Educational Objectives:

Graduates of the Associate in Applied Science degree will:

- Demonstrate competency with Word, Excel, PowerPoint, Access, and email software applications.
- Access, evaluate, and synthesize information independently using appropriate technology.
- Exhibit oral and written communication skills necessary to convey ideas effectively in a business environment.
- Work effectively in teams with individuals from diverse backgrounds.
- Use effective interpersonal skills in the workplace to assist the completion of individual and team tasks and to promote the image of both the individual and the organization.

- Use logic and mathematical skills to identify and solve problems.
- Produce accurate correspondence and reports using appropriate editing and language skills.
- Produce accurate medical documents (including histories and physicals, chart notes, discharge summaries, consultations, etc.) using appropriate formats and editing and language skills.
- Demonstrate a basic understanding of procedural and diagnostic coding using CPT and ICD-10 CM.
- Schedule appointments, record patient information, file insurance claims, manage accounts receivable, and process insurance claim forms adhering to legal restrictions.
- Adhere to security, privacy, and confidentiality policies.
- Qualify for medical office positions in clinics, hospitals, doctors' offices, and home health care facilities.

Medical Office Technology—A.A.S. Degree			
First Semester	Medical Office Technology Courses	Credits	
BCA 101	Document Processing/Formatting	2	
BMT 113	Medical Terminology I	3	
BUA 105	Business Communications	3	
	General Education Courses	Credits	
BIO 121	Anatomy and Physiology I	3	
BIO 124	Anatomy and Physiology I Laboratory	1	
Restricted	Any Math (100 level or higher)	3	
Elective			
Second Semester	Medical Office Technology Courses	Credits	
BCA 115	Introduction to Computer Applications	3	
BMT 114	Medical Terminology II	3	
BMT 209	Medical Coding I	3	
	General Education Course	Credits	
BIO 122	Anatomy and Physiology II	3	
BIO 126	Anatomy and Physiology II Laboratory	1	
ENG 101	College Composition	3	
Third Semester	Medical Office Technology Courses	Credits	
BCA 116	Database Management	3	
BMT 121	Medical Law and Ethics	3	
BMT 210	Medical Coding II	3	
BMT 206	Medical Billing & Reimbursement	3	
	Methodologies		
	General Education Course	Credits	
Restricted	Any Humanities or Social Science	3	
Elective	(100 level or higher)		
Fourth Semester	Medical Office Technology Courses	Credits	
BCA 202	Integrated Software Applications	3	
BMT 204	Medical Office Procedures	4	
Restricted	BMT221 Medical Transcription I or	3	
Elective	BMT261 Health Unit Coordinator		
	General Education Courses	Credits	
Restricted	Any Humanities or Social Science	3	
Elective	(100 level or higher)		
Restricted	Any Communications (100 level or higher)	3	
Elective			
	TOTAL A.A.S. DEGREE CREDITS	62	

Medical Office Technology -**Health Care Secretary Certificate**

Credential:

Certificate (34 credit hours)

Academic Requirements for Admission:

High School level Algebra I and English Composition required.

Program Overview:

This Program will prepare graduates to perform clerical and administrative duties in a medical office and in a hospital setting. Duties may include routine typing, operation of computer software, preparing and maintaining medical records, scheduling appointments, and related tasks. Graduates from this Program will have the necessary skills to work in a variety of settings, including medical clinics, doctors' offices, and hospitals.

Medical Office Technology			
Health Care Secretary—Certificate			
First Semester	Technology Courses	Credits	
BCA 101	Document Processing/Formatting	2	
BCA 115	Introduction to Computer Applications	3	
BMT 113	Medical Terminology I	3	
BUA 105	Business Communications	3	
BMT 121	Medical Law and Ethics	3	
BMT 207	Electronic Medical Record	1	
General Education Course			
Restricted	Math (100 level or higher)	3	
Elective			
Second Semester	Technology Courses	Credits	
BCA 116	Database Management	3	
BMT 114	Medical Terminology II	3	
BIO 121	Anatomy and Physiology I	3	
BIO 124	Anatomy and Physiology I Laboratory	1	
BMT 261	Health Unit Coordinator	3	
	General Education Course	Credits	
ENG 101	College Composition	3	
TOTAL CERTIFICATE CREDITS 34			

Medical Radiography

Credential:

Associate in Science Degree (83-88 credit hours)
Associate in Science Degree – Three Year Track (84-89 credit hours)

Academic Requirements for Admission:

High School level Algebra I, Algebra II, Geometry, Biology with Lab, Physics (preferred) or Chemistry with Lab. Pre-admission testing required.

Program Overview:

Medical Radiography is a two-year or three-year program that integrates scientific concepts into working skills though classroom study and intensive clinical experience. The program concentrates on diagnostic radiology, including angiography and computerized tomography. Other imaging modalities such as nuclear medicine, radiation therapy, sonography, and magnetic resonance imaging are briefly discussed.

Medical radiographers are health professionals who combine technical knowledge with radiographic and anatomical knowledge to obtain diagnostic images of all parts of the human body. Successful radiographers must have a good working knowledge of human anatomy, radiographic positioning, radiologic physics, equipment operation, and quality assurance. As members of a health care team, radiographers must also understand and apply principles of good patient care, and conduct themselves in accordance with medical ethical standards.

Graduates are eligible to sit for the national certification examination administered by the American Registry of Radiologic Technologists (ARRT), and to apply for Maine licensure in radiography.

The Medical Radiography Program is accredited by the Joint Review Committee on Education in Radiologic Technology (JRCERT), 20 N. Wacker Drive, Suite 2850, Chicago, IL 60606-3182.

EMCC has developed articulation agreements with several colleges/universities to provide seamless transfer opportunities for students moving on to earn a Bachelor's Degree. Our formalized agreements can be found on http://www.emcc.edu/academics/transferring-credits/articulation-agreements/.

Key Learning Objectives:

GOAL #1 STUDENTS WILL DEMONSTRATE CLINICAL COMPETENCE

- Students will demonstrate knowledge of imaging principles technical selection
- Students will demonstrate competence in positioning skills
- Students will provide patient care essential to medical imaging procedures
- Students will demonstrate radiation protection
- Students will demonstrate competence in routine surgical procedures

GOAL #2 STUDENTS WILL MAINTAIN HIGH ETHICAL STANDARDS AND DEMONSTRATE PROFESSIONALISM

- Students will maintain high ethical standards
- Students will report to clinical sites on time
- Students will adhere to all program and clinical affiliate policies
- Students will display a professional appearance; follow dress code

GOAL #3 STUDENTS WILL DEMONSTRATE PROBLEM SOLVING AND CRITICAL THINKING SKILLS

- Students will demonstrate the ability to adapt for the trauma patient
- Students will demonstrate the ability to evaluate radiographic images

GOAL #4 STUDENTS WILL DEMONSTRATE EFFECTIVE COMMUNICATION SKILLS

- Students will communicate effectively in the healthcare community
- Students will demonstrate the ability to convey their ideas using speech, graphics and writing

NOTE REGARDING THE 3-YEAR PROGRAM

The 3-year program provides the same educational experiences and requirements as the 2-year Medical Radiography Program. The 3-year program demands a lower credit requirement each semester which may be more suited to some students.

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Medical Radiography—A.S. Degree			
First Semester	Medical Radiography Courses	Credits	
MRT 111	Radiographic Positioning I	3	
MRT 117	Radiologic Procedures I	1	
MRT 121	Principles of Radiographic Exposure I	2	
MRT 131	Medical Terminology	1	
MRT151	Introduction to Health Care	2	
MRT 161	Clinical Education I	5	
BIO 121	Anatomy and Physiology I	3	
BIO 124	Anatomy and Physiology I Laboratory	1	
MAT 119	College Algebra (may substitute MAT 123)	3	
Second Semester	Medical Radiography Courses	Credits	
MRT 112	Radiographic Positioning II	3	
MRT 118	Radiologic Procedures II	1	
MRT 122	Principles of Radiographic Exposure II	2	
MRT 162	Clinical Education II	5	
MRT 164	Advanced Clinical Education (optional)	1	
BIO 122	Anatomy and Physiology II	3	
BIO 126	Anatomy and Physiology II Laboratory	1	
ENG 101	College Composition	3	
Res Elective+	Any PHI or PSY (100 level or higher)	3	
First Summer	8-Week Clinical	Credits	
MRT 163	Clinical Education III	5	
Third Semester	Medical Radiography Courses	Credits	
MRT 211	Radiographic Positioning III	1	
MRT 219	Imaging Modalities	1	
MRT 251	Advanced Health Care	1	
MRT 255	Pathology	1	
MRT 261 or	Clinical Education IV	6 or	
MRT 267	Clinical Education IV (alternate clinical course)	7	
BIO 272	Radiation Biology	2	
Restricted	Communications/Humanities/Social	3-4	
Elective+	Science/Math/Science (100 level or higher)		
SPE 101	Oral Communication	3	
Fourth Semester	Medical Radiography Courses	Credits	
MRT 212	Radiographic Positioning IV	1	
MRT 222	Principles of Imaging Physics	1	
MRT 230	Radiography Review & Career Planning (optional)	1	
MRT 262	Clinical Education V or	7	
MRT 270	Clinical Education V (alternative clinical course)		
MRT 264	Advanced Clinical Education V (optional)	1	
PHY 235	Radiologic Physics	3	
Res Elective+	Any SOC or PSY (100 level or higher)	3	
Second Summer	6-Week Clinical	Credits	
MRT 265	Clinical Education VI	3	
	TOTAL A.S. DEGREE CREDITS	83-88	

Medio	cal Radiography—A.S. Degree (3-Year)	
First Semester	General Education Courses	Credits
BIO 121	Anatomy and Physiology I	3
BIO 124	Anatomy and Physiology I Laboratory	1
ENG 101	College Composition	3
MAT 119	College Algebra (may substitute MAT 123)	3
MRT 101	Basic Concepts of Radiography	1
MRT 131	Medical Terminology	1
Second Semester	General Education Courses	Credits
BIO 122	Anatomy and Physiology II	3
BIO 126	Anatomy and Physiology II Laboratory	1
Restricted	Any PHI or PSY (100 level or higher)	3
Elective	, , , ,	
Res. Elective	Any SOC or PSY (100 level or higher)	3
SPE 101	Oral Communications	3
Third Semester	Medical Radiography Courses	Credits
MRT 111	Radiographic Positioning I	3
MRT 117	Radiologic Procedures I	1
MRT 121	Principles of Radiographic Exposure I	2
MRT 151	Introduction to Health Care	2
MRT 161	Clinical Education I	5
Fourth Semester	Medical Radiography Courses	Credits
MRT 112	Radiographic Positioning II	3
MRT 118	Radiologic Procedures II	1
MRT 122	Principles of Radiographic Exposure II	2
MRT 162	Clinical Education II	5
MRT 164	Advanced Clinical Education II (optional)	
Restricted	Communications, Humanities, Social Science, Math or	3-4
Elective+	Science (100 level or higher)	3-4
First Summer	8-Week Clinical	Credits
MRT 163	Clinical Education III	5
Fifth Semester	Medical Radiography Courses	Credits
BIO 272	Radiation Biology	2
MRT 211	Radiographic Positioning III Imaging Modalities	1
MRT 219		
MRT 251	Advanced Health Care	1
MRT 255	Pathology	1
MRT 261 or MRT 267	Clinical Education IV or	6 or
L	Clinical Education IV (alternate clinical course)	7 Cradita
Sixth Semester	Medical Radiography Courses	Credits
MRT 212	Radiographic Positioning IV	1
MRT 222	Principles of Imaging Physics	1
MRT 230	Radiography Review & Career Planning (optional)	1
MRT 262	Clinical Education V or	7
MRT 270	Clinical Education V (alternative clinical course)	
MRT 264	Advanced Clinical Education V (optional)	1
PHY 235	Radiologic Physics	3
Second Summer	6-Week Clinical	Credits
MRT 265	Clinical Education VI	3
	TOTAL A.S. DEGREE CREDITS	84-89

Nursing

Credential:

Associate in Science Degree (70 credit hours) Advanced Placement A.S. Degree (71-72 credit hours)

Academic Requirements for Admission:

High School level Algebra I, Biology with Lab, and Chemistry with Lab, college-level Anatomy and Physiology I with Lab. Pre-admission testing required.

Program Overview:

The Nursing program prepares students to become registered nurses at the associate degree level. Upon completion of the Program, graduates will obtain an Associate in Science Degree and are eligible to take the NCLEX Registered Nurse (RN) licensure examination and apply for Maine licensure as a registered nurse.

The multiple entry nursing program at Eastern Maine Community College (EMCC) is designed to provide students the opportunity to enter nursing or advance in nursing by entering at different levels of the nursing curriculum. This educational mobility provides students the opportunity to develop and augment technical skills and knowledge based on a balanced educational program.

Advanced standing students (current LPNs) enter the Program in the fall semester taking NUR107 Introduction to RN Role Transition, a 1.5 credit course focusing on nursing process and physical assessment. BIO 251 Clinical Pharmacology is a prerequisite to NUR 136 (spring semester).

Students are required to provide their own transportation to and from the various clinical agencies. A schedule of classes and clinical rotations is provided at the beginning of each semester. Clinical rotations may involve evening, daytime, and weekends based on availability of clinical sites and instructors.

In order to progress and graduate from the Nursing program, students must maintain passing grades in clinical coursework, concurrent with maintaining at least a C (73) exam average and course grade in all required nursing theory courses. Further guidelines are provided in the *Nursing Student Handbook*.

The Nursing program is approved by the Maine State Board of Nursing, 161 Capitol St. 158 State House Station Augusta, Maine, 04333-0158 Phone: 207-287-1133 Fax: 207-2871149. www.maine.gov/boardofnursing. The Program is accredited by the Accreditation Commission for Education in Nursing, Inc. (ACEN), 3343 Peach Tree Rd NE, Suite 850, Atlanta, GA 30326; Phone 404-975-5000; Fax 404-975-5020; www.acenursing.org. The Maine State Board of Nursing may consider refusing to grant a license on the basis of criminal history record information relating to convictions as described in Title 5, Chapter 5301, Subsection 2 of the Maine Revised Statutes, Annotated.

EMCC has developed articulation agreements with several colleges/universities to provide seamless transfer opportunities for students moving on to earn a Bachelor's Degree. Our formalized agreements can be found on http://www.emcc.edu/academics/transferring-credits/articulation-agreements/.

Key Learning Objectives:

Graduates of the Associate in Science program will be able to:

- **Evidence-based Practice** Demonstrate evidence-based clinical decision-making using the nursing process.
- Person Centered Care Acknowledge the person or designee as a partner and source of control in providing care based on values, preferences, culture and needs of the person, family, and community.
- **Teamwork and Collaboration** Collaborate with respect, truth, and fairness as an effective member of the healthcare team.
- **Quality Improvement** Participate in continuous quality improvement processes.

- **Safety** Provide safe nursing care through individual performance and participation in system safety processes.
- Informatics Use information and technology to communicate, manage knowledge, reduce errors, and support decisionmaking.
- **Professionalism** Participate actively in professional growth and development.
- Caring Provide compassionate care through the use of therapeutic communication, respect, comfort, and attentiveness.

Nursing—A.S. Degree **Prerequisite Courses** Anatomy and Physiology I **BIO 121** 3 **BIO 124** Anatomy and Physiology I Laboratory 1 **Credits** First Semester **Nursing Courses** NUR 105 or **Foundations of Nursing** 8 **NUR 107** RN Transition (for current LPNs) 1.5 1.5 **NRG 111** Nursing Dosage Calculation* (not required) **General Education Courses** Credit **BIO 122** Anatomy and Physiology II 3 1 **BIO 126** Anatomy and Physiology II Laboratory 4 **BIO 251** Clinical Pharmacology 3 **PSY101** Introduction to Psychology Second Semester **Nursing Course** Credits **NUR 136** Nursing Across the Life Span I 10 **General Education Courses** Credits **ENG 101 College Composition** 3 **PSY 231** 3 **Developmental Psychology Nursing Courses Credits Third Semester NUR 267** Nursing Across the Life Span II 8 1 Professional Issues I **NUR 281 General Education Courses Credits BIO 216** General Microbiology 4 **SPE 101** 3 **Oral Communication Fourth Semester Nursing Courses** Credits **NUR 270** Nursing Across the Life Span III Professional Issues II 1 **NUR 282 General Education Courses Credits** Restricted Any Communications, Humanities, Social Elective Science, Math, or Science (100 level or higher) 3 Any Communications, Humanities, Social Restricted Elective Science, Math, or Science (100 level or higher) **TOTAL A.S. DEGREE CREDITS** 70-71.5

Outdoor Recreation and Tourism

Credential:

Associate in Applied Science (63 credit hours)

Academic Requirements for Admission:

High School level Algebra I

Program Overview:

The Outdoor Recreation and Tourism Graduates will be able to function in any entry-level position in the growing outdoor recreation and tourism industry. In addition to the A.A.S., graduating students will acquire a number of relevant licenses and certifications including a Registered Maine Guide license with up to six specialized classifications including Recreation, Fishing, Hunting, Whitewater, and Commercial Boat Operator License. Additional certifications include First Aid, Leave No Trace, and Chainsaw Operator.

Key Learning Objectives:

Learning objectives include:

- Understanding of the demands and skills of customer service
- Proficiency in managing parks and natural areas
- Guiding and outfitting single- and multi-day excursions in outdoor settings ranging from front to back country
- Knowledge of the career opportunities in the hospitality and tourism industry
- Development of management skills needed to be successful in various aspects of the field, from food service to lodging to tourism
- Mastery of managing principles for entry-level and midmanagement positions
- Preparation for transfer to baccalaureate granting institutions
- Master of fundamental principles and procedures of accounting
- Master of principles of marketing
- Knowledge of the work environment in the industry through summer work experience.

Outdoor Recreation and Tourism—A.A.S. Degree **Revised Curriculum** First Semester **Technology Courses** Credits **ORT 105** Expedition I 3 **ORT 141** Wilderness First Responder 4 2 ORT 151-159 **Specialized Outdoor Pursuits** ORT 161-169 Lifestyle Endeavors **General Education Courses Credits ENG 101** College Composition 3 Any Math (100 level or higher) 3 Restricted Elective **Second Semester Technology Courses Credits ORT 106** Expedition II 3 3 **ORT 112** Introduction to Guiding 2 **Specialized Outdoor Pursuits** ORT 151-159 ORT 161-169 2 Lifestyle Endeavors **General Education Course Credits** PHI XXX Wilderness Ethics SCI XXX 4 **Natural History Technology Courses Third Semester Credits** Planning and Development in Outdoor ORT 201 Recreation 2 **ORT 211** Search and Rescue Operations **ORT 221** Recreational Maine Guide Exam 1 3 **ORT 231** Planning and Design of Park and Natural Area Infrastructure **ORT 233** Planning and Design Field Skills 2 **ORT 241 Use of Mechanized Tools** 1 **General Education Course Credits SPE 101 Oral Communication Fourth Semester Technology Course** Credits **BCA 115 Introduction to Computer Applications** 3 3 Customer Service and Marketing in ORT **ORT 202** 3 **ORT 222** Field Internship **General Education Courses Credits ENG 215 Business and Technical Writing** 3 3 Restricted Any Humanities or Social Science Elective (100 level or higher) **TOTAL A.A.S. DEGREE CREDITS**

The Outdoor Recreation and Tourism program is offered at Katahdin Area Higher Education Center located in East Millinocket, Maine.

Refrigeration, Air Conditioning and Heating Technology

Credentials:

Associate in Applied Science Degree (64 credit hours) Refrigeration Certificate (34 credit hours)

Academic Requirements for Admission:

<u>A.A.S. Degree</u>: High School level Algebra I required. Algebra II, Geometry, and Physics or Chemistry with Lab desired. Certificate: High School level Algebra I required.

Program Overview:

The Refrigeration, Air Conditioning, and Heating Technology program provides students with opportunities to become proficient in the installation, maintenance, and repair of commercial refrigeration, air conditioning, and heating equipment. Special emphasis is placed on trouble-shooting and problem solving. Energy efficiency and green concepts are reinforced throughout the curriculum. Graduates of this Program find employment in a variety of commercial and industrial settings, with refrigeration, air conditioning, and heating contractors, and in sales positions. These licenses or certifications are available to graduates of the program: Limited Electrician in Refrigeration License, EPA Refrigerant Certification, Oil Burner Journeyman License, and Propane/Natural Gas License.

Graduates will be certified in the following:

- EPA Refrigerant Certification "Universal Technician" category
- CETP gas certification that leads to a State of Maine Gas Technician License

Graduates are eligible for other State of Maine Licensing:

- Full educational requirements and partial field experience for the journeyman oil burner license
- Partial educational requirements and partial field experience for the limited electrician refrigeration license

Concurrent enrollment agreements with many high schools and technical education centers offer students the opportunity to get a head start on their college careers by taking classes and earning college credit while still in high school. Information can be found on http://www.emcc.edu/academics/concurrent-enrollment/.

Key Learning Objectives:

Graduates with the Associate in Applied Science Degree will function at an entry-level position as a technician for installing, repairing, and servicing refrigeration, air conditioning, and heating equipment in the following areas:

- Gas and oil fired burners and heating appliance installation and service
- Hydronic and refrigeration piping systems installation
- Proper pipe fitting technique related to soldering, brazing, and pipe threading
- Proper customer-service procedures relating to service calls
- Proper usage of test instruments, gauges, electrical test meters, electronic leak detectors, temperature testers, refrigerant recovery equipment
- Air conditioning, refrigeration and heating system troubleshooting and analysis
- Geothermal and air source heat pump installation and service

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Refrigeration, Air Conditioning and Heating—A.A.S. Degree			
First Semester	Technology Courses	Credits	
RAH 103	Refrigeration and Air Conditioning Lab I	2	
RAH 113	Refrigeration Components and Physical	2.5	
	Principles		
RAH 123	Refrigeration Systems and Flow Controls	2.5	
RAH 133	RAH Electricity I	3	
	General Education Courses	Credits	
ENG 101	College Composition	3	
MAT 113	Technical Mathematics I	3	
Second Semester	Technology Courses	Credits	
RAH 104	Refrigeration and Air Conditioning Lab II	2	
RAH 138	RAH Electricity II and Motors	3	
RAH 144	Commercial Refrigeration Systems I	2.5	
RAH 147	Commercial Refrigeration Systems II	2.5	
RAH 171	HVAC Sketching and Print Reading	2	
	General Education Courses	Credits	
MAT 114	Technical Mathematics II	3	
SPE 101	Oral Communications	3	
Third Semester	Technology Courses	Credits	
RAH 203	Refrigeration and Air Conditioning Lab III	2	
RAH 234	RAH Controls I	3	
RAH 264	Heat Pump Systems	2	
RAH 272	Gas Heating Systems	3	
	General Education Courses	Credits	
ENG 215	Business and Technical Writing	3	
PHY 108	Survey of Applied Physics	4	
Fourth Semester	Technology Courses	Credits	
RAH 204	Refrigeration and Air Conditioning Lab IV	2	
RAH 237	RAH Controls II and Transformers	3	
RAH 283	HVAC Systems I	2.5	
RAH 287	HVAC Systems II	2.5	
'	General Education Course	Credits	
PSY 211	Human Relations	3	
	TOTAL A.A.S. DEGREE CREDITS	64	
<u> </u>			

Refrigeration, Air Conditioning and Heating—Certificate **Technology Courses** First Semester **Credits** Refrigeration and Air Conditioning Lab I **RAH 103** 2 **RAH 113** Refrigeration Components and Physical 2.5 **Principles Refrigeration Systems and Flow Controls RAH 123** 2.5 **RAH 133** RAH Electricity I **General Education Courses** Credits 3 **ENG 101 College Composition** 3 **MAT 113** Technical Mathematics I **Credits Second Semester Technology Courses** Refrigeration and Air Conditioning Lab II **RAH 104** 2 3 **RAH 138 RAH Electricity II and Motors** 2.5 **RAH 144** Commercial Refrigeration Systems I 2.5 **RAH 147** Commercial Refrigeration Systems II 2 **RAH 171 HVAC Sketching and Print Reading General Education Courses** Credits **MAT 114** Technical Mathematics II 3 3 **SPE 101 Oral Communications TOTAL A.A.S. DEGREE CREDITS** 34

Restaurant and Food Service Management

Credential:

Associate in Applied Science Degree (61-62 credit hours)

Academic Requirements for Admission:

High School level Algebra I, and English Composition required.

Program Overview:

The Restaurant and Food Service Management Program is designed for students who want to get their basic kitchen training and focus more on the business side of things to manage or own their own foodservice operation. Furthermore, students in the Food Service Specialist Certificate program might choose this specialty area to attain their Associate in Applied Science Degree with a second year of study. Finally, students with an Associate in Applied Science Degree in Culinary Arts, or significant transfer credit, often pursue this degree as well in order to make themselves more marketable.

Graduates will have the opportunity to become certified in the areas of ServSafe Sanitation through the Educational Foundation of the National Restaurant Association and Food and Beverage Management through the Educational Institute of the American Hotel and Lodging Association Educational Institute.

EMCC has developed articulation agreements with several colleges/universities to provide seamless transfer opportunities for students moving on to earn a Bachelor's Degree. Our formalized agreements can be found on http://www.emcc.edu/academics/transferring-credits/articulation-agreements/.

Key Learning Objectives:

Graduates with an Associate in Applied Science Degree will be able to perform at both entry- and mid-level positions in the areas of restaurant management. A Classical French foundation will guide graduates through their practical hands-on kitchen training which includes American Regional Cuisine in their first year. The second

year of the Program focuses on business classes to round out the training. Specific program objectives include:

- Pre-Preparation and Preparation of Hot Food Items
- Preparation of Breads, Rolls, & Basic Desserts
- Training in basic Garde Manger to include Salads, Dressing, and other Cold Foods
- Exposure to Soup, Stock, & Sauce Preparation
- Theoretical and Practical training in Sanitation & Kitchen Management
- Mastery of Fundamental Principles and Procedures of Accounting
- Mastery of Key Business Law Contracts, Unenforceable Aspects of Contracts, Rights of Third Parties, Judicial Procedure, and Torts
- Managing Principles for Entry-Level and Mid-Management Positions Preparation to Transfer to Four-Year Colleges with Junior Status

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Restaurant and Food Service Management A.A.S. Degree				
First	Semester	Culinary Arts Courses	Credits	
	CUL 112	Culinary Skills Development	3	
	CUL 124	Culinary Arts I	6	
	CUL 131	Culinary Sanitation and Theory		
		General Education Courses	Credits	
	ENG 101	College Composition	3	
Seco	nd Semester	Culinary Arts Courses	Credits	
	CUL 125	Culinary Arts II	6	
	CUL 141	Food Service Management	3	
		General Education Courses	Credits	
	Restricted	Any Math or Science (100 level or higher)	3-4	
	Elective			
	SPE 101	Oral Communication	3	
Third	d Semester	Business Management Courses	Credits	
	BUA 101	Introduction to Business	3	
	BUA 111	Accounting I	3	
	BUA 141	1 Principles of Small Business Management		
		General Education Courses	Credits	
	ENG 215	Business and Technical Writing	3	
	Restricted	Any Humanities or Social Science	3	
	Elective (100 level or higher)			
Four	th Semester	Business Management Courses	Credits	
	BUA 131	Business Law I	3	
	BUA 263	Sales and Customer Relations	3	
	BUA 271	Marketing Principles		
		General Education Courses	Credits	
	NUT 221	Nutrition	4	
	Restricted	Any Humanities or Social Science	3	
Elective		(100 level or higher)		
		TOTAL A.A.S. DEGREE CREDITS	61-62	

Surgical Technology

Credential:

Associate in Applied Science Degree (65 credit hours)

Academic Requirements for Admission:

High School level Algebra I and either Biology with Lab or Chemistry with Lab required.

Program Overview:

In this Program, the student will develop the knowledge, skills and attitudes necessary to practice as a certified surgical technologist by acquiring the following fundamental capabilities:

- to utilize appropriate medical terminology,
- to apply a basic understanding of human physiology and surgical anatomy in the perioperative role of a surgical technologist,
- to demonstrate a basic understanding of the concepts of pharmacology,
- to demonstrate theoretical and practical proficiency in surgical aseptic technique, surgical procedures and patient care,
- to identify and assume appropriate responsibility for patient care.

Prior to completing the program, students will take the national boards for the Certification in Surgical Technology. The Surgical Technology program is accredited by the Commission on Accreditation of Allied Health Education Programs (www.caahep.org) upon the recommendation of Surgical Technology and Surgical Assisting (ARC-STSA).

Key Learning Objectives:

Graduates with the Associate in Applied Science Degree will function at an entry level position as a Surgical Technologist with the following skills:

 use appropriate instrumentation and procedural steps in general surgery, obstetrics/gynecology, genitourinary, otolaryngology, eye, plastic and reconstructive, neurosurgery, vascular, cardiovascular-thoracic, and orthopedic surgical areas.

- apply a basic understanding of human physiology and surgical anatomy in the perioperative role of a surgical technologist.
- use appropriate aseptic techniques in surgery.
- utilize appropriate medical terminology.
- make basic measurements for dosage and drug calculations.
- use safe handling procedures for drugs and solutions.

Surgical Technology—A.A.S. Degree				
First Semester	General Education Courses	Credits		
BIO 121	BIO 121 Anatomy and Physiology I			
BIO 124	Anatomy and Physiology I Laboratory			
ENG 101	College Composition			
PSY 101	Introduction to Psychology	3		
Restricted	Any Communications (100 level or higher)	3		
Elective+				
Restricted	Any Humanities or Social Science	3		
Elective	(100 level or higher)			
Second Semester	Surgical Technology Courses	Credits		
MRT 131	Medical Terminology	1		
SUR 105 Introduction to Surgical Technology		7		
SUR 117 Pharmacology for Surgical Technologists		2		
	General Education Courses	Credits		
BIO 122	Anatomy and Physiology II	3		
BIO 126 Anatomy and Physiology II Laboratory		1		
Third Semester	Surgical Technology Course	Credits		
SUR 114 Surgical Technology I		15		
	General Education Course	Credits		
BIO 216	General Microbiology	4		
Fourth Semester	Surgical Technology Course	Credits		
SUR 123	Surgical Technology II	16		
TOTAL A.A.S DEGREE CREDITS				

Trade and Technical Occupations

Credential:

Associate in Applied Science Degree (60 credit hours)

Academic Requirements for Admission:

High School level Algebra I required. Geometry and Physics desired.

Program Overview:

Trade and Technical Occupations recognizes proficiency acquired through various trades and technical occupations in which individuals have completed or are in the process of completing a formal registered apprenticeship program (i.e., journeyman status). The apprenticeship program must be a minimum of three years in length and must be registered by either the Maine State Apprenticeship Council or the Bureau of Apprenticeship Training, U.S. Department of Labor; or be a formal program approved by the College. Students who have completed or are currently enrolled in a registered apprenticeship program may apply for admission into the Trade and Technical Occupations program. The degree is awarded after students have completed all requirements of the apprenticeship program. Applicants are responsible for providing all required documentation.

Trade and Technical Occupations-A.A.S. Degree			
	Technology Courses	Credits	
TTO 112	Apprenticeship I <i>or</i>	12	
TTO 118	Apprenticeship II <i>or</i>	18	
TTO 124	TTO 124 Apprenticeship III		
	Selected Coursework (100 level or higher)	15-27	
	General Education Courses	Credits	
ENG 101	College Composition	3	
Restricted	Any Communications (100 level or higher)	3	
Elective			
Restricted	Any Humanities or Social Science (100 level or	6	
Electives	higher)		
Restricted	Mathematics or Science (100 level or higher)	9	
Electives+			
TOTAL A.A.S. DEGREE CREDITS			

Welding Technology

Credentials:

Associate in Applied Science Degree (64 credit hours) Certificate (31 credit hours)

Academic Requirements for Admission:

<u>A.A.S. Degree</u>: High School level Algebra I required. Algebra II, Geometry, and Physics or Chemistry with Lab desired. Certificate: High School level Algebra I required.

Program Overview:

The Welding Technology program offers students a modular based curriculum in one, two, and three-year formats including technical courses in basic and pipe welding, advanced welding, and pipe fabrication. The welding certificate offers training in basic and pipe welding techniques utilizing the shielded metal arc welding process. Second year students enroll in Advanced Welding and receive training in GMAW, GTAW, and pipe fabrication.

All the welding program options are combined with a variety of general education courses and technology theory courses. Significant emphasis is placed on math, communication, physical science, and social science courses. Special courses in the welding metallurgy and quality assurance/quality control are also required within the technology. This mix of theory courses, general education courses, and skill training places our graduates in high demand.

There are a number of scholarships awarded to our students in Welding Technology. The Reginald Roy Scholarship was offered for the first time for the 2000-2001 academic year. This scholarship encourages students to maximize skill potential and career opportunities.

Concurrent enrollment agreements with many high schools and technical education centers offer students the opportunity to get a head start on their college careers by taking classes and earning college credit while still in high school. Information can be found on http://www.emcc.edu/academics/concurrent-enrollment/

Key Learning Objectives:

Graduates with the Associate in Applied Science Degree function at an entry-level position for welders in the following areas:

- Shielded Metal Arc Welding (S.M.A.W.) in all positions for mild steel and for pipe welding.
- Flux-Cored Arc Welding (F.C.A.W.) in all positions for mild steel plate.
- Gas Metal Arc Welding (G.M.A.W.) in all positions for mild steel plate, aluminum plate, and mild steel pipe.
- Gas Tungsten Arc Welding (G.T.A.W.) in all positions for mild steel, aluminum, and stainless steel plate, mild steel, and stainless steel pipe.
- Oxy-Fuel Cutting (O.F.C.) for mild steel plate ANSI/A.W.S.C4.2-90 American National standard.
- Air Carbon Arc Cutting (C.A.C.-A) for mild steel plate.
- Plasma Arc Cutting (P.A.C.) for mild steel and stainless steel.
- Blue print reading and drafting for welders.
- Quality Assurance/Quality Control for welding operations.

Graduates take the following tests:

- A.W.S. Structural Certification
- A.S.M.E. Section 9 S.M.A.W. Pipe Certification
- A.S.M.E. Section 9 G.T.A.W. Pipe Certification

The Welding Technology program is an American Welding Society (AWS) Designated Educational Institutional Member. The Welding program is certified as a S.E.N.S.E. program (Schools Excelling through National Skills Education) and Educational member through American Welding Society, 8669 NW 36 Street, Ste. #130, Miami, FL 33166-6672; 1-305-4439353; 1-800-443-9353; www.aws.org.

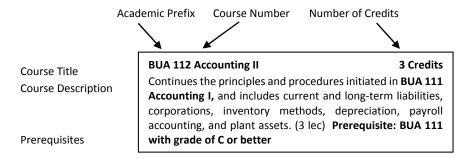
Welding Technology—A.A.S. Degree				
First Semester Welding Technology Courses				
WEL 111	Metal Technology	3		
WEL 131	Shielded Metal Arc Welding (SMAW) Basic	2		
WEL 132	Shielded Metal Arc Welding Advanced I	2		
WEL 134	Shielded Metal Arc Welding Structural			
WEL 151	Flux-Cored Arc Welding (FCAW)	2		
WEL 186	Blueprint Reading and Drafting for Welders	3		
•	General Education Courses	Credits		
MAT 113	Technical Mathematics I	3		
Second Semester	Welding Technology Courses	Credits		
WEL 133	Shielded Metal Arc Welding Advanced II	2		
WEL 135	Shielded Metal Arc Welding Pipe I	2		
WEL 136	Shielded Metal Arc Welding Pipe II	2		
WEL 137	Shielded Metal Arc Welding Pipe III	2		
111111111111111111111111111111111111111	(ASME Qualification)			
<u> </u>	General Education Courses	Credits		
ENG 101	College Composition	3		
MAT 114	Technical Mathematics II	3		
Third Semester	Welding Technology Courses	Credits		
WEL 265	Gas Metal Arc Welding Basic	1		
WEL 267	Gas Metal Arc Welding Advanced	1		
WEL 269	GMAW Pipe	1		
FIT 231	· ·			
FIT 233				
FIT 235	Practical Pipefitting II	1.5 1.5		
1 ====	General Education Courses	Credits		
ENG 215	Business and Technical Writing	3		
PSY 211	Human Relations	3		
Restricted	PHY121 Physics I and			
Elective	PHY122 Physics I Laboratory <u>or</u>	4		
	CHE100 Chemistry for Everyday Living <u>or</u>			
	PHY108 Survey of Applied Physics			
Fourth Semester	Welding Technology Courses	Credits		
WEL 222	Quality Assurance/Quality Control	4		
WEL 270	GTAW Basic	2		
WEL 277	Gas Tungsten Arc Welding Pipe I	2		
WEL 278	Gas Tungsten Arc Welding Pipe II	2		
WEL 279	Gas Tungsten Arc Welding Pipe III	2		
1	General Education Courses	Credits		
Restricted	SPE101 Oral Communication or	3		
Elective	Any PSY or SOC (100 level or higher)			
1	TOTAL A.A.S. DEGREE CREDITS	64		

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Welding Technology—Certificate in Pipe Welding				
First Semester	Welding Technology Courses	Credits		
WEL 111	Metal Technology			
WEL 131	Shielded Metal Arc Welding (SMAW) Basic	2		
WEL 132	Shielded Metal Arc Welding Advanced I	2		
WEL 134	. 134 Shielded Metal Arc Welding Structural			
WEL 151	Flux-Cored Arc Welding (FCAW)			
WEL 186 Blueprint Reading and Drafting for Welde		3		
	General Education Courses	Credits		
MAT 113	MAT 113 Technical Mathematics I			
Second Semester	Welding Technology Courses	Credits		
WEL 133	Shielded Metal Arc Welding Advanced II	2		
WEL 135	Shielded Metal Arc Welding Pipe I	2		
WEL 136	Shielded Metal Arc Welding Pipe II	2		
WEL 137	WEL 137 Shielded Metal Arc Welding Pipe III			
	(ASME Qualification)			
	General Education Courses	Credits		
ENG 101	College Composition	3		
MAT 114	Technical Mathematics II	3		
	TOTAL CERTIFICATE CREDITS	31		

The following are descriptions of courses offered by the College to meet curricula requirements. Descriptions are general in nature and are not intended to include all topics which may be part of the course and, in some cases, items in the descriptions may be omitted from the course. Revisions are sometimes necessary to meet changes in course or program objectives.

EXPLANATION OF COURSE DESCRIPTIONS



Explanation of Course Description Codes: The distributions contained in this Catalog are based on a "typical" 15 week semester. A number of technical programs have 5-week modules. Consult the current schedule for individual course meeting times. The College reserves the right to modify these and all other elements of a course at its discretion).

Explanation of lec, lab hours:

- Lecture Hours (lec) the number of hours per week a particular course meets in an instructor directed classroom situation.
- Lab Hours (lab) the number of hours per week a particular course meets and where students are in a practical, occupational or applied learning situation. Also, can be the number of hours per week a particular course meets in a student and equipment laboratory situation. Field work and small group discussions may also be included in these hours.
- **Hours (hr)** the number of training hours in a technical shop per module.
- Clinical or Field Experience or Practicum Hours Credit Hours the number of credit hours awarded to the student who successfully completes a course.

Definition of Units of Credit: Eastern Maine Community College curricula designs are based on the following (Maine Community College System Academic Affairs Policy No. 304) definition of a Unit of Credit:

"(1) one semester credit hour for each fifteen hours of classroom contact plus thirty hours of outside preparation or the equivalent; or (2) one semester credit hour for each thirty hours of laboratory work plus necessary outside preparation or its equivalent, normally expected to be fifteen hours; one semester credit hour for not fewer than forty-five hours of shop instruction (contact hours) or the equivalent..."

Prerequisite(s): Any course work that must be completed **before** the student is eligible to register for a course.

Co-requisite: any course which must be taken during the same semester.

These abbreviations are used in the course descriptions that follow.

ART	Art	FYE	College Success Course
ASL	American Sign Language	FWC	Fine Woodworking & Cabinet Making
			Technology
ATA	Automotive	GEN	General Technology
ATH	Diesel, Truck and Heavy	GEO	Geography
	Equipment		
ATT	Automotive and Diesel	GIS	Geographic Information Systems
	Technology		
BCA	Business Computer Applications	HIS	History
BCT	Building Construction Technology	HTM	Hospitality and Tourism Management
BIO	Biology	HUM	Humanities
BMT	Business Management	ISA	Industrial Safety
	Technology		
BUA	Business Management	KOR	Korean Language
CAD	Computer Aided Drafting and	LAE	Introductory English
	Design		
CET	Civil Engineering	LAM	Introductory Mathematics
CHE	Chemistry	MAS	Medical Assisting
CRJ	Criminal Justice	MAT	Mathematics
CST	Computer Systems Technology	MATL	Mathematics Laboratory
CUL	Culinary Arts	MRT	Medical Radiography Technology
DGD	Digital Graphic Design	MUS	Music
DTG	Drafting	NRG	Nursing
ECE	Early Childhood Education	NUR	Nursing
ECO	Economics	NUT	Nutrition
EDB	Education	ORT	Outdoor Recreation & Tourism
ELC	Electricians Technology	PHI	Philosophy
EMS	Emergency Medical Services	PHY	Physics
ENG	English	PSY	Psychology
ENGL	English Laboratory	RAH	Refrigeration Air Conditioning &
			Heating
EPT	Electrical and Automation	SOC	Sociology
FAR	Fine Arts	SPE	Speech
FIR	Fire Science Technology	SUR	Surgical Technology
FIT	Pipefitting	TTO	Trade and Technical Occupations
		WEL	Welding

COURSE DESCRIPTIONS

ART 100 Drawing I 3 Credits

Introduces basic art theory as it relates to representational drawing. Emphasis is placed on composition, materials manipulation, problem solving skills and critically analyzing one's own artwork as well as other students' work. (6 lab)

ART 112 2-D Design 3 Credits

A foundation course in two dimensional design. Students will examine the elements and principles of two dimensional design using hands on examples and exercises. Students will use both conventional media (paper, pencils, ink, glue, etc.) and digital media (computer graphics programs, such as Adobe Illustrator) to complete the exercises. Emphasis is placed on composition, materials manipulation, problem-solving skills, critiques and class participation. (2 lec, 2 lab)

ART 125 3-Dimensional Design

3 Credits

3-Dimensional Design is an introduction to both sculpture and applied design. This course covers current materials and methods used to create 3-dimensional forms. Abstract 3-dimensional concepts as they relate to the creative process will also be studied. Students will be expected to fabricate, evaluate and verbally discuss assignments and examples of these concepts, as well as understand the principles of organizing form and space and the processes and concepts of 3-dimensional design. Assignments will also involve practical considerations of structure, materials, and craftsmanship. This course is taught through hands-on projects, lectures, critiques and class discussions. Trips to local museums and galleries augment class work (2 lec, 2 lab)

ART 130 Fine Art Photography

3 Credits

This course is designed as an elective class that helps promote the use of photography as an art form. Students are encouraged to explore non-traditional uses of a camera and promote original thinking through the use of imagery. Using digital photography in a black and white form, students will capture images based on their own personal preference. Extensive experimentation is encouraged as students define their process for creating their images. Weekly lectures and discussions allow the students to talk about their work, provide encouragement as well as valuable feedback to how to use the camera as an artistic tool, and promote the evolution and progression of their photographs as art. At the end of the course all student will participate in an art show with their peers. Concentration on expressive and aesthetic aspects of photography in fine arts. Emphasis on ability to manipulate and compose with light as a crucial element in the organization of space (2 lec, 2 lab)

ART 132 Commercial Photography

3 Credits

In this course students learn to create professional quality images for the advertising, commercial and industrial markets. Through a series of lectures as well as hands-on experience, students will come away with a understanding of the concepts of studio lighting and location lighting setups, as well as how to properly photograph people, still

life, products and food in those environments. The course emphasizes the use of photography integrated with design to create effective graphics. (2 lec, 2 lab)

ASL 101 Introduction to American Sign Language I

3 Credits

Introduces students to the language most widely used in the adult American Deaf Community. It also introduces students to Deaf Culture, exploring issues of relevance and import in the Deaf Community such as cochlear implants, interpreted education and empowerment. Although technical, using videotexts, workbooks, pair practice, lecture, readings and Deaf guests, students experience an eye-opening, energizing and skills building course. (3 lec)

ASL 102 Sign Language II

3 Credits

This course builds upon the foundations of the language learned in ASL 101. Whereas ASL 101 had a focus of receptive skills (understanding the signs of others), this course focuses on the students expressive skills (one's ability to produce the signs) in a grammatically correct fashion, perfecting the formation of the five parameters of placement, location, palm orientation, movement and facial expression. The second half of the textbook is used, completing all lessons the American Sign Language Teacher's Association (ASLTA) deemed required for basic sign language skills. Extensive interaction is required amongst classmates. In class presentations will be required. An out of class research project is required. (3 lec) Prerequisite: ASL 101

ATA 100 Automotive Safety and Light Vehicle Repair

4 Credits

This introductory prerequisite course will introduce students to workplace safety in the automotive shop. Safety topics will include shop hazards such as fire, airborne gases, blood borne pathogens, and chemical hazards. Equipment instruction will include the safe operation of an automotive lift and an introduction to oxygen-acetylene torches, among other shop equipment. Students will be introduced to the basics of identifying failures on the automobile and how to perform basic maintenance. Students will research vehicle information utilizing electronic technical information to determine the correct service procedures and specifications. (2 lec, 4 lab)

ATA 110 Automotive Basic Electrical Systems

3 Credits

The first of two electrical courses, this course will introduce the fundamentals of electricity. Students will study voltage, amperage, resistance, wattage and Ohm's Law, and their relationship to electrical circuits of an automobile. Students will study the fundamentals and make up of an electrical circuit, common failures and diagnostic procedures, as well as how to determine the appropriate corrective actions while utilizing a digital volt Ohm meter. Additionally, students will learn the basics of starting and charging systems as well as how utilize a wiring diagram to trace an electrical circuit. Corequisite: ATA 100 or permission.

ATA 120 Automotive Shop Management

2 Credits

This course covers the fundamentals of operation of an automotive fleet or automotive dealer service facility. Topics covered in this class include: customer service and public relations; scheduling appointments and working with the customers at the time of the

appointment; the three C's of a repair order; complaint, cause and correction, warranty claims and Maine's Lemon Law.

ATA 124 Automotive State Inspection Prep (elective)

1 Credit

This course is a study of the Maine motor vehicle safety inspection standards and the law. This course will prepare students to sit for the exam with the Maine State Police and become a licensed Maine Motor Vehicle Safety Inspection technician, Class A and E. This course will focus on the responsibilities of the inspection technician, correctly performing a safety inspection, as well as interpretation and presentation of the law from the Maine State Inspection Manual. Students must pay the applicable fee and complete an application to the Maine State Police at the beginning of the semester to be eligible to sit for the exam at the end of the course and receive the manual utilized in the course.

ATA 125 Automotive Steering and Suspension I

2 Credits

The first of two courses, this course will focus on the steering and suspension systems of modern vehicles. This course will introduce students to identify steering and suspension components and inspect them for wear. Additionally, students will inspect steering and suspension systems to determine necessary corrective actions. This course will provide instruction to identify parts as satisfactory, marginal, or flagged for replacement. Included will be the study of wheels and tires, wheel balance, and road force. Students will inspect and identify worn steering and suspension components while utilizing available vehicle data and service information. **Prerequisite: ATA 100**

ATA 126 Automotive Steering and Suspension II

2 Credits

The second of two courses, this course will focus on the steering and suspension systems of modern vehicles. This course will provide students with experience to analyze problems and replace worn parts. Students will apply critical judgment to determine effective diagnostic procedures based on instruction, available vehicle data and service information. Included will be the study of front and rear wheel alignment diagnosis, adjustment and repair. Prerequisite: Successful completion of ATA 125 with a grade of C or higher.

ATA 145 Automotive Brake Systems I

2 Credits

This course will introduce students to the fundamentals of the automotive braking system. The first of two courses, students the will learn the theory of hydraulic, mechanical, vacuum, and electronic systems of automobile brakes. Students will check hydraulic components for internal and external leaks and determine necessary action; measure and adjust brake pedal height and parking brake linkage; and conduct maintenance procedures on drum brake and disc brake systems. Additionally, Students will inspect the power booster and identify the components of the anti-lock brake (ABS) traction control, and the regenerative braking system and determine necessary action. **Prerequisite: ATA 100**

ATA 146 Automotive Brake Systems II

2 Credits

This course will introduce students to the operation, diagnosis and repair of automotive braking systems. The second of two courses, students the will learn the theory of operation of hydraulic, mechanical, vacuum, and electronic systems of automobile

brakes. Students will diagnose and repair or replace hydraulic components and brake lines. Additionally, students will inspect and diagnose poor stopping, wheel lock up, abnormal pedal feel and determine necessary corrective action, with and without electronic brake control systems. Students will diagnose electronic brake control systems through the retrieval of diagnostic trouble codes and / or using recommended test equipment. Prerequisites: ATA 145 with a C or higher grade; ATA110

ATA 150 Automotive Engine Repair

3 Credits

This course will introduce the theory, operation and repair of the four stroke cycle gasoline engine found in today's automobiles. Students will learn basic principles and their applications on modern automotive engines. Students will learn to apply appropriate diagnostic techniques to identify failed areas within the engine and determine required service procedures. Students will disassemble engines and identify internal components and their function within the engine. Students will learn to make measurements of bearing journals, cylinder bores, pistons, camshafts and other internal components necessary to determine failures and the appropriate repair and service procedures. **Prerequisite: ATA 100**

ATA 190 Automotive Program Internship

3 Credits

The Program Internship is an on-the-job training opportunity, providing the student with work experience(s) in an area of Automotive Technology of specific interest to the student and mutual benefit to the employer. The student is primarily responsible to the employer for the various work responsibilities established and is also responsible to the course instructor to complete specific objectives necessary to satisfy the requirements for student evaluation. It is suggested that the employer provide as many experiences outlined in the 2012 NATEF standards as possible under the direction of an assigned mentor. (320 hours) **Prerequisite: Permission of instructor.**

ATA 210 Advanced Automotive Electrical Systems

3 Credits

The second of two courses, this course examines the electrical and electronic systems of automobiles. Students will study inputs, outputs, and processors of electronic systems. Students will study the diagnosis of starting and charging systems, improper operation of chassis and body electrical and electronic systems and determine necessary corrective actions. Prerequisite: Satisfactory completion of ATA 110 with a grade of C or higher or permission.

ATA 215 Manual Transmissions and Driveline

3 Credits

This course will cover manual drive train and axles theory, diagnosis and repair. Students will learn to remove and reinstall transmissions/transaxles. Students will inspect and repair manual transmission systems, inspect and reinstall power train components, and perform clutch diagnosis and repair. Students will apply critical thinking skills, utilizing service information, to diagnose problems with transaxles, clutches, and drive shafts to determine necessary corrective action. **Prerequisite: ATA 100; Co-requisite: ATA 210**

ATA 220 Engine Performance and Diagnosis

3 Credits

The first of a two course sequence addressing automotive engine performance, this course will introduce the theory, operation and repair of Ignition systems and fuel system

as they pertain to automobiles and light duty trucks. Students will perform compression tests, cylinder leakage tests; and vacuum tests to identify failed areas of the engine and required service procedures. The Students will learn to utilize proper diagnostic procedures and determine appropriate corrective procedures to repair, replace, or install components of the ignition and fuel systems that cause poor engine performance. Prerequisites: ATA 110 and ATA 150 with a grade of C or higher.

ATA 225 Automotive Heating and Air Conditioning

3 Credits

This course is an examination of automotive heating, ventilation, and air conditioning systems. Students will diagnose the heating and air conditioning system and determine necessary action for unusual operating noises and inoperative conditions. Students will diagnose temperature control problems and failures in the electrical controls of heating, ventilation, and air conditioning systems and determine necessary corrective action. Prerequisites: ATA 210 with a grade of C or higher.

ATA 230 Drivability and Emission Controls

3 Credits

The second of two courses, this course is a comprehensive overview of automotive computerized engine controls and vehicle emission systems. Students will learn to utilize proper diagnostic procedures and determine appropriate corrective procedures to repair, replace, or install components that cause poor engine performance. Students will study emission controls, their purpose on OBDII engines and their effect on engine performance when they are not operating properly. Students will inspect and test computerized engine control system sensors, powertrain/engine control module (PCM/ECM), actuators, and circuits utilizing scan tools, graphing multimeters, (GMM)/ and digital storage oscilloscopes (DSO). Prerequisites: ATA 210 and ATA 220 with grades of C or higher.

ATA 235 Automatic Transmissions and Transaxles

3 Credits

This course will cover automatic transmission theory, diagnosis, and repair. Students will perform full in-vehicle and off-vehicle transmission inspection, and apply critical thinking skills, utilizing service information, to diagnose problems and determine necessary corrective action. Students will disassemble an automatic transmission, inspect for failed parts and rebuild transmission to operating condition. Prerequisites: Completion of ATA 210 and ATA 215 with a grade of a C or higher.

ATH 101 Shop Orientation and Safety: Heavy Equipment/Truck I

1 Credit

Familiarizes students with shop safety, regulations, liabilities and legalities as they pertain to the truck and heavy equipment industry and identifies proper use of hazardous materials, shop equipment practices and procedures, and correct operation of trucks and heavy equipment in shop areas. (20 hr.)

ATH 103 Minor Repairs: Heavy Equipment/Truck

2 Credits

Teaches the theory, function, and diagnosis of truck and heavy equipment performance for maintenance service and light duty repairs to cooling, lubricating, electrical and exhaust systems. It addresses the safety procedures that need to be followed when arc or gas welding in the automotive industry. (60 hr.) **Prerequisite: ATH 101**

ATH 113 Heavy Equipment/Truck Braking Systems

3 Credits

Introduces the theory, operation, service, and repairs of hydraulic brakes, vacuum boosters, air brakes, and all related components including electrical and emphasizes the importance and use of asbestos removal equipment when servicing braking systems. The course also offers preparation for CDL air brake testing. (80 hr.) **Prerequisite: ATH 101 or permission**

ATH 121 Heavy Equipment/Truck Drive Trains

4 Credits

Presents the theory and operation of the complete drive train. Familiarizes students with tools and techniques necessary to properly maintain, diagnose, service, and repair automatic transmissions, manual transmissions, torque converters, final drives, frontwheel drives, and all related components. (120 hr.) Prerequisite: ATH 101 or permission

ATH 131 Diesel Engines (Heavy, Gas)

4 Credits

Introduces the theory and operation of the two and four-cycle internal combustion engine and the construction and designs of diesel and gas engines; addresses the advantages and disadvantages of both, as well as the evaluation and testing procedures used to determine engine condition, and measure engines and their components. It identifies the skills and tools needed to test, remove and recondition engines and components, including electrical, while emphasizing correct techniques and safety procedures. (120 hr.) **Prerequisite: ATH 101 or permission**

ATH 133 Diesel Engine Diagnosis and Tune-up (Heavy, Gas)

3 Credits

Provides the knowledge and skills required to troubleshoot and tune engines with mechanical and electrical components in a safe and professional manner, and teaches the proper use of diagnostic equipment and the correct techniques needed to make adjustments. (80 hr.) **Prerequisite: ATH 101 or permission**

ATH 141 Diesel Fuel Systems

3 Credits

Provides the theory and operations of carburetors, gas and diesel fuel injection systems, related components, including electrical/electronics, and fuel qualities. Teaches the skills and tools needed to diagnose and service fuel systems and to perform on-vehicle fuel injection adjustments. (100 hr.) **Prerequisite: ATH 101 or permission**

ATH 151 Hydraulic Systems

3 Credits

Teaches the theory, principles, terminology, and schematics of hydraulics. Students learn the components of hydraulic systems, as well as their applications. Students also learn how to trouble-shoot/test both manual and electrical controls, and perform preventive maintenance and repair of hydraulic pumps, motors, valve bodies, accumulators, lines and actuators in a safe and professional manner. (80 hr.) **Prerequisite: ATH 101 or permission**

ATH 163 Heavy Equip/Truck Steering & Suspension Systems

3 Credits

Instructs the theory and operation of steering and suspension systems; safety precautions to be followed when servicing steering and suspension systems; and proper tools, equipment and procedures for servicing and alignment. (80 hr.) **Prerequisite: ATH 101 or permission**

ATH 171 Troubleshooting Techniques

2 Credits

Instructs students to recognize, isolate, troubleshoot, and diagnose mechanical and electrical problems and/or potential failures. (60 hr.) **Prerequisite: ATH 101 permission**

ATH 175 Motor Vehicle Inspection

2 Credits

Teaches State of Maine Motor Vehicle Inspection Laws and the proper procedures to test and inspect trucks, trailers and automobiles. (60 hr.) **Prerequisite: ATH 101 or permission**

ATH 211 Shop Management: Heavy Equipment/Truck

2 Credits

Addresses the fundamentals of operating a fleet or dealer service facility. The course covers public relations, customer service, work and PM scheduling, repair orders, warranty claims, hiring and training practices, shop organization, tools and equipment, and the importance of coordinating with other departments. (60 hr.) **Prerequisite: 600 hours of ATH or permission**

ATT 133 Basic Electrical Systems

3 Credits

Provides students with the theory of electricity, Ohm's Law, and the skills needed to correctly use volt meters, amp meters, and millimeters. Students troubleshoot and diagnose electrical systems in a safe and systematic approach. (60 hr.) **Prerequisite: ATA 101 or ATH 101 or permission**

ATT 135 Advanced Electrical Systems

2 Credits

Develops skills necessary for the use of advanced electrical and electronic testing equipment in testing and diagnosing electrical and electronic control systems on modern automobiles, trucks and heavy equipment. (60 hr.) Prerequisite: ATH 101, ATH 201, ATT 133 or permission

ATT 141 Heating and Air Conditioning

3 Credits

Familiarizes students with the operation, safety procedures, diagnosis and service of automotive heating and air conditioning systems. The course includes recovery and reuse of R12 and 134A refrigerants and EPQ regulations. (80 hr.) **Prerequisite: ATT 135 or ATH 101 or ATH 201 or permission**

ATT 251 Automotive Basic Machine Shop Principles

2 Credits

Introductory course pertaining to basic machine shop principles and practices. Students will work with metric imperial units in using micrometers, vernier and electronic calipers, and precision layout tools. Students will also use conventional engine lathes, vertical milling machines, drilling machines, and a planer type reciprocating surface grinder. Other topics will include practical metallurgy, metal classification, oxy-acetylene operations, and bench work practices. (60 hr.)

BCA 101 Document Processing/Formatting

2 Credits

Develops skills in document formatting, including speed, accuracy, and professional standards. Students will gain expertise in keyboarding, document formatting, and essential word processing skills using Microsoft Word 2013. Emphasis will be placed on basic office correspondence including letters, memorandums, tables, and reports. (15 lec, 15 lab)

BCA 115 Introduction to Computer Applications

3 Credits

Develops basic computer skills with emphasis on formatting business documents using Microsoft Word, Excel, Access, and PowerPoint.

BCA 116 Database Management

3 Credits

Continues BCA115 to develop skills and build proficiency in database management using Microsoft Access. This course is designed to develop mastery skills in various database processing functions. Students will become proficient in creating a database; managing data; and creating queries, forms, and reports using enhancements and manipulating data. **Prerequisite: BCA 115**

BCA 202 Integrated Software Applications

3 Credits

Information Processing Capstone Course: Uses integrated software applications for report, document, presentation, and information development activities. Advanced concepts and techniques using Microsoft Word, Excel, Access, and PowerPoint to produce professional proposals, financial reports, data forms, and presentations will be featured. Exercises will stress the importance of file and data management. Students will be expected to produce these documents in a "hands-on" lab environment as well as independent work outside the classroom. **Prerequisites: BCA 115**

BCT 151 Residential Construction I

7 Credits

Emphasizes methods and materials used in residential construction and covers building codes, floor framing systems, wall framing, types and layout of trusses, cornice systems, types of roof coverings, exterior doors, windows, siding, and exterior paint. Students apply their coursework through the construction of a residential building. 15-week course (3 lec, 14 lab)

BCT 152 Residential Construction II

7 Credits

Presents methods and materials used to finish interiors of buildings, including gypsum board, tile ceilings, suspended ceilings, wall paneling, paint, hardwood flooring, tile floors, wall-to-wall carpeting, interior doors and trim. Students apply the skills by completing the interior of a residential project. 15-week course (3 lec, 14 lab) **Prerequisites: NCCER Core Curriculum, BCT 151, or permission**

BCT 201 Cooperative Education for Building Construction Technology 3 Credits

Provides students with work experience in the building construction trade. Following the second semester of program study, students work from mid-May through the third week of August in a full-time, salaried position with participating building construction businesses. BCT faculty assist and maintain contact with the students and employers during the co-op period. At the end of the period, the employer evaluates the student's

professional development based on their work assignments and goals. **Prerequisites: Ten Hour OSHA Construction Safety Certificate, BCT 152 and DTG 124** (Thirteen weeks)

BCT 213 Stair Construction 1 Credit

Concentrates on the construction of basic and finish stairways. Students study stairway types, calculations, layout, materials and construction methods. Students apply these concepts by constructing a set of finish stairs complete with newel posts, balusters, and handrail. 4-week course (2 lec, 12 lab) **Prerequisite: BCT 151 or permission**

BCT 255 Commercial and Industrial Construction

4 Credits

Engages students in the fundamentals of building layout, elevation control and concrete work. Applies field practice with transits for building layout, control points, and establishing building elevations. Students also practice designing and testing concrete mixtures, form design and construction, reinforcement location, placement, finishing and curing concrete. 11-week course (2 lec, 12 lab) **Prerequisite: BCT 151 or permission**

BCT 264 Estimating 3 Credits

Provides students with a background in construction documents and estimating materials and labor, including construction contracts, insurance, specifications, material take-off, and material and labor estimates. 15-week course (3 lec, 0 lab) **Prerequisites: BCT 152, DTG 124 and MAT 113 or permission**

BCT 272 Cabinetmaking and Millwork

5 Credits

Teaches kitchen cabinet layout, parts of cabinets, types of doors and drawers, hardware, and different cabinet joints used in construction of cabinets. Students construct and install cabinets, including countertops. 15-week course (2 lec, 12 lab) **Prerequisite: BCT 151**

BCT 275 Residential Building Science

4 Credits

Emphasizes the integration of a buildings component as a system designed to control energy use, indoor air quality and occupant comfort. Topics covered will include the history of energy use, energy-efficiency, building envelopes, lighting, cooling, and heating systems. Students will evaluate methods and materials used in building and remodeling for energy efficiency, comfort, health and safety. (3 lec, 2 lab) **Prerequisites: BCT 152, DTG 124 and MAT 113 or permission**

BIO 100 Concepts in Biology

4 Credits

Introduces students to basic biology principles such as: molecular and cellular biology, genetics, biological diversity and ecology. The goal of this course is to increase student knowledge of the world surrounding them and give them a basis for making informed decisions and options on biological issues. Special emphasis will be placed on relating topics to current events. (The course would not be transferable as a prerequisite for advanced biological science at another institution, only as a general education course.) (3 lec, 2 lab)

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BIO 105 Human Genetics

3 Credits

Human Genetics is a basic introduction to mammalian genetics using humans and mice as model organisms due to their similar genetic pathways and disorders. BIO 105 introduces you to basic genetics vocabulary and principles of inheritance, with the goal of enriching your understanding of genetics. Students will also be provided with the background needed to navigate through the ever-increasing genetic information appearing in the media. (3 lec)

BIO 109 Principles of Biology I

4 Credits

Principles of Biology I introduces the basic principles of molecular and cellular biology, genetics, evolution, biological diversity, and ecology. This course is the first of a two semester sequence of college biology designed to prepare the student for study at a four year institution in the fields of biology, medicine, agronomy, animal husbandry, or wildlife biology. The laboratory component of the course stresses laboratory safety and procedures and offers hands-on experiments designed to reinforce course topics. (3 lec, 2 lab) **Prerequisites: HS Biology and Algebra I, or equivalent**

BIO 121 Anatomy and Physiology I

3 Credits

Offers an integrated approach to anatomy and physiology, beginning with the chemical basis of life, and including cells, tissues, the integumentary, reproductive, skeletal, muscular, and respiratory systems. (3 lec, 0 lab) **Prerequisite: High School Biology or permission. Co-requisite: BIO 124**

BIO 122 Anatomy and Physiology II

3 Credits

Continues BIO 121, covering the nervous, endocrine, cardiovascular, lymphatic, immune, digestive and urinary systems. Emphasis is placed on relating structure to function. (3 lec, 0 lab) Prerequisite: BIO 121 and BIO 124 with a grade of C or better or equivalent. Corequisite: BIO 126

BIO 124 Anatomy and Physiology I Laboratory

1 Credit

Reinforces concepts covered in **BIO 121**, **Anatomy and Physiology I**, through a hands-on approach to the study of living organisms. Methods include experiments in physiology, microscopic studies of cells and tissues, and the study of articulated and disarticulated skeletons. (0 lec, 2 lab) **Co-requisite: BIO 121 or permission**

BIO 126 Anatomy and Physiology II Laboratory

1 Credit

Reinforces concepts studied in BIO 122, Anatomy and Physiology II, through the handson study of living organisms, including animal dissections, experiments in physiology, and microscopic examination of tissues. (0 lec, 2 lab) Prerequisite: BIO121 and BIO124 with grade of C or higher in each. Co-requisite: BIO 122 or permission

BIO 209 Principles of Biology II

4 Credits

Introduces functions (physiology) and structures (anatomy, morphology) of animals and plants stressing basic physiological processes and adaptations to the environment. Equal attention is given to plants and animals. This course is the second of a two semester sequence of college biology designed to prepare the student for study at a four year institution in the fields of biology, medicine, agronomy, animal husbandry, or wildlife

biology. The laboratory component of the course stresses laboratory safety and procedures and offers hands-on experiments designed to reinforce course topics. (3 lec, 2 lab) Prerequisite: BIO 109 with a grade of C or better or equivalent

BIO 216 General Microbiology

4 Credits

An integrated lecture-laboratory course concentrating on agents associated with human disease including bacteria, viruses, fungi and protozoa. Microbial control, epidemiology and immunology are also studied. Laboratory sessions focus on aseptic technique, slide preparations, bacterial culturing and identification of organisms. (2 lec, 4 lab) Prerequisites: BIO 122 and BIO 126 with a grade of C or better in each, or BIO 109 and BIO 209 with a grade of C or higher in each, or permission.

BIO 222 Pathophysiology

3 Credits

Focuses on understanding fundamental disease processes beginning with general concepts of disease and altered cell functioning. Also included are topics on inflammation, infection, neoplastic and fluid, electrolyte and acid-base imbalances. These concepts are applied to the study of disease processes using a systems-oriented approach. (3 lec) **Prerequisites: BIO 121 and BIO 122 with a grade of C or better**

BIO 251 Clinical Pharmacology

4 Credits

Discusses the essential concepts of clinical pharmacology and their application to safe medication administration in medical practice. Drug actions, therapeutic uses, and key adverse effects of major drug categories are examined. Knowledge of the essential concepts of clinical pharmacology and their application to medical practice is the foundation for this course. This course is designed to enhance the students' ability to provide care and educate patients; it builds upon their understanding of anatomy, physiology, pathophysiology, and the medical process. The major drug categories are discussed with an emphasis on their actions, therapeutic use, interactions, and key adverse effects. Medical responsibilities and accountability related to safe medication administration across the life span are emphasized. (4 lec, 0 lab) Prerequisites: BIO 122 and BIO 126 with a grade of C or higher in each (Note: Students matriculated into the Nursing Program may take BIO 122 and BIO 126 as Co-requisites with BIO 251)

BIO 272 Radiation Biology

2 Credits

Reviews the interaction of radiation within living systems, and radiation effects on molecules, cells, tissues and the body as a whole. Factors affecting biological response are presented, including somatic and genetic effects of radiation exposure. Radiation protection principles are presented including federal and state health and safety requirements; radiation safe practices for patients, personnel and the public; dose limits and personnel monitoring. (2 lec) **Prerequisite: BIO 122 with a grade of C or better**

BMT 113 Medical Terminology I

3 Credits

Introduces the basic structure of medical language. Students will become familiar with prefixes, suffixes, root words, and combining forms pertaining to the chemical basis of life, as well as the integumentary, musculoskeletal, nervous, sensory, endocrine, blood, cardiovascular, lymphatic, respiratory, digestive, urinary, and reproductive systems. Topics will include word structure and function, word building, as well as diagnostic,

procedural, laboratory, pathological, surgical, and pharmacological terms. Additional concepts covered will include pronunciation, spelling, and pluralization of medical terms.

BMT 114 Medical Terminology II

3 Credits

Continues BMT113 and includes a more in-depth encounter with medical terminology covering the body as a whole including the integumentary, musculoskeletal, digestive, blood, cardiovascular, respiratory, nervous, urinary, reproductive, endocrine, lymphatic, and immune systems. Students will practice analyzing and deconstructing medical terms to define the meaning as well as construct medical terms using prefixes, suffixes, word roots, and combining forms. Topics will include pronunciation, spelling, writing, and pluralizing of common medical terms. **Prerequisite: BMT113 with a grade of C or better.**

BMT 121 Medical Law and Ethics

3 Credits

Covers the study and application of medicolegal concepts and ethics in the medical profession. Understanding professional conduct and confidentiality will be emphasized. Principles of medical ethics and current issues will be discussed. The basic legal relationship between the healthcare provider and the patient will be covered. (3 lec)

BMT 204 Medical Office Procedures

4 Credits

Medical Office Technology Capstone Class: Emphasizes essential skills required of the administrative medical assistant. The students will gain practical knowledge of appointment booking, office protocol, time management, telephone techniques, office equipment, mail services, references, medical filing and records management, correspondence, and travel and meeting arrangements. To prepare students for the everincreasing use of technology in the medical office, this course places continued importance on the computerization of routine tasks and of communications. This course allows for the integrated application of office procedures, skills, and knowledge in the classroom through the use of projects and simulations. Students are introduced to practice management software designed to simplify and streamline the way medical practices function. Particular emphasis is placed on the electronic medical record. Students learn to perform the duties of the administrative medical assistant under realistic conditions and with realistic pressures that require them to organize their work and set priorities. Prerequisites: BMT 121, BMT 209, BMT 210, BMT 206 or by permission.

BMT 206 Medical Billing and Reimbursement Methodologies

3 Credits

Utilizes computer applications to cover the flow of information in a medical office. Students will develop skills to initiate and input patient data using a computerized medical office program. This will include scheduling appointments, recording patient information, filing insurance claims, and managing accounts receivable. In addition, students will be able to process insurance claim forms adhering to legal restrictions. Topics will include requirements for managed care systems, Blue Cross/Blue Shield, Medicaid, Medicare, Workers Compensation, Disability, and third-party insurance. **Prerequisite: BMT 209, Corequisite: BMT 210 or by permission.**

BMT 207 Electronic Medical Record

1 Credit

Develops a basic understanding of electronic medical record (EMR) software application. Emphasis will be placed on hands-on application of a software program designed to interface with practice management systems in physician practices. Using an electronic medical record software helps make the administration of a practice easier and more cost-effective. **Co-requisites: BMT 113, BCA 115**

BMT 209 Medical Coding I

3 Credits

Develops a basic understanding of procedural and diagnostic coding using ICD-10 CM and ICD-10-PCS. The focus will be on data analysis for billing and reimbursement. **Prerequisites: BMT 113, BIO 121; Co-requisite: BMT 114 or by permission.**

BMT 210 Medical Coding II

3 Credits

Continues concepts learned in BMT209 Coding I. Provides an introduction to basic coding concepts using CPT/HCPCS coding systems. This course emphasizes practice in the assignment of valid diagnostic and procedure codes in an ambulatory care setting. Covers procedural terminology in current use, evaluation and management [E/M] codes, medicine, HCPCS Levels II and III, and CPT Category II and III codes. **Prerequisite: BMT 209**

BMT 213 Medical Terminology III

3 Credits

Continues **BMT 114, Medical Terminology II.** Units of study include pharmacology, oncology, radiology, surgery and mental illness. (3 lec) **Prerequisite: A grade of C or better in BMT 114**

BMT 221 Medical Transcription I

3 Credits

Introduces the healthcare record and medical documents. Transcription of basic medical dictation incorporating the English usage and machine transcription skills, medical knowledge, and proofreading and editing skills will be covered. Students must meet progressively demanding accuracy and productivity standards. **Prerequisites: BCA 115, BMT 113, BMT 114, BUA 105**

BMT 222 Medical Transcription II

3 Credits

Continues BMT221. Students must transcribe advanced, original medical dictation, using advanced proofreading and editing skills, while meeting progressively demanding accuracy and productivity standards. (3 Credits) **Prerequisite: BMT 221**

BMT 261 Health Unit Coordinator

3 Credits

Prepares the student to perform the duties of a basic health care secretary. Content includes communications, basic terminology, transcription of physician orders, clerical functions, scheduling of personnel, supply and repair procurement. Clinical experience included. Prerequisites: BMT 113. Medical Malpractice Liability Insurance required; purchase when registering for class.

BMT 281 Medical Office Externship

3 Credits

Offers students opportunities for supervised work experiences in a medical office setting. This course combines classroom theory with on-the-job training. Must complete 240

hours of training to receive credit for this course. (0 lec, 1-3 lab) **Prerequisites: BMT 213, BMT 221, BMT 222**

BUA 101 Introduction to Business

3 Credits

This course examines the role of business in American society; the interrelated activities through which business provides the goods and services essential to contemporary society; and the interrelationships between business and government, labor, and society at large. General areas of study center on the foundation of business, management of the enterprise, marketing activities, finance and financial services, and contemporary business problems and development. Topics include economic systems, forms of business ownership, small business and entrepreneurship, management theory, human relations, marketing, accounting, finance, stock market and regulatory factors. Students in this course may be selected to take the Peregrine "inbound" exam. (3 lec)

BUA 103 Business Plan Development

3 Credits

Requires the development and presentation of a "real-world" business plan that may actually be implemented. Topics include planning, the development and screening of business ideas, preparation of a feasibility analysis, industry analysis, market analysis, the marketing plan, the management team, company structure, the operations plan, and financial projections. Students are required to make a formal presentation of their plan at the end of the course. This course serves as the capstone course for the Small Business Development Certificate: (3 lecture, 0 lab) Prerequisites: All First Semester Courses listed for the Small Business Development Certificate: BUA 101, BUA 111, BUA 141, BUA 263, and ENG 101

BUA 105 Business Communications

3 Credits

In this course students will strengthen their proofreading and editing skills needed for managing the accuracy and quality of document production. Students will develop language arts skills including grammar, spelling, and punctuation. This course also covers various types of business reports and communications with emphasis on preparation, collection of data, organization, style, and format. Emphasis is placed on appropriate formats for business communication including grammatical style, clarity, and conciseness of message. (3 lec) **Prerequisite: WP Accuplacer score ≥ 5.**

BUA 111 Accounting I

Covers the fundamental principles and procedures of accounting including the voucher system and bank reconciliations, with emphasis on developing the technical procedures of the accounting cycle including journalizing, posting, adjusting entries, closing procedures, and preparing financial statements. (3 lec) Prerequisite/Co-requisite: BUA165 Business Math or AR≥75 and EA≥75

BUA 112 Accounting II

3 Credits

3 Credits

Continues the principles and procedures initiated in **BUA 111 Accounting I,** and includes current and long-term liabilities, corporations, inventory methods, depreciation, payroll accounting, and plant assets. (3 lec) **Prerequisite: BUA 111 with grade of C or better**

BUA 131 Business Law I 3 Credits

Presents the nature of contracts including offer and acceptance, consideration, voidable contracts, unenforceable contracts, performance of contracts, rights of third parties, discharge of contracts and remedies for breach, and includes a section dealing with judicial procedure, torts, and administrative law. (3 lec) Prerequisite: WP Accuplacer score > 5 or completed ENG 101

BUA 132 Business Law II 3 Credits

Surveys the creation of agencies, the employment relationship, laws and related areas of partnerships; the laws and management of corporations; and the rights of stockholders. Property laws are also introduced. (3 lec) Prerequisite: WP Accuplacer score > 5 or completed ENG 101, BUA 131

BUA 141 Principles of Small Business Management

3 Credits

Presents the fundamentals of small business management primarily to non-business majors, and includes such topics as business ownership, organization and management, marketing, personnel, finance, and legal and regulatory controls. (3 lec)

BUA 165 Business Math 3 Credits

Develops math skills needed to understand the procedures and policies of business transactions including: bank reconciliation, depreciation systems, simple interest, payroll taxes and procedures, inventory, turnover, and overhead, stocks and bonds, compound interest, and sales, property and income taxes. (3 lec) **Prerequisite:** AR Accuplacer score ≥ 65; EA Accuplacer score ≥ 65

BUA 211 Managerial Accounting

3 Credits

Introduces financial accounting information for managerial planning and cost control. Sample topics include responsible accounting procedures, cost-volume relationships, differential analysis procedures, and capital budgeting. (3 lec, 0 lab) **Prerequisite: BUA 112**

BUA 213 Accounting with QuickBooks

3 Credits

Introduces QuickBooks software. Content includes setting up companies, entering payables, writing checks, entering sales, processing discounts, tracking sales tax, collecting receivables, preparing journal entries, generating internal reports, and creating financial statements. (3 lec; 0 lab) **Prerequisites: BUA 111 and BUA 112**

BUA 234 Credit and Finance Management

3 Credits

Presents the field of credit including legality, the instruments of credit, credit systems, credit and collections, borrowing and investing, investment tools and their use, and financial problem-solving, using the financial analyst calculator. (3 lec) **Prerequisites:**MAT 119 with grade of C or better; BUA 111 and BUA 112

BUA 260 Social Environment of Business

3 Credits

Discusses in detail the inter-relationships among business, government and society. Considerable time is spent discussing how these relationships change. The potency of change comes from forces in the business environment and from the actions of business.

Through the use of readings, supplemental cases and class discussions, students will gain an understanding of the many significant issues facing the business community today. (3 lec)

BUA 263 Sales and Customer Relations

3 Credits

Introduces the student to the basics of personal selling and the importance of positive customer relations. Explains the five P's of personal selling - preparation, prospecting, pre-approach, presentation, and post-sale activities. Emphasis will be placed on obtaining repeat sales through positive customer relations. (3 lec)

BUA 265 Leadership 3 Credits

Designed to provide emerging and existing leaders the opportunity to explore the concept of leadership and to develop and improve their leadership skills. The course may integrate readings from leadership cases studies, experiential exercises, contemporary readings on leadership, and the texbook. (3 lec)

BUA 271 Marketing Principles

3 Credits

Introduces marketing as it relates to the economy and the policies and practices of marketing institutions. Course content includes an overview of marketing, social responsibilities, consumer behavior, organizational markets, market segmentation, product management, price-setting, market channels, promotion, international markets, research, and the marketing of services. (3 lec; 0 lab) Prerequisites: None

BUA 281 Cooperative Education for Business

3 Credits

Offers students opportunities for supervised work experiences in business and/or non-profit organizations. This course combines classroom theory with on-the-job training and can be used as elective credit in the second year of study. (1-3 lab) Prerequisites: GPA 2.75, completion of 15 credits hours in Business Management, completion of 30 credit hours total, and permission.

BUA 291 Principles of Management and Organization

3 Credits

Examines the process of management by emphasizing the concepts and techniques of planning, organizing, and controlling functions. Also focuses on contemporary regulatory environment issues for managers. (3 lec) **Prerequisite: BUA 101**

CAD 105 Computer Aided Drafting and Design I

3 Credits

Introduces students to the principals of technical drawing employing both traditional drafting and Computer-Aided-Drafting techniques using AutoCAD software. Introduction to the principles of drafting to include terminology and fundamentals, size and shape descriptions, projection methods, geometric construction, sections, and auxiliary views. This class serves as the department's introductory computer-aided drafting & design (CADD) course (2 lecture, 2 lab).

CAD 106 Computer Aided Drafting and Design II

3 Credits

Builds on skills learned in CAD105 by striving to make the student more proficient in the use of AutoCAD. The class teaches students how to use the most efficient command for a task and introduces advanced techniques for drawing, editing, working with advanced

customization tools, blocks, working with sheet sets, and creating layouts, drawing with complex objects (including polylines, regions, and advanced text objects), and enhancing productivity with simple customization. (2 lec, 2 lab) **Prerequisite: CAD 105 with a grade of C or better – PENDING APPROVAL**

CAD 128 Residential/Commercial Construction Theory and Design 3 Credits

Four guidelines are followed with each subject material: design, building procedures, materials, and blueprint reading. The subjects covered will include: foundations, floors, walls/elevations, electrical, plumbing, and roofs for both residential and commercial. Other areas covered will include heavy timber frame construction, welding and kitchens. (2 lec, 2 lab)

CAD 130 Mechanical Modeling and Design

3 Credits

Introduces Computer Aided Parametric Modeling and Design through a combination of lecture, hands-on exercises and drawing problems. Students will use Autodesk Inventor software to model and design mechanical parts and assemblies. Welding and Sheet Metal drawings will also be introduced. While this course is designed for students with little previous computer or drafting experience, being familiar with a Windows operating system and basic file management is beneficial. (2 lec, 2 lab).

CAD 131 Building Information Modeling I (BIM I)

3 Credits

Allows users to design a building, structure and its components in 3D, annotate the model with 2D drafting elements, and access building information from the building model's database. Residential design will be the main focus throughout the class by utilizing hands-on practice by reinforcing the skills or topics covered in class though a building block approach where each succeeding practice reinforces earlier topics. This class serves as the department's introductory Building Information Modeling course. (2 lec, 2 lab)

CAD 132 Solid Modeling I 3 Credits

Promotes essential skills by introducing students to the concepts, commands, and techniques of Autodesk Inventor. Students will create and document designs by creating parametric sketches, constraints, 3D parametric parts, assemblies and working drawings. (2 lec, 2 lab) **Prerequisite: CAD 105 with a grade of C or better**

CAD 203 3D Civil CADD 3 Credits

Covers 3D techniques and operations using Autodesk software, including wireframes, surfaces, solid models, full 3D design, shading, materials, cameras, lights, photo-realistic imaging and basic animation. Students will also have the opportunity to generate output through 2D and 3D printed materials. (2 lec, 2 lab) **Prerequisites: CAD 102 with a grade of C or better**

CAD 222 Building Information Modeling

3 Credits

Students will learn to communicate using graphic information as a means of a language through industry standard drawings. Students will learn about commercial construction by understanding the site, structural, and architectural elements of building construction. Drawings will be developed for proposals, interviews, conceptual and schematic design, and formal documentation. This class will introduce students to a higher level of cognitive

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skill by drawing on previous classes and experience. (2 lec, 2 lab) **Prerequisite: CAD 102** with a grade of C or better

CAD 229 Career Experience Lab

4 Credits

Provides the student with the employment experience that is typical for the CADD technician in the industry. It is designed to present the understanding of what working in a drafting/design office would entail. Collaborative projects with local firms, government, utilities, or other employers ensure a significant experience. (1 lec, 6 lab) **Prerequisite: CAD 222 with a grade of C or better**

CAD 234 Visualization for Architecture, Engineering & Construction

3 Credits

Students will use AutoCAD and 3D Studio VIZ to create advanced 3D models. Students will use the software to create still images and animations for visualization of models. Using digital photography, students will combine models with real world images. Additional software will be used when necessary. (2 lec, 2 lab) **Prerequisite: CAD 203 with a grade of C or better**

CET 100 Introduction to Civil Engineering

1 Credit

Provides an introductory study of the civil engineering technology. Topics include the Civil Engineering Technology Program, project life cycle, estimating, scheduling, design, contacting, and ethics. (1 lec)

CET 101 Plane Surveying

3 Credits

Studies surveying instruments and their use in the measurement of angles, distances, and elevations. Also includes mathematics, computational methods, adjustments and measurement analysis used in plane surveying. (2 lec, 2 lab) **Pre or Co-requisite: MAT 120 or MAT 123**

CET 110 Materials 3 Credits

Studies the structure, properties, and testing of engineering materials and their use in constructed facilities. Includes metals, woods, concrete, bituminous mixtures, plastics, insulation, adhesives and corrosion of materials. Engineering design is introduced by readings and discussions on creativity, the design process and the concepts of marginal economic analysis, probability of failure and safety factors. Design problems include design of concrete mixtures and insulating systems to satisfy specific realistic situations taking into account uncertainty, safety, economic factors and intangibles, as well as technical considerations. (3 lec, 0 lab) **Pre- or Co-requisite: MAT 119 or MAT 123**

CET 111 Materials Laboratory

1 Credit

Evaluates material performance under applied loads for engineering applications. Physical properties of concrete, metals, plastics, and wood. Exercises include study of the variability of materials, construction of probability density functions from test data and computation of the probability of failure (2 lab) Pre- or Co-requisite: CET 110

CET 121 Civil CADD 3 Credits

Introduces Computer Aided Drafting and Design through the use of Autodesk Land Desktop and Civil Design. Basic AutoCAD commands are studied such as those used in drawing, editing, viewing, and dimensioning. Other topics include paper space, xrefs, attributes, projects, and project point databases. Instruction includes lecture, hands-on exercises and drawing problems. (2 lec, 2 lab)

CET 124 Construction Estimating

3 Credits

3 Credits

Introduces the estimating and bidding processes for construction projects. Topics include cost estimating for residential, commercial, highway and industrial construction projects. Manual, computer assisted and estimating software is utilized to prepare construction cost estimates, bids and project budgets. (3 lec) **Prerequisite: CET110**; or permission.

CET 201 Cooperative Education for Civil Engineering Technology

Provides the student with work experience in civil engineering areas such as construction, materials testing, and/or transportation. Following the second semester, students work from mid-May to November 1 in a full-time salaried position with participating civil engineering firms. CET faculty assist and maintain contact with the student and employer during the co-op period. At the end of the co-op period, the employer evaluates the student's professional development based on their work assignment. (An abbreviated third semester of CET courses follows the co-op period, running from November 1 to the end of the fall semester.) **Prerequisites: CET 101, CET 110, CET 111, CET 121, and CET 214; or permission.**

CET 202 Construction Surveying

3 Credits

Studies surveying procedures in construction. Includes volume computations, stakeout, grade, layout site mapping, profile, and cross-sections. (1 lec, 4 lab) **Pre or Co-requisite: CET 101**

CET 211 Statics and Strength of Materials

4 Credits

Considers analytical solutions of force systems. Load, shear, moment and deflection values are solved for in beams, trusses, and frames under static loading. Study of stresses and strains that occur as structural members are subjected to shearing, tensile, compressive and flexural forces. (3 lec, 2 lab) **Prerequisite: CET 110 and MAT 120 or MAT 123.**

CET 212 Structural Design

4 Credits

Studies the design of wood beams and columns, steel beams, columns and tension members, and reinforced concrete beams. Covers building code requirements for loads including dead, live, snow, wind and earthquake. (3 lec, 2 lab) **Prerequisite: CET 211**

CET 214 Soils Mechanics 4 Credits

Introduces the physical properties of soil important to the construction industry. Includes standard ASTM tests, classification systems, drainage, frost action, slope stability, and shallow foundations. (3 lec, 2 lab) **Pre or Co-requisite: MAT 120 or MAT 123**

CET 221 3D Civil CADD 3 Credits

The student will be introduced to Computer Aided Drafting and Design through the use of Autodesk Civil 3D. Students will use the program to create detailed civil drafting and mapping documents. Topics to be covered are point and line creation, surface creation, parcels, alignments, profile views and profiles, assemblies and corridors, cross-sections and volumes, cut and fill, and pipe networks. (2 lec, 2 lab) **Prerequisite: CAD 101**

CHE 100 Chemistry for Everyday Living

4 Credits

Introduces, non-mathematically, the basic principles of chemistry, with an emphasis on relevance to everyday life. Topics will include alternative energy sources such as nuclear chemistry, air and water pollution, consumer products, plastics, and synthetic fibers. Laboratory correlates with lecture material. Designed for non-science majors. (3 lec, 2 lab) Prerequisite: H.S. Algebra I or equivalent, or Co-requisite: LAM 009

CHE 103 Chemistry for Emergency Responders

3 Credits

This survey, non-laboratory class, is designed to acquaint students with the broad principles of chemistry as they relate to hazards in the emergency response field. This survey includes basic chemistry terminology, structure of matter, atomic bonding, molecular theory of matter, chemical and physical change, and the general states of matter (gases, liquids and solids). Discussion of more common elements, compounds they form, and the resulting hazards completes this course. (3 lec, 0 lab)

CHE 113 Chemistry I 3 Credits

Designed for science and pre-professional students, this course is the first part of general chemistry. Problem solving skills are emphasized, and topics include: matter and energy; method of measurement; principles of chemical reactivity; stoichiometry; energy and chemical reactions; periodicity of elements; atomic and molecular structures; chemical bonding; molecular orbital theory; electrolytes; environmental and nuclear chemistry. (3 lec, 0 lab) Prerequisite: High School Algebra II and HS Chemistry or equivalents. Corequisite: CHE 115

CHE 114 General Chemistry II

3 Credits

Introduces organic chemistry and biochemistry. Emphasis is on functional groups and reactions, with the latter part of the semester devoted to applications in biological organisms. (3 lec, 0 lab) Prerequisites: CHE 113 and CHE 115 with a grade of C or better in each. Co-requisite: CHE 116

CHE 115 Chemistry I Laboratory

1 Credit

Applies concepts appropriate to CHE 113, Chemistry I, with emphasis on safety and record keeping, and the acquisition of basic experimental skills, techniques, and concepts in chemistry. Coordinated to the topics discussed in lecture. (0 lec, 2 lab) Co-requisite: CHE 113

CHE 116 Chemistry II Laboratory

1 Credit

Applies concepts appropriate to **CHE114, Chemistry II**, including organic separations, functional group tests, and synthesis and analysis of organic compounds. (0 lec, 2 lab) **Corequisite: CHE 114**

CRJ 101 Introduction to Criminal Justice

3 Credits

Exposes students to a survey of core actors and institutions within the field of Criminal Justice. Specifically, the functions and responsibilities of policing, the courts, and corrections will be reviewed to provide a foundational understanding of contemporary law enforcement, jurisprudence, and punishment. The processes which underlie the justice system are reviewed in their proper sequence to trace the movement of a criminal defendant from the commission of a crime through arrest, adjudication, punishment and release. (3 lec., 0 lab)

CRJ 113 Criminology 3 Credits

Introduces the use of criminological theory as a framing device for measurement, classification, and meaningful analysis of crime and criminality. Perspectives including classical, positivist, biological, psychological, social structural, social process, and social conflict are analyzed in turn to reveal the theoretical underpinnings of crime from a myriad of vantage points. These are used to evaluate the ways in which developmental, psychological, and environmental factors may combine to encourage, facilitate, or promote criminality. Additionally, the role of victims is explored to understand the experience of victimization and issues related to it, e.g. precipitation and target hardening. (3 lec, 0 lab) **Prerequisite: CRJ 101 with grade of C or higher**

CRJ 121 Criminal Law 3 Credits

Provides students with a functional understanding of the ways in which criminal laws act to proscribe conduct that undermines social order in a constitutional democracy. Students will examine the necessary component parts of a crime, i.e. mens rea and actus reus, and the complex interrelationships between those elements. Liability thresholds for criminal acts will be explored as well as the possible exceptions to criminal liability in the form of affirmative defenses. (3 lec, 0 lab) **Prerequisites: CRJ 101 with grade of C or higher.**

CRJ 131 Police Operations

3 Credits

Reviews the roles and responsibilities of policing agents in the performance of their varied crime prevention and response duties. It examines specific aspects of daily operation responsibilities such as traffic control, routine patrol, interviewing, report writing, and testifying. Students will gain insight to the reciprocal relationships between patrol and the command structures which oversee them. Additionally, the bases for legal authority and constitutional action are addressed in the context of officer safety and professional liability. (3 lec, 0 lab) **Prerequisite: CRJ 101 with grade of C or higher.**

CRJ 201 Ethics for the CJ Practitioner

3 Credits

Provides an examination of human morality and its utility in for practitioners in the criminal justice system. It addresses the relationship between introspective, critical analysis of self and the use of self-awareness in the development of moral reasoning. Further, students will explore the relationship between personal, social, and professional definitions of ethical conduct. In respect to the latter, the unique demands confronting police, court, and corrections officers are examined in light of profession-specific dilemmas in the field. The necessity of maintaining ethical identity and understanding

the consequences for failure to behave accordingly are underscored. **Prerequisites: CRJ** 101 and CRJ 242 with grades of C or higher.

CRJ 205 Criminal Investigations

3 Credits

Introduces the foundational elements of criminal investigation of violent, property, public order, and other misdemeanor and felony offenses. Students will be exposed to the techniques for approaching, preserving, and collecting evidence and establish a chain of custody in emphasized, especially as relates to the necessity of documenting investigative activity. The role of interviewing and interrogation as investigatory assets is also examined to establish the importance of communication with suspects.

CRJ 221 American Corrections

3 Credits

Reviews and situates the contemporary philosophical and practical applications of corrections against a historical landscape of punishment for unlawful conduct. A survey of current practices in institutional and community corrections will give students an opportunity to understand the roles and responsibilities of probation, parole, and correctional officers as they fulfill the obligations of their professions. Students will also explore the parallel adult and juvenile justice systems to determine points of intersection as well as the gross differences between them in philosophy and practice. **Prerequisites: CRJ 101 with grade of C or higher.**

CRI 226 Criminalistics 3 Credits

Serves as an introduction to the application of scientific methods to the collection and analysis of evidence for forensic purposes. The roles and responsibilities of evidence collection specialists and forensic scientists are presented to establish their importance in the process of investigation and adjudication of criminal acts. Students will be exposed to the techniques for analyzing various types of physical evidence, latent and otherwise, as well as the need for documenting and testifying to these activities. **Prerequisites: CRJ 101, CRJ 131, and CRJ 205 with grades of C or higher.**

CRJ 232 Report Writing and Testifying

3 Credits

Develops the ability to generate written reports within the justice professions. It focuses on the importance of grammatically and syntactically fluid documentation that translates professional activity into an objective representation of relevant fact patterns. Specifically, students will be exposed to the various types of commonly used reports, memoranda, and other types of documents required in professional law enforcement. The translation of written reports into testimony is also underscored, with a particular emphasis placed on courtroom demands such as etiquette, attire, and preparation for examination and cross-examination.

CRJ 242 Criminal Procedure

3 Credits

Introduces and examines the underpinnings of procedural law and its relationship to the activities of justice practitioners in policing, courts, and correctional settings. It will examine the relationship between procedure and practice for justice professionals, especially as it relates to administrative and judicial dictates that frame constitutional action. The parameters and guidelines for actions such as arrest, search and seizure, stop and frisk, custodial interrogation conducted by a police officer are examined. The various

aspects of pre-trial and trial process are analyzed in respect to procedural expectations concerning issues related to admissibility of evidence, fair and speedy trials, and the basis for appeals. Finally, the rights of prisoners and those in post-sentence custody are evaluated in light of constitutional requirements.

CRJ 291 Topics in Criminal Justice

3 Credits

Focuses on a different topic in criminal justice each time it is offered and may be taken more than once for credit. Topics will be determined by the department.

CST 101 Introduction to College Learning

1 Credit

Provides the student with skills and knowledge necessary for a successful community college experience. Among the topics discussed are: college culture, time management, stress management, study skills, note-taking, test taking, GPA, learning styles, teaching styles, careers, and EMCC structure. (2 weeks: 7.5 lec/discussion per week)

CST 103 Introduction to Computer Systems

3 Credits

Introduces students to computers, networks, and information fluency. Basic computer and workplace skills are addressed with emphasis on applications of the computer as a medium for representing, storing, manipulating, and communicating different forms of information. The processing and storage of audio, video, text, and various media forms will be studied. An introduction to office applications is included and students will use various software packages to create documents, spreadsheets, graphs, databases and presentations (2 lec, 2 lab)

CST 123 PC Hardware and Operating Systems

3 Credits

Covers the functional components of the personal computer (PC) and its common peripherals, and an introduction to the Windows operating system. Hardware topics include the microprocessor, power supplies, bus structure, interrupts, DMA, memory, storage devices, serial and parallel port technologies, video displays, and modems. The laboratory component of this course is geared toward increasing student proficiency in setting up and servicing PC hardware and operating systems through the use of hands-on exercises. Diagnostic tools and troubleshooting techniques are emphasized throughout. This course leads to the taking of the CompTIA A+ certification exam. (2 lec, 2 lab)

CST 124 An Introduction to Linux

3 Credits

Provides students with a comprehensive overview of the Linux operating system in a personal computer environment. Topics include Linux shells and shell commands, the structure of the Linux file system, text editors, managing files and directories, file system administration, command input and output redirection and piping, shell scripting, and process management. (8 weeks. 6 lec, 1.5 lab) **Prerequisite: Admission to CST, CRT, or permission.**

CST 143 Web Applications and Development

3 Credits

A practical hands-on introduction to the design and development of a Web site, this course introduces students with little or no experience in Web scripting to the concepts, syntax, and structure of xhtml. The course will also include an introduction to Cascading

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Style Sheets (CSS), an important presentation initiative, and Universal Design, the process of incorporating accessible design features into Web pages.

CST 161 A+ Certification for Healthcare IT

4 Credits

Covers the fundamentals of personal computer hardware and operating systems by using the CompTIA A+ exam objectives as the framework. Hardware topics include the microprocessor, power supplies, bus structure, interrupts, DMA, memory, storage devices, serial and parallel port technologies, video displays, and modems. The laboratory component of this course is geared toward increasing student proficiency in setting up and servicing PC hardware and operating systems through the use of hands-on exercises. Diagnostic tools and troubleshooting techniques are emphasized throughout the course. (3.5 lec, 4 lab) **Prerequisite: Admission to HIT or permission.**

CST 162 Net+ Certification

4 Credits

Provides students with the knowledge to become industry-certified as a network technician. Prepares the student for two different industry certifications: Network Pro certification and Net+ certification. Designed to help students gain real-world skills that they will use every day on-the-job as a network technician. (3.5 lec, 4 lab) **Prerequisite:** Admission to HIT or permission.

CST 163 Computer Applications for IT

4 Credits

Introduces and provides basic practice in the four most commonly used computer applications in healthcare: word processing, spreadsheet, database, and presentation. Emphasis is placed on the utilization of these programs by healthcare professionals in a healthcare environment. (3.5 lec, 4 lab) **Prerequisite: Admission to HIT or permission.**

CST 164 Healthcare IT Certification

4 Credits

Covers the fundamentals of healthcare IT (HIT) by using the CompTIA Healthcare IT Technician (HIT-001) exam objectives as the framework. An in-depth and comprehensive view of HIT is provided by examining healthcare regulatory requirements and the functions of a healthcare organization, including its medical business operations, IT hardware, software, networking, and security. Students will be provided the foundation necessary to help prepare them for the CompTIA HIT certification exam. (3.5 lec, 4 lab) **Prerequisite: Admission to HIT or permission.**

CST 203 Systems Analysis and Design

3 Credits

Pending Approval

CST 205 Network Architecture

3 Credits

Pending Approval

CST 211 Network Architecture I

3 Credits

This course is a theory course in networking technologies and their implementation. Topics include the OSI reference model, network protocols, transmission media, topologies, access methods, and networking hardware and software. (5 weeks. 5 lec, 10 lab) **Prerequisites: All first-year CST courses or permission.**

CST 212 Network Architecture II

3 Credits

Continues CST211, Network Architecture I, extends the student's knowledge and practical experience with Wide Area Networks (WANs), Integrated Services Data Networks (ISDN), ATM and Point-to-Point Protocols (PPP) and Frame Relay design, configuration and maintenance, with special emphasis on design techniques and network analysis. (5 weeks. 5 lec, 10 lab) **Prerequisite: CST 211**

CST 221 Network Security

3 Credits

Studies the fundamentals and implementation of network security including secure access methods and vulnerabilities in network protocols, operating systems, and network applications. (5 weeks. 5 lec, 10 lab) **Prerequisites:** All first year CST courses or permission.

CST 226 Wireless Networking

3 Credits

Covers both theoretical issues related to wireless networking and practical systems for both wireless data networks and cellular wireless telecommunication systems. Students will also work on a project that addresses some recent research issues in wireless and mobile networking. (5 weeks. 5 lec, 15 lab) **Prequisite: CST 212 or permission.**

CST 232 Server Operating Systems

3 Credits

Introduces students to server operating systems. The basics of server operating systems will be presented, including installation and configuration, client management, configuring and managing print services, managing data storage, managing network services, and creating a reliable server environment. (5 weeks. 10 lec, 5 lab) **Prerequisite: CST 212**

CST 246 Virtualized Computer Systems

3 Credits

Introduces students to techniques necessary to make virtualization work in enterprise environments. Students will be exposed to the preplanning needed to implement virtualization, how to transition from a physical to a virtual environment, virtual management, how to automate basic management tasks, and the role virtualization plays in networking and storage. (5 weeks. 10 lec, 5 lab) **Prerequisite: CST 212, or permission.**

CST 248 Capstone 1 Credit

Serves as the capstone course for all computer networking students and will integrate all of the networking skills acquired throughout the computer networking degree program. In this course, students will design, develop and implement a network in a simulated or real-world environment. (15 weeks. 1 lec, 0 lab) Prerequisites: All Computer Systems Technology courses except those scheduled during the fourth semester; Co-requisites: CST 221, CST 224 and CST 246

CUL 112 Culinary Skills Development

3 Credits

Engages students in discussion of such culinary topics as menu development, tool and equipment identification and familiarization, and the history of professional cooking. Students will compose a professional portfolio, which can be helpful in garnering an externship of their choice. Other course projects include the development of menus and recipes, including equivalents, conversions, and food costing. (3 lecture hours weekly)

CUL 124 Culinary Arts I

6 Credits

Focuses on the development of the fundamental skills necessary to work successfully in a professional kitchen. Product and equipment identification and usage is practiced and discussed. Areas of concentration include cold foods, stocks, soups and sauces, basic cooking methods, and an introduction to basic bread and dessert making. Students will compose a professional portfolio, practice basic foodservice mathematics, and practice menu balance and development. (2 lecture hours, 10 kitchen hours weekly) **Pre- or Corequisites: CUL 112. CUL 131**

CUL 125 Culinary Arts II

6 Credits

Builds upon the components introduced in Culinary Arts I. Students develop and practice more advanced techniques of professional cooking and plating styles. American Regional Cuisine will be studied and practiced throughout the semester. Catering and healthy cuisine will be an integral part of the course. Students will participate in the execution of special events, as well as selected in-house competitions. (2 lecture hours, 10 kitchen hours weekly) **Prerequisites: CUL 112, CUL 124, CUL 131**

CUL 131 Culinary Sanitation and Theory

3 Credits

Addresses the principles of food microbiology, important foodborne diseases, standards that are enforced by regulatory agencies and applied measures for the prevention of foodborne diseases and other microbiological problems. HACCP systems will be discussed. Upon successful completion of a comprehensive exam, students will be ServSafe certified by the Educational Foundation of the National Restaurant Association. (3 lecture hours weekly)

CUL 141 Food Service Management

3 Credits

Explores the basic principles of food service management by defining basic technical skills in the areas of organizing, directing, staffing, menu planning and pricing. This course provides a foundation of knowledge and attitudes required for effective kitchen management. Upon successful completion of a final exam, students will be awarded a certificate by the nationally recognized Educational Institute of the American Hotel and Lodging Association. (3 lecture hours weekly)

CUL 214 Advanced Culinary Skills

3 Credits

Develops both advanced culinary knowledge and technique. Advanced garde manger production, mixology and alcohol awareness, as well as the selection and service of wines are part of this course. Guest demonstrations, lectures and practice in specialized areas of culinary arts such as ice sculpting and tallow are examples of the specialty areas both discussed and practiced. Students will be introduced to the food service industry as well as related industries in a more global realm. (.5 lecture hours, 2.5 kitchen hours weekly) Prerequisites: CUL 112, CUL 124, CUL 125, CUL 131, CUL 141, CUL 215; Co-Requisite: CUL 262

CUL 215 Culinary Externship

3 Credits

A 240-hour paid externship begins after the completion of the first academic year. Students explore a variety of career paths while working in the field. Students will find their own externship employment subject to approval by the instructor. A portfolio will

be required to fulfill the academic requirements of this course. (240 working hours for the course) **Prerequisites: CUL 125, CUL 141**

CUL 218 Classical European Pastry Arts

3 Credits

Students prepare classical European pastry items. Fundamental as well as specialized technique will be practiced and reinforced through lecture, demonstration and practice. Students will prepare a wide variety of desserts including old world and new world examples. (1 lecture hour, 5 kitchen hours weekly) **Prerequisites: CUL 125, CUL 215**

CUL 230 Regional Italian Cuisine

3 Credits

From Piedmont in the north to Sicily in the far south, no one area of the world encapsulates quite as much diversity in food styles as Italy. In this advanced culinary course, students are introduced to the culture, cuisine and unique methods of food preparation that make Italian cuisine one of the most popular in the world. Students will prepare and sample foods that range from the well-known to the somewhat exotic. Italian emphasis on freshness, quality, and health benefits of the Mediterranean diet will be emphasized throughout the course. (.5 lecture hours, 2.5 kitchen hours weekly) Prerequisite: Instructor permission.

CUL 262 Classical French Cuisine

5 Credits

Introduces students to the cuisine and culture of the classical and provincial regions of France. Students learn French cooking methods, theory, and culinary terminology. Students work in the traditional team systems that French table service dictates. Tableside cookery will be discussed and practiced throughout the semester. Practical experience will be gained through the operation of the college's in-house restaurant. Kitchen and dining room management skills will be presented and practiced daily. (1 lecture hour, 13 kitchen hours weekly) Prerequisites: CUL 112, CUL 124, CUL 125, CUL 131. CUL 141. CUL 215.

CUL 264 International Cuisine

5 Credits

Offers students a culinary adventure that may include classical cuisines of Italy, Greece, Austria, and Spain. Other cuisines might include Thailand, China, the Caribbean and more. Students are exposed to the techniques involved in the preparation of items such as tapas, osso bucco, and pad Thai. Students research a selected area of foreign cuisine. Practical experience will be gained through the operation of the college's in-house restaurant. The 'front-of the-house' facet will allow students to expand upon service methods and dining room management skills learned in prior courses. Additional kitchen management procedures will be discussed and practiced as well including inventory management, facilities management, and food ordering. (1 lecture, 13 kitchen hours weekly) **Prerequisite: CUL 262**

DGD 101 Introduction to Digital Photography

3 Credits

This course provides an overview of composing and processing digital images. It introduces various photographic techniques and standards involving the use of current technology digital cameras. Also covered is History of Photography through studying individual photographers and their work. (2 lec, 2 lab)

DGD 113 Introduction to Photoshop

3 Credits

Designed to give students the acquisition of skills necessary to help build a basic foundation in digital image correction and manipulation. Upon completion of this course, students will be able to use Photoshop as necessary for commercial graphic art. Students will create, manipulate, edit, and enhance digital imagery. The student will be required to solve problems on their own, using textbooks and reference material. (2 lec, 2 lab)

DGD 114 Photoshop for Photographers

3 Credits

Explores the techniques and applications of acquiring, manipulating and producing digital photographic images using Adobe Photoshop. Technical skills for digital photography will be covered including post-image capture processing,

photo manipulation, basic color management, photo restoration, and photographic printing. (2 lec, 2 lab) **Prerequisite: DGD 101**

DGD 120 Digital Illustration

3 Credits

This course will cover digital illustration methods through the application of twodimensional vector and pixel-oriented imagery (raster). Students will acquire hands-on experience with vector illustration, focusing on but not limited to, the pen tool, direction selection tool, gradients, masking, filters/effects, transparencies and pathfinder. Finetuning anchor points, shapes and Bezier handles along with color theory will be addressed. This course uses the Current Version of Adobe Illustrator. (2 lec, 2 lab)

DGD 131 Introduction to Page Layout & Design

3 Credits

Covers understanding page design using graphic design applications. Adobe In-Design software will be used to design publications, posters and promotional materials. Layout software, terminology, procedures and symbols will be used to complete and critique relevant problems in page design. Development of critical thinking skills and analysis, as they apply to graphic design will be emphasized. Introduction to Page Layout will also cover an historic overview of print processes and the evolution to current technology. (2 lec, 2 lab)

DGD 201 Graphic Web Design

3 Credits

Presents the principles for planning, designing and executing attractive yet informative web pages and web sites. This course explores factors that affect web layout and design such as browser choice, screen-resolution, navigation, connection speed, typography, graphics and color as well as incorporating these elements into the fundamentals of building a web site. The current versions of Adobe InDesign is used in this course. (2 lec, 2 lab) Prerequisite: ART 112

DGD 221 Introduction to Typography

3 Credits

Course covers understanding type in graphic design applications. Students will use type as a design element in publications, posters and promotional materials. Typographic terminology and proofreading procedures and symbols will be used to evaluate, complete and discuss relevant problems in typography. Development of critical thinking skills as they apply to typography in graphic design will be emphasized. The course will also cover an historic overview of typography and the evolution to current technology. (2 lec, 2 lab)

Prerequisites: ART 112, DGD 220 or DGD 131

DGD 222 3D Modeling and Animation

3 Credits

This course will provide the student with the tools and techniques of the industry leading software 3Ds MAX. Students will develop a firm foundation of the software by working on instructor-led projects throughout the semester. The main skills the student will acquire during this course will be creating models, creating materials, creating lighting, creating renderings, creating animations, and creating outputs. (2 lec, 2 lab) **Prerequisite: DGD 113**

DGD 230 Professional Business Practices

4 Credits

This course provides the student with the employment experience that is typical for the Digital Graphic Design industry. It is designed to present the understanding of what working in a design office would entail. Collaborative projects (when available) with local firms, government, utilities, or other employers ensure a significant work experience. This class will also give the student the opportunity to develop a portfolio for job interviews, or application to other institutions of learning. The student will be required to meet with the instructor on a weekly basis to discuss the status of the portfolio and to go over new assignments for supplementing the portfolio. The student will be using various software in the development of the portfolio. (0 lec, 6 lab) **Prerequisites: ART 112, DGD 121**

DGD 231 Printing and Publishing

3 Credits

This course examines current printing and digital output technologies used in commercial Graphic Art. This class will cover the History of Offset Lithography through current printing technologies and media (paper) as well as web and tablet/mobile device based publishing. (2 lec, 2 lab) **Prerequisites: ART 112, DGD 131**

DGD 232 Advanced Digital Graphics

3 Credits

This course will introduce students to advanced topic in Digital Graphic Design through the use of various software and hardware. This class will focus on the main graphic principles of components, composition, and concepts. Students will be encouraged to solve problems on their own as well as in teams. Students will learn the digital graphics work flow, utilizing the 3C principles and the appropriate software and hardware. (2 lec, 2 lab) **Prerequisites: ART 112, DGD 201**

DTG 121 Architectural Drafting I

3 Credits

Introduces the equipment and procedures used in board drafting, as well as an introduction to print reading. Emphasis is placed on residential construction. Areas to be covered include site plans, foundation plans, floor plans, elevations, cross-sections, and kitchen layouts. (2 lec, 2 lab)

DTG 123 Drafting for Cabinetmaking I

3 Credits

Introduces the equipment and procedures used in board drafting, as well as an introduction to print reading. Emphasis is placed on design and drafting for cabinetry and fine furniture using industry standards. Areas to be covered will be use of manual drafting equipment, sketching, lettering, line techniques, orthographic drawing, isometric drawing, auxiliary views, and dimensioning. At the end of the course the student will be able to produce a set of drawings showing all views and detail views needed in order for a woodworker to produce the drawn product. (Pending approval)

DTG 124 Architectural Drafting II

3 Credits

A continuation of DTG 121 Architectural Drafting I with the reading of blueprints and drafting for residential homes. Other areas covered will be site plans. Additional attention will be given to the reading ad drafting of commercial drawing and heavy timber frame construction. (2 lec, 2 lab).

DTG 125 Drafting for Cabinetmaking II

3 Credits

Designed for students that are new to AutoCAD and introduces them to basic concepts of creating mechanical and architectural drawings using this software package. Assignments will be introduced that include coordinate systems, creating geometric shapes, editing object elements, modifying existing objects, working with layers, adding text to drawings, dimensioning, creating layouts and view ports, managing object visibility in selected view ports, and plotting drawings using external output devices. This course also places a strong emphasis on working from written specifications. (Pending approval)

DTG 223 Architectural Drafting III

3 Credits

Introduces computer aided drafting. Students are introduced to basic drawings and editing commands using industry standard AutoCAD software. Methods and techniques used in DTG124 are encouraged through hands-on exercises and drawing problems. (2 lec, 2 lab) **Prerequisite: DTG124**

DTG 225 Drafting for Cabinetmaking III

3 Credits

This class is designed to be an introduction to feature based parametric modeling for woodworking. We will use Autodesk Inventor software to execute models that meet specific design requirements. Sometimes referred to as dimension driven modeling, we will cover conceptual and practical aspects of this CADD software. We will cover piece design, and assembly design and generate drawings from these examples (orthographic projection, isometrics, dimensioning, detail, auxiliary views, sectional views, exploded views and assembly drawings). Working from simple component design through complex assembly modeling we utilize the design process as it applies to function driven problem solving. Students will be asked to do research and come up with individual designs as part of this problem solving. Students will also be directly involved in CNC production of designed parts.

DTG291 Special Topics in Computer Aided Drafting

3 Credits

Focuses on a different topic each time it is offered. Can be taken more than once.

ECE 110 Child and Adolescent Development

3 Credits

Studies stages of development from prenatal periods through adolescence. Theories of child development and the learning process will be introduced. The effects of environment and the adult's role in supporting development and learning will be explored. Physical, cognitive, and social/emotional domains of development will be emphasized. (15-week course; 3 lec) ECE students must achieve a grade of C or better to pass the course.

ECE 116 Early Literacy Development

3 Credits

Presents children's literature from the perspective of language development. Examines various forms of literacy and offers methods for choosing appropriate literacy experiences for young children. (3 lec) **Co-requisite: ECE 110 or permission.**

ECE 117 Observing and Recording in the Field

3 Credits

Explores methods of observing, recording, and assessing children's development and learning. Skills acquired as a result of this course will provide the students with the needed information to assess development and plan activities and experiences to individualize learning. Legal and ethical practices and confidentiality issues will also be discussed. (2 lec, 1 practicum). A grade of C or better must be achieved to pass. Open only to students enrolled in the Education Track programs. Prerequisite: ECE 110 or permission.

ECE 127 Cognitive and Affective Development

3 Credits

Theoretical aspects of cognitive and affective development will be studied with regard to the whole child. Experiences that promote learning, social relationships, self-awareness and moral development will be explored. (3 lec) **Prerequisite: ECE 110 or permission.**

ECE 131 Infant/Toddler Curriculum

3 Credits

Explores infant and toddler curriculum frameworks and methods. Students will review growth and development of these two age groups with special emphasis placed on the importance of relationships and bonding with caregivers. Planning developmentally appropriate curriculum that makes use of effective healthy and safe routines and environments will be taught. Students will practice writing learning experience plans (individual and group) based on state standards. How to support and partner with parents will be stressed in this course. (3 lec) **Prerequisite: ECE 110 or permission.**

ECE 216 Survey of Exceptionalities

3 Credits

Studies individuals with exceptionalities, birth to age 21. Laws that impact persons with exceptionalities are reviewed. The process of screening, pre-referral and referral are discussed. Each category of exceptionalities, as defined by IDEA, is overviewed with an emphasis on identification, understanding of basic features and appropriate accommodations. Inclusionary and family-centered practices are emphasized. (3 lec.) **Prerequisite: ECE 110 or permission.**

ECE 220 Numeracy, Environments and Integrated Curriculum for Young Children 3 Credits

Teaches design of developmentally appropriate curriculum for young children from birth to age eight. Emphasis is on the various content areas and how to plan appropriate programs and environments such as learning centers, play areas, and outdoor spaces. Students will develop an understanding and awareness of planning and designing programs that embrace diversity. An overview of various curriculum models will be introduced. (3 lec) **Prerequisite: ECE 110, or permission.**

ECE 221 STEM Curriculum for Young Children

3 Credits

Explores developmentally and individually appropriate curriculum using a frame-work that includes the philosophy, goals and objectives, physical environment, teacher's role and parent's role in designing curriculum for young children birth to eight years. Students

will explore various methods and techniques for supporting development and learning for children with exceptionalities. Specific early childhood curriculum models will be reviewed in depth and compared to other curriculum models. (3 lec) **Prerequisite: ECE 220 or permission.**

ECE 229 Early Childhood Professions

3 Credits

Overviews the early childhood profession and the components necessary to begin and run an early care and education program. The following topics are included: mission statements, program development, professional development, financial issues in early childhood, component management, parent communication and community relations. Emphasis is on operating quality programs and effective supervision. (3 lec) **Prerequisite: ECE 117 or permission.**

ECE 232 Field Placement II

4 Credits

Expands on the competencies acquired in ECE 117, Observing and Recording in the Field, by allowing students to further develop skills and strategies to effectively plan and implement developmentally appropriate experiences for young children in an approved early childhood environment. Experiences will provide an opportunity for students to assume increased responsibility for supporting children's development in all domains. (2 lec, 2 practicum). Must have a grade of C or better to pass this course. Open only to matriculated students in ECE. Prerequisite: ECE 117

ECE 233 Field Placement III

6 Credits

Expands on the competencies acquired in ECE 232, Field Placement II, by focusing on the skills needed to work as part of a teaching team and transform knowledge of child development into developmentally appropriate curriculum planning. Opportunities to gain experiences by communicating effectively with parents, staff and children in an approved early childhood environment will be provided. Increased responsibility for all aspects of teaching and leading children including handling transitions, behavior management and planning curriculum will be emphasized. (2 lec, 4 practicum) *Must have a grade of C or better to pass this course. Open only to matriculated students in ECE.* **Prerequisite: ECE 232**

ECO 200 Money and Life

3 Credits

Introduces economic thinking by revisiting the historical causes for today's predominant economic structure: market-based society. Starting with Greek and Roman social conditions and moving on through the Dark Ages and the Renaissance, into the Industrial Revolution and Great Depression, and beyond the post-WWII expansion and into the Information Age, students connect historical events with economic thinking and theories. (3 lec)

ECO 221 Introduction to Microeconomics

3 Credits

Course provides an overview of the principles of microeconomics and their use in understanding, critique, and analysis of economic issues. Topics emphasized include the economic decision-making of individuals and firms; markets and the price mechanism; market structures; uncertainty, control of resources, and income; market failures; and the role of government in markets. (3 lec)

ECO 222 Introduction to Macroeconomics

3 Credits

Course provides an overview of the principles of macroeconomics and their use in understanding, critique, and analysis of economic issues. Topics emphasized include the international trade, aggregate supply and demand, national income and accounting, the overall functioning of an economy, the monetary system, unemployment, inflation, monetary and fiscal policy, and government intervention in the economy, as well as numerous contemporary economic issues. (3 lec.)

EDB 101 Introduction to Career and Technical Education (CTE) 3 Credits

Provides the new professional Career and Technical Education (CTE) teacher the necessary skills to successfully navigate the first year of teaching at a CTE school. Classroom/lab management, safety, unit and lesson plans, basic school regulations and law, assessment strategies and current CTE topics will be introduced. Instructors will model various teaching styles and strategies and engage students in relevant activities to build confidence and knowledge for a successful first year teaching experience. Additional course work and professional development will be strongly encouraged. (3 lec, 0 lab) **Prerequisite: Must be a first year CTE instructor.**

EDB 112 Classroom/Lab Management and Safety for CTE 3 Credits

Provides the Career and Technical Education (CTE) teacher a broad overview of Classroom Management and Shop Safety as it pertains to teaching and learning. Discussion topics and investigations include: Philosophy & Purpose of class management and safety; Teacher/Student Roles and Responsibilities; Classroom/Lesson Set-Up; Shop Set-Up; Time Management & Time Efficiencies; Designing Rules & Procedures; Discipline Strategies; Recordkeeping; Shop Safety & Teacher Accountability. The class includes individual and group projects. Each student will also develop a written comprehensive Classroom Management & Shop Safety Plan for their content area based on industry standards and the research, writing, and various projects completed in this class. **Prerequisite: EDB 101 or permission.**

EDB 115 Development and Guidance of Behavior

3 Credits

Reviews the social and emotional development of school age children and the principles for understanding and guiding behavior. Dealing with challenging behaviors will be explored. Topics will include proactive positive behavior management, functional behavior assessment, and the acquisition and support of social skills. (3 lec) **Prerequisites: ECE 110, ECE 117 or permission.**

EDB 117 Working with Students in Language and Literacy

3 Credits

Designed to provide an overview of literacy and language development of school aged children. Topics include assessment of literacy, language development, phonemic awareness, multisensory instruction and guided reading instruction. All aspects of literacy development including listening, speaking, reading and writing will be emphasized. (3 lec) **Prerequisite: ECE 110 or permission.**

EDB 202 Introduction to Education – Schools, Students and Society

3 Credits

This course provides an overview of the field of education in the United States. Identifies the roles and responsibilities of students, schools and society and the relationship to the

educational system. Looks at the various influences that affect education including political, economic, social, academic and ethical. Examines the diverse needs of students and their families while working as part of a collaborative team. (3 lec) **Writing intensive course. Co-requisite: ENG 101.**

EDB 204 The Teaching Process

3 Credits

Examines instructional planning and lesson design, grouping, classroom environment, management strategies and assessment. Reflective practice, responsive teaching and learning will be emphasized. (3 lec) **Co-requisite:** EDB 232

EDB 212 Assessment and Evaluation in CTE Programs

3 Credits

Designed to provide the student a broad overview of assessment and evaluation as it pertains to teaching and learning in a Career and Technical Education Program (CTE). Students will investigate the historical context, philosophy and purpose of assessment and evaluation as it impacts curriculum, design, pedagogy and skill mastery for the student and teacher. Formative and summative assessments, authentic and alternative assessments, rubrics and standards based testing will be covered. Individual projects will be based on the students' own program at the CTE center to develop a competency based profile to match assessments with industry standards and the Common Core of Learning. (3 lec) **Prerequisites: EDB 101 and EDB 202**

EDB 213 Working with Students with Autism

3 Credits

Examines Autism Spectrum Disorder. This history of autism will be reviewed as well as current practices in making appropriate diagnosis of this exceptionality. Strategies for supporting development and learning in all domains will be explored. An emphasis will be placed on social skills and language development. Various educational techniques will be explored. (3 lec) **Prerequisite: ECE 216 or permission.**

EDB 221 Educational Psychology

3 Credits

Studies human development, learning cognition and teaching. An emphasis will be on the theories and research and their application to educational settings. (3 lec) **Prerequisite: PSY 101 or permission.**

EDB 231 Behavioral Health Professional

3 Credits

Designed to give students the competencies to provide in-home services to children and families with developmental disabilities. Principles of behavior, trauma, treatment planning and family functions will be emphasized. Instructional strategies for teaching children behavioral skills and utilizing community resources to assist children and families will be included. First Aid and CPR certificate level instruction is delivered within the course. Students who complete the course with a C or better will earn a Behavioral Health Professional certificate. (3 lec)

EDB 232: Field Experience II

4 Credits

Designed to bridge theory with practice. Students will apply strategies and methods learned in class to the practice of planning for and working with learners in educational settings. Students will work with children of diverse ages, cultures and abilities and begin to develop appropriate learning activities for individual or groups of students. (2 lec, 2

practicum) Must achieve a grade of C or better to continue with Field Placement III. Open only to students matriculated in the Education program. Prerequisite: ECE 117; Corequisite: EDB 204

EDB 233: Field Experience III

5 Credits

Expands on competencies acquired in Field Placement II by allowing students to further develop skills in planning and implementing appropriate educational experiences for individuals. Students will increase their responsibilities for supporting learners in educational settings. Students will practice reflective teaching and focus on becoming an effective team member in the classroom environment. (2 lec, 3 practicum) *Must achieve a grade of C or better to pass this course.* Prerequisite: EDB 232

ELC 100 Introduction to Electricians Technology

3 Credits

Provides an introduction to the expectations and requirements of today's Electrician. Emphasis will be placed on promoting success in the Electrician's Technology program. Career building topics include employability skills, construction basics, safety including the OSHA 10-hour card, orientation to the electrical trade, and communication skills. Technical topics include introduction to DC and AC circuits, Ohm's Law, the power formula, right triangle trigonometry, vector addition, electrical components, and an introduction to the NEC. (3 lec) **Co-requisite: ELC 111**

ELC 111 Basic Electricity I

3 Credits

Studies the principles of direct current electricity, focusing on the theoretical concepts of direct current circuits and instruments as they apply to electrical and electronic components and equipment. (3 lec) **Prerequisite: AR>65; Co-requisite: ELC 100**

ELC 112 Basic Electricity II

3 Credits

Considers the principles of alternating current electricity, focusing on the theoretical concepts of alternating current circuits as they apply to electrical and electronic components and equipment. (3 lec, 3 lab) **Prerequisite: ELC 111 with grade of C or better or permission, Co-requisite: MAT 113**

ELC 121 National Electrical Code

3 Credits

Reviews the code rules found in the National Electrical Code, NFPA 70, to ensure safe installation of electrical wiring and equipment. (3 lec) **Prerequisite: High School Diploma, GED or permission.**

ELC 131 Basic Electronics I

3 Credits

Presents the principles of electronics beginning with semi-conductor theory. Rectification, transistors, SCR's, TRIAC's and optoelectronic devices are studied. (3 lec, 0 lab) Prerequisite: ELC 112 with grade of C or better or permission.

ELC 141 Electric Motors

3 Credits

Studies the principles of electric motors and generators as they apply to the electrical industry. Students install electric motors and diagnose problems with them. (3 lec) **Prerequisite: ELC 161**

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ELC 151 Electrical Controls I

3 Credits

Addresses concepts, materials, diagrams, and circuits relative to residential wiring applications, along with appropriate National Electrical Code articles. (3 lec)

ELC 152 Electrical Controls II

3 Credits

Teaches the principles and components of starting, accelerating, protecting, and stopping alternating current motors. (3 lec) **Prerequisite: ELC 151 with a grade of C or better**

ELC 161 Transformers

3 Credits

Covers the principles of transformers and three-phase power, and diagnosing their service problems in the electrical industry. (3 lec) **Prerequisite: ELC 112 with grade of C or better**

ELC 171 Electrical Blueprint Reading

3 Credits

Covers the principles of commercial and industrial electrical blueprint layouts, with emphasis on specifications, estimating procedures, interpreting one-line diagrams, power distribution layouts, and lighting layouts. (3 lec)

EMS 100 First Responder

2 Credits

This entry level course is designed to prepare students for the role of first responder. Particular focus is given to lifesaving techniques that are designed to stabilize the patient before the ambulance arrives. Upon successful completion of this course and national certification examinations, the student will be eligible for Maine State Licensure. (54 hours) **Prerequisite: Reading Comprehension exam**

EMS 121 First Aid in the Workplace

1.33 Credits

This course reviews key workplace safety topics including scene safety and standard precautions. Coursework includes certification in American Heart Association CPR, the use of Automatic External Defibrillators and basic first aid. In addition, this class will review awareness of hazardous materials in the workplace. (27 hours)

EMS 123 Emergency Medical Technician

5.5 Credits

Prepares ambulance and rescue personnel, police officers, and fire fighters to administer out-of-hospital emergency medical care. The laboratory component provides practice in patient assessment, airway management, CPR, automatic external defibrillation, oxygen delivery, hemorrhage control, splinting, spinal immobilization, childbirth, lifting and moving patients, and extrication. This course includes clinical experience in a hospital emergency department and/or ambulance service. Students who successfully complete this course are eligible to sit for the National Registry of EMTs certification examination (117 hours), Prerequisite: Score \geq 62 on Accuplacer Reading Comprehension exam

EMS 124 First Responder to EMT-Bridge

3.5 Credits

Prepares currently licensed First Responders (Emergency Responders) to administer outof-hospital emergency medical care. The laboratory component provides practice in patient assessment, airway management, CPR, automatic external defibrillation, oxygen delivery, hemorrhage control, splinting, spinal immobilization, childbirth, lifting and moving patients, and extrication. This course includes clinical experience in a hospital emergency department and/or ambulance service. Students who successfully complete this course are eligible to sit for the State National Registry of EMTs certification examination. Prerequisite: Reading Comprehension exam and Maine EMS Licensed First Responder

EMS 125 Advanced Healthcare Provider to EMT Bridge

4.5 Credits

Designed for experienced advanced allied health care providers (RN, PA-C, and NP) to provide exposure to the field of EMS. Students will complete a minimum of 84 hours of didactic and practical time, including a precepted internship with a local EMS agency. Goals of the course include review of EMS operations, provision of care in the out-of-hospital environment, and management of patients in the pre-hospital setting. Upon successful completion of this course, participants may apply to take the National Registry of EMTs certification examination and pursue state licensure as an EMT-Basic. (80 hours)

EMS 201 Fundamentals of EMS

3 Credits

Introduces the student to the role of the Advanced Life Support Provider. Topics covered include roles and responsibilities of ALS providers, medical terminology, self-care, and initial patient stabilization and management. Students will learn how to obtain a history and perform a physical assessment on a patient. (45 lec hours, 0 lab hours) Prerequisites: Maine EMS (or equivalent other state) licensure at the intermediate/AEMT level, successful completion of APEMS-required preadmission testing, and meeting all program admission requirements.

EMS 202 Cardiac/Respiratory Emergencies

3 Credits

Provides an in-depth study of the respiratory and cardiovascular system. In the lab, students will learn advanced airway skills, perfect ventilation techniques, and perform basic cardiac rhythm interpretation. An introduction to the pathophysiology and management of cardiovascular and respiratory disorders will be provided. This course serves as a core course for the EMT-Intermediate (AEMT) licensure. (30 lec hours, 30 lab hours) **Pre- or Co-requisite: EMS 201**

EMS 205 A-EMT Skills Seminar

2 Credits

This course serves two major purposes. First, it serves as a refresher for those currently licensed EMT Intermediates wishing to become paramedics. Second, it is a required course for students who will be licensed at the EMTIntermediate level. Students will review and practice all intermediate/advanced EMT skills in an interactive seminar format. The course includes multiple case studies, interactive lab sessions, and creative teaching methods. The course concludes with mandatory skills tests to assure mastery of the topics covered in the intermediate/AEMT Curriculum. (15 lec hours, 20 lab hours) Pre- or Co-requisites: EMS 201, EMS 202 or currently licensed EMT Intermediate

EMS 206 A-EMT Clinical Preceptorship and Field Internship

3 Credits

This course provides students the opportunity to apply the didactic knowledge and skills developed in the classroom. In the pre-hospital and clinical setting, Students partner with pre-hospital providers at local ambulance services and clinical preceptors in various healthcare settings to develop skills in clinical decision-making, electro-cardiology, and management of acute and chronic disease. This clinical experience focuses on the skills

needed to function at the Intermediate/AEMT level. (150 clinical hours) **Pre- or Corequisites:** EMS 201, EMS 202, EMS 205, and advisor approval.

EMS 207 Advanced Cardiac Life Support Lab (AHA)

1 Credit

Teaches the standardized American Heart Association approach to managing cardiac emergencies and emergency resuscitation. Recommended after completion of EMS 203. (2 lab)

EMS 208 Advanced Emergency Cardiovascular Care

4.5 Credits

This course provides an in-depth study of the pathophysiology of cardiac and vascular disorders. Topics covered include the physiology, assessment, pharmacology, and treatment of acid base balance disturbances, cardiac rhythm alterations, 12- lead ECG analysis and the acute coronary syndrome. In the lab, students learn advanced paramedic skills such as cardiac arrest management and clinical decision making. Students completing the course will receive a certificate in Advanced Cardiac Life Support (ACLS). (There may be an additional cost for ACLS certification). This course meets and exceeds the Maine EMS required objectives for original 12-Lead ECG training. (45 lec hours, 45 lab hours) Prerequisites: EMS 201, EMS 202, EMS 205, EMS 206, currently licensed Intermediate/AEMT, successful completion of all APEMS required preadmission testing, and advisor approval

EMS 210 Paramedic Emergencies I

2.5 Credits

This Course provides an introduction to emergency pharmacology and an in-depth study of the pathophysiology of airway and pulmonary disease and disorders. Topics covered include the physiology, assessment and treatment of airway and breathing disorders. In the lab, students learn advanced airway procedures such as endotracheal intubation, CPAP, capnography and clinical decision making. Students completing the course will meet and exceed the objectives of the Maine EMS Paramedic Interfacility Transfer Module (PIFT). (There may be additional cost for PIFT certification.) (30 lec, 15 lab) Prerequisites: EMS 201, EMS 202, EMS 205, EMS 206, currently licensed Intermediate/AEMT, successful completion of all APEMS required pre-admission testing, and advisor approval

EMS 212 Emergency Care Across the Lifespan

2.5 Credits

This course provides students with the opportunity to study how growth and development impacts the delivery of emergency care. Topics include pediatric and neonatal emergencies, obstetrical care, geriatric emergencies, and age appropriate care. Provisions for providing emergency care to all age groups are presented. The normal physiological changes of aging are reviewed. Students completing the course will receive certificates in Pediatric Advanced Life Support (PALS) and Geriatric Education for Emergency Medical Services (GEMS). (There may be an additional cost for PALS and GEMS certification). (30 lec hours, 15 lab hours) Prerequisites: EMS 201, EMS 202, EMS 205, EMS 206, currently licensed Intermediate/AEMT, successful completion of all APEMS required preadmission testing, and advisor approval

EMS 214 Paramedic Skills Seminar

2 Credits

This is the last course necessary to complete the paramedic program. This course is designed to provide students an intense lab experience that simulates professional paramedic practice. Students completing this course will practice the manipulative skills necessary to successfully pass the National Registry and State of Maine Paramedic Psychomotor Examination and to become professional field practitioners. Additional topics discussed will include, concepts of life-long learning, quality improvement, and the paramedic's role in community education. (10 lec hours, 45 lab hours) Prerequisites: EMS 201, EMS 202, EMS 205, EMS 206, EMS 208, EMS 209, EMS 211, EMS 212, EMS 213, EMS 215, EMS 216, currently licensed Intermediate/AEMT, successful completion of all APEMS required preadmission testing, and advisor approval

EMS 215 Paramedic Clinical Preceptorship and Field Internship I

This faculty directed practicum provides the opportunity for each student to develop competency in clinical skills within the hospital and pre-hospital setting. Clinical rotations occur in cardiac care units, newborn nurseries, labor and delivery, post-anesthesia units, one-day surgery, geriatrics, respiratory, cardiology, emergency room, operating room, and others. The pre-hospital rotation allows students to assume the role of the paramedic in order to perfect clinical and assessment skills. During this rotation, the student will primarily observe and assist the precepting paramedics. The student works under the direction of an experienced preceptor. (138 clinical hours) Prerequisites: EMS 201, EMS 202, EMS 205, EMS 206, pre- or co-requisites: EMS208 and EMS 209, currently licensed Intermediate/AEMT, successful completion of all APEMS required preadmission testing, and advisor approval

EMS 216 Paramedic Clinical Preceptorship and Field Internship II

2 Credits

3 Credits

3 Credits

This faculty directed practicum provides the opportunity for each student to develop competency in clinical skills within the hospital and pre-hospital setting. Clinical rotations occur in cardiac care units, newborn nurseries, labor and delivery, post-anesthesia units, one-day surgery, geriatrics, respiratory, cardiology, emergency room, operating room, and others. During the pre-hospital rotation the student will begin to take a lead role in assessing patients and decision making. The student works under the direction of an experienced preceptor. (120 clinical hours) Prerequisites: EMS 201, EMS 202, EMS 205, EMS 206, EMS 208, EMS 209, EMS 215, pre- or co-requisites: EMS 211 and EMS 212, currently licensed Intermediate/AEMT, successful completion of all APEMS required preadmission testing, and advisor approval

EMS 217 Paramedic Clinical Preceptorship and Field Internship III

This faculty directed practicum provides the opportunity for each student to develop competency in clinical skills within the hospital and pre-hospital setting. Clinical rotations occur in cardiac care units, newborn nurseries, labor and delivery, post-anesthesia units, one-day surgery, geriatrics, respiratory, cardiology, emergency room, operating room, and others. During the pre-hospital rotation the student will be expected to serve as the lead paramedic on all calls. The student works under the direction of an experienced preceptor. (146 clinical hours) Prerequisites: EMS 201, EMS 202, EMS 205, EMS 206, EMS 208, EMS 209, EMS 211, EMS 212, EMS 215, EMS 216, pre- or corequisites: EMS 213 and EMS 214, currently licensed Intermediate/AEMT, successful completion of all APEMS required preadmission testing, and advisor approval

EMS 223 Introduction to Community Health

3 Credits

Presents a survey of theory and practice in community health. Specific attention is given to the public health system, voluntary health agencies, epidemiology, solving community health problems, and the role of community health education. A research paper about a selected community health problem or issue is required. (3 lec)

EMS 225 Biomedical Ethics

3 Credits

Presents an analysis of ethical issues arising within modern medicine and the health care professions, such as paternalism and truth-telling, euthanasia, abortion, modern reproductive technologies, nurse-patient and nursephysician relationships, civil commitment, and allocation of scarce medical resources. (3 lec, 0 lab)

EMS 231 Paramedic Emergencies II

3 Credits

In this course, the student is given an intense introduction to the pathophysiology and management of selected diseases, based on body systems. Specific pathophysiologies include infectious and communicable diseases, allergies and anaphylaxis, vascular toxicology and hematology, neurological, endocrine, renal and gastroenterology emergencies and systems. An overview of common laboratory and diagnostic tests is presented. Students completing the course will receive a certificate in Emergency Medical Patients: Assessment Care and Transport (EMPACT). (Note: there may be an additional cost for EMPACT certification). (55 lec hours) Prerequisites: EMS 210, 202, 205, and 206 and currently licensed Intermediate/AEMT, successful completion of all APEMS required preadmission testing, and advisor approval; advisor approval.

EMS 233 Paramedic Emergencies III

3 Credits

This course provides students with a comprehensive review of the pathophysiology, kinematics and management of the trauma patient. Topics include multi-systems trauma, spinal injury, chest and abdominal injuries, traumatic brain injuries, orthopedic injury, environmental emergencies and burn care. Students completing the course will receive a certificate in Prehospital Trauma Life Support (PHTLS). (Note: there may be an additional cost for PHTLS certification). (60 lec hours) Prerequisites: EMS 210, 202, 205, and 206 and currently licensed Intermediate/AEMT, successful completion of all APEMS required preadmission testing, and advisor approval.

ENG 101 College Composition

3 Credits

Emphasizes rhetorical principles, accuracy of expression, organization, and longer essays in order to help students think logically and write clearly. In addition, students prepare a research paper and sit for a competency-based examination. A passing grade in this course or its equivalent is a graduation requirement of all degree candidates. (3 lec) **Prerequisite: WP Accuplacer score > 6**

ENGL 101 College Composition Lab

1 Credit

Small-group workshop focusing on essay revision and writing improvement, taken in conjunction with ENG 101. Required for students with department-determined result on placement exam(s). For each of those students, a passing grade in this course is required to pass ENG 101. Graded Pass/Fail. (2 lab) Prerequisite: WP Accuplacer score > 5 or departmental recommendation. Co-requisite: ENG 101.

ENG 112 Introduction to Literature

3 Credits

Seeks to develop in students an appreciation of literature and insights into human values that can result from close studies of it. Students will read, discuss and write about selections that represent interpretive literature. (3 lec) Writing Intensive Course. Prerequisite: ENG 101 with grade of C or better or permission of the instructor.

ENG 116 Journalism Seminar

3 Credits

This extensive specialty writing class is open to students who may take it as many times as they desire. Students will help write and publish the Eagle Eye, the campus bi-weekly newspaper. Class time will offer a focus beyond merely writing and publishing competent stories in print journalism; discussion periods will include analysis of writing for TV and radio broadcast stations and public relations offices. Students will work on a variety of writing assignments every semester covering hard news, features, profiles, in-depth stories and investigative stories, editorials and opinion pieces, and even specialty writing (business, sports and the arts). Different legal and ethical issues in the media will be considered each semester, including ones relating to privacy, obscenity, sunshine laws and the media's self-proclaimed status as the "Fourth Estate." (3 lec) Writing Intensive Course

ENG 162 Creative Non-Fiction Writing

3 Credits

Uses a non-workshop approach - no peer editing or critiques. Students will read short creative non-fiction, explore developing non-fiction material using fictional techniques such as dialogue and narrative voice, and write their own pieces (3 lec) **Prerequisite: ENG 101 with grade of C or better or permission of the instructor.**

ENG 172 Creative Writing

3 Credits

Provides students with the opportunity to explore and develop their own writing style and voice in a mutually supportive environment. Focuses primarily on short fiction and poetry, with consideration of other genres, including but not limited to creative nonfiction and the novel, as befits individual interests. As a member of a community of writers, students will read, write, and share their work in a safe space for creating, experimenting, and exchanging constructive criticism with their peers. Coursework will include in-class and take-home exercises, peer workshops, one-on-one conferences, and critical analysis of professional works. Students will present a portfolio that illustrates both their best work and their improvement during the semester. (3 lec) Writing Intensive Course. Prerequisite: ENG 101 with grade of C or better or permission of the instructor.

ENG 212 Introduction to Film

3 Credits

Introduces students to the history and analysis of American and international narrative film. (2 lec, 2 lab) Writing Intensive Course. Prerequisite: ENG 101 with grade of C or better or permission of the instructor.

ENG 214 Topics in Film

3 Credits

Focuses on a different topic in film each time it is offered: may be taken more than once for credit. Topics will be determined by the department. (3 lec) **Writing Intensive Course**Prerequisite: ENG 101 with grade of C or better or permission of the instructor.

ENG 215 Business and Technical Writing

3 Credits

Gives students hands-on experience in writing for business and industry. Students will address a variety of writing situations by selecting appropriate methods of development, including letters and memoranda, informal and formal reports, technical instructions and a professional resume. In addition to written assignments, students will conduct a technical briefing at the conclusion of the course. (3 lec, 0 lab) Writing Intensive Course. Prerequisite: ENG 101 with grade of C or better or permission of the instructor.

ENG 222 True Crime 3 Credits

Examines historic and contemporary accounts of criminal activity. Students will discuss such issues as the cultural influences on the crimes themselves and on the creation and reception of the accounts. In cases where these works have inspired--or even attained the status of--"literature", students will also consider the ways that the practices of fiction and nonfiction diverge or intersect. (3 lec) Writing Intensive Course. Prerequisite: ENG 101 with grade of C or better or permission of the instructor.

ENG 223 Science Fiction and Fantasy Literature

3 Credits

Emphasizes techniques for close reading and writing about elements of Science Fiction and Fantasy literature including characters, points of view, plots, settings, themes, and symbolism. Students will read Science Fiction and Fantasy literature alongside instructional material that guides them through the close reading and writing processes. Weekly written responses to reading and two comprehensive essays are required. (3 lec) Writing Intensive Course. Prerequisite: ENG 101 with grade of C or better or permission of the instructor

ENG 224 The Graphic Novel

3 Credits

Students will study the graphic novel as literature, briefly investigating the history and evolution of sequential art, developing a vocabulary for evaluating and discussing the graphic novel as a narrative form, and closely analyzing representative works of personal and political memoir, social satire, and commercial escape. (3 lec) Writing Intensive Course. Prerequisite: ENG 101 with grade of C or better or permission of the instructor.

ENG 225 Literature by Women

3 Credits

Examines the wide-ranging body of poetry, fiction, drama, letters, essays, journals and other literature by women from the Middle Ages to the present day. Emphasis will be placed on the artistic and cultural influences on—and implications of—these works and these writers. Usually offered in the fall semester. (3 lec) Writing Intensive Course. Prerequisite: ENG 101 with grade of C or better or permission of the instructor.

ENG 227 British Literature I

3 Credits

Explores selected major and lesser-known works from the Medieval Period through the Eighteenth Century. (3 lec) Writing Intensive Course. Prerequisite: ENG 101 with grade of C or better or permission of the instructor.

3 Credits

Explores selected major and lesser-known works from the Romantic Period through the Twentieth Century. (3 lec) Writing Intensive Course. Prerequisite: ENG 101 with grade of C or better or permission.

ENG 233 Adaptations: Fiction and Film

3 Credits

Examines in- depth the ways that films and literary texts intersect and diverge as they interpret and re-interpret narrative. (2 lec, 2 lab) Writing Intensive Course. Prerequisite: ENG 101 with grade of C or better or permission of the instructor.

ENG 241 Introduction to Drama

ENG 228 British Literature II

3 Credits

Explores plays from a variety of historical periods, analyzing such issues as their cultural contexts and possibilities for interpretation. Students will read, discuss, write about, and perform selected works. Writing Intensive (3 lec) Prerequisite: ENG 101 with a C or better or permission of the instructor.

ENG 291 Topics in Literature

3 Credits

Focuses on a different topic in literature each time it is offered and may be taken more than once for credit. Topics will be determined by the department. (3 lec) **Prerequisite: ENG 101 with a grade of C or better.**

EPT 116 DC Circuits 3 Credits

Explores the fundamentals of DC Electricity. Topics examined include voltage, current, resistance, power, series and parallel circuits and circuit analysis theorems. Troubleshooting skills are emphasized. (45 hrs lec & rec, 30 hrs. lab) A grade of C or better is required. Prerequisite: Admission into Electrical & Automation Technology

EPT 123 Power Distribution

3 Credits

Examines three-phase WYE and Delta systems, transformers (single-phase, three-phase and CT's, PT's, autotransformer, and buck-boost applications), switchgear, and other common power system components. Residential, commercial, and industrial power distribution will be covered. One-line diagrams, fault calculations, per unit calculations, arc flash, and other power systems analysis will be covered. A project using EasyPower software will be required. (1 lec 2 lab) **Prerequisite: EPT 125**

EPT 125 AC Electricity

3 Credits

Covers the fundamentals of magnetism, AC power generation, terminology, phase angles, reactance, oscilloscopes, and other test equipment. (3 lec) A grade of C or better is required. Prerequisites: EPT 116 and MAT 119

EPT 155 National Electrical Code

3 Credits

Interpret and apply the National Electrical Code to common wiring installations. In addition to studying Chapters 1-4 of the NEC, real-world wiring installations will be examined. Prepares the student to sit for his/her State of Maine Journeyman Exam. **Must be enrolled in the E&AT program.** (3 lec)

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EPT 167 Fluid Power Technology

3 Credits

Examines all aspects of pneumatic and hydraulic fluid power systems including component selection, component installation, function analysis, basic system design, troubleshooting, and testing techniques. (2 lec, 1 lab)

EPT 173 DC/AC Machines

3 Credits

Provides the student with the tools to successfully select, install and maintain DC and AC rotating machines. Machines to be examined include DC shunt, series and compound motors and generators as well as single and three-phase motors and generators. (45 hrs lec & rec, 30 hrs lab) **Prerequisite: EPT 123**

EPT 176 Programmable Controllers

3 Credits

Explores the design, installation, and use of programmable automation controllers in industry. Students program the Allen Bradley SLC 500 and are introduced to other automation controllers. Students will learn how to turn a written description of an automated process into a working program. Specific skills associated with product selection, entering and editing ladder logic, documentation, communications, connectivity, and safety interlocks will be developed. (1 lec, 2 lab) **Prerequisite: EPT 245**

EPT 228 Industrial Electronics

3 Credits

With an emphasis on applications and troubleshooting, this course takes a strong system approach that identifies the circuits and components within a system and helps students see how the circuit relates to the overall system function. This course will provide a solid foundation in semiconductor theory along with circuits containing diodes, zener diodes, BJTs, JFETS, and MOSFETs. (1 lec & 2 lab) **Prerequisite: EPT 125**

EPT 241 Linear Circuits 3 Credits

Introduces the theory and application of operational amplifiers, including circuit connections, operational amplifier circuits, and special purpose circuits. (45 hrs lec & rec, 30 hrs lab) **Prerequisite: EPT 228**

EPT 245 Digital Electronics

3 Credits

Explores digital logic circuits and devices. Following a review of necessary numbering systems (binary, octal, hexadecimal) the student will study and connect all basic gates, adders, counters, one-shots and multiplexers. This will culminate in a study of serial and parallel digital communications. (45 hrs lec & rec, 30 hrs lab)

EPT 251 Control Systems

3 Credits

With an emphasis on applications and troubleshooting, this course introduces electromechanical and solid state control devices used in industrial control systems. Students will gain skills in the selection, design, and installation of circuits using relays, time delay relays, contactors, motor starters (NEMA and IEC), overload relays, pushbutton operators, selector switches, proximity switches, photoelectric sensors, and variable frequency drives. (15 hrs lec, 60 hrs labs) **Prerequisite: EPT 173**

EPT 296 Automation Projects I

3 Credits

Topics may include integrating sensors and output devices with programmable automation controllers, instrumentation, process control, servo systems, building automation systems, and industrial robotics. Students may work with industrial products made by GE, Automation Direct, Allerton, AB, Emerson, and many others. Students will be required to complete a design project. (15 hrs lec, 60 hrs lab) **Prerequisite: EPT 176**

EPT 298 Automation Projects II

3 Credits

Provides students with experience in high level function block/ladder logic PLC programming as well as HMI screen development. Students will design simulated automation systems using the latest release of the Rockwell Software Control Logix and Factory Talk View operator interface development software. In addition, this course will provide an opportunity for students to build an instructor selected automation related capstone project. (15 hrs lec, 60 hrs lab) **Prerequisite: EPT 296**

EPT 299 Selected Electrical Topics

2 Credits

This course seeks to combine topics that are relevant to electrical and automation technology but do not fit into other courses or warrant a course of their own. Topics covered may include, but are not limited to, blueprint reading, AudoCadd, lighting design, wiring practices, conduit bending, overcurrent protection, computer networks, network cabling, and human machine interfaces. (60 hrs lec & rec) **Co-requisite: Fourth semester status**

FAR 291 Special Topics in Fine Arts

3 Credits

Focuses on a different topic each time it is offered. Can be taken more than once.

FIR 100 Introduction to Fire Protection

2 Credits

This course is designed to be an introductory course for the Fire Science Technology program. It is recommended for students new to the fire service. The course is a survey of the fire protection field, with emphasis on developing an awareness of history, organization, career options, expectations and study skills.

FIR 101 Firefighter I 3 Credits

The purpose of this course is to prepare students for certification as Fire Fighter I (according to the professional standards described in NFPA 1001). The course will cover fire department organization and history, communications, incident command system, building construction, fire behavior, fire fighter safety and survival, use of equipment in performing on-scene operations, equipment testing and maintenance, water supplies, pre-fire survey, inspections, incident reporting, fire prevention/public education, hazardous material awareness and terrorism/WMD awareness. Students will also complete CPR and First Aid Certification. At the end of the course, students will sit for the State of Maine FFI certification exam. (2 lec, 2 lab)

FIR 102 Firefighter II 3 Credits

The purpose of this course is to prepare students for certification as Fire Fighter 2 (according to the professional standards described in NFPA 1001). The course content refreshes all the material covered in Firefighter I and extends the skills in SCBA use and

interior attack. Additionally, FF2 students receive specific training in fire department organization and safety regulations, fire alarms and telecommunications, flammable gas firefighting, confined space rescue tunnels, industrial accidents, local hazards, trench rescue, high rise buildings, incident command, fire control: above/below grade, hidden, electrical, foam, sprinklers, investigation, inspection, preplanning, and auto extrication. (2 lec, 2 lab) **Prerequisite: FIR 101**

FIR 104 Emergency Telecommunicator – Basic

3 Credits

This course is designed to prepare students for emergency telecommunicator duties to meet requirements of the NFPA 1061 Professional Qualification Standard for Public Safety Telecommunicator I; as well as meeting the State of Maine statutory requirement for those employed at public safety dispatch centers in Maine [25 MSRA § 2926 2(b)]. The course combines instructor presentations, student activities and simulation exercises to develop skills and knowledge in the field. The course will provide the student with the knowledge of roles and responsibilities, current technologies, interpersonal communications skills, telephone communication and call processing skills, radio broadcast procedures, legal aspects of public safety communications and stress management skills. In addition the course will introduce students to the skills necessary to manage requests for police, fire and medical services. Future public safety field responders will also gain a better appreciation and working knowledge for their relationship with their respective communications center. (3 lec)

FIR 110 Fire Protection Systems

3 Credits

This course is an introduction to fire protection and detection systems and their role in community fire protection. The focus of this course is on understanding fire behavior and the basic components that make up fire protection systems. Topics covered in this class include: Fire behavior, portable fire extinguishers, fire alarm and detection systems, standpipe systems, commercial/industrial automatic sprinkler systems, residential sprinkler systems, special extinguishing systems, and community fire protection. (3 lec) **Preference to Fire Science majors.**

FIR 115 Fire Service Building Construction

3 Credits

This course is designed to be a comprehensive study of building materials, methods and design as they are related to fire protection and suppression. Topics covered in this class include: building materials and their impact on the fire service, types of construction, methods of construction, fire protection features, building codes, an examination fire's effect on buildings and evaluation of fire damage. Many case studies are used during the delivery of this course to illustrate the importance of understanding building construction. This course concludes with presentations of semester long student projects. (3 lec) **Preference to Fire Science majors.**

FIR 127 Fire Science Learning Seminar

1 Credit

Provides Fire Science Technology students with experiential learning opportunities in the field of fire protection. The student will serve at an area fire station and become a participating member of that department. The student will learn and practice job responsibilities in the functional area of fire suppression, fire prevention, equipment and facility maintenance. The student will keep a log of his/her activities and reflect on

experiences in regular group meetings. This course is available only to full-time, matriculated Fire Science Technology students and may be taken up to three times for credit. (1 lec) **Prerequisite: Fire Science Program Acceptance.**

FIR 131 Fire Behavior and Combustion

3 Credits

Explores the fundamental processes of combustion and the methods by which fires start, spread, and are controlled. (3 lec, 0 lab)

FIR 152 Fire Inspection and Prevention

3 Credits

Provides fundamental knowledge relating to the field of Fire Prevention. Provides a demonstration of the basics of municipal fire inspection and code enforcement principles. Students will learn the organization and operation of a fire prevention office, the use and application of NFPA 101 Life Safety Codes and NFPA 1 Uniform Fire Code, to conduct reviews of building plans, to identify common hazards, and the basis for special inspections and fire investigations. (3 lec) **Preference to Fire Science majors.**

FIR 155 Fire Service Hydraulics

3 Credits

This is a foundation course in the principles of hydraulics as applied to fire service hose and appliances. This course applies theoretical and application principles to solve hydraulics based challenges. Topics include principles involving water at rest and in motion, solving hydraulic problems in fire hose layouts by exact mathematical calculation and fire ground estimation, establishing the ability to make rapid fire ground hydraulic determinations, and to evaluate the efficiency and effectiveness of various hydraulic systems including hydrant flows. (3 lec) **Co-requisite: MAT 113**

FIR 165 Wildlife Fire Management for Firefighters

3 Credits

A study of wildland fire management methods and theories as related to structural fire suppression and protection crews. Included in this course of study are basic wildland firefighting terms and principles; fire, smoke, heat and weather behavior; types of fuels and topography and the effects of wildland fires upon civilian and structural protection decisions.

FIR 202 Hazardous Incident Management

3 Credits

Presents an All-Hazards approach for incident response to and management of natural or man-made disasters, Bus Accidents, plane crashes, and other disasters with multiple patients, or release of chemical products. Evaluates the hazards of calls containing flammable materials, pressurized vessels, cryogenics, oxidizing agents, corrosives, explosive and toxic materials. Familiarizes students with tools, equipment and response techniques as well as the federal and state laws that govern the handling of hazardous materials and the incidents they create. Includes proper notification, proper jurisdiction of various state and federal agencies, and proper documentation and reporting. Concludes with presentations of semester-long student projects. **Prerequisite: 30 credits toward major.**

FIR 207 Fire and Life Safety Educator

3 Credits

Prepares the student to instruct others in positive aspects of Fire and Life Safety and Fire and Accident Prevention. Emphasizes basic learning characteristics of audiences,

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selection of appropriate instructional materials, appropriate delivery including active participation and involvement. Includes aspects of marketing and public notification, budgeting, planning, evaluation, and fund-raising. Also includes specialized training in Juvenile Fire-Setter Intervention and reporting. (3 lec) Prerequisite: ENG 101

FIR 210 Fire Service Instructor

3 Credits

Designed to assist current and aspiring fire/rescue officers in teaching fire-service-oriented subjects and developing an understanding of the various methods of teaching fire/rescue occupational subjects. This course will aid students in preparing instructor lesson plans and help them to recognize and practice the effective use of other instructor resource materials. Students can earn state and national certification from successful completion of this course and a practical teaching demonstration. (3 lec) **Prerequisite:** 30 credits toward major.

FIR 215 Fire Service Leadership

3 Credits

This course is designed to develop a foundation of leadership, supervision and communication skills for the fire officer. The subject matter, instruction, activities, and assignments will follow the recommendations for Fire Officer I and II as presented in NFPA 1021, Standard for Fire Officer Professional Qualifications. Students will study basic issues related to all supervision, as well as issues specific to fire service supervision. Students can earn state and national Fire Officer I & II certification by successfully completing this course, additional writing assignments, and community-based training and certification requirements. This course has been designated as a writing-intensive course. (3 lec) **Prerequisite: ENG 101**

FIR 221 Fire Investigation and Analysis

3 Credits

Examines the underlying principles involved in fire origin and growth. Evaluates the effects of structural fire protection systems, building construction and furnishings, fire alarm and detection systems, special hazard suppression systems, and smoke management on the progress of fire growth. Examines the technical, investigative, legal, and social aspects of arson, including principles of incendiary fire analysis and detection, environmental and psychological factors of arson, legal considerations, intervention, and mitigation strategies. (3 lec) **Prerequisites: FIR 110, FIR 115.**

FIR 250 Fire Ground Operations

3 Credits

This course offers basic tactics and strategies to the firefighter. The course looks at three major response apparatus and explores the internal structure and skills needed to operate the scene of a fire. **Prerequisite: 30 credits toward major.**

FIR 260 Fire Administration

3 Credits

This course is a broad overview of the management practices employed in today's fire/rescue services. The course focuses on the role of the fire administrator within the context of municipal government. The course will emphasize managerial ethics, accountability, the changing environment, planning, financial management, and preparing for the future. This course also requires development and defense of a Fire Science Thesis Portfolio documenting attainment of EMCC Fire Science learning

outcomes. This course has been designated as a writing-intensive course. (3 lec) **Prerequisite: ENG 101**

FIR 291 Topics in Fire Science

3 Credits

Focuses on a different topic in Fire Science each time it is offered and may be taken more than once for credit. Topics will be determined by the department. (3 lec)

FIT 231 Pipefitting Fundamentals

2 Credits

Offers the student an introduction to pipefitting theory, nomenclature, materials, calculations, layout and templates. It offers the student the opportunity to develop skills necessary to successfully fit pipe including the safe use of hand and power tools, oxyfuel cutting equipment and pipe supports. Pipe preparation, fabrication, assembly and fitting are practiced with an emphasis on safety. 4 week course. (80 hr.) **Prerequisite: WEL 269**

FIT 233 Practical Pipefitting I

1.5 Credits

Offers the student the opportunity to develop skills in pipefitting above ground including field measurements and the safe use of ladders, staging and rigging. Pipe hanger systems, salvage and disassembly will be examined and practiced. Assembly and salvage of socket welds will be introduced. An emphasis will be placed on working safely and collaboratively. 3 week course. (50 hr.) **Prerequisite: FIT 231**

FIT 235 Practical Pipefitting II

1.5 Credits

Offers students the continued opportunity to develop skills in above ground piping with a focus on multiple and rolling offsets. Boiler tube and water wall fitting will be introduced. An emphasis will be placed on working safely and collaboratively. 3 week course. (50 hr.) **Prerequisite: FIT 233**

FWC 102 Basic Woodworking I

3 Credits

Basic Woodworking I is an introduction to woodworking tools and equipment by examining the safe and skillful use of both hand and power tools, including their selection, purpose and maintenance. Designed to introduce the student to the safe and proper use of hand and layout tools used to construct basic woodworking joinery. Course emphasis will be the hands-on techniques necessary to produce several required wood joints and projects. 7-week course (3 lec, 14 lab)

FWC 103 Basic Woodworking II

4 Credits

Basic Woodworking II is a continuation of FWC 102 providing a comprehensive introduction to woodworking tools and equipment by continuing examining the safe and skillful use of both hand and advanced power tools, including their selection, purpose and maintenance. Students will learn the safe and proper use of hand and layout tools used to construct basic and intermediate level wood working joinery. Course emphasis will be the hands-on techniques necessary to produce required wood joints and projects. 8-week course (3 lec, 14 lab)

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FWC 111 Woodworking

7 Credits

This course provides a continuation of Fine Woodworking I offering a comprehensive presentation of woodworking tools and equipment. This course will foster the skillful use of hand and power tools, including their selection, purpose and associated maintenance. Designed to educate the student in the safe, proper techniques used to fabricate superior woodworking accomplishments. Course emphasis will include the hands-on techniques necessary to produce intricate wood joinery and undertake detail oriented projects. 15-week course (3 lec, 14 lab) **Prerequisite: FWC 103**

FWC 200 Cooperative Education

1-3 Credits

Cooperative Education for Fine Woodworking and Cabinetmaking allows the student a paid, full-time, employment opportunity related to their academic pursuits. Student may elect to volunteer at an approved non-profit. After the first two semesters of study in their major, the student may elect, with the assistance of an advisor to complete a cooperative education experience. The experience can run from 80 to 240 hours. A student completing 80–160 hours will receive one credit, 160-240 two credits, and more than 240 three credits. Students are required to complete a weekly log of what they did that week and what they learned. (Pending approval)

FWC 201 Basic Cabinetmaking and CNC

7 Credits

Basic Cabinetmaking and CNC provides a comprehensive introduction into cabinetmaking. Students will design and fabricate traditional and 32mm stiles cabinets. Course will emphasize the use of industrial woodworking equipment including CNC Nesting Routing, Dovetails, and Edge-banding. Students will also be introduced to wood turning and laminating. 15-week course (3 lec,14 lab)

FWC 211 Advanced Cabinetmaking

7 Credits

Advanced Cabinetmaking provides a continuation of basic cabinet making offering an extensive presentation of woodworking methods, practices and styles. This course is inclusive of the skillful use of hand tools, power tools and computer guided equipment. The safe selection, purpose, and associated maintenance of associated equipment will be incorporated. Course emphasis will include the techniques and guidance necessary to produce intricate wood joinery and undertake detail oriented projects. 15-week course (3 lec, 14 lab)

FYE 100 College Success Course

1 Credit

Designed to empower students to achieve success in college and in life by learning highly effective research-based strategies that appeal to various learning preferences and by identifying resources that will help them be successful in college. Students focus on the eight On Course program principles: personal responsibility, self-motivation, self-management, interdependence, self-awareness, lifelong learning, emotional intelligence, and belief in oneself. (2 lab)

GEN 101 Prior Learning Assessment I

1 Credit

Involves the development of a portfolio of competencies and the assessment of those competencies by an evaluator as part of the Associate in Applied Science in General Technology Degree. **Prerequisite: Admission to General Technology program.**

GEN 102 Prior Learning Assessment II

2 Credits

Involves the development of a portfolio of competencies and the assessment of those competencies by an evaluator as part of the Associate in Applied Science in General Technology Degree. **Prerequisite: Admission to General Technology program.**

GEN 103 Prior Learning Assessment III

3 Credits

Involves the development of a portfolio of competencies and the assessment of those competencies by an evaluator as part of the Associate in Applied Science in General Technology Degree. **Prerequisite: Admission to General Technology program.**

GEN 106 Prior Learning Assessment IV

6 Credits

Involves the development of a portfolio of competencies and the assessment of those competencies by an evaluator as part of the Associate in Applied Science in General Technology Degree. **Prerequisite: Admission to General Technology program.**

GEN 109 Prior Learning Assessment V

9 Credits

Involves the development of a portfolio of competencies and the assessment of those competencies by an evaluator as part of the Associate in Applied Science in General Technology Degree. **Prerequisite: Admission to General Technology program.**

GEN 111 Portfolio Development

1 Credit

Provides individual or group instruction in the development of a portfolio of competencies and background information for assessment purposes as part of the requirements of the Associate in Applied Science in General Technology Degree. Prerequisites: Enrollment in General Technology program & ENG 101, or suitable Accuplacer score and permission.

GEN 112 Prior Learning Assessment VI

12 Credits

Involves the development of a portfolio of competencies and the assessment of those competencies by an evaluator as part of the Associate in Applied Science in General Technology Degree. **Prerequisite: Admission to General Technology program.**

GEN 113 Prior Learning Portfolio Development

3 Credits

Provides step-by-step instruction regarding the building of a complete portfolio for assessment, which must accurately reflect the student's learning accomplishments and work-related competencies. (3 lec)

Prerequisites: Enrollment in General Technology program & ENG 101, or suitable Accuplacer Score and permission.

GEN 115 Prior Learning Assessment VII

15 Credits

Involves the development of a portfolio of competencies and the assessment of those competencies by an evaluator as part of the Associate in Applied Science in General Technology Degree. **Prerequisite: Admission to General Technology program.**

GEN 118 Prior Learning Assessment VIII

18 Credits

Involves the development of a portfolio of competencies and the assessment of those competencies by an evaluator as part of the Associate in Applied Science in General Technology Degree. **Prerequisite: Admission to General Technology program.**

GEN 121 Prior Learning Assessment IX

21 Credits

Involves the development of a portfolio of competencies and the assessment of those competencies by an evaluator as part of the Associate in Applied Science in General Technology Degree. **Prerequisite: Admission to General Technology program.**

GEO 107 Geography

3 Credits

General principles of human, physical, and cultural geography are explored. Topics include population, culture, political geography, issues of development, language, and globalization. How people shape their world and how people and place vary across the world. (3 lec)

GIS 230 Introduction to Geographic Information Systems

4 Credits

Students will build an understanding of the fundamentals of a GIS through lecture, readings and computer activities. Students will learn to use a specific GIS software system, ArcGIS, to use a GPS receiver and to integrate data from GPS to GIS software, and to define and complete a GIS project using existing data. This computer-intensive course includes a detailed discussion and related computer activities on the following topics: basic geography and map concepts, what a GIS is, data sources, data quality, databases, data classification, vector and raster data, spatial analysis, project management, cartographic communication, metadata, projections, datum, coordinates, and ethics. (3 lec, 1 lab)

HIS 101 American History Since 1898

3 Credits

Explores the history of the United States from 1898 to the present. The course covers the political, social, and economic development of the U.S. (3 lec)

HIS 105 History of Science and Technology

3 Credits

Focuses on science and technology from the American colonial period to the present, examining the social, political, and economic factors that have influenced science and technology development, and the impact of these developments on society. (3 lec)

HIS 106 Food in History

3 Credits

Designed to focus on food as a way to examine both world and U.S. history. Particular emphasis will be placed on food and its connection with society. The history of control over food production, and the symbolic, cultural and religious importance of food in past and present day will be addressed. The impact of colonization, immigration and legislation are included as part of the course structure. (3 lec)

HIS 111 World History

3 Credits

Traces the development of the world from isolated regions in the 1550s to the interrelated global network of the present day. Through lectures, readings, and discussions, students will identify major historical trends and themes in world history related to the growing interdependence between world regions. This interaction was stimulated by European invasion and colonization, but also sustained by the contributions of non-western regions. This course addresses the social, economic, political and environmental facets of this increasingly inter-connected world. (3 lec)

HIS 291 Special Topics in History

3 Credits

Focuses on a different topic each time it is offered. Can be taken more than once.

HTM 101 Introduction to Hospitality Management

3 Credits

Introduces students to career opportunities in the hospitality industry from operations management to ownership. Students will investigate segments of the industry including food and beverage management, casino and gaming management, lodging management, club management, and travel and tourism management. A particular emphasis will also be placed on developing critical leadership and management skills and understanding how to identify forces affecting the growth and change of the hospitality industry. (3 lec)

HTM 111 Hotel Front Office and Guest Accounting

3 Credits

This course introduces students to front-office operations and management, and to the accounting function as it relates to the front office. It also introduces successful strategies and operational tactics used by front-desk professionals for day-to-day operations, as well as employee management techniques that are important to the success of the front office. (3 lec)

HTM 131 Beverage Controls and Sanitation

3 Credits

A certification course that provides students with basic sanitation principles, ways to apply them in practical situation, and methods of training and motivating employees to follow good sanitation practices. Students are exposed to the identification, history, manufacture, and use of malted beverages, wines, and distilled spirits as well as to how, when, and where they relate to a beverage operation. Purchasing and control of a bar inventory and legal, moral, and social obligations of proper beverage service are also included. (3 lec)

HTM 141 Hospitality Human Resources

3 Credits

Examination of the applications of management and supervisory practices in the hospitality industry. Fundamental information, approaches, functions, and forms of human resource management are applied to the service industry to enable managers to accomplish company goals. Topics include federal employment legislation, diversity issues, labor market fundamentals, recruitment, interviewing, selection, hiring, training, evaluation, discipline, compensation, and benefits. (3 lec)

HTM 161 Customer Service/Relations

3 Credits

Exploration of the art of customer service. Investigates the development of a process to achieve goals through excellence in customer service. Discussion of best practices in identifying expectations, measuring quality of service, service team development, orchestrating the customer's experience, and responding to customer feedback. Emphasis is on putting the customer at the center of your business. (3 lec)

HTM 221 Introduction to Food Preparation

3 Credits

A survey course in basic food preparation, menu planning, service, and industry terminology. The course prepares students to work with foodservice concerns as they relate to the overall hospitality, travel, and tourism businesses. (2 lec; 2 lab) Prerequisites: GEO 107, HTM 101, HTM 111, HTM 131, HTM 141, HTM 161.

HTM 231 Hospitality Law

3 Credits

Designed to teach students to identify and understand the principles and concepts of laws impacting the hospitality industry. Provides an introduction to the court system and contracts and the legal rights of innkeepers and restaurateurs. The focus is on understanding risk, prevention of liability and protection against accidents, attitudes, and incidents that could lead to lawsuits. Case study and discussion examine the applications of law to the hospitality industry. (3 lec) Prerequisites: All designated first year courses in Hospitality and Tourism Management, or permission.

HTM 251 Planning and Development of Tourism

3 Credits

Explores tourism development as a process and the changing trends in tourism. Topics include history of tourism development; economic, environmental, social and cultural impacts of tourism; travel behavior and tourism marketing. Discussion of all factors that influence the hospitality, leisure, travel and recreation industries – interstate, intrastate and internationally. Emphasis is on guidelines and approaches in development of tourism that responds to national, regional and community needs and desires. (3 lec)

HTM 261 Meetings and Convention Management

3 Credits

Exploration of the logistics involved in event planning. Students will discuss the wide spectrum of the convention market, examine the individual needs of people who plan and are part of the group function; those who review ways to service groups effectively. Special emphasis is places on the convention services department and manager. Topics include concept, design, feasibility, marketing, financial management, staging, staffing, safety and security, careers in this particular area of the hospitality industry, and how conference and event planning fits into the overall scope of the industry. (3 lec)

HUM 101 Introduction to Music and Art in Western Civilization

3 Credits

Seeks to develop in students an appreciation of the arts through the study of the great musicians and artists of the Western world. Key examples of music, painting, sculpture, and architecture from the Greeks to the present time will be examined. (3 lec)

HUM 103 Introduction to Art and Design in the 20th Century

3 Credits

Introduces Art and Design in the 20th Century. This course seeks to develop students' appreciation of art and design through the study of influential artists and designers in the 20th Century. Key examples of architects, industrial designers, painters and sculptors will be examined. (3 lec)

ISA 101 Industrial Safety

3 Credits

Teaches students to recognize, avoid, and prevent hazards in the workplace and includes information on individual rights to a safe, healthy work environment, in accordance with the U.S. Department of Labor. (3 lec)

KOR 101 Beginning Korean

3 Credits

Designed for those who have no prior knowledge in Korean. Aims to teach students to perform appropriate spoken and written communication in most essential daily life situations. Focuses on mastering correct pronunciation, writing system, and basic vocabulary and grammar used in carrying out simple real-life tasks; students will learn

how to speak, understand, read and write short sentences and paragraphs on concrete and familiar topics such as identity, school and classes, daily activities, past experiences and future plans. Introduces Korean culture essential for a better understanding of Korean language. (3 lec)

KOR 102 Beginning Korean II

3 Credits

KOR 102 is the second half of the beginning level Korean, and is designed for those who have some prior knowledge in Korean. This course aims to train students to perform appropriate spoken and written communication in most essential daily life situations. This course will focus on mastering correct pronunciation, writing system, and basic vocabulary and grammar used in carrying out simple real-life tasks; students will learn how to speak, understand, read and write short sentences and paragraphs on concrete and familiar topics such as identity, school and classes, daily activities, past experiences and future plans. This course will also introduce Korean culture essential for a better understanding of Korean language. (3 lec) **Prerequisite: KOR 101 or Instructor permission.**

LAE 013 Introduction to Writing I

3 Credits

Develops grammar, usage, and sentence structure skills at the paragraph and essay level, along with techniques of pre-writing, writing, and revising multiple drafts using the word processor and peer reading and editing. Students practice a variety of rhetorical patterns with emphasis on unity, support, coherence, and sentence skills. *Minimum grade of C to pass course.* (3 lec) Placement: WR Accuplacer score ≤ 4

LAE 041 Reading in Childhood Education

3 Credits

Helps students build critical reading and study skills needed for college success. Introduces students to the field of childhood education and familiarizes students with essential vocabulary and introductory concepts within the educational field. Issues and trends in childhood education will be explored and integrated into reading, writing and critical thinking projects. *Minimum grade of C to pass the course.* (3 lec) **Placement: Appropriate scores on Accuplacer.**

LAE 042 Supported Study in Early Childhood and Education

1 Credit

Helps students build skills in reading, writing, research and critical thinking in the fields of Early Childhood and Education. Introduces students to relevant vocabulary and concepts and provides assistance with assignment procedures. Supports students in acquiring the skills necessary to be successful with college level work. (1 lec)

LAM 008 Pre-Algebra

3 Credits

Offers a one-semester review of whole number operations, fractions, decimals, percents, proportions, metrics, measurements, signed numbers, area, volume, algebraic expressions, and simple and linear equations. (3 lec) Placement: AR Accuplacer score < 75. (Note: Some students may require multiple semesters of LAM 008 to acquire the knowledge for this level of achievement).

LAM 009 Introductory Algebra

3 Credits

Introduces students who may possess a strong background in arithmetic to some basic principles of algebra in preparation for more advanced coursework. Topics include signed numbers, algebraic expressions, equations and inequalities, polynomials, word problems, fractions graphing and factoring. (3 lec) Placement: AR Accuplacer score > 75 and EA Accuplacer score < 75 or successful completion of LAM 008 with a grade of C or better.

LAM 019 Accelerated Developmental Mathematics

3 Credits

Designed for the student who has a strong arithmetic background but either needs a refresher in algebraic concepts or has no algebra experience. This course is focused primarily on the areas of deficiency in a student's math background and, at each individual student's pace, potentially allow students a college-level math course at the end of the semester. (3 lec) Placement: AR Accuplacer score > 65 and EA Accuplacer score <65, MAT 113 or MAT 119

MAS 101 Introduction to Medical Assisting

1 Credit

Presents a variety of topics pertinent to the Medical Assisting profession. Subjects covered will include the principles governing the release of information and the confidentiality of patient information; the laws, regulations, ethics and other standards affecting the management of health care and the principles of liability resting with the medical assistant professional; and an overview of the health care professional's role and responsibility. (1 lec)

MAS 111 Clinical Procedures I & Lab

4 Credits

Serves as an introduction to the medical assistant's role in obtaining patient histories, maintaining medical asepsis, assisting in physical exams for all of the medical specialties and in minor office surgery, collecting laboratory specimens, and performing vital signs. Students will develop an understanding of pathophysiology and prepare and implement appropriate patient educational tools. (3 lec, 2 lab) **Prerequisites: BIO 121, MAS 101, BMT 113**

MAS 121 Medical Office Procedures

3 Credits

Develops skills using computerized medical office programs to initiate and input patient data; includes scheduling appointments, filing insurance claims, recording patient information, managing accounts receivable and accounts payable; banking and processing payroll. (3 lec) **Prerequisite: BMT 113**

MAS 131 Math Methods for Medical Assistants

3 Credits

Introduces students to the mathematics that have applications in the Medical Assisting profession. This course will include percents, proportions, measurement systems and conversion procedures, dosage calculations, graphing, charts and tables and an introduction to algebra. (3 lec) Prerequisite: AR Accuplacer score ≥ 75, EA Accuplacer score ≥ 75.

MAS 201 Principles of Pharmacology

3 Credits

Introduces the basic concepts of pharmacology. Major drug categories will be covered as they relate to the different body systems. The general principles of drug action,

absorption, metabolism and excretion, as well as methods of administration will be introduced. This course will also cover mathematics and dosage calculations necessary for safe preparation and administration of medications. (3 lec) **Prerequisites: BIO 121, BIO 124, MAS 111, and BMT 113**

MAS 211 Clinical Procedures II and Lab

4 Credits

This course will complete the clinical preparation of the coursework for Medical Assistants. The clinical competencies intended for this course include medication administration, specimen collection including phlebotomy, laboratory procedures, assisting with minor surgical procedures and medical emergencies, diagnostic procedures, and CPR. (3 lec, 2 lab) **Prerequisite: MAS 111**

MAS 221 Insurance Coding for the Medical Office

3 Credits

Develops a basic understanding of procedural and diagnostic coding through use of CPT and ICD-10 Clinical Modification coding systems. Students will learn to process insurance claim forms while adhering to legal restrictions, and develop an understanding of the specific requirements for managed care systems including "Maine specific" insurance carriers. (3 lec) **Prerequisites: BIO 121, MAS 121, BMT 113**

MAS 231 Medical Assistant Externship

5 Credits

Students gain practical experience in providing clinical care to patients and performing administrative and clinical tasks that occur in a medical office. Students are given the opportunity to apply learned clinical, laboratory and administrative skills in a health care setting under professional supervision and to gain clinical proficiency. Students are required to complete a 160 hour unpaid, supervised practicum in a program approved health care setting. (1 lec, 160 hours). Prerequisites: All MAS coursework and Program Director approval; CPR and First Aid certification.

MAT 101 Contemporary Math

3 Credits

Designed to introduce the student to mathematics having applications in modern society. Topics will include social choice, apportionment, fair division, networks, circuits, planning and graphical solutions to linear programming. Additional topics may be drawn from statistics, coding, growth, symmetry, tilings and game theory. (3 lec) Prerequisites: AR Accuplacer score ≥ 65, EA Accuplacer score ≥ 65.

MAT 107 Elementary Descriptive Geometry

3 Credits

Designed to prepare students to teach the geometry included in a modern NCTM STANDARDS based K-8 curriculum. Emphasis will be on geometric exploration activities, problem solving and informal deductive reasoning using many of the manipulatives used to teach geometric concepts in grades K-8. (3 lec) **Prerequisites:** AR Accuplacer score ≥ 65, EA Accuplacer score ≥ 65.

MAT 108 Elementary Numerical Mathematics from a Modern Perspective 3 Credits

Designed to prepare students to teach the non-geometric mathematics included in a
modern NCTM STANDARDS based K-8 curriculum. Emphasis will be on the structure of
arithmetic, development of good number sense, basic number theory, understanding
probability and the use of descriptive statistics. Focuses on problem solving, and the

development of arithmetic and algebraic reasoning skills. (3 lec) **Prerequisites:** AR Accuplacer score ≥ 65, EA Accuplacer score ≥ 65.

MAT 113 Technical Mathematics I

3 Credits

Emphasizes arithmetic review, ratio, proportion, variation, power of roots, percent, metric system, unit conversions, signed numbers, basic algebraic expressions, algebraic operations, simple equations, inequalities, applied plane and solid geometry review (perimeter, area, and volume), graphing, and right triangle trigonometry. (3 lec, 0 lab or 2 lec, 2 lab; or 1 lec, 4 lab) Prerequisites: Prerequisite: AR Accuplacer score ≥ 75, EA Accuplacer score ≥ 75.

MAT 114 Technical Mathematics II

3 Credits

Emphasizes basic algebraic operations, factoring, algebraic fractions, exponents, radicals, scientific notation, quadratic equations, and logarithms, fundamentals of statistics, simultaneous linear equations, law of sines, cosine law, oblique triangles, vectors and radians. (3 lec, 0 lab) **Prerequisite: MAT 113 or MATL 113 with a grade of C or better.**

MAT 119 College Algebra

3 Credits

Builds a solid foundation in algebraic methods and techniques. Covers proportions, fundamental algebraic concepts and operations, linear equations and inequalities, absolute value, solving word problems, algebraic products and factoring, algebraic equations, graphs of functions, quadratic equations, determinants, systems of equations, exponents and radicals, log functions, and theory of equations. (3 lec) Prerequisites: AR Accuplacer score ≥ 75, EA Accuplacer score ≥ 75 or LAM009 with grade of C or better.

MAT 120 College Trigonometry

3 Credits

Topics include degree and radian angle measure, right triangle trigonometry and its applications, trigonometric functions and their inverses, graphing trigonometric functions, applications of trigonometric functions, analytic trigonometry, solutions of oblique triangles, vectors, polar coordinates, graphs of equations in polar coordinates and the trigonometric form of complex numbers including DeMoivre's Theorem. (3 lec) **Prerequisite: Grade of C or better in MAT 119 or equivalent.**

MAT 123 College Algebra and Trigonometry

4 Credits

Covers variables and symbols, scientific notation, logarithms and applications, roots, rational exponents and complex numbers, formulas and literal equations, polynomials, products and factors, solving linear, quadratic and higher order equations, rational expression, solving inequalities, graphs of linear and quadratic functions, slope, intercepts and equations of lines, solving systems of equations, degree and radian angle measure, right angle trigonometry and its applications, trigonometric functions and their inverses, graphing trigonometric functions, solutions of oblique triangles, vectors, polar coordinates, graphs of equations in polar coordinates, and the trigonometric form of complex numbers including DeMoivre's Theorem. (4 lec) Prerequisites: AR Accuplacer score ≥ 75, EA Accuplacer score ≥ 75

MAT 160 Elementary Discrete Mathematics

3 Credits

Designed to improve students' critical-thinking and problem solving skills and emphasizes topics related to computer science. Topics include logic and truth tables, set theory, functions, number systems, mathematical induction, algorithms, combinatorics, equivalence relations, recurrence relations, graph theory and trees. Additional topics may include error correcting codes, finite state automata, and encryption. (3 lec) Prerequisite: MAT 119 and MAT 120 with grade of C or better or MAT 123 with grade of C or better, or equivalent.

MAT 161 Introduction to Statistics

3 Credits

Introduces statistical theory including the nature of statistical methods, the manner of data collection and presentation, the rules of probability, frequency distributions, sampling distributions, estimation and hypothesis testing, regression and correlation. (3 lec) Prerequisite: AR Accuplacer score ≥ 75, EA Accuplacer score ≥ 75.

MAT 217 Pre-Calculus 3 Credits

Designed to deepen and broaden a student's mathematical expertise before tackling the rigors of calculus, this course covers progressions, the binomial theorem, theory of polynomials with the Fundamental Theorem of Algebra, exponential and logarithmic functions, determinants, matrices, trigonometric identities, and fundamentals of plane analytic geometry. (3 lec, 0 lab) Prerequisites: MAT 119 and 120 with grade of C or better or MAT 123 with grade of C or better, or equivalent.

MAT 225 Calculus I 4 Credits

An introduction to calculus for students in mathematics, engineering, and the sciences. Covers the differential calculus of the algebraic, trigonometric, exponential and logarithmic functions, concluding with the definite integral and the fundamental theorem of calculus. The approach is intuitive and geometric, with emphasis on understanding the basic concepts of function, limit, derivative and integral. (4 lec, 0 lab). **Prerequisites:** MAT 217 or equivalent with grade of C or better.

MAT 226 Calculus II 4 Credits

Completes the study of single-variable calculus. Topics covered include inverse trigonometric functions, hyperbolic functions, methods of integration, improper integrals, indeterminate forms, parametric equations, polar coordinates, and infinite series. (4 lec) **Prerequisite: MAT 225 with grade of C or better.**

MAT 227 Calculus III 4 Credits

Topics include vector-valued functions, partial derivatives, multiple integrals, and the integration theorems of Green and Stokes. (4 lec) **Prerequisite: MAT 226 with a C or better.**

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MAT 230 Introduction to Linear Algebra

3 Credits

A course on matrix theory and linear algebra. Emphasis placed on topics useful in other disciplines, including systems of equations, vector spaces, determinants, eigenvalues, similarity, and positive definite matrices. (3 lec). **Prerequisite: MAT 227 with a C or better.**

MAT 235 Elementary Differential Equations

3 Credits

An introduction to ordinary differential equations including first order differential equations, linear equations of higher order, power series methods, LaPlace transform, and applications. (3 lec) **Prerequisite: MAT 226 with a C or better.**

MATL 113 Technical Mathematics with Lab

3 Credits

Emphasizes arithmetic review, ratio, proportion, variation, power of roots, percent, metric system, unit conversions, signed numbers, basic algebraic expressions, algebraic operations, simple equations, inequalities, applied plane and solid geometry review (perimeter, area, and volume), graphing, and right triangle trigonometry. (2 lec, 2 lab) Prerequisites: AR Accuplacer score > 75, EA Accuplacer score < 75. Note: Credit cannot be awarded for both MATL113 and MATL113.

MRT 101 Basic Concepts of Radiography

1 Credit

Introduces the student to the field of radiology as a profession. Topics such as the history of radiology, radiographic equipment, radiation exposure, and radiation safety are discussed. A radiographer's role in the care of the patient is reviewed. A brief discussion of several radiographic procedures is provided. (1 lec)

MRT 111 Radiographic Positioning I

3 Credits

Introduces radiographic positioning and describes in detail the routine positions required to demonstrate the chest, abdomen, extremities, and portions of the pelvic and shoulder girdle. The laboratory component provides the opportunity for students to radiograph the phantom and under simulated conditions, practice various procedures that have been presented in the classroom. (3 lec, 1 lab) **Prerequisite: Admission to the Medical Radiography program.**

MRT 112 Radiographic Positioning II

3 Credits

Describes in detail the routine positions required to demonstrate the spinal column, thoracic cage, portions of the pelvic girdle, and all parts of the skull. The laboratory component provides the opportunity for students to radiograph the phantom and under simulated conditions, practice various procedures that have been presented in the classroom. (3 lec, 1 lab) **Prerequisite: MRT 111**

MRT 117 Radiologic Procedures I

1 Credit

Introduces procedures requiring the use of contrast media, fluoroscopy, and portable radiographic equipment. (1 lec, 0 lab) **Prerequisite: Admission to the Medical Radiography program.**

MRT 118 Radiologic Procedures II

1 Credit

Continues instruction in procedures requiring the use of contrast media and fluoroscopy and introduces specialized radiographic examinations. (1 lec, 0 lab) **Prerequisite: MRT 117**

MRT 121 Principles of Radiographic Exposure I

2 Credits

Provides the student with a thorough understanding of the theory of x-ray production, x-ray interactions within tissue, selection of technical factors, and correlates this knowledge with practical application. (2 lec) **Prerequisite: Admission to the Medical Radiography program.**

MRT 122 Principles of Radiographic Exposure II

2 Credits

Expands on the variables that affect the radiographic image. Understanding of these critical factors allows for adaptation for procedures involving pediatric patients, mobile radiography patients, and atypical adult patients. The student will also develop knowledge of digital imaging. (2 lec) **Prerequisite: MRT 121**

MRT 131 Medical Terminology

1 Credit

Presents a general study of medical terminology, focusing on definition by analysis of components. (1 lec)

MRT 151 Introduction to Health Care

2 Credits

Discusses the radiographer's role in caring for the needs of the ill or injured patient undergoing radiographic examination. Acquaints the student with the principles of medical ethics and the responsibilities of the allied health professional. Introduces body mechanics, medical aseptic technique, first aid, observation of vital signs, management of medical emergencies in the radiology department, and basic care of special and surgical patients. (2 lec) **Prerequisite: Admission to the Medical Radiography program.**

MRT 161 Clinical Education I

5 Credits

Introduces students to the clinical area. The lecture portion of the course acquaints students with hospital, department, and program policies and procedures, as well as familiarizes them with image evaluation, and provides basic instruction in radiation protection. The clinical portion acquaints the student with room preparation, body mechanics, patient positioning, radiographic procedures, imaging processing, and interaction with patients. Students begin the semester by observing procedures and assisting the radiographer with aspects of the procedure that have been presented in the classroom. Clinical rotations correlate with didactic education and focus on basic procedures involving radiographic positioning of the chest, abdomen and extremities; basic bedside radiography; fluoroscopy; body mechanics; medical ethics and patient care; image processing; departmental record-keeping; and medical computer usage. Students are exposed to the operating room to introduce them to radiography in a sterile environment. Students begin competency testing on basic procedures such as chest, abdomen, hand, and wrist. (2 lec, 14 lab) **Prerequisite: Admission to Medical Radiography program.**

MRT 162 Clinical Education II

5 Credits

Encourages students to take a more active role in basic radiographic procedures, emphasizing technique-selection, radiographic positioning, explanation of procedures to the patients, and clerical tasks associated with radiography. Students begin taking a participatory role in operating room procedures and neonatal special care radiography. The scope of procedures expands to include the thoracic cage, pelvic girdle, spine, and all parts of the skull. In fluoroscopy assignments, students take a more active role in gastrointestinal and barium enema procedures, and expand their participation in procedures such as myelography, cystography, arthrography, and endoscopic studies. Students continue competency testing in basic procedures such as stretcher chest, pediatric chest, extremities, pelvis and lumbar spine. To verify continued competency, students are retested over a competency exam successfully passed the previous semester. (1 lec, 15 lab) Prerequisites: MRT 111, MRT 117, MRT 121, MRT 161; Pre- or Co-requisite: MRT 131 or BMT 113

MRT 163 Clinical Education III

5 Credits

Allows students to continue gaining proficiency in procedures and positions, and gives them the opportunity to put into practice radiographic exposure principles presented in the first two semesters of the program. The scope of the procedures expands to include cranial and trauma radiography, and procedures performed on the panorex unit. A Carm inservice is presented, and students continue supervised participation in surgical and non-surgical procedures. Students perform competency testing in procedures such as hip, forearm/elbow, shoulder, lower leg, erect and decub abdomen, c-spine or t-spine, digital fluoro, and UGI series. To verify continued competency, students are "retested" over two competency exams successfully passed in previous semesters. (2 lec, 38 lab) Prerequisites: BIO 122, MRT 112, MRT 118, MRT 122, MRT 162

MRT 164 Advanced Clinical Education II

1 Credit

Provides supplementary clinical experience to motivated first-year radiography students as they begin taking a more active role in radiographic procedures. This course may be taken multiple times for credit. (0 lec, 4 lab) **Prerequisites: MRT111, MRT117, MRT121, MRT151, MRT161; Co-requisite: MRT162 or MRT163**

MRT 211 Radiographic Positioning III

1 Credit

Expands on MRT 111, Radiographic Positioning I, with emphasis on analysis and comparison of various positions and on positioning of non-routine and trauma views. (1 lec). **Prerequisite: MRT 111**

MRT 212 Radiographic Positioning IV

1 Credit

Expands on MRT112, Radiographic Positioning II, with emphasis on analysis and comparison of various positions, and on positioning of non-routine and trauma views. (1 lec) **Prerequisites: MRT 112, MRT 117**

MRT 219 Imaging Modalities

1 Credit

Acquaints current radiography students with modalities other than diagnostic imaging. Topics include, but are not limited to, sonography, nuclear medicine, radiation oncology,

and magnetic resonance imaging (MRI). (1 lec) **Prerequisites: BIO 121/122, Admission to the Medical Radiography program.**

MRT 222 Principles of Imaging Physics

1 Credit

Reviews the basic exposure principles presented in the first year of the program and emphasizes the practical applications of these principles. This course expands student knowledge of radiographic equipment as it relates to fluoroscopic imaging. This course acquaints students with quality assurance within the radiography department.

(1 lec, 1 lab) Prerequisites: MRT 122. Pre- or Co-requisite: PHY 235

MRT 230 Radiology Review and Career Planning

1 Credit

Prepares the senior radiography student to enter the field of radiology as a profession. Topics such as test taking strategies, resume writing, job applications and interviews are briefly discussed. Several Mock Registry Exams will be administered and reviewed with students in preparation for the American Registry for Radiologic Technologists (ARRT) Certification Examination. (1 lec) Prerequisites: MRT 122, MRT 211, MRT 219, MRT 251, MRT 255, BIO 272. Co-requisites: MRT 212, MRT 222, PHY 235 or permission.

MRT 251 Advanced Health Care

1 Credit

Provides students with advanced patient care methods. Focuses on drug administration and phlebotomy, EKG testing, and emergency medical care for trauma patients. A review of medical ethics is discussed. (1 lec) **Prerequisite: MRT 151**

MRT 255 Pathology 1 Credit

Explores physiological changes which occur as the result of disease and injury. Focuses on the radiographic manifestations of such changes and discusses the importance of those skills required to produce radiographs which demonstrate the disease or injury. (1 lec) **Prerequisites: BIO 122, MRT 112**

MRT 261 Clinical Education IV

6 Credits

Advances students into areas of less direct supervision and more independent performance, based upon demonstration of competence. Emphasis is placed on refinement of skills in routine areas and involvement in nonroutine procedures and situations, with students expected to offer proposals for compensatory measures. After course instruction in related imaging modalities (MRT 219, Imaging Modalities), students begin clinical rotations through those areas. Competency testing continues on procedures such as humerus; patella knee views; trauma shoulder, hip and extremity; portable abdomen, extremity, and pediatric chest; pediatric extremity; c-spine or t-spine; small bowel and barium enema series; and headwork exams of panorex mandible and orbits. To verify continued competency, students are "retested" over two competency exams successfully passed in previous semesters. (24 lab) **Prerequisite: MRT 163**

MRT 262 Clinical Education V

7 Credits

Allows students to work on skills refinement of routine procedures, and provides increased participation in radiography of the atypical patient. Students continue rotations in related imaging modalities. Students participate in electrocardiography, phlebotomy, and observation and documentation of vital signs at a clinical affiliate. Competency

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testing continues on procedures such as trauma extremity, c-spine and a multiple trauma procedure; surgical spine and extremity; c-arm procedure; sinuses, ribs and femur; vital signs and venipuncture. To verify continued competency, students are "retested" over two competency exams successfully passed in previous semesters. (27 lab) **Prerequisites:** MRT 219, MRT 251, MRT 255, MRT 261 or MRT 267

MRT 264 Advanced Clinical Education V

1 Credit

Provides supplementary clinical experience to motivated second-year radiography students as they work on skill refinement of routine procedures and radiography of the atypical patient. This course may be taken multiple times for credit. (4 lab) Prerequisites: MRT 211, MRT 219, MRT 251, MRT 255, MRT 261; Co-requisite: MRT 262 or MRT 265

MRT 265 Clinical Education VI

3 Credits

Provides the student with the opportunity to clarify all theory presented in the classroom, and to gain self-confidence. Students continue rotations through related imagining modalities. Competency testing finalizes with headwork examinations over facial bones, skull, and mandible. To verify continued competency, students may be "retested" over two competency exams successfully passed in previous semesters. (40 lab) **Prerequisite:**MRT 222 and MRT 262

MRT 270 Clinical Education V

7 Credits

Allows students to work on skills refinement of routine procedures and provides increased participation in radiography of the atypical patient. Students continue rotations in related imaging modalities. Students participate in electrocardiology, phlebotomy, and observation and documentation of vital signs at a clinical affiliate. Competency testing continues on procedures such as trauma extremity, c-spine and a multiple trauma procedure; surgical spine and extremity; c-arm procedures; mandible, skull and sinuses; ribs and femur; vital signs and venipuncture. To verify continued competency, students are "retested" over two competency exams successfully passed in previous semesters. (35 lab) Prerequisites: MRT 219, MRT 251, MRT 255, MRT 267

MUS 123 Understanding Music

3 Credits

Introduces students to the fundamentals of music theory, history, and composition by examining how music was and is composed through a variety of historical periods. Will include a study of major composers and musical works from the Middle Ages to today. Will fulfill the general education requirement for an elective 100-level course in Humanities. (3 lec)

NRG 111 Dose Calculation

1.5 Credits

Provides instruction in the calculations required for the mathematical component of drug administration, designed primarily for nursing students. It begins with a review of basic mathematics. This is followed by content addressing the computation of drug dosages for medications administered by a variety of routes. Throughout, emphasis is placed upon the language of prescriptions; interpretation of medication orders and drug labels; selection of administration equipment; and avoidance of medication administration

errors. (1.5 lec) Prerequisites: Admission to nursing program; or interested in nursing with passing grade of > 65 in Accuplacer AR and permission of instructor.

NUR 105 Foundations of Nursing

8 Credits

Introduces the role of the nurse as a member of the health care team. Student learning focuses on the Nursing Process as it addresses basic human needs, and stresses the impact of culture, values and beliefs, and internal and external stressors on health and illness. Principles of nutrition, communication, pharmacology, and teaching-learning are integrated. Selected clinical experiences expand upon laboratory learning of basic nursing skills. (5 lec, 9 clinical) Prerequisite: Admission to Nursing program; BIO 121, BIO 124; Co-requisites: BIO 122, BIO 126, BIO 251, PSY 101

NUR 107 Introduction to the RN Role Transition

1.5 Credits

This course addresses the role transition from Licensed Practical Nurse (LPN) to Associate Degree Nurse (ADN). Course content includes the nursing process and physical assessment in both class and lab settings. **Prerequisites:** successful completion of a Practical Nursing (PN) Program, current licensure as a Practical Nurse (LPN) and admission to the ADN program. **Co-requisites: BIO 251, PSY 101**

NUR 136 Nursing Across the Lifespan I

10 Credits

Provides the knowledge and skills necessary to care for individuals experiencing alterations in meeting their basic human needs as they relate to medical-surgical system alterations and mental health issues. Students use a family centered approach in caring for individuals across the lifespan and explore preventive maintenance and restorative nursing interventions within the nursing process framework. This course applies basic knowledge learned in NUR 105, Foundations of Nursing, along with nutrition, pharmacology, communication skills, psychology and teaching learning principles. Classroom content correlates with selected learning experiences in structured health care settings. (6 lec, 12 clinical) Prerequisites: NUR 105 or NUR 107 (for advanced placement students only), BIO 122, BIO 126, and BIO 251, PSY 101; Co-requisites: PSY 231, ENG 101

NUR 267 Nursing Across the Lifespan II

8 Credits

Prepares the nursing student to function as an effective nurse generalist using a family-centered approach to health care. Emphasizes the collaborative care and management of patients with a focus on neurological, cardiovascular, maternal-newborn, and pediatric nursing. Uses the nursing process and critical reasoning to guide therapeutic nursing interventions. Principles of nutrition, communication, pharmacology, and teaching-learning are integrated. Provides correlative clinical and laboratory experiences that enable students to apply theory and perform skills under supervision of nursing faculty in acute care settings. (4 lec, 12 clinical) Prerequisites: NUR 136, PSY 231, ENG 101; Corequisites: NUR 281, BIO 216, SPE 101

NUR 270 Nursing Across the Lifespan III

8 Credits

Builds on previous theoretical and clinical learning experiences while increasing the student's knowledge and responsibility in the care of clients with multiple and complex health issues, including the nurse's role and responsibility in emergency and disaster

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situations. End of life care and chronic disease management is included. This course includes didactic and case study classroom work. Clinical experiences include supervised advanced clinical medical/surgical skills, a partnership experience, and practice of management skills in health care facilities. At the completion of this course, students are able to provide and manage comprehensive care in a variety of clinical settings. (4 lec, 12 clinical) Prerequisite: NUR 267, NUR 281, BIO 216, SPE 101; Co-requisite: NUR 282

NUR 281 Professional Issues I

1 Credit

This advanced nursing course is an introduction to the professional issues of nursing leadership and management. The nursing roles of leader, manager, educator, clinician, researcher and mentor will be explored. Students will use computer technologies to enhance the development of project management skills. Teaching methods include case study reviews, lecture, group discussions and project development and simulations. (1 lec) Prerequisites: NUR 136, PSY 231, ENG 101; Co-requisite: NUR 267

NUR 282 Professional Issues II

1 Credit

Continuing with the themes explores in NUR 281 and expanding the practice framework, this course focuses on the entry into professional nursing and role transition. Emphasis is on nurse's role as a member of the healthcare team in ethical-legal issues in professional practice, including safety, delegation, and prioritization; and political-economic issues. (1 lec) Prerequisites: NUR 267, NUR 281, BIO 216, SPE 101; Corequisite: NUR 270

NUT 221 Nutrition 4 Credits

Through a combination of lecture, class discussions, cooking labs and project presentations, students will learn the role of nutrition in culinary arts. (3 lec, 2 lab)

ORT Course Approval Pending

PHI 101 Ethics 3 Credits

Focuses on justifiable parameters for making ethical decisions. Introduces the history of ethical thinking and decision making. Utilizes case study and team format to explore and discuss ethical thinking and choosing. Provides a three part framework for critical thinking and choosing when faced with ethical dilemmas. (3 lec)

PHI 105 Comparative World Religions

3 Credits

Introduces major religions of the world with a view of their theological perspectives and their mythologies, and their history and relationships to one another. Discusses religions' impact on the global community as well as their role in the lives of the faithful. Religions included in the course are animism, ancestor worship, nature faiths to the regions of the Indus Valley, Hinduism, Buddhism, Sikhism, Jainism, Judaism, Christianity, and Islam. (3 lec)

PHI 291 Topics in Philosophy

3 Credits

Focuses on a different topic each time it is offered. Can be taken more than once (3 lec.)

PHY 108 Survey of Applied Physics

4 Credits

This is a one-semester overview of general physics. Major topics include mechanics, energy and motion, simple machines, fluid flow, temperature and thermal expansion, electricity and magnetism. This is a laboratory course emphasizing hands-on learning and problem solving techniques. (3 lec, 2 lab) **Prerequisite:** MAT 113 or MAT 119 with a grade of C or better or permission.

PHY 109 Concepts in Physics

4 Credits

Emphasizing concepts, this course consists of a Newtonian core following by modern post-Newtonian ideas and societal issues. Demonstrations and laboratory exercises are integrated with traditional lecture/discussion, outside readings, and homework. This course satisfies a general education laboratory science requirement. (3 lec, 2 lab)

PHY 118 Independent Study in Physics

1 Credit

An independent study. Topics covered will be material not included in PHY 108. Course is a supplement to the PHY 108 course that will allow students with a particular interest to go beyond the topics covered in the PHY 108 course. Topics included: light and optics.

PHY 121 Physics I 3 Credits

The first of a two-semester sequence, this course stresses the qualitative and quantitative aspects of vector analysis, kinematics, dynamics, energy concepts, and includes an introduction to thermodynamics. Particular topics include projectile motion, circular motion, simple machines, thermal properties of matter, and heat transfer. (3 lec, 0 lab) Prerequisites: A functional knowledge of algebra and trigonometry is required. A grade of C or better in MAT 119 and MAT 120 is recommended; Co-requisite: PHY 122

PHY 122 Physics I Laboratory

1 Credit

Reinforces topics covered in PHY 121, Physics I. (2 lab) Co-requisite: PHY 121

PHY 123 Physics II 3 Credits

The second of a two-semester sequence, this course stresses the qualitative and quantitative aspects of vibrations and waves, electricity and magnetism, and early quantum theory. Particular topics include mechanical waves, sound, light, optics, DC and AC circuits and basic atomic structure. (3 lec) Prerequisite: PHY 121 with a grade of C or better; Co-requisite: PHY 124

PHY 124 Physics II Laboratory

1 Credit

Reinforces topics covered in PHY 123, Physics II. (2 lab) Co-requisite: PHY 123

PHY 235 Radiologic Physics

3 Credits

Encompasses an overview of classical physics plus a number of topics specifically directed to the radiographic technician. Topics will include measurements of matter and energy; mechanical and electrical work, power, and energy; DC and AC circuits; x-ray machine

circuitry; and photon/matter interactions. Prerequisites: MAT 119 and High School Physics or PHY 108 or PHY 109 with grade of C or better

PSY 101 Introduction to Psychology

3 Credits

Introduces the major areas of contemporary psychology, including research methods, physiological psychology, perception, consciousness, learning, development, intelligence, and abnormal behavior. (3 lec)

PSY 211 Human Relations

3 Credits

Provides skills-based training, focusing on assertiveness, empathic listening and responding, sending and receiving clear messages, flexing to different styles, adapting tasks to include motivational strategies, praising and critiquing, transactional analysis, and effectively dealing with defense mechanisms and groupthink. (3 lec) **Prerequisites: ENG 101 and PSY 101 desired; course not recommended as a first-semester course**

PSY 214 Teams - Principles and Practices

3 Credits

Explores and applies the psychological and practical applications of team building principles. Also examines current concepts in leadership skills as applied to teamwork. Included topics are group dynamics, problem analysis and problem solving tools, effective communications in a group setting, leadership tools, consensus, and facilitation skills. The course utilizes self-directed and cross functional teams, resulting in a 'teams teaching teams' format. Prerequisites: PSY 101 or PSY 211 recommended; senior status recommended

PSY 231 Developmental Psychology

3 Credits

Introduces theories and principles of development in psychology, emphasizing human socio-emotional and cognitive development from birth to death. (3 lec) **Prerequisite: PSY 101**

PSY 235 Abnormal Psychology

3 Credits

Examination of the historical and contemporary viewpoints of abnormal behavior. Course includes an in-depth analysis of different disorders, their etiologies, treatment options and symptomology. Integration of the current Diagnostic and Statistical Manual of Mental Disorders' criteria is included. Objectives of the course are implemented through case study analysis and discussion of clinical assessment, diagnosing and treatment modalities. (3 lec) Prerequisite: PSY 101

PSY 241 Peer Education

1 Credit

The Peer Education Class seeks to influence the campus community by engaging students in service projects on and off campus. Peer educators promote health and wellness education by providing programs, events, and other public health initiatives to peers in order to create a more caring, compassionate, and connected campus community. The course provides students with the skills to develop and execute workshops, presentations and awareness events in the college community on topics such as: alcohol, drugs, academics, stress, diversity, gender issues, health and wellness, relationships, sexuality, body image, sexually transmitted diseases, and others. (2 lec)

RAH 103 Refrigeration and Air Conditioning Lab I

2 Credits

Applies theories gained from RAH 113, Refrigeration Components & Physical Principles; RAH 123, Refrigeration Systems and Flow Controls; and RAH 133, RAH Electricity I. Affords opportunities to fabricate and troubleshoot small commercial refrigeration units in the laboratory environment. 15-Week Course 6 lab)

RAH 104 Refrigeration and Air Conditioning Lab II

2 Credits

Expands on the procedures developed in RAH 103, Refrigeration and Air Conditioning Lab I, and integrates principles from electrical and refrigeration theory courses RAH 133 RAH Electricity I; RAH 144 Commercial Refrigeration Systems I; and RAH 147 Commercial Refrigeration Systems II. Students lay out and install commercial refrigeration systems. 15- Week Course (6 lab) Prerequisite: RAH 103

RAH 113 Refrigeration Components and Physical Principles

2.5 Credits

Introduces the physical principles related to the refrigeration cycle, including pressure, work, power, energy, heat, temperature and the gas laws. The course emphasizes the infraction of compressor, condensers, evaporators, and metering devices in refrigeration systems. 7.5 week course (8 lec, 0 lab)

RAH 123 Refrigeration Systems and Flow Controls

2.5 Credits

Continues the focus on refrigeration systems and applications covered in RAH 113 Refrigeration Components and Physical Principles, and explores refrigeration system flow controls and pressure enthalpy diagrams and properties of refrigerants 7.5 week Course (8 lec) Prerequisite: RAH 113

RAH 133 RAH Electricity I

3 Credits

Studies atomic theory, series, parallel and series-parallel circuits while considering basic A.C. theory, electrical power distribution systems, electric controls, and schematic diagrams. 15- Week Course (3 lec, 1 lab)

RAH 138 RAH Electricity II and Motors

3 Credits

Surveys AC Circuits for refrigeration, air conditioning and heating systems and the operation, installation and troubleshooting of the following devices: AC single and three-phase motors and motor starting components, temperature and pressure controls. Additional topics include wire and conduit-sizing and over current protection devices. 15 week course (3 lec, 1 lab) **Prerequisite: RAH 133**

RAH 144 Commercial Refrigeration Systems I

2.5 Credits

Introduces the specific components that comprise a commercial refrigeration system, including the procedures for refrigeration piping lay-out, sizing calculations, and system troubleshooting. The course also covers the application and installation of the different types of evaporators. 7.5-week course (8 lec) **Prerequisite: RAH 123**

RAH 147 Commercial Refrigeration Systems II

2.5 Credits

Focuses on the operation and application of condensers and refrigeration heat exchangers and explores the internal construction and operation of reciprocating, screw, and centrifugal compressors and the different methods of compressor lubrication. The

course also reviews defrost methods, refrigeration service, and maintenance procedures required to insure an energy efficient system. 7.5 week course (8 lec) **Prerequisite: RAH 144**

RAH 171 HVAC Sketching and Print Reading

2 Credits

Introduces drafting and print reading as related to the HVAC industry with special emphasis on residential and light commercial buildings. Course covers architectural and engineering symbols and conventions. (2 lec, 0 lab)

RAH 203 Refrigeration and Air Conditioning Lab III

2 Credits

Continues refrigeration and electrical troubleshooting skills developed in **RAH 104**, **RAH Lab II.** Students lay out, install, and service a variety of heat pumps and gas and oil-fired heating equipment. 15 week course (6 lab) **Prerequisite: RAH 104**

RAH 204 Refrigeration and Air Conditioning Lab IV

2 Credits

Strengthens the troubleshooting skills, knowledge of control circuits, and service techniques from RAH 103, RAH Lab I; RAH 104, RAH Lab II; and RAH 203 RAH Lab III. In addition, students lay out, install, and operate commercial RAH equipment and control systems. 15 week course (6 lab) Prerequisite: RAH 203

RAH 234 RAH Controls I

3 Credits

Explores controls, diagrams, and circuits found in HVAC and Refrigeration applications. Topics include flame safeguard controls, motor protection, and other electronic control devices. 15 week course (3 lec, 1 lab) **Prerequisite: RAH 138**

RAH 237 RAH Controls II and Transformers

3 Credits

Studies the construction and operation of HVAC and Refrigeration control systems and transformers. Students develop diagrams, wire and operate laboratory projects using electrical and electronic controls. 15 week course (2 lec, 2 lab) **Prerequisite: RAH 234**

RAH 264 Heat Pump Systems

2 Credits

Studies the operation and installation of the different types of heat pumps. In addition, the course covers the function of electrical and mechanical components and techniques for servicing heat pumps. 6 week course (8 lec) **Prerequisites: RAH 144 and RAH 147**

RAH 272 Gas Heating Systems

3 Credits

Focuses on the installation and servicing of gas-fired boilers and furnaces. This course includes the National Propane Gas Association CETP modules to meet education requirements for State of Maine propane and natural gas licenses. 9 week course (8 lec) **Prerequisite: RAH 264**

RAH 283 HVAC Systems I

2.5 Credits

Studies the operation, troubleshooting and servicing of oil burners and efficiency testing of oil heating systems. In addition, the course provides an overview of the theory, operation, and applications for HVAC systems. The student studies the different types of fans, pumps, duct systems, piping systems and other components found on HVAC systems. 7.5-Week Course (8 lec) **Prerequisites: RAH 264 and RAH 272**

RAH 287 HVAC Systems II

2.5 Credits

Builds on RAH 283 HVAC systems I, as it relates to energy efficient operation, maintenance, and troubleshooting of commercial HVAC systems. The student applies the procedures or startup, testing, adjusting, and balancing of air delivery, hydronic piping, heating and cooling systems. In addition, the student is exposed to component layout, system design and psychrometric applications for HVAC systems. 7.5 week course (8 lec) **Prerequisite: RAH 283**

SOC 101 Introduction to Sociology

3 Credits

Examines the major perspectives of sociology. Attention is given to such concepts as society, culture, role, status, institution, social organization, social change, social control, deviance, socialization, and the dialectical relationship between individual and society. (3 lec)

SOC 151 Environment and Society

3 Credits

Introduces students to the concepts of ecology and ecosystems, the historical roots of the environmental movement, and some of the major environmental philosophies, including sustainable development, environmental economics, deep ecology, as well as the cornucopian view that human ingenuity and technology can overcome, environmental problems. Covers and debates current natural resource issues including air and water quality, population, energy production, food production, fisheries, land use, habitat loss, the impacts of technology, waste disposal and environmental justice. Local, national, and global issues will be covered. (3 lec)

SOC 201 Understanding the Family

3 Credits

Discusses the family as it impacts the development of young children, examines implications of behavior patterns and explores behavior management techniques which respect the family system. Students will learn skills to facilitate communication and to support families. 15-week course (3 lec) **Prerequisites: ECE 110, SOC 101**

SOC 214 Contemporary Social Problems

3 credits

An overview of contemporary social problems focusing on literature of local and global social problems with an effort made to address possible solutions. (3 lec) **Prerequisite: SOC 101**

SPE 101 Oral Communication

3 Credits

Emphasizes experiential learning. Topics include audience identification, topic development, purpose recognition, organization and delivery, use of props/visuals/technology, overcoming public speaking fears, and the importance of nonverbal communication and signals. (3 lec)

SUR 105 Introduction to Surgical Technology

7 Credits

Introduces the broad field of surgical technology and the basic principles of aseptic techniques and patient care. Students will be expected to demonstrate safe and proper application of procedures and use of equipment. (4 lec, 6 hrs. clinicals) **Prerequisite:** Admission to Surgical Technology program.

SUR 114 Surgical Technology I

15 Credits

Focuses on using basic surgical anatomy, instrumentation and procedural steps in the general surgical, obstetrics gynecology, and orthopedic surgical areas. Takes place in clinical settings. Competence will be assessed for each specialty area. The student observes surgical procedures and applies his or her classroom knowledge to the clinical situation under supervision. (60 lecture hrs., 540 lab hrs.) **Prerequisite: SUR 105**

SUR 117 Pharmacology for Surgical Technologists

2 Credits

Includes basic measurements with math review, nomenclature, dosage, and drug calculations. Stresses safe handling procedures for drugs and solutions, principals of drug use and care of surgical patients. Discusses anesthesia, fluids and electrolytes. (2 lec)

SUR 123 Surgical Technology II

16 Credits

Focuses on using basic surgical anatomy, instrumentation and procedural steps in the genitor-urinary, otolaryngology, eye, plastic and reconstructive, neurosurgery, vascular, and cardiovascular-thoracic areas. Takes place in clinical settings. Competence will be assessed for each specialty area. Students will be assigned to each of the ten surgical services. They will perform scrub and circulating duties at the discretion of the instructors and operating room staff nurses. Students attend both formal and informal classes as well as operating room in-service programs. (90 lecture hrs, 480 lab hrs) **Prerequisite: SUR 114**

TTO 112 Apprenticeship I

12 credits

Documents 4,000 hours of apprenticeship training in a registered State of Maine apprenticeship program. Credits are awarded upon documentation of the successfully completed apprenticeship.

TTO 118 Apprenticeship II

18 credits

Documents 6,000 hours of apprenticeship training in a registered State of Maine apprenticeship program. Credits are awarded upon documentation of the successfully completed apprenticeship.

TTO 124 Apprenticeship III

24 credits

Documents 8,000 hours of apprenticeship training in a registered State of Maine apprenticeship program. Credits are awarded upon documentation of the successfully completed apprenticeship.

WEL 111 Metal Technology

3 Credits

Offers the student the opportunity to develop skills in recognizing concepts of composition, strength and application of metals, and the reaction of metals to each other. Methods of identifying and utilizing different metals in various welding processes will be stressed. 15 week course. (3 lec) **Prerequisite: Admission to the Welding Program or permission.**

WEL 131 Shielded Metal Arc Welding (SMAW), Basic

2 Credits

Provides the student with the opportunity to develop attitudes in welding safety, skills in arc welding fundamentals, operation of welding machine power sources, and accessories,

electrode classification and selection, and welding fillet gauge use. It provides training for skill development necessary to make welds in all positions using E6010 electrodes. An introduction to E7018 low hydrogen electrodes is also included. 4-week course (80 hr.) Prerequisite: Admission to the Welding Program or permission.

WEL 132 Shielded Metal Arc Welding (SMAW), Advanced I 2 Credits

Provides the student with the opportunity to develop skills making multi-pass fillet welds on inside corner joints. It also provides training to develop the manual skills necessary to make quality stringer and weave beads in all positions using 5/32" diameter E6010 and E7018 electrodes on 3/8" mild steel plate. The safe use of oxygen and acetylene flame cutting equipment using manual operations and techniques is also introduced. 4-week course (80 hr.) Prerequisite: WEL 131

WEL 133 Shielded Metal Arc Welding (SMAW), Advanced II 2 Credits

Offers the opportunity to develop skills necessary to produce quality open root single vgroove welds on 3/8" thick mild steel plate. This procedure uses 1/8" diameter E6010 electrodes for the open root pass, 3/32" diameter E7018 electrodes for filler passes and 1/8" diameter E 7018 electrodes for cover passes. The welding positions included are the 2G horizontal, 3G vertical and 4G overhead. Weld quality will be validated utilizing guided bend tests. 3-week course (60 hr.) Prerequisite: WEL 151

WEL 134 Shielded Metal Arc Welding (SMAW), Structural 2 Credits

Introduces the student to requirements of the American Welding Society, Structural Welding Code D1.1 and AWS 389 Standard for AWS Certified Welders. The student has the opportunity to develop skills to make quality groove welds on 3/8" thick plate steel with backing strap, using 1/8" diameter E7018 electrodes in the 2G (horizontal), 3G (vertical up), and 4G (overhead positions). 4-week course (80 hr.) Prerequisite: WEL 132

WEL 135 Shielded Metal Arc Welding (SMAW), Pipe I 2 Credits

Offers the student the opportunity to develop skills in pipe nomenclature, weld quality, uphill pipe procedures, preheating and inter-pass temperatures. It offers training to develop the manual skills necessary to perform proper joint fit-ups and tacking procedures. It also offers the opportunity to develop skills to produce quality multi-pass welds on five (5) inch diameter, schedule 40, mild steel pipe in the 2G horizontal and 5G vertical up positions, using E6010 electrodes for the open root, fillers, and cover passes. 4-week course (80 hr.) Prerequisite: WEL 133

WEL 136 Shielded Metal Arc Welding (SMAW), Pipe II 2 Credits

Offers the student the opportunity to develop skills in pipe welding, determination of weld quality, uphill pipe procedures and applying and maintaining preheat and inter-pass heat treatments. This manual skill development is necessary to produce quality multi-pass welds on 5" diameter, schedule 40, mild steel pipe in the 2G horizontal and 5G vertical up positions using 1/8" diameter E6010 electrodes for the open root, 3/32" E7018 fillers and cover passes. Weld quality will be determined by using the visual and guided bend test. 4-week course (80 hr.) Prerequisite: WEL 135

WEL 137 Shielded Metal Arc Welding (SMAW), Pipe III (ASME Qualification) 2 Credits Offers the student the opportunity to develop the manual skills necessary to produce quality multi-pass welds on 5" diameter, schedule 80, mild steel pipe, using 1/8" E6010 roots and 3/32" E7018 fill and cover passes in the 45degree 6G fixed position. It offers the student training to qualify as a welder in accordance with Section 4, Maine Boiler Rules, and ASME Boiler and Pressure Vessel Code, Section IX for welder qualifications. 4-week course (80 hr.) Prerequisite: WEL 136

WEL 151 Flux-Cored Arc Welding (FCAW)

2 Credits

Provides the student with the opportunity to develop skills using the semi-automatic fluxcored arc welding process. Emphasis on the proper use of semi-automatic equipment, operations, machine adjustments and recognition of weld quality will be introduced. It provides training to develop the manual skills to make quality multi-pass welds in all positions, using 3/8" and 1" thick steel plate. Air carbon arc gouging is also a process that is briefly introduced. 3 week course (60 hr.) Prerequisite: WEL 134

WEL 161 Welding Fundamentals

1 Credit

A comprehensive introduction to welding technology and applications. Welding and related tool use safety applications and personal protective equipment (PPE) are demonstrated, practiced and emphasized. Fundamentals of Shielded Metal Arc Welding (SMAW), Gas Metal Arc Welding (GMAW) and Gas Tungsten Arc Welding (GTAW) processes and their applications are introduced, demonstrated and practiced. Cutting processes are introduced and demonstrated. Quality standards and codes are introduced. (15 hr.)

WEL 186 Blueprint Reading and Drafting for Fitters and Welders 3 Credits

Teaches the meanings of views, lines, sizes, dimensions, and welding terms; emphasizes welding symbols and blueprint reading; and develops basic drawing skills by means of practice with these symbols and with basic orthographic projection exercises. (2 lec, 2 lab) Prerequisite: Admission to the Welding Program or permission.

WEL 222 Quality Assurance/Quality Control

4 Credits

Develops skill in the recognition and application of quality standards in the technical field of welding. Information is presented to explain the relationship between costs and weld quality and the necessary elements that must be considered to develop a quality assurance and quality control program. Development of welding procedures, qualification of procedures, the technical representation of welding discontinuities and defects, and destructive and non-destructive testing are also introduced. 15 week course (90 hr.)

Prerequisite: WEL 111

WEL 265 Gas Metal Arc Welding (GMAW), Basic

1 Credit

Provides the student with the opportunity to develop skills in welding safety, gas metal arc welding fundamentals, gas metal arc equipment and adjustment, metal transfer and shielding gases. It also provides the student the opportunity to develop the manual skills necessary to make high quality gas metal arc welds in all positions on mild steel plate 1/16" to 3/8" thick, single and multipass welds, using the short circuit transfer method using ER 7053 filler wire. 2-week course (40 hr.) Prerequisite: Admission to the Welding Program or permission.

WEL 267 Gas Metal Arc Welding (GMAW), Advanced

1 Credit

Offers the student the opportunity to develop skills and proper attitudes in welding safety and the gas metal arc welding process of aluminum using 5356 plate and 4043 and 5356 wire. Also covered is the flux core arc welding of stainless steel utilizing E309L-T x .035 or .045 diameter wire. Instruction includes fundamental types of equipment and the basic theory and practice of metal transfer. This course offers training to develop the manual skills necessary to produce quality fillet welds on .125, .250 and .375 thick aluminum, stainless or mild steel plate in all positions. 2-week course (40 hr.) **Prerequisite: WEL 265**

WEL 269 GMAW Pipe 1 Credit

Offers the student the opportunity to develop skills in gas metal arc welding of pipe, the proper preparation for welding pipe and the recognition of pipe welding defects. It offers training to develop skills necessary to produce quality groove welds on 6" diameter, schedule 40, mild steel pipe in the 2G, 3G and 6G positions using ER 70-S6 filler wire. 2 week course. (40 hr.) **Prerequisite: WEL 137**

WEL 270 GTAW Basic 2 Credits

Offers the student the opportunity to develop attitudes in welding safety and skills in gas tungsten arc welding fundamentals, recognition of arc characteristics and to make quality welds in all positions on 16 and 11 gauge mild steel, stainless steel and aluminum plate. This course reviews the characteristics of mild steel, stainless and

aluminum place and includes an introduction to aluminum pipe welding. 3 week course (60 hr.) Prerequisite: FIT 235

WEL 277 Gas Tungsten Arc Welding (GTAW), Pipe I

2 Credits

Offers the student the opportunity to develop skills in the Gas Tungsten Arc Welding process for mild steel pipe. It develops the skills necessary to produce quality open root groove welds, on 5" diameter schedule 80 mild steel pipe in the 2G and 5G positions, walking the cup technique to deposit the root and hot pass, and the SMAW process with E7018 low hydrogen electrodes to complete the weld. An introduction to ER309 stainless steel welding in the 6G position is also presented. Weld quality will be validated using guided bend tests. 5-week course (80 hr.) **Prerequisite: WEL 270**

WEL 278 Gas Tungsten Arc Welding (GTAW), Pipe II

2 Credits

Offers the student an opportunity to develop skills in the GTAW process for small-diameter mild steel pipe. Training will be offered to produce quality open root, groove welds on 3-inch diameter schedule 40, and 2-inch diameter XX heavy wall mild steel pipe, in the 2G, 5G, and 6G positions. This course also provides the opportunity for skill

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development in walking the cup technique to deposit the root and hot passes and incorporating the SMAW process with E7018 low hydrogen electrodes for completing the weld. 5-week course (80 hr.) **Prerequisite: WEL 277**

WEL 279 Gas Tungsten Arc Welding (GTAW), Pipe III

2 Credits

Offers the student the opportunity to develop skills in the Gas Tungsten Arc Welding advanced procedures and preparation for welding stainless steel and aluminum pipe. This course prepares the student to produce quality groove welds on 4" diameter, schedule 5 to 10, and stainless steel pipe in the 2G, 5G, and 6G positions. The identification of pipe welding defects is also included. **Prerequisite: WEL 278**

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True Textiles	Bangor Adult Education	
Guilford, Maine	Bangor, Maine	
Mike Lebel	Lt. Col. Darryl Lyon (Council Chair)	
Quirk Auto Park	Maine Army National Guard	
Bangor, Maine	Bangor, Maine	
David Milan	Tom Palmer	
Bucksport Economic Development	Black Bear Inn	
Bucksport, Maine	Orono, Maine	
Larry Reynolds	Susan Roeder	
Retired Educator	EMCC Retired Faculty	
Bangor, Maine	Brewer, Maine	
Connie Ronco	Christopher Winstead	
EMCC Faculty	Piscataquis County EDC	
Bangor, Maine	Dover-Foxcroft, Maine	

Scott Smith	Nicole Stevens
Fastco Fabrication, Inc.	Cross Insurance
Lincoln, Maine	Bangor, Maine
Dianne Swandal	Marie Vienneau
St. Joseph's Healthcare	Mayo Regional Hospital
Bangor, Maine	Dover-Foxcroft, Maine
Tom Violette	Karl Ward
Eastern Maine Healthcare System	Nickerson & O'Day, Inc.
Brewer, Maine	Bangor, Maine
Tracey Whitten	Fred Woodman
University Inn	United Technologies Center
Orono, Maine	Bangor, Maine

EASTERN MAINE COMMUNITY COLLEGE FOUNDATION	
BOARD OF DIRECTORS	
Joseph Cassidy, Interim President	Tammy Bryant
Eastern Maine Community College	Camden National Bank
Bangor, ME	Bangor, Maine
Ruth Kinne Dunbar	Tony DeFeo
People's United Bank	Retired Financial Advisor
Holden, ME	Hampden, ME
Mike Dyer	Mike Haney
Global Spectrum	Formax Direct
Bangor, ME	Brewer, ME
Bob Leavitt	David Milan
Webber Supply Company	Bucksport Economic Development
Bangor, ME	Bucksport, ME
Keith Moon	Jeff O'Sullivan
EMCC Faculty	Hampden, ME
Bangor, ME	
David Simonds	Scott Welch
David H. Simonds, Attorney	Hollywood Casino
Brewer, ME	Bangor, ME
Roberta Winchell	
Winchell Law	
Bangor, ME	

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EASTERN MAINE COMMUNITY COLLEGE PRESIDENT'S CABINET

Interim President, Joseph Cassidy
Dean of Academic Affairs, Elizabeth C. Russell
Dean of Communication and Information Technology, Timothy L. Conroy
Dean of Enrollment Management and Institutional Research, Daniel Crocker
Director of Finance, Gerald Hayman
Director of Institutional Advancement, CarolAnne Dube
Director of Human Resources and Training Manager, Jody Vail
Director of Administrative, Student and Auxiliary Services, Daniel Belyea

FULL-TIME FACULTY

Thomas R. Amnotte 1983

Instructor—Economics, Social Sciences

Master of Professional Studies in Agricultural & Resource Economics, University of Maine; B.S. in Electrical Engineering, Tufts University; State of Maine Certified Teacher; Certified Zenger-Miller Trainer; Certified National Quality Academy Trainer

Anna Arquette 2012

Instructor—English

M.A. and B.A. in English, California State University; B.A.

Armand Auclair 2012

Instructor—Building Construction

NCCER Certified Building Construction Instructor; Lead Renovators Certificate, EPA Certified Lead Renovator; Repair and Paint Instructor; NCCER Certified Weatherization Technician Instructor

Bradley Bailey 2011

Instructor, Building Construction

A.A.S. Building Construction, Eastern Maine Community College

Amanda Bales 2014

Instructor - English

M.F.A in English, Creative Writing, University of Alaska; B.A. in English and Theatre, Oklahoma State University

Christopher Beaumont 2015

Instructor – Fire Science Technology

A.A.S. Fire Science Technology, Southern Maine Community College; A.A.S. Business Management, Eastern Maine Community College

Priscilla T. Bisher 1995

Instructor—Nursing

M.S. in Nursing, University of Oklahoma; B.S.N., D'Youville College; A.A. in Human Services, Vermont College

Troy Blodgett 2000

Instructor—Computer Aided Drafting and Design

B.S. in Applied Technical Education, University of Southern Maine; A.A.S. in Building Construction, Southern Maine Technical College

Bruce Bourgoin 2014

Instructor - Diesel Truck and Heavy Equipment

Pilar Burmeister 2014

Instructor, Nursing

M.S. in Nursing, Mennonite College of Nursing; B.S. in Nursing, University of Texas; Post-Master's Certificate in Nursing Education, Husson University.

Kimberly J. Campbell 1998

Instructor—Medical Office Technology

C.A.S. in Leadership in Higher Education, M.Ed. Educational Leadership, University of Maine; B.S. in Business Teacher Education, Husson College

Harold Casey 2010

Instructor—Computer Systems Technology

M.A. in Educational Leadership, Breyer State University; B.S. in Education, Breyer State University; A+ Certified Technician, Net+ Certified Technician; College State Director – SkillsUSA Maine

Roland W. Clukey 1998

Instructor—Welding

Certified Welding Teacher, Professional Level, State of Maine Department of Education; Federal Nuclear Regulatory Commission Pipe and Structural Certifications; U.S. Navy Structural Certifications; SMAW Structural Certification AWS D1.1; State of Maine Boiler Certification – ASME Section IX, AWS Certified Welding Inspector, AWS Certified Welding Educator

Kathy Crise 2014

Instructor – Computer Systems Technology

Masters in Counselor Education, University of Maine; Bachelors in Education, University of Maine; A.A.S. in Computer Systems Technology, Eastern Maine Community College; State of Maine Certifications in General Elementary Education, Education Specialist-Guidance Counselor, and Building Administration.

Christopher Davis 2013

Instructor-Automotive

A.A.S. Automotive Technology, Eastern Maine Technical College; ASE Master Technician

Jay J. Demers 1998

Instructor—Culinary Arts and Restaurant and Food Service Management
B.S. in Business Administration, University of Maine; B.S. in Applied Technical
Education, University of Southern Maine. Member - Golden Key National Honor
Society. Baking and Pastry Arts, Johnson and Wales University. Certified
Hospitality Educator, Food Management Professional, Certified in ServSafe
Sanitation, Hospitality Purchasing Management, and Food and Beverage
Management.

William H. Dorrity III 1991

Instructor—Business Management

Ph.D., Education Leadership, Northcentral University, Prescott, AZ; C.A.G.S. in Educational Leadership, University of New England; M.S. in Business Management, Husson College; B.S. in Business Administration, Husson College

Christopher M. Easton 2004

Instructor—Biology

Ph.D. in Biological Sciences, State University of New York; M.S.(R) in Biology, Saint Louis University; B.A. in Biology, Colby College

Helena Ford 2015

Instructor – Nursing

M.S. Nursing – Specialty Education, Western Governors University; B.S. Nursing, Western Governors University; A.S. Nursing, Nassau Community College; B.A. Psychology, State University of New York at Stony Brook

Robert Freeman 1999

Instructor—Social Science

Ph.D. in Ecology and Environmental Science, University of Maine; M.S. in Resource Economics and Policy, University of Maine; B.A. in Economics and Sociology, Wofford College

Michael Frigm 2014

Instructor – Culinary Arts and Restaurant and Food Service Management M.S. in Hospitality Retail Management, Texas Tech University; B.S. in Food Service Management, Johnson & Wales University; A.A.S. in Culinary Arts, Texas Tech University

Lowell Gardner 2007

Instructor—Automotive

Bachelor of University Studies, University of Maine. A.A.S., Automotive Technology, Eastern Maine Technical College. ASE Certified

Cynthia M. Geaghan 2003

Instructor—Education

M.A. in Special Education, University of Maine; B.S. in Elementary Education, University of Maine at Farmington.

Lesley Gillis 2003

Instructor—English

Ph.D. in English, McGill University; M.A., Case Western Reserve University; B.A., Bates College

Richard J. Gomm 2010

Instructor—Refrigeration, Air Conditioning and Heating

A.A.S. in Refrigeration, Air Conditioning and Heating, Eastern Maine Technical College; EPA Refrigerant Certification; State of Maine Master Oil License; State of Maine Propane and Natural Gas License; State of Maine Limited Refrigeration Electrical License

Sally Hall 2009

Instructor—Medical Assistant Technology

B.A. in Medical Technology, University of Maine; ASCP certified in Medical Technology; CMA certified in Medical Assisting

William A. Hillery 2003

Instructor—Mathematics

M.S. in Mathematics, University of New Hampshire; B.S., Eastern Connecticut State University

Terrence Holloway 2012

Instructor—Business Management

M.S.B., Husson University; B.A in Business Communications, Pfeiffer University, PHR Certification 2012

John W. Ianelli 2002

Instructor—Digital Graphic Design

M.A., State University of New York-Albany; MFA, University of New York-Albany; B.S. Industrial Design, Johnson State University

Mark Janicki 1993

Instructor-Hospitality and Tourism Management

MBA, Almeda University; B.S. in Education, University of Southern Maine; A.A.S. in Culinary Arts, A.A.S. in Food Service Management, Newbury College; Certificate of Study, La Varennem, Paris, France; Certified Hospitality Educator, Certified in ServSafe Sanitation, Hospitality Purchasing Management; Food and Beverage Management; ACF Charter Member

Michael Kelly 2014

Instructor - Computer Systems Technology

M.S. in Information Systems, University of Maine at Orono; B.A. in History – University of Maine at Orono; Graduate of Navy Instructor School.

Jonathan Kill 2012

Instructor—Automotive

A.A.S GM ASEP Lake Region Community College; ASE Master Technician with L1 Certified Advanced Engine Performance Specialist; Former GM Master Technician with Hybrid System Certification

Melanie Landry 2012

Instructor—Medical Radiography

B.S. in Elementary and Secondary Education, University of Maine; A.A.S., Medical Radiography, Eastern Maine Community College; AART Certified in Radiography; Maine License in Radiography

Changsu Lee 2003

Program Coordinator – English Language Learner; Instructor—Mathematics M.S. in Business, Husson College; B.A. in Political Science, University of Maine at Presque Isle; Associate Degree in Computer Information Systems

Carol Lewandowski 1995

 ${\it Instructor-English}$

M.A. in English, Trenton State College; B.A. in English/Philosophy, Muskingum College; ESL Certificate, Trenton State College

John Liimakka 2005

Program Coordinator and Instructor—Civil Engineering

M.S. in Civil Engineering, with focus on Structures, Michigan Technological University; B.S. in Civil Engineering, Michigan Technological University; B.S. in Land Surveying, Michigan Technological University

Jane Loxterkamp 2000

Instructor—Early Childhood Education/Education

M.A. in Early Childhood Special Education, University of Iowa; B.S. in Elementary Education, University of Iowa; Family Specialist Certification, University of Iowa

Heather Magee 2014

Instructor - Digital Graphic Design

MFA, University of Maine at Orono; B.A., University of Maine at Orono

Gilbert Marquis 1991

Instructor—Math/Physics

M.Ed. in Science Education, University of Maine; BSEET, University of Maine; A.A.S. in Electrical Power, Eastern Maine Technical College

Christopher W. Maseychik

2005

Instructor—Welding

B.S. in Applied Technical Education, University of Southern Maine; A.A.S. in Welding, Eastern Maine Technical College; American Welding Society (AWS) Certified Welding Inspector, Educator, Pipe (ASME IX) & Structural (D1.1) Welding; State of Maine Licensed Welder; State of Connecticut Licensed Piping Journeyman; State of Rhode Island Licensed Journeyman Welder

Donna McLaughlin 1991

Clinical Coordinator--Medical Radiography

B.S. in Vocational Education, University of Southern Maine; A.A.S. in Medical Radiography, Eastern Maine Vocational Technical Institute; ARRT Certified in Radiography; Maine License in Radiography

Jeff Melmed 1993

Instructor—Math/Physics

Ph.D. Physics, University of North Carolina at Chapel Hill; B.S. Physics, B.A. Mathematics, East Stroudsburg University

Heather Merrill 2007

Program Director--Medical Radiography

B.S. in Radiologic Science, St. Joseph's College of Maine; A.A.S. in Medical Radiography, Eastern Maine Vocational Technical Institute

Kenneth Mitchell 2011

Instructor—Building Construction

B.S. in Applied Technical Education, University of Southern Maine; A.S., Civil Engineering, University of Maine

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Keith Moon 2012

Instructor—Business Management

J.D., University of New Hampshire; M.B.A., Southern New Hampshire University; B.S., Business Administration, Niagara University

Mark S. Nisbett 1998

Instructor—Computer Aided Drafting & Design

B.S. in Applied Technical Education, University of Southern Maine; A.A.S. in Drafting Technology, NMVTI; AutoCadd Certified; Member of American Design Drafting Association; Member of Autodesk User Group International

Angela Parks 2014

Instructor – Medical Assisting

B.A. in Health and Wellness, Ashford University; A.S. in Medical Assisting; CPR/AED/ & BLS Instructor Trainer Certificate; AMT Allied Health Instructor Certificate; CMA Certificate; Lifeguarding/First Aid/CPR/AED Certificate.

Mary Ellen Pederson, RN, BSN, MSN, MBA

2013

Instructor—Nursing

M.S.N. Husson University; M.B.A. Husson College; B.S. Nursing and Biology, Simmons College

Gabriel M. Perrow 2003

Instructor—Mathematics

M.A. in Mathematics, B.A. in Mathematics, University of Maine

Cornel Plebani 2014

Instructor - Criminal Justice

M.A. in Forensic Psychology, John Jay College of Criminal Justice; B.A. in Psychology/Sociology, Drew University

Deanna Prince 2011

Instructor—Math/Science

Ph.D. in Marine Bio-Resources, University of Maine; B.A., Zoology, University of New Hampshire

Rick Reardon 2000

Instructor—Electrical and Automation Technology

M.S. Business, Husson College; B.S. in Electrical Engineering, University of Maine; ISA Level III CCST; Professional Engineer, State of Maine; Master Electrician, State of Maine; Certified FANUC Robotics Instructor; Certified Energy Manager;

Certified Lighting Efficiency Professional (CLEP); Diploma GE Field Engineering Program; Diploma USAF School of Applied Aerospace Sciences

Nicole Record 2012

Instructor—Business Management

J.D., University of Maine; MBA, University of Maine; B.S. in Business Education, Thomas College

Shirley Ripley 2013

Instructor – Medical Assistant Technology

A.A.S., Medical Assisting, Eastern Maine Community College; A.A. Liberal Studies, Eastern Maine Community College; A.A.S. Medical Assisting, Washington County Community College

Connie Ronco 1999

Instructor--Early Childhood Education/Education

CAGS in Educational Leadership, University of Maine; M.Ed. in Science Education, University of Maine; B.S. in Child Development, University of Maine

Nathan Scott 2012

Instructor—Culinary Arts

B.P.S. in Culinary Arts and Service Management; Paul Smith's College; Certification in Food Communications

Stanley P. Siviski 1992

Instructor—Welding

B.S. in Education, University of Southern Maine; American Welding Society Certified Welding Inspector – QCI 96; Certified Welding Educator; American Society for Nondestructive Testing Certified Level II Inspector MT/PT; Journeyman Ironworker; SMAW and FCAW Structural Certification; AWS D1.1; State of Maine Boiler Certification – ASME Section IX

Connie Springer-Tracy

Instructor – Nursing

MSN, Nursing, University of Maine, Orono; BSN, Nursing University of Southern Maine; BS Microbiology University of Maine, Orono.

2013

Lester Stackpole 1978

Building Construction Fine Woodworking and Cabinetmaking; Instructor— Building Construction, Fine Woodworking and Cabinetmaking

B.S. in Vocational Education, University of Southern Maine; Diploma in Building Construction, Southern Maine Vocational Technical Institute; Building

Performance Institute (BPI) Building Analyst Professional and Certificate Instructor; Lead Renovator Certificate; O.S.H.A. Certificate; Certified Instructor for Construction Supervisory Training, Associated General Contractors of America

Jon Tierney 2015

Instructor – Outdoor Recreation and Tourism

B.S. Forest Recreation and Park Management, University of Maine. IFMGA Internationally Certified Guide, AMGA Certified Ski Mountaineering Guide, AMGA Certified Rock Guide, AMGA Certified Alpine Guide, AIARE Avalanche Education Instructor, Critical Care Flight Paramedic

Richard Thomas 2011

Instructor—Automotive Technology

M.Ed. in Educational Administration, University of Maine; B.S. in Vocational-Technical Education, University of Southern Maine; A.A.S., Automotive Technology, Eastern Maine Vocational Technical Institute

Ronald E. Turner 1984

Instructor – Social Sciences

M.A. in Economics, B.A. in Economics, University of Maine

Brent Vadas 2008

Instructor – Electrical and Automation Technology

B.S., Electrical Engineering Technology, University of Maine at Orono

Charles W. Veilleux 1990

Instructor – Refrigeration, Air Conditioning and Heating

Matriculated, University of Southern Maine, State of Maine Limited Refrigeration Electrician's License; EPA Refrigerant Certification; State of Maine Propane and Natural Gas License

Devin K. Wood 1991

Instructor - English

M.A. in English, University of Maine; B.A. in English, University of Maine

Sheuli Zakia 2013

Instructor – Math/Science

Ph.D. Analytical Chemistry, GSUC of the City University of New York; B.A. Chemistry, Hunter College, City of University of New York

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EMERITUS APPOINTMENTS

Nathaniel J. Crowley, Jr.	1969
Computer Applications – EMERITUS	
Loring S. Kydd	1966
Mathematics – EMERITUS	
Marilyn A. Lavelle	1990
Nursing - EMERITUS	
James Peary	1981
Refrigeration, Air Conditioning and Heating – EMERITUS	
Edward Raymaker	1977
Social Science – EMERITUS	
Susan Roeder	1981
Medical Radiography – EMERITUS	
Warren D. Southworth	1968
English – EMERITUS	
W. Gregory Swett	1974
Dean of Students – EMERITUS	
Raymond L. Thibodeau	1966
Dean of Students – EMERITUS	
Janice E. Willette	1977
Nursing – EMERITUS	

Business Office STAFF MEMBERS **Gerald Hayman** 2015 Director of Finance **Academic Affairs Anne Powers** 2015 2010 Melissa Boyan Accounting Technician Administrative Secretary - Academic Dean's Office Karen A. Shorette 1994 2014 **Charles Campione** Manager of Financial Services Administrative Specialist II—PTEC Jaime Smith 2013 2014 Christina Garneau Accounting Technician Administrative Specialist II - PTEC **Melissa Stairs** 2011 **Bruce Griffin** 2013 Accountant II Educational Assistant II - Building Construction **Carolyn Kettle** 2000 **Enrollment Center** Administrative Specialist II – Katahdin Region Higher Education Center 2015 **Luke Bulley Collette McCauley** 2008 Financial Aid Counselor Administrative Specialist II – Nursing Department Rita P. Broad 2000 2015 Lucille Moon Associate Director of Admissions Associate Academic Dean **Nancy Burns** 1992 **Deborah J. Rountree** 1997 Administrative Secretary Associate Academic Dean for Higher Centers – KRHEC Elizabeth Castro 2005 Elizabeth C. Russell 1994 Administrative Specialist II Dean of Academic Affairs – President's Cabinet 1993 Dan Crocker **Amy Willard** 2000 Dean of Enrollment Management & Institutional Research - President's Cabinet Administrative Specialist III – Katahdin Region Higher Education Center **Amy Eastman** 2005 Administrative Specialist III **Advancement and Foundation Darlene Gladu** 1999 Michael Beale 2007 Administrative Specialist II Foundation Accountant 1996 **Stacy Green** Vickie Call 2012 Director of Admissions Foundation and Institutional Advancement Associate **Amy Guiggey** 2015 CarolAnne Dube 2011 Administrative Specialist II Director of Institutional Advancement and Executive 2013 Sarah Jordan Director of Eastern Maine Community College Foundation —President's Cabinet Administrative Coordinator of Financial Aid Eleanor M. Miller 1988 **Business and Industry** Planning and Research Associate **Thomas E. Giles** 1989 1985 Lewis H. Miller Director—Welding Test Center Assistant Director of Financial Aid Arlene MacLeod 1993 **Toby Pelletier** 1993 Administrative Secretary – Bangor Business and Industry Center Administrative Coordinator Matthew McLaughlin 2013 **Debra Perro** 1999 Coordinator of Business and Industry Administrative Specialist II 2009 Sarah Sawyer Director of Scheduling and Registration Services

Elizabeth Worden	2003	Information Technology	
Coordinator of Institutional Research and Perkins Grant		Eric B. Clark	2003
Candace Ward	1985	Information Systems Support Specialist I	
Associate Dean of Students/Director of Financial Aid		Timothy L. Conroy	1997
		Dean for Information and Communications Technology – President's Cabi	net
Facilities and Plant Maintenance		Joe Devou	2008
Ruth Chavez	2012	Information Systems Support Manager	
Safety and Security Manager		Michael Fixaris	2014
Brad Chesson	2006	TAACCCT Student Navigator	
Carpenter		Patricia Gillis	2015
Chris Dana	2014	TAACCT Project Coordinator	
Facilities Maintenance Specialist I		Jeremy Martin	2001
Brent Delong	1994	Computer Programmer	
Facilities Maintenance Specialist I		Robert Pelletier	2014
George Hanson	2015	Information System Specialist II	
Facilities Maintenance Engineer		Christopher Whalen	2008
Daniel Landry	2015	Information Systems Support Technician	
Facilities Maintenance Specialist I			
Michael Lunn	2011	Library	
Electrician II		Janet Elvidge	2006
Michael G. Prickett, Sr.	1987	Associate Dean of Library Services	
Building Custodian		Marisa Mendez-Brady	2014
Kathy Roney	2005	Outreach Instruction Librarian	
Facilities Maintenance Specialist I		Cynthia Young	2012
David Sgroi	2009	Associate Librarian, Circulation and Technical Services	
Facilities Maintenance Specialist I			
David Shumaker	2006	President's Office	
Custodial Worker III		Joseph Cassidy	2015
Nathan Tapley	2013	Interim President	
HVAC Technician		Terri Adam	2003
Michelle Trask	2014	Special Assistant to the President and Human Resources	
Facilities Maintenance I			
		Residential Life, Activities & Student Engagement	
Human Resources		Dan Belyea	1988
Dusty Packard-Adams	1998	Director Administrative, Student Services and Auxiliary Enterprises—President	dent's
Accountant II, Payroll		Cabinet	
Jody Vail	2011	Michelle Bladen	2010
Director of Human Resources and Training Manager – President's Cabinet		Administrative Specialist III – Student Services and Student Life	
		Kent Corey	2008
		Resident Director – Acadia Hall/Athletic Director	
		Alissa Downing-Gervais	2008
		Director of Residential Life, Activities & Student Engagement	

Cheryl Fox-Briggs	2011
Administrative Specialist III—Student Services and Student Life	
Salena King-King-Caruso	2013
Student Support Services Counselor	
Peter Sproul	2014
Resident Director	
Student Success Center	
Rusty Brown	2013
Coordinator of Advising Services – Student Success Center	
Natalie Degerstrom	2014
Academic Advisor	
Marcie Grant	1997
Academic Services Coordinator - Student Success Center	
Hope Holyoke	2006
Regional Director – Early College for ME	
Elizabeth Saucier	2015
Coordinator of Disability Services	
Rhonda Severance	2012
Senior Office Assistant – Early College for ME	

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