Maine Central Institute

Course Catalog

2026-2027



Table of Contents

2026-2027 Course Offerings **7**

MCI Graduation Requirements **8**

School of Exploration 8
School of Math & Science 8
School of Arts & Humanities 8
School of Industry & Trades 8
School of Nature 8
School of Engineering & Technology 8
1 Year Experience 8

International Student Curriculum Policy **9**

Humanities

Foundations (Freshman English Seminar) -*required* **10**
Foundations (Freshman History Seminar) --*required* 10
World Studies & Global Issues (Sophomore English Seminar) -*required* **11**
World Studies & Global Issues (Sophomore History Seminar) -*required* 11
Civic Engagement & the Founding of America (Junior English Seminar) -*required* 11
Civic Engagement & The Founding of America (Junior History Seminar) -*required* 11
Beyond the Bell (Senior English Seminar/Senior Project) -*required* **12**

Pathway Courses

Creative Writing/CP 12
Film Studies/CP 12
Design Heritage & Modern Consumerism/CP **13**
Fallout/CP 13
Personal Finance/CP 13
Maine Studies/CP 13
Human Geography & Ecology/CP **14**
Model UN/CP 14
Family Dynamics/CP 14
Sports Journalism & Marketing Workshop/CP 14
Modern Poetry/CP **15**
The Culture of Madness/CP 15
Native American Studies/CP 15
War. What Is It Good For?/CP **16**
Law & Criminology in the US/CP 16
Death & Dying/CP 16
Principles of Business/CP 16
Marketing & Consumer Behavior/CP **17**
Business & Ethics Law/CP 17
Psychology/CP (with UMFK CE option) 17
Sociology/CP 17
Leadership in the Professional Domain/CP **18**
Architects Of The Future/CP 18
Solve the Story/CP 18

Foundations of Fiction/CP: Crafting Short & Long Form Narratives 18
History of the Medieval World/CP **19**
Women's Studies/CP 19
College Composition (UMFK)/CE 19

Humanities AP Courses
AP English Language & Composition **20**
AP English Literature & Composition 20
AP United States History 20
AP US Government & Politics **21**
AP Macroeconomics 21

English for Speakers of Other Languages (ESL/ESOL)
ESOL Integrated Skills I 21
ESOL Integrated Skills II **22**
ESOL US History 22
ESOL Advanced Academic Writing 22
ESOL Integrated Science 22

Extended Learning Opportunities
ELO's **23**

Mathematics
Pre-Algebra 23
Algebra IA 23
Algebra 1/CP **24**
Geometry A 24
Geometry/CP 24
Algebra IIA 24
Algebra II/CP **25**
College Algebra (UMFK)/CE 25
Statistics/CP 25
Pre-Calculus/CP 25
Advanced Placement (AP®) Pre-Calculus **26**
Advanced Placement (AP®) Calculus AB 26
Advanced Placement (AP®) Calculus BC 26
Advanced Placement (AP®) Statistics 26
Accounting I **27**
Accounting II 27
Business Math 27
History of Math 27

Science
Earth and Space Science **28**
Earth and Space Science/CP 28
Biology 28
Biology/CP 28
Advanced Placement (AP®) Biology **29**

Chemistry/Physics 29
Chemistry/CP 29
Advanced Chemistry II 29
Physics/CP **30**
Advanced Placement (AP®) Physics I 30
Advanced Placement (AP®) Physics II 30
Advanced Anatomy & Physiology (with UMFK CE option) 30
Environmental Science **31**
Marine Biology & Ecology 31
Conservation Biology & Law 31
Sustainable Living 31
Botany **32**
Laboratory Science: Wildlife Forensics 32
Forensic Science 32
Astronomy 32

Technology and Engineering
Introduction to Design **33**
Introduction to Engineering 33
Physics in Sports 33
Advanced Design **34**
Mechanical Engineering 34
Computer Applications 34
Advanced Placement (AP®) Computer Science A 34
Advanced Placement (AP®) Cyber Security **35**
Intro to Game Design 35
UI/UX Design 35
Intro to Virtual Reality 35
Intro to AI **36**
Robotics 36

Human Development
Health I 36
Physical Education I 36
Physical Education II **37**
Physical Education III 37
Introduction to Medical Concepts 37
Introduction to Sports Medicine 37
Maine Outside **38**
Jobs for Maine's Graduates (JMG) 38

Visual and Performing Arts
Art
Studio Foundations I 38
Ceramics I **39**
Studio Foundations II 39
Drawing 39
Painting 39

Ceramics & Pottery II **40**
2D Portfolio I 40
2D Portfolio II 40
Ceramics & Pottery III 40
Ceramics & Pottery IV **41**
Discovering Art History 41
Drama
Technical Theatre I 41
Technical Theatre II / III / Advanced 41
Stage and TV Makeup I **42**
Stage and TV Makeup II 42
Social Theater 42
Actor's Studio 42
Introduction to Costume Design **43**
Festival Theatre Ensemble 43
Music
Concert Band 43
Concert Choir 43
Instrumental Jazz Ensemble **44**
Vocal Jazz Ensemble 44
Guitar I 44
Guitar II 44
Ukulele **45**
Piano I 45
Piano II 45
Music Theory & Composition / Digital Music 45
Modern Band **46**
Ballet
Bossov Ballet 46

World Languages
French I/CP 46
French II/CP **47**
French III/CP 47
French IVCP 47
Italian I/CP 47
Italian II/CP **48**
Italian III/CP 48
Spanish I/CP 48
Spanish II/CP 48
Spanish III/CP **49**
Spanish IV/CP 49

Additional Electives
Teaching Assistants 49
Project Management 49
Library Science **50**

Dual Enrollment Courses
Aviation/DE (online) 50
AP4ME Courses (online)
AP Art History 50
AP Biology **51**
AP Computer Science A 51
AP Calculus BC 51
AP Environmental Science 51
AP French Language & Culture **52**
AP Macroeconomics 52
AP Psychology 52
AP Spanish Language & Culture 52
AP Statistics **53**
AP US Government & Politics 53
AP World History 53

Somerset Career and Technology Center (SCTC)
Advanced Cabinetry & Millwork 53
Automotive Technology I & II **54**
Business Academy 54
Career Exploration 54
Certified Nursing Assistant 54
Commercial Truck Driving **55**
Computer Science 55
Cooperative Education 55
Cosmotology 55
Culinary I & II **56**
Digital Graphics I & II 56
Early Childhood Education 56
Electrical Construction I & II 56
Emergency Medical Technician **57**
Firefighting 57
Outdoor Leadership I/II 57
Pre-Engineering 57
Residential Construction **58**
Welding 58

CP: College Preparatory courses
AP: Advanced Placement courses offered through College Board
CE: Concurrent Enrollment courses offered through MCI & UMFK
DE: Dual Enrollment offered through the University of Maine, Husson University, and Kennebec Valley Community College
SCTC: Somerset Career & Technical Center
Core: English, History, Math, Science courses
Non-Core: Fine Arts, Computer Science, World Language, PE, Health

2026 - 2027 Course Offerings

HUMANITIES
Foundations English Seminar (EN)
Foundations History Seminar (H)
World Studies & Global Issues English Seminar (EN)
World Studies & Global Issue History Seminar (H)
Civic Engagement & The Founding of America English Seminar (EN)
Civic Engagement & The Founding of America History Seminar (H)
Beyond the Bell English Seminar (EN)

HUMANITIES PATHWAYS COURSES
Creative Writing/CP (EN)
Film Studies/CP (EN)
Design Heritage/ Modern Consumerism & Circular Engineering//CP (EN)
Fallout/CP (EN)
Personal Finance/CP (SS)
Maine Studies/CP (SS)
Human Geography & Ecology (SS)
Model UN/CP (SS)
Family Dynamics/CP (EN)
Sports Journalism & Marketing Workshop/CP (EN)
Modern Poetry/CP (EN)
The Culture of Madness/CP (EN)
Native American Studies/CP (SS)
War. What is it Good For?/CP (SS)
Law & Criminology in the US/CP (SS)
Death & Dying/CP (SS)
Principles of Business (SS)
Marketing & Consumer Behavior (SS)
Business Ethics & Law (SS)
Psychology/CP & CE (SS)
Sociology/CP (SS)
Leadership in the Professional Domain/CP (EN)
Architects of the Future/CP (EN)
Solve the Story/CP (EN)
Foundations of Fiction: Crafting Short & Long Form Narratives/CP (EN)
History of Medieval World/CP (SS)
Women's Studies/CP (SS)
College Composition / CE (EN)

HUMANITIES AP COURSES
AP Language & Composition (EN)
AP Literature & Composition (EN)
AP US History (SS)
AP US Government & Politics (SS)
AP Macroeconomics (SS)

ESOL
ESOL Integrated Skills I (EN)
ESOL Integrated Skills II (EN)
ESOL US History I (SS)
ESOL Advanced Academic Writing (EN)
ESOL Integrated Science (S)

MATHEMATICS
Pre-Algebra (M)
Algebra IA/CP (M)
Algebra 1/CP (M)
Geometry A (M)
Geometry/CP (M)
Algebra IIA (M)
Algebra II/CP (M)
College Algebra / CE (M)
Statistics/CP (M)
Pre-Calculus/CP (M)
AP Pre-Calculus (M)
AP Calculus AB (M)
AP Calculus BC (M)
AP Statistics (M)
Accounting I (M/EL)
Accounting II (M/EL)
Business Math (M)
History of Math (EL)

SCIENCE
Earth & Space Science (S)
Earth & Space Science/CP (S)
Biology (S)
Biology/CP (S)
AP Biology (S/EL)
Chemistry/Physics (S)
Chemistry/CP (S)
Adv. Chemistry II (S)
Physics/CP (S/EL)
AP Physics I (S/EL)
AP Physics II (S/EL)
Adv. Anatomy & Physiology / CE (S/EL)
Environmental Science (S/EL)
Marine Biology & Ecology (S/EL)
Conservation Biology & Law (S/EL)
Sustainable Living (S/EL)
Botany (S/EL)
Wildlife Forensics (S/EL)
Forensic Science (S/EL)
Astronomy (S/EL)

ENGINEERING & TECHNOLOGY
Intro to Design (S/E/T/FA)
Intro to Engineering (S/E/T)
Physics in Sports (S/E/T)
Advanced Design (S/E/T/FA)
Mechanical Engineering (S/E/T)
Computer Applications (S/T)
AP Computer Science A (S/T)
AP Cyber Security (S/T)
Intro to Game Design (S/T)
UI/UX Design (S/T)
Intro to Virtual Reality (S/T)
Intro to AI (S/T)
Robotics (S/E/T)

HUMAN DEVELOPMENT
Health I (HE)
PE 1 (PE)
PE 2 (PE)
PE 3 (PE/EL)
Intro to Medical Concepts (S/EL)
Intro to Sports Medicine (EL)
MEOutside (EL)
JMG 9, 10, 11, 12 (EL)

VISUAL & PERFORMING ARTS
Studio Foundations I (FA)
Studio Foundations II (FA)
Ceramics (FA)
Drawing (FA)
Painting (FA)
Ceramics & Pottery II/III/IV (FA)
2D Portfolio I (FA)
2D Portfolio II (FA)
Discovering Art History (FA)
Tech Theatre I (FA)
Tech Theatre II (FA)
Tech Theatre III/Adv. Tech Theatre (FA)
Stage/TV Makeup I (FA)
Stage/TV Makeup II (FA)
Social Theatre (FA)
Actor's Studio (FA)
Intro to Costume Design (FA)
Festival Theatre Ensemble (FA)
Concert Band (FA)
Concert Choir (FA)
Instrumental Jazz Ensemble (FA)
Vocal Jazz Ensemble (FA)
Guitar I (FA)
Guitar II (FA)
Ukulele (FA)
Piano I (FA)
Piano II FA)
Modern Band (FA)
Music Theory & Comp / Digital Music (FA)
Bossov Ballet (FA)

WORLD LANGUAGES
French I/CP (WL)
French II/CP (WL)
French III/CP (WL)
French IV/CP (WL)
Italian I/CP (WL)
Italian II/CP (WL)
Italian III/CP (WL)
Spanish I/CP (WL)
Spanish II/CP (WL)
Spanish III/CP (WL)
Spanish IV/CP (WL)

OTHER ELECTIVES
Teaching Assistant (EL)
Project Management (T/EL)
Library Science (EL)

DUAL ENROLLMENT
**Courses offered through Maine Aspirations & Husson ECAP*

AP4ME
See Course Catalog

SCTC COURSES
See course catalog

Note:

All students must enroll for a minimum of six (6) academic credit courses each semester.

****Dual Enrollment / Concurrent Enrollment options:***

- Juniors and Seniors are eligible for Dual Enrollment/Concurrent Enrollment courses through the University of Maine System, Community College System, and Husson University. Students may be eligible to take up to 18 lifetime college credit hours.
- Students will still be required to enroll in a minimum of 4 MCI courses each semester and complete a Manson Essay and Senior Project.
- Out-of-state or international students will be required to pay a reduced college/university tuition rate for each course through Maine Public Universities & Community Colleges. Students may be eligible to take up to 12 college credit hours per year through Husson University's ECAP program for free.

Credits Earned Legend:

EN = English	HE = Health
SS = Social Science	PE = Physical Education
M = Math	FA = Fine Art
S = Science	WL = World Language
T = Technology	EL = Elective
E = Engineering	H = History

ACADEMIC COUNSELORS
Mr. Cody Campbell, ccampbell@mci-school.org
Mrs. Pamela Smith, psmith@mci-school.org

DEAN OF ACADEMICS
Mr. Scott J. Giallombardo, sgiallombardo@mci-school.org

REGISTRAR
Mr. Brandon Clark, bclark@mci-school.org

MCI Graduation Requirements

School of Exploration

4 English Credits
2 Social Science Credits
1 US History & Civics Credit
3 Science Credits
3 Mathematics Credits
2 Fine Art Credit
1 PE Credit
0.5 Health Credit
0.5 Technology Credit
7 Elective Credits from any discipline
2 World Language Credits (recommended)

School of Math & Science

4 English Credits
2 Social Science Credits
1 US History & Civics Credit
4 Science Credits
4 Mathematics Credits
1 Fine Arts Credit
1 PE Credit
0.5 Health Credit
0.5 Technology Credit
6 Elective Credits from any discipline
2 World Language Credits (recommended)

School of Arts & Humanities

4 English Credits
2 Social Science Credits
1 US History & Civics Credit
3 Science Credits
3 Math Credits
2 Fine Arts Credits
1 PE Credit
0.5 Health Credit
0.5 Technology Credit
2 World Language Credits (required)
2 elective credits in Humanities
3 Elective Credits from any discipline

1 Year Post Graduate Experience

1 English
1 Social Science
1 Science
1 Math
2 Electives

School of Industry & Trades

4 English Credits
2 Social Science Credits
1 US History & Civics Credit
3 Science Credits
3 Math Credits
1 Fine Arts Credit
1 PE Credit
0.5 Health Credit
0.5 Technology Credit
4 Hands-on Learning Credits
4 Elective Credits from any discipline

School of Nature

4 English Credits
2 Social Science Credits
1 US History & Civics Credit
4 Science Credits
3 Math Credits
1 Fine Arts Credit
1.5 PE Credit
0.5 Health Credit
0.5 Technology Credit
6.5 Elective Credits from any discipline
2 World Language Credits (recommended)

School of Engineering & Technology

4 English Credits
2 Social Science Credits
1 US History & Civics Credit
5 Science Credits
4 Math Credits
1 Fine Arts Credit
1 PE Credit
0.5 Health Credit
0.5 Computer Science Credit
5 Elective Credits from any discipline
2 World Language Credits (recommended)

International Student Curriculum Policy

MCI enjoys a high reputation for preparing international students for success at American universities. International students should use these guidelines to help plan their courses with his or her college counselor at MCI. The Academic and Admission Office staff will provide the final recommendation based on previous grades and earned credits. The students will also need to fulfill the community service and co-curricular requirements.

The following graduation plan is used for all international students at MCI:

4 year plan: Grade level 9

Students will be expected to follow the Graduation Requirements for students graduating from MCI.

3 year plan: Grade level 10*

3 credits in English, 3 credits in math, 3 credits in science (including one lab), 2 credits in history (including U.S. History), 1 fine art credit, 1 physical education credit, 1/2 credit in health, completion of the Manson Essay and Senior Project. A minimum of seven classes must be taken each semester, and eighteen (18) credits must be completed at MCI in order to graduate.

2 year plan: Grade level 11*

2 years of English, 2 credits in math, 2 credits in science (including one lab), 1 credit in history (including U.S. History), 1 fine art credit, 1/2 physical education credit, 1/2 credit in health, completion of the Manson Essay and Senior Project. A minimum of six classes must be taken each semester, and fourteen (12) credits must be completed at MCI in order to graduate.

1 year plan - grade level 12*

One-year seniors plan and design individual academic programs with counselors in consultation with the Dean of Academics. The program will reflect consideration of the subjects studied at previous schools, the student's English proficiency, college admission requirements and the desirable breadth and depth of study. Required courses will include English (including completion of the Senior Project), social science, math, science (lab science if no previous lab courses have been taken), and electives to total the seven classes per semester minimum.

1 year plan - Post Graduate (PG)

Post-Graduates design individual academic programs with counselors in consultation with the Dean of Academics. The program will reflect consideration of the subjects studied at previous schools, the student's English proficiency, college admission requirements and the desirable breadth and depth of study. Required courses will include English, social science, math, science (lab science if no previous lab courses have been taken), and electives to total the seven classes per semester minimum.

GPA will be calculated based on courses taken at MCI and other US high schools for international students. Class rank is awarded only after the completion of a minimum of three semesters at MCI. International students are eligible for any honors, advanced placement, or college courses as long as the prerequisites are satisfied.

***The Dean of Academics and ESL department may choose to design individual academic programs for students with intensive ESL needs.**

MCI COURSE DESCRIPTIONS

2026-2027

Humanities

The Humanities curriculum was created with a grant from the National Endowment for the Humanities in 1982. The mission of MCI Humanities is to prepare students to be thinking members of a complex society who explore the human condition through interdisciplinary, rigorous, contextual discourse to achieve professional and personal goals and a sense of well-being while fostering sustainable and just societies. Students are required to demonstrate, both orally and in writing, a developmentally appropriate ability to analyze, synthesize, evaluate, and integrate historical, textual, and social science knowledge. All students are required to take notes, discuss cooperatively, debate, create, interact with media and technology, and present. Humanities courses are semester-long, and they each earn a half credit; AP courses are year-long and earn one credit. Students are expected to earn a minimum of four English and three History credits in order to fulfill graduation requirements.

Required Seminars

Freshmen, sophomores, and juniors will take a semester English and history course each year. There will be one capstone assessment per year: Service Learning Project (shared in freshman English and history seminars), Community History Project (in the sophomore history seminar), The Manson Essay (in the junior English seminar), and the capstone project is the Senior Project, which can occur in either semester (Spring or Fall) in the Beyond the Bell Senior Seminar.

Foundations of English Seminar / CP - 2300 (Freshman English Seminar)



This required CP level freshman English seminar course is designed to be an introduction to high school literacy expectations, English language and rhetorical skills, reading and writing for various purposes, and Humanities best practices. Utilizing a thematic curriculum design, students will study a range of topics, connecting ancient texts from early civilizations to modern trends and practices accessed through current event articles, social sciences, and the arts. ***This will only be offered in the fall semester****, and it will overlap with the freshman history seminar in content, and skills. With permission from the instructor, students may opt for Honors credit in this course by Honors-level classroom leadership and performance, completing extra reading and writing assignments in addition to regular classwork, and attending discussion groups outside of class.*
For freshmen. (.5 English credit) -NCAA Approved

Foundations of History Seminar / CP - 2400 (Freshman History Seminar)



This required CP level freshman seminar History course will provide students beginning high school with a social science and history foundation for future study. Students will understand the features of civilization, gain a basic outline of world religions and culture, and focus on physical geography knowledge and map skills. ***This will only be offered in the fall semester****, and it will overlap with the freshman English seminar in content and skills. With permission from the instructor, students may opt for Honors credit in this course by Honors-level classroom leadership and performance, completing extra reading and writing assignments in addition to regular classwork, and attending discussion groups outside of class.*
For freshmen. (.5 Social Science credit) -NCAA Approved

World Studies & Global Issues English Seminar / CP - 2307 (Sophomore English Seminar)



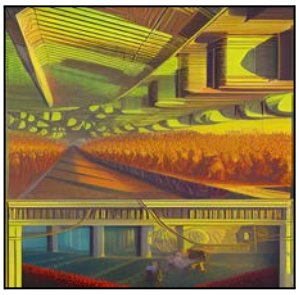
In this semester-long, required CP English course, students will analyze themes such as love, identity, power, conflict, peace, security, modern culture, equality, and inequality by studying diverse cultures, perspectives, and narratives through world literature ranging from the Renaissance to modern times. This course will offer students an understanding of the human experience across different societies and time periods by delving into the historical and cultural contexts that shape the literature of different regions, enhancing comprehension and appreciation. Students will develop critical thinking skills through close reading, interpretation, and evaluation of texts. Special focus will be the impact of rhetoric and applying research and citation strategies in narrative and argument pieces. With permission from the instructor, students may opt for Honors credit in this course by Honors-level classroom leadership and performance, completing extra reading and writing assignments in addition to regular classwork, and attending discussion groups outside of class. This course will be offered in both the fall and spring semesters.
For sophomores. (.5 English credit) -NCAA Approved

World Studies & Global Issues History Seminar / CP - 2401 (Sophomore History Seminar)



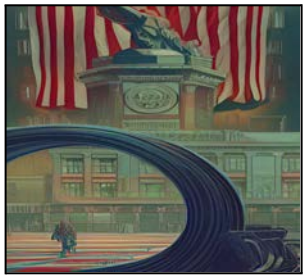
*In this **required** sophomore history course students will further align the humanities skills of argument and critical thinking with social science topics connecting to the themes of conflict, peace, security, modern culture, identity, equality and inequality. Special focus will be the impact of the 19th and 20th century on the modern world. With permission from the instructor, students may opt for Honors credit in this course by Honors-level classroom leadership and performance, completing extra reading and writing assignments in addition to regular classwork, and attending discussion groups outside of class. This course will be offered in both the fall and spring semesters, and is **for sophomores. (.5 Social Science credit) -NCAA Approved***

Civic Engagement & The Founding of America English Seminar / CP - 2308 (Junior English Seminar)



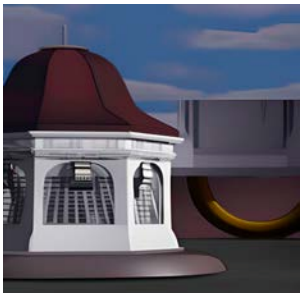
*This is the **required** junior English seminar. In this CP course students will read and study texts and scenarios that outline the birth of the US and its government, challenges to individual and collective freedoms and wellbeing, and actions toward improving or resolving these issues of concern. **The Manson Essay, a required assessment for an MCI diploma, will be the capstone project** for this course requiring students to research an important civic concern, write a synthesis essay with citations, and deliver these findings in a speech. This course will be offered in both the fall and spring semesters*
For juniors. (.5 English credit) -NCAA Approved

Civic Engagement & The Founding of American History Seminar / CP - 2402 (Junior History Seminar)



*This is the **required** junior history seminar. In this CP-level course students will study the events that led up to and formation of the US government, its constitution, and the rights and responsibilities of citizenship. Students will gain political knowledge, identify social norms and values, and define civic behavior responsibilities for both individuals and groups to sustain our democratic republic. This course will be offered in both the fall and spring semesters*
For juniors. (.5 Social Science credit) -NCAA Approved
This class counts toward the US History & Civics graduation requirement.

Beyond The Bell English Seminar / CP - 2329 (Senior English Seminar/Senior Project)



*This is the **required** senior English seminar. In this course, students will focus on building skills and competencies for their futures beyond MCI. The first quarter will include topics such as college and career writing, the college essay/personal memoir, preparing a resume, writing a cover letter, mock interviews, career/college planning (scholarships/grants), and professional media/social media profile creation. The second quarter will be devoted to a 50-hour **senior project** that will require students to collaborate outside MCI in the professional domain and hone communication skills. Passing the senior project is a graduation requirement. This course will be offered in both the fall and spring semesters*
For seniors. (.5 English credit)

Pathways Courses

These semester courses are more specialized by theme and based on student choice. Utilizing an interdisciplinary approach, the content will integrate topics outside the Humanities disciplines to earn English and history credits as indicated; however, these disciplines will remain the focal points to build upon the Humanities skills and knowledge laid out in the seminars.

Creative Writing / CP - 182



This CP English class is designed to provide an overview of creative writing, and is specifically focused on short stories and poetry. Using children's books, young adult novels, short stories, and poetry as mentor texts, students will learn the various elements of a story and then implement those techniques and skills into their own writing. Students will engage in group writing, in-class exercises, workshops, and peer review. These are a few of the elements of creative writing studied and practiced in this class: characterization, figurative language, perspective, plot, setting, voice, and word choice.
Open to all students. (.5 English credit) -NCAA Approved

Film Studies / CP - 986



This CP English course encourages students to explore films as texts. As a medium of presentation, films convey narrative and employ many of the same elements of literature and art in a beautiful combination that is enhanced by the dramatic performance and functional form and style. The artistic construction can be appreciated along the lines of its individual elements as well as its original medium. This course will involve various activities to explore film techniques and analysis of films, create original films, and enjoy watching films as a classroom community.
Open to all students. (.5 English credit)

Design Heritage, Modern Consumerism & Circular Engineering / CP - 2311



This semester CP English course will examine history, culture, and economy through the lens of fashion and design (clothing, architecture, technology) and the purchase of goods and services related to it. This course will utilize articles in Vogue, Architectural Digest, and other major fashion publications, advertising and marketing strategies, sociology and psychology studies associated with fashion, fashion trends through the years, analyses of how design relates to consumerism, geographical studies with respect to fashion and architecture, human rights violations regarding consumption: trends and corporations, principles of design, sustainability concepts, festivals in Europe as seed of fashion industry, notable designers and architects, and artistic inspiration: art, literature and film that inspire fashion. Students in poor academic standing may have difficulty participating in this class due to the number of field trips scheduled.
Open to all students. (.5 English credit) -NCAA Approved

Fallout / CP - 2316



This CP-level semester English course will ponder human existence and evaluate the complex topic of human nature during adversity by learning about the different aspects and adverse side effects of a variety of situations including dystopian scenarios. Vehicles will include articles, essays, literature, music, art, as well as student's own research. Students will be expected to engage in reading, writing, discussion, and research based activities to increase skills and critical thinking.
Open to freshmen, sophomores and juniors. (.5 English credit) -NCAA Approved

Personal Finance / CP - 239



This CP History course will be focused on the financial literacy of the individual, preparing people for basic life events such as finding and applying for a job, managing a budget, buying a house, and planning for retirement. Students will focus on factors that go into deciding on careers, managing household finances (paying for rent, mortgages, managing debt, etc.), and buying and selling assets such as stocks and bonds. We will also dedicate a portion of the class to paying for college.
Open to sophomores, juniors & seniors. (.5 Social Science credit)

Maine Studies / CP - 2403



Learn all about our magnificent and multifaceted home in this CP-level semester course focused on the history, literature, art, and lifestyle of the greatest state in the union. Maine subjects will include statehood facts, war connections, Native American tribes, Maine industries such as tourism, pulp and paper, and fishing, Maine parks, natural resources, protected lands, ATVing, wildlife management, Maine norms and laws, and current events.
Open to all students. (.5 Social Science credit) -NCAA Approved
This class counts toward the US History & Civics graduation requirement.

Human Geography & Ecology / CP - 2315



This CP-level semester History course will merge the study of both social and scientific interaction of human beings and their environment. Utilizing human ecology to understand modern civilization's impact on the environment, and the environment's role in sustaining human life. Students will study several ecological crises that modern consumerist civ is facing, as well as the social, political, and environmental factors that prompt both cultural and more localized migration. The ecological impacts of these migrations will also be investigated through topical readings and discussions spanning environmental, social, and ethical topics. This course will promote civic engagement and ecological literacy by studying ongoing modern research. Classwork will include reading and documentary film analyses and discussion.
Open to all students. (.5 Social Science credit) -NCAA Approved

Model UN / CP - 2404



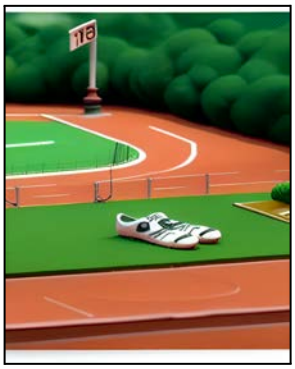
In this CP-level History course, students will examine social, political, scientific, and economic issues and how they influence decision making on the global stage. Students will explore multiple perspectives on these diverse topics in order to generate solutions. The course uses the Model United Nations framework for committee debates. Throughout the semester, students will cultivate research, writing, debate, and collaboration skills. This course will also serve as a preparatory time for the school's Model UN team, which will collaborate with other area Model UN programs and compete at the Maine Model UN conference in the spring. This course is offered in the ***spring semester only.***
Open to all students. (.5 Social Science credit) -NCAA Approved

Family Dynamics / CP - 2317



In this semester CP English course, students will explore the history and evolution of the family. Students will develop a comprehensive understanding of the dynamics within families, focusing on relationships, communication, roles, and structures. Students will explore various aspects of family life, including parenting styles, conflict resolution, cultural influences, and the impact of technology on family dynamics. Those interested in jobs in daycares, schools, social services, and homemaking are encouraged to enroll. Units will focus on family sociology, child development, developmental psychology, gender in the family, matriarchal and patriarchal cultures, family planning and economics, and a basic introduction to genetics. Students will polish literacy and communication skills and seek opportunities to explore certifications and careers connecting to the wellbeing of families.
Open to sophomores, juniors, & seniors. (.5 English credit) -NCAA Approved

Sports Journalism & Marketing Workshop / CP - 2325



In this CP-level semester English course, students will study the principles of sports writing, learning to develop voice, pacing, tension, and movement, and continue to explore such elements as perspective and imagery, while implementing first-hand and historical research. This course delves into the dynamic world of sports media through a unique lens that combines journalistic skills with marketing strategies. This course aims to equip students with the knowledge and practical skills needed to excel in sports journalism while understanding the crucial role of marketing and strategy in the sports industry. Students will study modern sports journalism through articles, nonfiction texts, documentaries, podcasts, and broadcast journalism. In addition to writing their own pieces, students will critically read, discuss, and respond to published sports writing and the articles of other students. Students will report on local sporting events.
Open to sophomores, juniors, & seniors. (.5 English credit) -NCAA Approved

Modern Poetry / CP - 2327



This semester course explores modern poetic forms, language, and poets. Students will explore the elements of poetry from the late nineteenth century to the present, learning to develop inventive approaches to language and imagery, layered use of voice and musicality, style, and diction. Students will engage in reading, discussing, and writing about a wide range of modern and contemporary poetry, including the works of influential poets such as Emily Dickinson, Walt Whitman, and 21st-century avant-garde poets like Tracie Morris. Themes will explore personal identity, individual consciousness, and the complexities of human existence. This course aims to challenge students to read critically, think differently about poetry, and make informed literary responses to poetic texts. Students will compose original poetry, respond to classmates' work, and explore the relationship between experimental poetry and teaching. The courses will cover the transition between modernism and postmodernism in poetry. Active participation in discussions and creative exercises are required.
Open to sophomores, juniors, & seniors. (.5 English credit) -NCAA Approved

The Culture of Madness / CP - 2326



This CP-level English course will focus on the diverse ways that civilizations have interpreted and reacted to those labeled as mentally unstable. By delving into the various portrayals of mental health, madness, hysteria, and psychological conditions in novels, short stories, poems, essays, and articles, students will analyze how authors depict and characterize madness, examining the societal, cultural, and personal implications of mental health struggles. This course aims to foster critical thinking skills, empathy, and a deeper understanding of the complexities surrounding mental illness as depicted in literature. Students will engage in close reading, discuss, research, debate, and write argument and synthesis essays in this semester-long course.
Open to sophomores, juniors, & seniors. (.5 English credit)

Native American Studies / CP - 2413



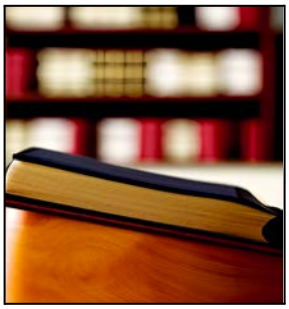
This CP-level semester History course delves into the rich history, culture, and contemporary issues of Indigenous peoples in North America. Students will explore the diverse traditions, languages, art, and spiritual beliefs of Native American tribes. The course will examine the impact of colonization, treaties, and government policies on Native communities. Through literature, films, discussions, and hands-on activities, students will gain a deeper understanding of the resilience and contributions of Native Americans to society. Additionally, discussions on sovereignty, environmental concerns, and social justice issues will be integral to the curriculum. By the end of the course, students will have a comprehensive appreciation of Native American heritage and a critical awareness of the challenges faced by Indigenous populations today.
Open to sophomores, juniors, & seniors. (.5 Social Science credit) -NCAA Approved
This class counts toward the US History & Civics graduation requirement.

War. What is it Good For? / CP - 2314



War has had diverse effects throughout history. Despite the obvious negative costs of life and destruction of families, property, and communities, many advances in science and technology are related to war, and it has been the genesis for classic literary and art works, as well as global alliances and unions. Human lust for profit and power has made war a permanent element of the human condition. This CP-level semester History course will focus on the United States military and government, their involvement in major wars throughout history, and the numerous impacts of said wars. Students will investigate military practices and the evolution of war tactics, the geography of war, the dichotomy of technological advancement and war, war for profit, economic impacts of wars, war and health, global policies and organizations, and war's influence on economies.
Open to sophomores, juniors, & seniors. (.5 Social Science credit) -NCAA Approved
This class counts toward the US History & Civics graduation requirement.

Law & Criminology in the US / CP - 2414



This CP-level Social Studies semester course offers an introduction that outlines the legal systems that exist in America with an introduction to criminology. Both criminal and civil law will be taught, and students will acquire legal vocabulary. Students will study the constitutional history of the legal system in America to become familiar with the roles of citizen participation in the US legal system. They will also study the criminal justice and corrections systems, as well as the origins of deviant behavior. Classwork will include reading and documentary film analyses and discussion.
Open to sophomores, juniors, & seniors. (.5 Social Science credit) -NCAA Approved
This class counts toward the US History & Civics graduation requirement.

Death & Dying / CP - 2409



Momento Mori! This CP-level Social Studies class examines human reactions to the inevitable. Death is a ubiquitous part of human life, art, and history. In this semester course, students will use multiple lenses to study infirmity, death, and beyond. The course begins with an examination of cultural & historical perspectives on death, with an emphasis on universal practices. Much of the second half of the course focuses on practical aspects of preparing for end-of-life care and planning. This course features in-person connections with professionals working in death-related industries and services. This is an integrated study drawing from literature, arts, religion, ethics, psychology, sociology, medicine, and history.
Open to sophomores (with permissions), juniors and seniors. (.5 Social Science credit)

Principles of Business / CP - 2500



Ever wondered how companies actually work—or why some soar while others crash? This foundational course pulls back the curtain on the business world, giving you the essential toolkit to understand organizations from the inside out. Whether you're planning to launch your own venture or just want to decode the economic forces shaping your world, this is where it all begins.
Topics covered will include: Business structures and organizational models, operations management and supply chain basics, human resources and organizational behavior, strategic planning and competitive analysis, entrepreneurship fundamentals.
Open to all students (.5 Social Science credit)

Marketing & Consumer Behavior / CP - 2501



Why do you crave that brand? How do companies get inside your head—and your wallet? Dive into the fascinating psychology behind the ads, products, and experiences that shape our choices every day. You'll learn what makes consumers tick, how to craft messages that resonate, and the design principles that turn browsers into buyers. Perfect for future marketers, entrepreneurs, or anyone curious about the hidden persuaders all around us.
Topics covered will include: Psychological foundations of consumer decision-making, market research and audience segmentation, brand positioning and identity development, digital marketing and social media strategy, advertising design and persuasive communication, and neuromarketing and behavioral economics.
Open to all students (.5 Social Science credit)

Business Ethics & Law / CP - 2502



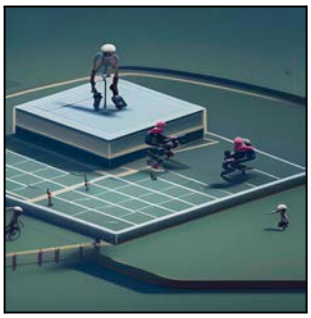
Running a business isn't just about profits—it's about doing it right. This course equips you with the legal frameworks and ethical compass every business owner needs to navigate today's complex landscape. From contracts and liability to sustainability and social responsibility, you'll explore the rules of the game and the moral questions that keep CEOs up at night. Essential knowledge for anyone planning to lead with both success and integrity.
Topics covered will include: Contract law and business agreements, intellectual property and trademark protection, employment law and workplace regulations, corporate governance and fiduciary duty, ethical frameworks for business decision-making, and corporate social responsibility and sustainability.
Open to all students (.5 Social Science credit)

Psychology / CP - 821 (with UMFK / CE option - 2821)



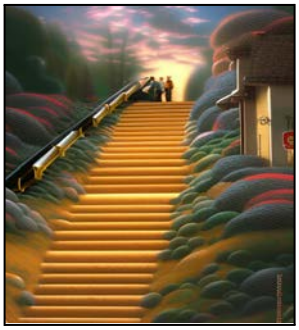
CP Psychology is a discussion-based Social Studies course in which students learn many psychological terms and theories and use them to analyze current events, life, and film. While much of the work for the course will be done in class, students will also write two formal film analysis papers which count for a significant portion of final grades. These papers are intended to prepare students for the rigors of college courses.
Open to sophomores, juniors & seniors. (.5 Social Science credit)
-NCAA Approved

Sociology / CP - 215



MCI's CP Sociology course combines an introduction to sociology with the study of deviance and social psychology. Sociology examines social life, social change, and the social causes and consequences of human behavior. Sociologists investigate the structure of groups, organizations, and societies, and how people interact within them. This Social Studies course is discussion based, with students leading discussions as often as possible. Students will use social theory to analyze their lives, society, current events, and film.
Open to juniors & seniors. (.5 Social Science credit)
-NCAA Approved

Leadership in the Professional Domain / CP - 2319



This CP-level semester English course will outline the introductory concepts of leadership in the workplace. As the world changes, so do the expectations and skills necessary to excel and manage within these changing power structures. Students will read and discuss the foundations of leadership and management, business psychology, social dynamics and communication in the workplace, gender and harassment, business ethics, marketing, law, and budgets and investments. Students will continue to polish their writing skills in business writing and essay assignments. Opportunities for job shadows in professional settings will be sought for practical application of skills building in leadership. The course will utilize a professional leadership portfolio to show mastery of leadership concepts and as an aid for future professional networking.
Open to juniors and seniors. (.5 English credit) -NCAA Approved

Architects of the Future / CP - 2322



This CP-level semester English course will explore the many facets of design and the diverse branches of engineering. With a basis in the historical, environmental, architectural, health, and ethical implications of these fields, students will read about new advances in aerospace, automotive, civil, biomedical, chemical, nuclear, computer, electrical, environmental, structural, industrial, and mechanical engineering. They will research, discuss, and debate the governance, moral, and environmental impact of engineering fields on humanity and their social systems, health, and future. Connections outside the classroom will be sought for practical connections. Students will learn and practice professional writing, and they will write argument and expository essays to prepare for post-secondary endeavors.
Open to juniors and seniors. (.5 English credit) -NCAA Approved

Solve the Story / CP - 2340



Reading Psychological Thrillers immerses students in texts where the mind is both the setting and the conflict. Students will read psychological thriller novels and short stories that explore fear, perception, control, isolation, memory, and morality. Through close reading and discussion, students will examine how authors craft suspense, develop psychologically complex characters, and challenge readers to question what is real.
In addition to reading, students will analyze a psychological thriller film, comparing how tension, character psychology, and theme are communicated through visual and auditory techniques. To deepen understanding, students will participate in an immersive escape-style game centered on narrative clues and ethical choices, allowing them to experience suspense and problem-solving firsthand.
Open to all students (.5 English credit)

Foundations of Fiction / CP: Crafting Short & Long Form Narratives - 2341



Crafting Short and Long Form Narratives immerses students in the art and discipline of fiction writing. Through a blend of reading, writing, discussion, and workshop-based learning, students will explore the structures, styles, and techniques that shape stories and long narrative works. Students will analyze modern and classic fiction, read work in multiple genres, and experiment with narrative voice, form, character, tension, and dialogue. Students will continue to explore such elements as POV and imagery and develop numerous original short fiction pieces and one long-form piece by semester's end. In addition to writing their own fiction, students will critically read, discuss, and respond to published fiction and the fiction of other students. This course emphasizes creative growth,critical reading, and reflective revision practices.
Open to all students (.5 English credit)

History of the Medieval World / CP - 2415



History of the Medieval World: The Middle Ages are marked as one of the longest periods in "recent" history, often with the falsely attached label of the "Dark Ages." Life across the medieval period was not dark, however, but a period of regeneration for many European countries, as well as a period of growth and stability in the East. The goal of this course is to recategorize the Middle Ages in three stages:

The fall of the Roman Empire
The rise of early intercontinental globalization
The medieval church, and entrance to modernity.

This course will consider factors such as climate, new agricultural practices, the Silk Road and its benefits to society, the Crusades, Eastern and Western religious developments, and technological developments from the years 500-1600, and how they can help us reimagine the Middle Ages as a brighter time in history.
Open to all students (.5 Social Science credit)

Women's Studies / CP - 2416



This course explores the roles, representations, and contributions of women within literary and historical contexts. Through the study of diverse texts and historical moments, students will examine how women's voices have been shaped, silenced, and amplified over time. Class discussions will be student-driven, with students taking an active role in leading conversations, asking critical questions, and engaging in collaborative analysis. Emphasis will be placed on close reading, historical inquiry, and thoughtful dialogue.
Open to all students (.5 Social Science credit)

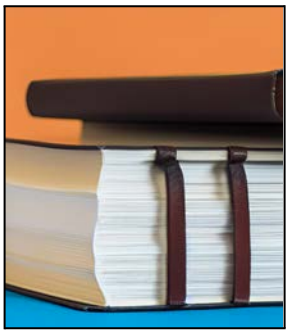
College Composition UMFK / CE - 2110



College Composition is a concurrent enrollment writing course that is designed to build on a student's strengths as readers and writers. This class helps to further develop critical thinking skills, establish more research and writing strategies, and improve ability to determine, create, and communicate meaning. Students will learn to constructively relate their own ideas and perspectives to those of others and build clear, well organized arguments. During the writing process, students will expand inquiries beyond the personal into complex discussions in academic, literary, and public textual forms. In this seminar, students will learn to craft and pursue their inquiries as they engage in inventing, composing, and revising their writing, both individually and collaboratively. Concurrent enrollment is free for Maine public education students and at a reduced rate for any tuition paying student. Students will receive 3 college credits from University of Maine Fort Kent upon successful completion.
Open to seniors. (.5 English credit) -NCAA Approved

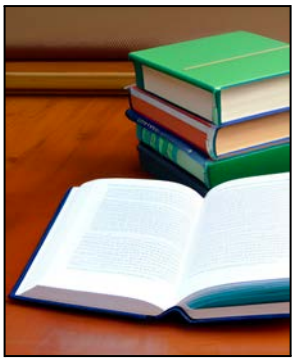
AP Courses (Two-Semester / 1 Credit Courses)

Advanced Placement (AP®) Language & Composition - 2323



This college-level literature course emphasizes understanding and analysis of imaginative non-fiction rhetoric and writing. Students will read and write frequent lengthy works. Each junior student will complete the Manson Essay for this course requiring students to research an important civic concern, write a synthesis essay with citations, and deliver these findings in a speech. Each senior student will initiate, develop, implement, and present the Senior Project during the fourth quarter. Qualified students may receive AP exam fee assistance through The College Board. ***Prerequisite: academic contract with instructor, writing and reading proficiency (formally evaluated), teacher recommendations, evidence of academic success (grades), and ongoing evidence of scholarly habits.***
OPEN TO JUNIORS. (1 English credit) -NCAA Approved

Advanced Placement (AP®) Literature & Composition - 2324



This college-level literature course emphasizes understanding and analysis of imaginative fiction writing. Students will read and write frequent lengthy works. Each junior student will complete the Manson Essay for this course requiring students to research an important civic concern, write a synthesis essay with citations, and deliver these findings in a speech. Each senior student will initiate, develop, implement, and present the Senior Project during the fourth quarter. Taking the AP® exam (and payment of the AP exam fee by the student) is a requirement for successful completion of the course. Qualified students may receive AP exam fee assistance through The College Board. ***Prerequisite: academic contract with instructor, writing and reading proficiency (formally evaluated), teacher recommendations, evidence of academic success (grades) and ongoing evidence of scholarly habits.***
OPEN TO SENIORS. (1 English credit) -NCAA Approved

Advanced Placement (AP®) US History - 2411



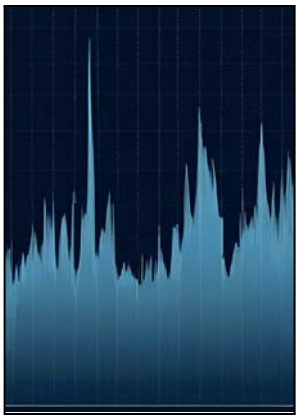
Students will study American history from pre-European contact to the end of the twentieth century. Rhetoric and history will be integrated throughout this college-level course. Argumentation, synthesis, and analysis of non-fiction are emphasized in this course. There will be frequent writing assessments and demanding homework expectations. Students will research, write, and orally present the Manson Essay, a graduation requirement. Writing, reading, analysis, and discussion are emphasized. This course requires much independent work. Taking the AP® exam (and payment of the AP exam fee by the student) is a requirement for successful completion of each course. Qualified students may receive AP exam fee assistance through The College Board. ***Prerequisite: academic contract with instructor, writing and reading proficiency (formally evaluated), teacher recommendations, evidence of academic success (grades) and ongoing evidence of scholarly habits.***
OPEN TO JUNIORS AND SENIORS. (1 Social Science credit) -NCAA Approved
This class counts toward the US History & Civics graduation requirement.

Advanced Placement (AP®) US Government & Politics - 2412



This introductory course to US Government and Politics will study constitutional underpinnings, civil liberties and civil rights, political culture, and socialization, citizen participation and influence, political institutions, and policy-making that are the foundation of modern U.S. government and politics. Students will interpret classic and contemporary political writings and apply pertinent Supreme Court rulings to enduring social and political issues in this country. This course prepares students to take the Advanced Placement United States Government and Politics exam. An AP® exam fee is required for students choosing to take the exam. Qualified students may receive AP exam fee assistance through The College Board. ***Prerequisite: academic contract with instructor, writing and reading proficiency (formally evaluated), teacher recommendations, evidence of academic success (grades), and ongoing evidence of scholarly habits.***
OPEN TO JUNIORS AND SENIORS. (1 Social Science credit) -NCAA Approved

Advanced Placement (AP®) Macroeconomics - 2503



AP Macroeconomics is an introductory college-level macroeconomics course. Students cultivate their understanding of the principles that apply to an economic system as a whole by using principles and models to describe economic situations and predict and explain outcomes with graphs, charts, and data as they explore concepts like economic measurements, markets, macroeconomic models, and macroeconomic policies.
OPEN TO SENIORS. (1 Social Science credit)

English for Speakers of Other Languages (ESL/ESOL) & Additional Electives

ESOL Integrated Skills I - 1011



This intensive daily class is designed for English Language Learners whose English is approaching the intermediate level of proficiency. Students will work on building their academic reading, writing, speaking, and listening skills.
(1.5 credits)

ESOL Integrated Skills II - 1012



This intensive daily class is designed for English Language Learners whose English is approaching the advanced level of proficiency. Students will work on building their academic reading, writing, speaking, and listening skills. This course is intended to prepare students for college preparatory humanities classes.
(1.5 credits)

ESOL US History - 1014



This two-semester course aims to introduce English Language Learners to the key events in American history while exploring the evolution of American culture and identity. Starting with Native American history and culminating with the Civil War, students will analyze historical events, participate in group discussions, and expand their English vocabulary. Additionally, the course will equip students with crucial skills such as note-taking, online research, critical thinking, and academic writing.
(1 credit)

ESOL Advanced Academic Writing - 1013



This course is intended for international students whose English is approaching fluency. Students will learn how to conduct research, analyze academic texts, and effectively present and debate complex ideas. By the end of the course, students will be equipped with the language skills necessary to engage in research writing and structured debates in English, and will be fully prepared to enroll in mainstream humanities classes at MCI.
(.5 credit)

ESOL Integrated Science - 404



This year-long course is intended to give the beginning-level ESL student a foundation in the vocabulary and content necessary to succeed in American science classrooms. Although the specific content area varies somewhat in response to the needs of each year's class, the material covered roughly parallels that of MCI's Earth and Space Science.
(1 credit)

Extended Learning Opportunities (ELO's)

ELO's

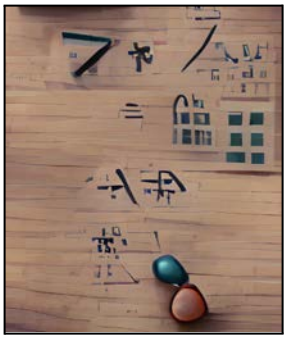


MCI believes firmly that collaboration and cooperation is central to the educational success of our students. "ELO's provide hands-on, credit-bearing experiences outside of the traditional classroom with an emphasis on community-based career exploration. They are highly personalized opportunities for students to engage in learning in ways that make sense for them and connect their learning to everyday life in meaningful ways. ELO's are a unique mix of academic instruction and assignments, such as papers and presentations, and combine experiential learning components like project-based learning, internships, and job shadows". ELO opportunities exist across the content areas in support of your personal pathway
(.5 credit per ELO)

Mathematics

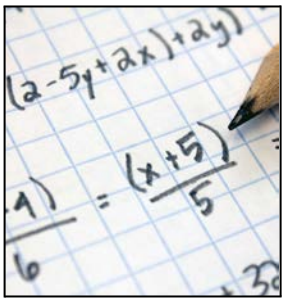
In all mathematics courses, there is a strong emphasis on problem solving, real-world applications and verbally communicating mathematical concepts. Students are active participants in their own learning as teachers aid them in making their own discoveries about mathematics. Algebra, geometry, statistics, probability and discrete math are integrated into all courses, thus connecting the traditional branches of mathematics as they are in the real world.
Placement in specific courses is always dependent on teacher recommendation. The courses are semester based.

Pre-Algebra - 328



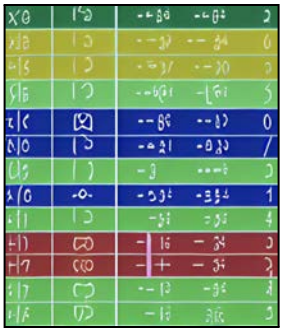
The pre-algebra course is designed for students who find the study of mathematics to be extremely challenging. Students enrolled in this class have historically experienced difficulty in mastering the concepts that are the foundation of mathematics, such as the computation of fractions and decimals. Though often very competent in other disciplines, students for whom math presents a unique challenge find this course helpful. Integrated throughout the curriculum are the basic concepts of algebra, as well as a deep dive into working with fractions, decimals, and integers. The course is paced according to the needs of each individual group of students.
(1 credit)

Algebra 1A/CP - 312



Students in this first year study of algebra apply concepts of algebra to the solution of relevant problems. The primary emphasis is the development of algebraic skills. Algebra topics include operations with real numbers, exponents and polynomials; linear equations and inequalities, including graphing and solving; quadratics including solving, graphing, and solving. Students use scientific calculators, employ various problem-solving strategies and acquire added skill in independent and cooperative learning. Students will have instruction during two periods in order to master the algebra concepts.
(1.5 credit)
-NCAA Approved

Algebra I/CP - 363



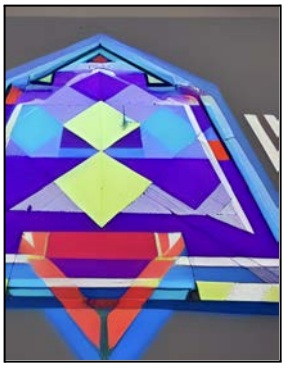
Students in this rigorous first year study of algebra apply concepts of algebra to the solution of relevant problems. The primary emphasis is the development of algebraic skills. Algebra topics include operations with real numbers, exponents and polynomials; linear equations and inequalities, including graphing and solving; quadratics, including solving, graphing, and factoring. Students use scientific calculators, employ various problem-solving strategies and acquire added skills in independent and cooperative learning
(1 credit)
-NCAA Approved

Geometry A - 322



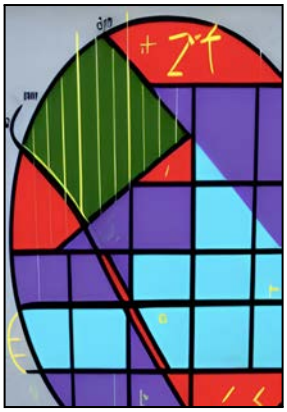
Geometry A Students will study the same concepts described in the Geometry section listed below. The pace will be somewhat slower and some concepts may be approached less rigorously. However, all basic concepts will be studied and applied in practical situations.
Prerequisites Algebra IA (1 credit)

Geometry/CP - 321



Geometry Students will explore geometric concepts and relationships using the tools of geometry: compass, straightedge, ruler and protractor. They will, through exploration and inductive reasoning, be able to write their own definitions from their observations. Through this approach, geometry students will acquire a strong background in the concepts of plane and solid geometry and a beginning knowledge of trigonometry. Prerequisite Algebra I. This course is tailored to the student who seeks a more rigorous pace and depth of study. First semester topics include an introduction to the basic properties of plane and solid figures such as triangles, quadrilaterals, polygons, similarity, coordinate and transformational geometry. The concepts of deductive and inductive proof are studied. Math communication, GeoGebra, and the use of technology will be integrated into the course. In the second semester topics include the study of right triangles, circles, trigonometry, area, volume, and coordinate geometry. ***Prerequisite: Algebra I/CP (1 credit)*** ***-NCAA Approved***

Algebra IIA - 332



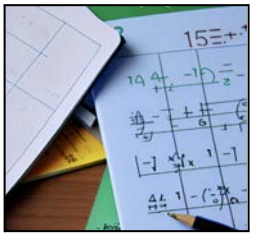
Students will study the same concepts described in the Algebra II section listed below. The pace will be somewhat slower and some concepts may be approached less rigorously.
Prerequisite: Algebra IA (1 credit)
-NCAA Approved

Algebra II / CP - 331



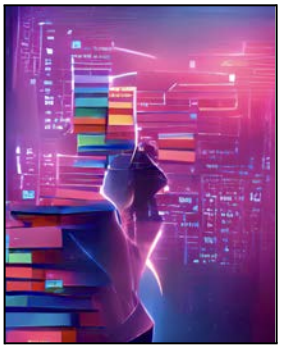
Students will identify and graph algebraic functions and use them to solve real-life problems. In addition, they will study systems of linear equations and inequalities, radicals, and exponents. Students will use technology and choose appropriate methods for problem solving. Throughout their study of integrated mathematics, students will continue to recognize the interconnectedness of all topics and branches of mathematics.
Prerequisite: Algebra I (1 credit)
-NCAA Approved

College Algebra (UMFK) / CE - 334



CE College Algebra is a full year course that provides students with basic algebraic skills. Covers algebraic concepts including linear, fractional and quadratic and exponential equations and graphs. Also covers basic trigonometry for right triangles. Concurrent enrollment is free for Maine public education students and at a reduced tuition rate for international and out of state students. This course is offered on MCI campus and is open to students who have fulfilled the necessary prerequisites. Students will receive 3 college credits from University of Maine Fort Kent upon successful completion.
Prerequisite: Algebra II/CP (1 credit)
-NCAA Approved

Statistics/CP - 345



Students use a non-theoretical approach to the study of statistics in which concepts are explained intuitively and supported by examples. The applications are general in nature and include problems from agriculture, business, biology, economics, education, psychology, engineering, medicine, sociology, and computer science. This course is designed to create a framework in which students who find math challenging can gain a fundamental understanding of the importance of statistical analysis. At the same time, students who wish to pursue a math or science related career would acquire a strong foundation in statistics upon which they can build in advanced courses.
Prerequisite: Algebra II (1 credit)
-NCAA Approved

Pre-Calculus / CP - 397



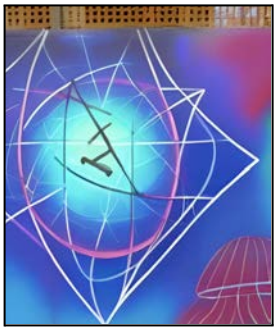
In this course students regularly employ a variety of problem-solving techniques and build skills using the TI-84 graphing calculator. Students study advanced functions and graphing, discrete mathematics, and Trigonometry.
Prerequisite: Algebra II (1 credit)
-NCAA Approved

Advanced Placement (AP®) Pre-Calculus - 338



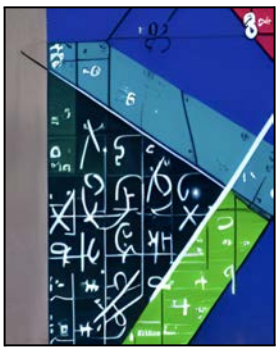
This course equips students with mathematical tools in real-world modeling situations in preparation for using these tools in higher-level math and science courses.Topics include Polynomial and Rational Functions, Exponential and Logarithmic Functions, Trigonometric and Polar Functions, and Functions involving Parameters, Vectors and Matrices.
Prerequisite: Algebra II (1 credit)
-NCAA Approved

Advanced Placement (AP®) Calculus AB - 340



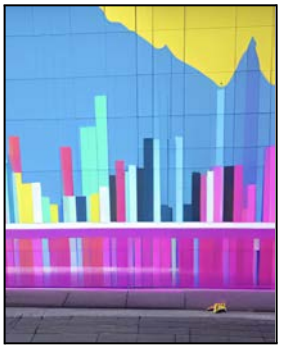
This course covers the same material as the traditional Calculus course, but with more emphasis on analysis, application and the relationship between all representations of functions. The course prepares students to take the College Board's AP® Calculus AB exam in the spring. Taking the AP® exam (and payment of the AP exam fee by the student) is a requirement for successful completion of the course. Qualified students may receive AP exam fee assistance through The College Board. Students will be expected to purchase their own TI-84 calculator or rent one from MCI.
Prerequisite: Pre-Calculus and teacher recommendation (1 credit)
-NCAA Approved

Advanced Placement (AP®) Calculus BC - 342



This course covers the equivalent of two semesters of college Calculus. Students will expand on knowledge from Calculus AB to further explore limits, derivatives and integrals and apply their understanding to challenging new concepts such as sequences, series, parametric curves and polar curves. The course is designed to prepare students to take the College Board's AP® Calculus BC exam in the spring. Taking the AP® exam (and payment of the AP exam fee by the student) is a requirement for successful completion of the course. Qualified students may receive AP exam fee assistance through The College Board. Students will be expected to purchase their own TI-84 calculator or rent one from MCI.
Prerequisite: AP® Calculus AB or teacher recommendation (1 credit)
-NCAA Approved

Advanced Placement (AP®) Statistics - 349



This course prepares students to take the College Board's AP ® Statistics exam in the spring. Per the College Board course description, this AP Statistics course introduces students to the major concepts and tools for collecting, analyzing, and drawing conclusions from data. There are four themes evident in the content, skills, and assessment in the AP Statistics course: exploring data, sampling and experimentation, probability and simulation, and statistical inference. Equivalent to a one-semester, introductory, non-calculus-based college course in statistics.Taking the AP ® exam (and payment of the AP exam fee by the student) is a requirement for successful completion of the course. Qualified students may receive AP exam fee assistance through The CollegeBoard.
Prerequisite: Algebra 2 or teacher recommendation (1 credit)
-NCAA Approved

Accounting I - 366



Introductory course that teaches students the basics of accounting and how businesses track their money. Throughout the semester, students learn how to: record financial transactions, organize financial information, and prepare financial statements. This course will introduce key accounting terms such as assets, liabilities, income, and expenses. Students also explore how accounting is used to make business decisions. Open to Sophomores, Juniors, and Seniors.
Prerequisite: Algebra I (.5 credit)

Accounting II - 367



Accounting II is a continuation of Accounting I and is designed for students who want to build on their accounting knowledge. This course covers more advanced topics, including: managing inventory, calculating depreciation, understanding internal controls, and analyzing financial statements. Students apply accounting concepts to real-world scenarios and develop problem-solving and critical-thinking skills. Open to Sophomores, Juniors, and Seniors.
Prerequisite: Algebra I, Accounting I (.5 credit)

Business Math - 382



This practical course is designed to help students develop the mathematical and financial skills needed for everyday life and the workplace. Students apply math concepts to real-world topics including: banking services, payroll, buying/selling, simple and compound interest, inflation, taxes, annuities, budgeting, and basic investing with stocks and bonds. The course emphasizes financial decision-making and responsible money management. Students also complete a hands-on technology module exploring Google Sheets, where they learn to organize data, perform calculations, and create budgets and financial models. By the end of the course, students gain essential skills for managing personal finances and understanding business-related financial concepts.
Prerequisite: Algebra 2. (1 credit)

History of Math - 359



This course will explore the evolution of mathematical concepts and ideas across different civilizations throughout history, examining key mathematicians, their contributions, and the societal context that shaped their discoveries, including topics like early number systems, geometry, algebra, calculus, and the development of proof techniques, with a focus on the influence of ancient civilizations like Babylonians, Egyptians, Greeks, Indians, and Arabs on modern mathematics.
(.5 credit)

Science

Science courses at MCI support students in learning to inquire, understand and solve problems using scientific methods. Our courses integrate the processes of investigation and communication about the natural world with a scientific body of knowledge that includes concepts, principles, facts, laws, and theories about how our world and universe work. The Science Department offers students a variety of courses and levels from Earth and Space Science in freshman year through AP® courses.

Earth and Space Science - 418



This course studies the four primary Earth Systems--the Atmosphere, Biosphere, Geosphere, and Hydrosphere--and the interconnections between each system. Through various methods of scientific inquiry, students will examine the interactions of air, water, and other physical processes that shape the physical world. Students will also explore the Earth and its place in space as part of the solar system, galaxy, and the universe.
(1 credit)

Earth and Space Science / CP - 419



Course material covers the same topics as General Earth Science, but with more emphasis on deep analysis and understanding. Topics will be explored in greater depth and detail. Students enrolling in this class must have good mathematical and strong critical thinking skills.
(1 credit)
-NCAA Approved

Biology - 420



A systems approach to the important concepts and ideas of biology, this course is designed to lead students to an understanding and appreciation of the common characteristics of living systems. Topics include cells, genetics, organisms and ecosystems. This class includes many lab activities, which require analytical and communication skills.
(1 credit)

Biology / CP - 421



This course is an exploration of all life, from molecules to ecosystems. This course will study the structure and function and behavior of organisms on a changing planet. Students are required to solve problems using algebra, measure and compute accurately, research and write critically and design experiments. This class includes extensive lab work, which requires math and reporting skills.
(1 credit)
-NCAA Approved

Advanced Placement (AP®) Biology (2 periods) - 415



This is a college-level course designated as an official AP course by the College Board. This course addresses all areas of modern biology through extensive reading, writing, computation and lab work. Topics include the chemistry of life; cell structure and function; cellular energetics (respiration, photosynthesis, enzymes); cell communication and cell cycle; heredity; gene expression and regulation; natural selection; ecology. Qualified students may receive AP exam fee assistance through The College Board. Summer work is required for all students.
Prerequisites: grades of 80 or above in Biology, Chemistry and Algebra (1.5 credits)
-NCAA Approved

Chemistry/Physics - 450



This course is a broad overview of the physical sciences, chemistry and physics, with hands-on experiences to enhance understanding. The first semester of the course focuses on chemistry concepts, including matter and how it changes, understanding atomic structure, how atoms bond, and different types of chemical reactions. In the second semester, the focus turns to physics concepts, including forces, collisions and momentum, energy transfer, and mechanical waves.
Prerequisites: Junior/Senior standing or recommendation from a science teacher (1 credit)
-NCAA Approved

Chemistry / CP - 473



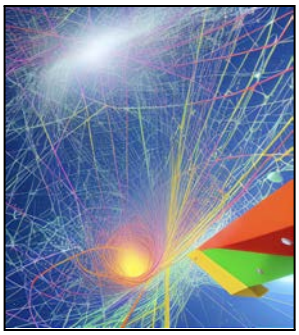
This is a standard high school chemistry course in which students perform a variety of activities, lab experiments and research in order to explore and explain matter. Topics include classification and measurement of matter, atomic theory, structure of atoms, use of the periodic table, chemical bonding and formulas, the mole concept, and stoichiometry.
Prerequisites: CP Algebra I (completed with minimum grade of 80), Algebra II/CP (may be taken concurrently); Junior/Senior standing or recommendation from a science teacher (1 credit)
-NCAA Approved

Advanced Chemistry II - 458



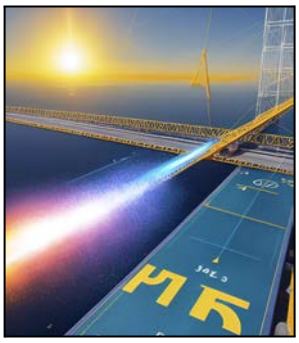
Gain a strong foundation in preparation for an introductory college Chemistry course by learning about the fundamental concepts of chemistry including structure and states of matter, intermolecular forces, and reactions. Students will conduct hands-on lab investigations and use chemical calculations to solve problems. The skills students learn include designing experiments and procedures to test a prediction or theory; creating graphs, diagrams, and models that represent chemical phenomena; explaining how the microscopic structure of a substance determines its chemical properties; balancing a chemical equation; and making a scientific claim and supporting it with evidence. This course is NOT designed to prepare students for the AP Chemistry Exam.
Prerequisites: Chemistry CP and Algebra II/CP (both completed with minimum grade of 80) (1 credit)

Physics / CP - 441



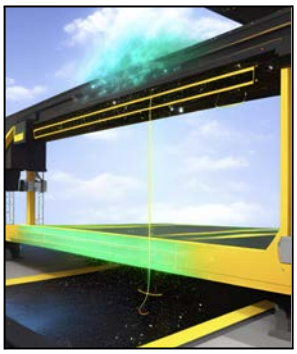
This is primarily a course in mechanics and teaches experimental design with graphical and numerical analysis. Experimental results are used to teach the fundamentals of linear motion and force and the analogous topics of rotational motion and torque. Students will also learn to solve problems using the conserved quantities of momentum and energy. Students must have good mathematical skills.
Prerequisite: Algebra I (completed with minimum grade of 80), Algebra II (may be taken concurrently) (1 credit)
-NCAA Approved

Advanced Placement (AP®) Physics I - 410



AP Physics 1 is an algebra-based, introductory college-level physics course. Students cultivate their understanding of physics through inquiry-based investigations as they explore these topics: kinematics, dynamics, circular motion and gravitation, energy, momentum, simple harmonic motion, torque and rotational motion, electric charge and electric force, DC circuits, and mechanical waves and sound. Qualified students may receive AP exam fee assistance through The College Board.
Prerequisites: Algebra I (completed with a minimum grade of 80), Algebra II (may be taken concurrently) (1 credit)
-NCAA Approved

Advanced Placement (AP®) Physics II - 474



AP Physics 2 is an algebra-based, introductory college-level physics course. Students cultivate their understanding of physics through inquiry-based investigations as they explore these topics: fluids; thermodynamics; electrical force, field, and potential; electric circuits; magnetism and electromagnetic induction; geometric and physical optics; and quantum, atomic, and nuclear physics. Qualified students may receive AP exam fee assistance through The College Board.
Prerequisites: successful completion of AP Physics 1 or CP Physics, and Pre-calculus (may be taken concurrently) (1 credit)
-NCAA Approved

Advanced Anatomy & Physiology (with UMFK / CE option) - 488



Course material focuses on the structure and function of the eleven human body systems. It is a fast paced, content focused class with a small lab section. An emphasis is placed on learning proper terminology, as well as the integration of body systems. This course may be taken as a concurrent enrollment course in which students earn both high school and university credits. Concurrent enrollment is free for Maine public education students and at a reduced rate for international and out of state students. Four college credits will be awarded by University of Maine at Fort Kent upon successful completion of each semester for a total of 8 college credits.
Prerequisite: CP Biology (1 credit)
-NCAA Approved

Environmental Science - 496



This course provides students with a foundation in the principles and concepts of environmental science. Topic selection is based on current environmental science issues and includes: sustainability, population, recycling, waste management, alternative energies, agricultural practices, and human relationships with environmental change. Students are required to work in the student garden and participate in the campus recycling program and greenhouse.
Prerequisite: Biology (1 credit)
-NCAA Approved

Marine Biology & Ecology - 424



This course explores the structure, function, and adaptations of marine organisms—from microscopic plankton to large marine mammals—and examines the roles they play within ocean ecosystems. Major topics include marine habitats, coastal environments, food webs, human impacts on marine resources, and conservation efforts.
Prerequisites: grades of 80 or above in CP Biology. (0.5 credits)

Conservation Biology & Law - 425



This course explores the science of conservation while examining the legal aspects that protect species and ecosystems. It investigates how ecological principles, population dynamics, habitat management, and human impacts result in conservation challenges while looking at key environmental laws and policies such as the Endangered Species Act, the Clean Water Act, and international treaties.
Prerequisites: grade of 80 or above in CP Biology. (0.5 credits)

Sustainable Living - 481



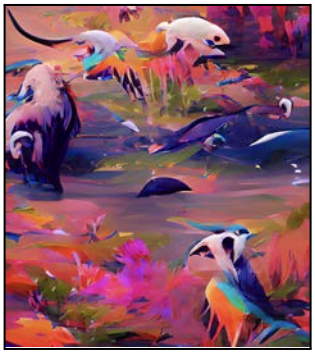
This course investigates the challenges of implementing sustainability in a variety of forms: home energy use, recycling/reusing/reducing/precycling, climate change and pollution, natural resource use, gardening and ecosystems/land use. This class is a hands-on approach to learning how to reduce the environmental impact of your living area, home, and here at MCI. Class size is limited, and enrollment is ***restricted to juniors and seniors.****.****Prerequisites: Biology or instructor permission (.5 credit)***
-NCAA Approved

Botany - 492



This course examines the vital role of plants on Earth along with plant anatomy, growth and development and the characteristics of major groups of plants. Students will engage in hands-on projects with plants. As a part of the class students will participate in the maintenance and growth of plants in the garden, around campus and in the greenhouse.
Prerequisites: Biology (may be concurrently taking) (.5 credit)
-NCAA Approved

Laboratory Science: Wildlife Forensics - 471



This course covers the multi-billion dollar world of illegal wildlife trade and the efforts of wildlife forensic specialists to police it. You will learn how to conduct investigations using real-life cases of poaching and illegal trade. The course includes training in forensic lab techniques and a survey of current laws and job opportunities. This course is offered in the ***fall semester only.***
Prerequisite: Biology (.5 credit)
-NCAA Approved

Forensic Science - 491



This course explores the scientific aspect behind crime scene investigations. Major topics include fingerprint analysis, hair/fiber evidence, blood and DNA evidence, toxicology, handwriting and document analysis, ballistics and impressions. A focus will be on how this evidence is collected from a crime scene and its use in determining guilt or innocence. The class will have a heavy lab focus and end with a mock crime scene investigation.
Prerequisite: Biology (or teacher approval) (.5 credit)
-NCAA Approved

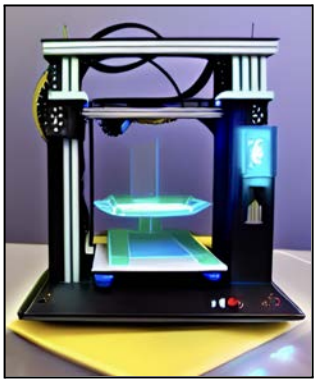
Astronomy - 454



This is a semester-long course that will build upon the foundational Astronomy topics learned during Earth and Space Science. More specifically, students will study stars, galaxies, and Cosmology. Students will explore the nature of light, how we view our universe, and each student will learn about optics with a focus on using telescopes to view parts of the solar system.
Prerequisite: Earth and Space Science (.5 credit)
-NCAA Approved

Technology and Engineering

Introduction to Design - 499



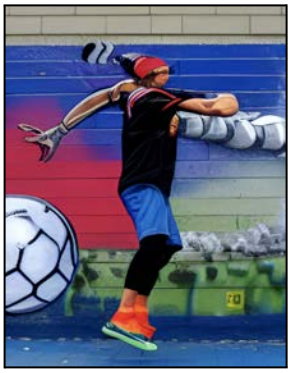
This course is a semester-long course for students interested in learning the basic fundamentals of modeling, scaling, and 3D printing. This course will provide students with a foundation of designing and modeling skills that will be incorporated in future STEM classes here at Maine Central Institute. Students will learn the principles of design, how a 3D printer works, and how to successfully print models that can be tested in the lab setting. As students explore the capabilities of 3D printing, there will be a focus on real life application for the models they design and print. Tinkered is one platform that will be used to design models for 3D printing, but a variety of other printing apps will be introduced as well. This course is offered in the fall and spring semesters.
Students who are interested in taking Intro to Engineering and Physics of Sports will be given priority for the class. (.5 credit)

Introduction to Engineering - 470



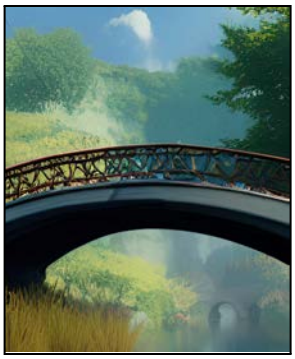
This is a first year engineering course intended to build upon the skills developed in Introduction to Design. Students will apply this knowledge into the design and creation of various civil, mechanical, and environmental engineering projects.
Prerequisite: pass Introduction to Design with a minimum of 75 (.5 credit)
-NCAA Approved

Physics in Sports - 438



This is a semester-long course intended for students interested in studying physics and its role in athletics. This course will cover introductory level physics concepts with a focus on conceptual understanding. Students will also explore the science behind sports equipment and how engineering has lead to advancements in sports over time. A major component of this course will be designing and testing 3D models. Topics covered in this course will include: kinematics; force and Newton's laws, work, energy, and power; momentum; rotational motion; mechanical waves; fluids; and simple circuits.
Prerequisite: pass Introduction to Design with a minimum of 75 (.5 credit)
-NCAA Approved

Advanced Design - 478



This course is a semester-long course for students interested in building upon their skills learned in Introduction to Design. Students will explore more advanced CAD programs such as Sketchup, Shapr3d, and Fusion 360. The use of Apple Pencils with the iPads will be incorporated as part of the process of design. As students develop their CAD abilities they will also work with Adobe Suite Apps to create 2D graphical designs. Throughout the course, students will be using a variety of 3D printers, 3D pens, and will be learning about Laser Engraving as a method of modeling. This course is offered in the Fall and Spring semesters.
Prerequisite: pass Introduction to Design with a minimum of 75 (.5 credit)

Mechanical Engineering - 483



Mechanical Engineering is an advanced course that will build off skills learned in physics, math, and pre-engineering classes. Students will explore the fundamental areas of mechanical engineering, including mechanics, thermodynamics, materials science, and design. Through a combination of theoretical lectures, hands-on laboratory experiments, and practical projects, students will develop a strong foundation in the principles of mechanical engineering.
Prerequisites - successful completion of AP Physics 1 or CP Physics, and Algebra 2 (.5 credits)

Computer Applications - 818



This course will explore topics related to digital citizenship, developing skills and awareness to help students engage in appropriate behavior and take ownership of their digital lives. This will include delving into social media usage and learning how to write emails appropriately. Students will also develop skills using common computer applications, including (but not limited to) Google Suite, Apple, and Adobe applications that will be used throughout high school and beyond. As digital organization is a vital skill in the Information Age, students will also learn good habits to get, and stay, digitally organized.
Open to freshmen & sophmores. (.5 credit)

Advanced Placement (AP®) Computer Science A - 624



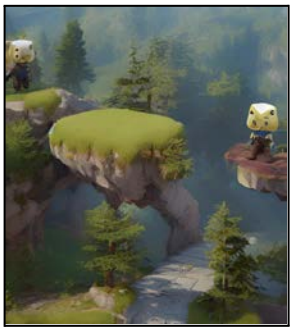
AP® Computer Science A offers a multidisciplinary approach to teaching the underlying principles of computation. The year-long course will introduce students to the creative aspects of programming, abstractions, algorithms, large data sets, the Internet, cybersecurity concerns, and computing impacts. AP® Computer Science A will give students the opportunity to use technology to address real-world problems and build relevant solutions. Together, these aspects of the course make up a rigorous and rich curriculum that aims to broaden participation in computer science.
Prerequisite: Algebra I. Open to sophomores, juniors & seniors. (1 credit)

Advanced Placement (AP®) Cyber Security - 631



AP Cybersecurity is a yearlong high school course that offers a broad introduction to the field and aligns closely with a college-level, introductory cybersecurity course. Students learn about common threats and vulnerabilities and how they combine to create risk. Students study how individuals and organizations manage risk and how risk can be mitigated through a defense-in-depth strategy. Students explore specific vulnerabilities, attacks, mitigations, and detection measures across a variety of domains including physical spaces, computer networks, devices, and data and applications. Throughout the course, students consider the impact of cybersecurity on individuals, organizations, societies, and governments. Content and skills taught in the course align with the professional skills outlined in the National Initiative for Cybersecurity Education Workforce Framework.
Open to sophomores, juniors & seniors. (1 credit)

Intro to Game Design - 627



Playing video games is fun; creating video games is exhilarating. This course uses a team-based approach to allow students to each contribute talents needed to construct a quality video game. From the narrative storyline to sound design to voice-over acting to concept art to coding, each unit is designed to help students find their niche in the technical world. The class will begin by dissecting quality games to understand their value, and then apply their findings to their own games. At the end of the semester, each team will complete their own complex game to share with the world. This course is designed for any student interested in art, music, drama, creative writing, and of course coding!
Open to sophomores, juniors & seniors. (.5 credit)

UI/UX Design - 634



User-Interface (UI) and User Experience(UX) Design is the process of sculpting the menus, buttons and navigation of a website, mobile application or desktop software. This course will explore proper design principles and allow students to step through the visual software design process. Case-study style projects will allow students to emulate working with prospective clients to identify technical needs , produce mockups, and present their prototypes. By the end of the semester, student groups will utilize cross-platform tools to create a working mobile app, desktop software, or website.
No Prerequisite. Open to All Students. (.5 credit)

Intro to Virtual Reality - 632



This one-semester course offers students an introduction to designing their own Virtual Reality (VR) experiences. Students will learn about VR and Augmented Reality (AR) technologies and discuss their application in education and industry, as well as the potential ethical and societal impact of immersive media. Utilizing the Unity game engine, student groups will learn the process of designing and implementing an interactive VR or AR simulation. This class will have an opportunity to work with Oculus Quest hardware, and learn how to build and load software onto these devices. Coding experience is helpful for this course, but is not a requirement.
No Prerequisite. Open to all students. (.5 credit)

Intro to AI - 633

	Intro to AI (Artificial Intelligence) is a one-semester course that introduces students to the principles of Artificial Intelligence use and design. The course will begin with a deep dive into AI concepts, exploring current technologies, how they work on a basic level, and how they are engineered. The class will discuss AI ethics, including topics of data privacy, bias, safety and ecological impact. Students will complete projects where they will create, analyze, and explain AI augmented presentations using audio, images, videos, or 3D models. By the end of the course, students will use industry-standard tools to create their own AI powered agent or chatbot. ***No Prerequisite. Open to all students. (.5 credit)***

Robotics - 475

	*This one-semester course introduces students to designing, building, and programming small mobile robots through hands-on, project-based learning. Students learn core robotics concepts, including mechanics, electronics, sensors, and programming, while also developing skills in teamwork, documentation, and the engineering design process. By the end of the course, students will be able to safely operate tools, assemble and wire a robot, write basic autonomous programs, and explain how robots are used in real-world applications.* ***No Prerequisite. Open to all students. (.5 credit)*** ***-NCAA Approved***

Human Development

Human development courses are built on the "Holistic Wellness" approach. This approach recognizes the symbiotic relationship among physical, mental / intellectual, emotional, social and spiritual health. Because health issues are so dynamic, HD courses strive to give students the skills, resources and knowledge to be healthy, happy, lifelong learners. Students are encouraged to think for themselves, be knowledgeable consumers and problem solvers and to make educated decisions.

Health - 905

	*The Health education course acquaint students with attitudes, values, and practices surrounding the topics of health and wellness. Students will acquire skills to help them make healthy decisions, set health goals and access valid health information. Students will learn effective communication skills and how to advocate for themselves and others. Students develop the critical thinking skills required to make educated decisions surrounding health and wellness. Topics include (but are not limited to) substance use and abuse, conflict resolution, nutrition, reproductive health and disease prevention. Health is a semester-long course required of all students.* ***Open to sophomores, juniors & seniors. (.5 credit)***

Physical Education I - 901

	*This course introduces students to "lifetime" sports, recreation and games. The curriculum focuses on fitness education and motor skill development for the purpose of improved individual health and encouraging participation for a lifetime. Emphasis is placed on certain health-related fitness (HRF) areas known to have a great impact on one's quality of life. Activities may include golf, archery, racquet sports and volleyball. PE I is a semester-long course required of all students.* ***Required for all students. (.5 credit)***

Physical Education II - 900



Good fitness habits as a youth translate to a healthier, more satisfying adulthood and higher overall quality of life. In PE II we will concentrate on fitness and being active. For lifelong fitness, it is important to find activities that you will enjoy and that will make you a healthier person. The course goal is to expose students to a wide variety of fitness activities such as aerobics, weight lifting, yoga, pilates, medicine ball, physioball and calisthenics, as well as active recreational activities such as mountain biking and canoeing. This introduction to activities, along with a strong knowledge base, will enable you to make individualized choices to improve your well-being based on your own strengths and weaknesses. PE II is a semester-long course required of all students.
Prerequisite: PE I (.5 Credit)

Physical Education III - 910



This semester-long elective course engages students in a variety of lifelong activities. The curriculum focuses on sportsmanship, teamwork, cooperation, fitness education and motor skill development for the purpose of improving individual health and encouraging participation for a lifetime.
Prerequisites: PE I and PE II (.5 Credit)

Introduction to Medical Concepts - 908



During this course, students will become acquainted with general medical concepts including, but not limited to, general medical illnesses and care, vital sign techniques and other biometric tests, common medical terminology as well as an introduction to blood pressure, heart and lung sounds. Students will have the opportunity to earn his/her First Aid/CPR/AED certification from the American Heart Association. Students will have the opportunity to job shadow with healthcare professionals at Northern Light Sebasticook Valley Hospital and gain clinical experience with patient assessment and treatment. This class requires vaccinations including flu, covid and a negative TB test in the last year. Should have documentation into the academic office by the end of November. This is a junior and senior level class. Special permission may be given to a sophomore that has met the prerequisites.
Prerequisites: PE II and Health (.5 Credit)

Introduction to Sports Medicine - 903



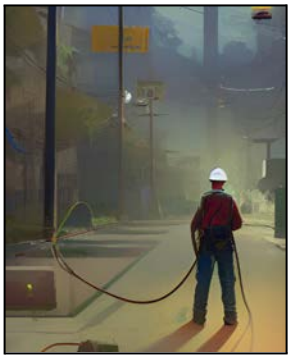
During this course, students will get an introduction to the foundations of providing health care to athletes and physically active individuals. Students will learn the basics of prevention, assessment, and management of injuries, rehabilitation and emergency care. The course will cover basic anatomy, pathology and kinesiology. This course includes labs where students will have the opportunity to learn by doing the assessments, taping and various aspects of emergency care. The course will also look at the various emerging practice areas for the athletic trainer.
Prerequisites: PE II and Health (.5 Credit)

MEOutside - 912



MEOutside is a continuation of many of the outdoor activities introduced in PE2 as well as additional activities to get outside in Maine. Geocaching, orienteering, survival skills, fly tying as well as fly casting, fishing skills, bird ID and plant ID are all possible units depending on time and group interest. Our focus will be getting outside and moving in a state known for its natural beauty! All levels of outdoor experience are encouraged to join the class.
Prerequisite: PE II (.5 Credits)

Jobs for Maine's Graduates (JMG) Gr 9, 10, 11 - 209 / Gr. 12 - 201



Each year, JMG serves over 13,000 students across 150 programs in Maine public schools, town academies, and colleges. Through JMG programs, high-school and middle-school students discover their individual talents, develop skills, and seize opportunities to achieve their personal potential. JMG at MCI offers a venue for students to interact with employers, community-based organizations, and post high school opportunities. The JMG program provides instruction in more than 30 core competencies comprising six skill sets: personal skills, leadership skills, communication skills, job attainment skills, job success skills, and career development skills. JMG is successfully preparing Maine's young people to be responsible and productive employees, customers, and citizens. MCI offers JMG for grades 9-12. The JMG teacher will interview every student before acceptance to the program.
Open to all students. (1 Credit)

Visual and Performing Arts

MCI offers a variety of instruction and opportunities within the fine arts. Art, music, drama, and dance all help to build a sense of community and contribute to understanding and appreciating diverse cultures. Beyond the classroom, students are able to develop their individual talents, participate in performances and displays and compete for regional awards.

Art

Studio Foundations I - 807



Is an introductory survey of two-dimensional art making practices. Through guided practice, students will develop the technical and compositional skills necessary to express themselves visually. Students will learn creative problem solving and critical thinking skills through the evaluation of their artwork, that of their peers, and the investigation of historical and multicultural examples
Open to all students. (.5 Credit)

Ceramics I - 866



Is an introductory survey of ceramic hand-building techniques through the creation of functional and sculptural ceramic forms. Through guided practice, students will develop the technical and compositional skills necessary to express themselves visually. Students will learn creative problem solving and critical thinking skills through the evaluation of their artwork, that of their peers, and the investigation of historical and multicultural examples.
Open to all students. (.5 Credit)

Studio Foundations II - 808



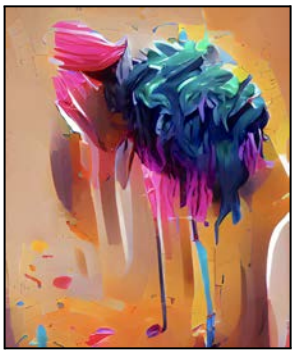
Is an intermediate level course that builds upon the knowledge and skills gained through two-dimensional art making practices in Studio Foundations 1. After further exploring two-dimensional media, students' learning focuses on three-dimensional practices, including the exploration of assemblage and subtractive sculpture. Studio Foundations 2 builds on their creative problem solving and critical thinking skills through guided investigation of historical and multicultural examples including those of their own choosing.
Prerequisite: Studio Foundations I (.5 Credit)

Drawing - 704



Is an intermediate level course that builds upon the knowledge and skills gained through two-dimensional art making practices in Studio Foundations 1. The focus is on drawing and mark making using various media. Drawing builds on their creative problem solving and critical thinking skills through guided investigation of historical and multicultural examples including those of their own choosing.
Prerequisite: Studio Foundations I (.5 Credit)

Painting - 852



Is an intermediate level course that builds upon the knowledge and skills gained through two-dimensional art making practices in Studio Foundations 1. The focus is on the use of various painting mediums on various surfaces. Painting builds on their creative problem solving and critical thinking skills through guided investigation of historical and multicultural examples including those of their own choosing.
Prerequisite: Studio Foundations I (.5 Credit)

Ceramics & Pottery II - 876

	*Is an intermediate level course that builds upon the knowledge and skills gained through the creation of hand built ceramic forms in Ceramics I. Students further explore hand-building techniques, wheel-throwing and surface decoration. Ceramics and Pottery II builds on their creative problem solving and critical thinking skills through guided investigation of historical and multicultural examples including those of their own choosing.* ***Prerequisite: Ceramics I (.5 Credit)***

2D Portfolio - 885

	*Is an advanced level course where students will focus on the development of original, portfolio and show quality work. Through personal investigation, self-directed practice, and the instructor's guidance, students will master the creative problem solving, critical thinking, technical, and compositional skills required of a professional artist.* ***Prerequisite: Studio Foundations I & Drawing or Painting or Studio Foundations II (1 credit)***

2D Portfolio II - 886

	*Is an advanced level course where students will focus on the development of a professional portfolio of original work. Through personal investigation, self-directed practice, and the instructor's guidance, students will master the creative problem solving, critical thinking, technical, and compositional skills required of a professional artist..* ***Prerequisite: Studio Foundations I & Drawing or Painting or Studio Foundations II and 2D Portfolio I (1 credit)***

Ceramics & Pottery III - 877

	*Is an advanced level course where students will focus on the development of original, portfolio and show quality ceramic work. Students will explore advanced techniques in surface decoration while refining their hand-building and/or wheel-throwing skills. Through personal investigation, self-directed practice, and the instructor's guidance, students will master the creative problem solving, critical thinking, technical, and compositional skills required of a professional ceramic artist.* ***Prerequisites: Ceramics I and Ceramics & Pottery II (1 credit)***

Ceramics & Pottery IV - 878



Is an advanced level course where students will focus on the development of a professional portfolio of original ceramic work. Through personal investigation, self-directed practice, and the instructor's guidance, students will master the creative problem solving, critical thinking, technical, and compositional skills required of a professional ceramic artist.
Prerequisites: Ceramics I, Ceramics & Pottery II and III (1 credit)

Discovering Art History - 889



Is a broad survey that presents a chronological history of artistic development from a global perspective, exploring the common themes surrounding artistic expression found throughout human history from various cultures around the world. Art History is a rigorous course that emphasizes the development of advanced critical thinking skills through the investigation of historical and multicultural examples to make comparisons and contrasts that lead to an understanding of cross-cultural connections and cultural exchange.
(.5 Credit)

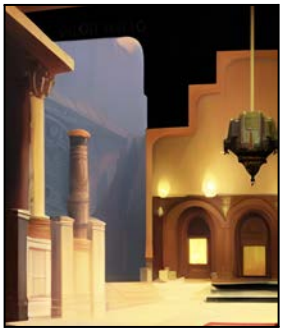
Drama

Technical Theatre I - 970



This course provides students with a hands-on approach to stagecraft. Students will build sets, learn scenic painting techniques, and create properties, costumes and makeup designs for MCI Drama productions. Students will also serve as the run crew for MCI Drama productions and will learn stage management techniques, as well as lighting and sound design and operation.
Open to all students. (1 Credit)

Technical Theatre II - 873 / III - 90408 / Advanced - 872



This course provides students with a hands-on approach to stagecraft. Students will build sets, learn scenic painting techniques, and create properties, costumes and makeup designs for MCI Drama productions. Students will also serve as the run crew for MCI Drama productions and will learn stage management techniques, as well as lighting and sound design and operation. ***Prerequisite: Technical Theatre I or Instructor's Permission with successful completion of one of the following courses: Play Production, Actor's Studio, Stage and TV Makeup, Costume Design or Festival Theatre Ensemble (1 Credit)***

Stage and TV Makeup I - 965



What is makeup? When was it first used and for what reason? How has makeup evolved through history? This hands-on semester-long course will cover the basic techniques of theatrical makeup by exploring makeup materials, color and light, and modeling techniques in the development of makeup designs for youth, middle and old age, historical persons, stylized faces, clowns, animals, and fantasy makeup. Through practical application on themselves, students will demonstrate skills and techniques of the various materials presented in the course, build resources and be able to complete character analysis for makeup design and technique.
Open to all students. (.5 Credit)

Stage and TV Makeup II - 976



Building on the techniques and skills learned in Stage and TV Makeup 1, students will further their skills in the use and application of make up for performance settings.
Prerequisite: Stage and TV Makeup I (.5 Credit)

Social Theater - 974



Social Theatre Class is an interactive exploration of local and global issues affecting today's high school students: bullying, cyber bullying, acceptance, risk-taking, school violence and discrimination. Students will build community, heal divisions and shatter stereotypes through class discussions, guest speakers, videos and selected play readings.
Open to all students. (.5 Credit)

Actor's Studio I - 931



Have you ever wondered what an actor does? The mission of this semester-long class is to awaken the students' imagination, emotion and intellect while introducing fundamental skills and tools required for developing strong communication skills. Students will build self-awareness, develop imagination and concentration, learn the actor's vocabulary, and demonstrate the ability to be honest and committed in their acting. Coursework will include: Improvisation, Comedy Sketch Work, Mask Acting, Voice, and Movement. ***(.5 Credit)***

Introduction to Costume Design - 937



This is a beginning course and workshop designed for students who are interested in learning the requirements, process and expectations for costume design. Using various techniques, students will develop designs and costumes through a process of character analysis, script analysis, research, budgeting and director's vision. Period research, design, and rendering skills will be fostered through practical exercises. Instruction will include: basic costume construction, including drafting and draping, how to use a straight stitch and serger machine. Other techniques offered will be dyeing, fabric selection, draping, flat pattern drafting, pattern manipulation, adaptation, fitting, and alteration.
Open to all students. (.5 Credit)

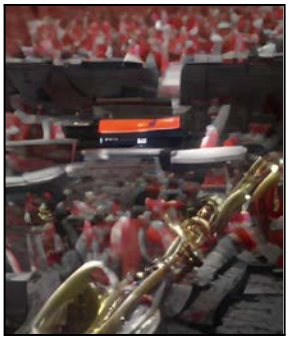
Festival Theatre Ensemble - 988



An honors level course which advances all theatre techniques learned in previous coursework (audition process/set design/acting/play production). Participants will take part in the MPA Drama Festival. Individual pieces will also be prepared for college auditions.
Students must audition for placement in this course. (.5 credit)

Music

Concert Band - 950



Students are expected to have a rudimentary reading ability of sheet music to join this class. Students enrolled in Concert Band will have an opportunity to explore music on their chosen wind, percussion, or string instrument and further develop music performance practices. Students will perform music in a variety of styles and settings ranging from serious wind ensemble literature at concerts, to popular music for home football and basketball games, to contemporary music written for cinematic collaboration. Performances are given in the community as well as outside of the community. Extended trips are planned once every four years to areas such as New York City or Virginia.
Open to all students. (1 Credit)

Concert Choir - 960



Open to all students. Students enrolled in Concert Choir will perform music from a wide range of styles. Concert Choir encourages students to develop confidence in their own singing voice in a positive and welcoming space. Repertoire will balance traditional choral music, contemporary choral literature, and musical theater favorites. Fundamental singing techniques will be covered, including: sight singing, pitch-matching, diction, projection, rhythm, musicality, and interval recognition. Performances are given in the community as well as outside of the community. Extended trips are planned once every four years to areas such as New York City or Virginia.
Open to all students. (1 Credit)

Instrumental Jazz Ensemble - 951



Students must audition for placement in this course. Students are encouraged to explore improvisation. Students will learn how to be multi-genre artists in this course, studying the principles of jazz, bebop, hip-hop, rock & roll, funk, and the blues. Along with class time there are practices scheduled once a week after school.
Students must be enrolled in Concert Band to be eligible for Instrumental Jazz. (1 credit)

Vocal Jazz Ensemble - 961



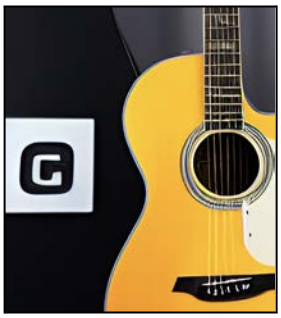
Students must audition for placement in this extra-curricular course. Students are encouraged to explore improvisation. Students will learn how to sing over chord changes and how to sing in the harmonic progressions and rhythmic structures of multiple different jazz genres. Students will participate in local jazz festivals and will tour once every four years to other states. This class takes place before or after school hours.
Students must be enrolled in Concert Choir to be eligible for Vocal Jazz. (1 credit)

Guitar I - 966



Open to all students. This course is designed to introduce beginning students to the guitar as well as develop growth for students that already have some experience with the guitar. By the end of this course, students will be able to read popular music, folk music, and lead sheets. Students will learn how to play melodies and chords and the basic principles of improvisation. Students will also study basic music theory and basic songwriting skills. Instruction is both group and individual. Students may sign up for successive semesters of this course; however, they must have approval from the instructor in order to sign up for the course after the first semester.
Open to all students. (.5 Credit)

Guitar II - 962



This class is for students that have experience playing guitar at a more advanced level. Beginning Guitar is a pre-requisite or meeting with the teacher individually to demonstrate a level and ability, including playing and recognizing chords, musical notation, and or tablature will suffice. Right hand strumming and fingerpicking technique will be assessed. We will use a variety of advanced guitar method books as well as tailoring your class experience based on particular interests with selections from the internet and dedicated guitar websites like Ultimate Guitar.
Prerequisite: Guitar I (.5 Credit)

Ukulele - 959



Ukulele is one of the world's most accessible instruments. You will instantly learn a few chords and be able to play thousands of songs! No prior musical experience is necessary, and through class you will have perfected a skill that you can use privately or in groups in just about every corner of the world. You will learn the history of the instrument, how and what to look for in purchasing ukuleles, and all the materials online that Ukulele players all over the world share for FREE that you can access. We will search for recordings or videos featuring the wide range of Ukulele repertoire and performers.
Open to all students. (.5 Credit)

Piano I - 953



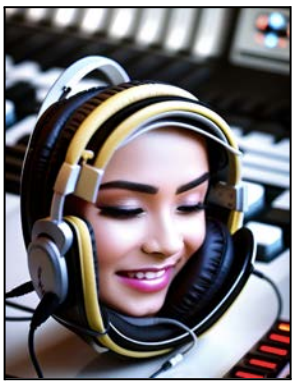
This one-semester course is designed to stimulate student growth in music through the understanding of keyboard technique, basic theory and efficient practice methods. Everyone is welcome – from those without previous experience with music or piano to those who have previous experience. Students will be playing and progressing using the Piano Marvel app, which gives instant feedback, scores and virtual trophies for each level. Students learn to read music, play with accompaniment, and perform in a class recital.
Open to all students. (.5 Credit)

Piano II - 949



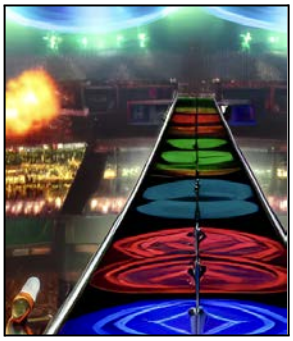
This one-semester course is designed to stimulate student growth in music through the progression of keyboard technique, intermediate theory, sight-reading challenges and efficient practice methods. This course is for those who have reached level 3 or beyond in Piano Marvel. Students will be learning additional pieces in their preferred style to include classical, popular and soundtracks and will perform twice in class recitals.
Prerequisite: Piano I or Demonstration of Level (.5 Credit)

Music Theory & Composition / Digital Music - 958



Music Theory and Composition is a hands-on Music class open to all students from beginner to expert level. Every student needs to bring their open mind, imagination and a desire to learn new and challenging things regarding musical composition and notational constructs. Music Theory and Composition takes you from a basic understanding of rhythm and sound patterns to the most complex usage of the Elements of Music: Rhythm, Dynamics, Melody, Harmony, Tone color, Texture, and Form. Both Sibelius notational software and Logic Pro digital music production will be utilized.
Open to all students. (.5 Credit)

Modern Band - 990



Modern Band like its counterparts of: Concert Band, Jazz Band, Pep Band, and Chorus is a fun and productive music class that focuses on group collaboration, individual expression and skill building in a safe and low anxiety environment. The difference is that Modern Band is accessible to all students as it requires no prior musical experience. Students will learn aurally, physically, and collaboratively by immediately participating in a "Music as a second language" approach.
Open to all students. (.5 Credit)

Ballet

Members of the Bossov Ballet Theatre, MCI's resident ballet company, teach ballet. The theatre is both a performing company and international ballet school. In addition to classes offered during the day for academic credit, students may train after school.

Bossov Ballet Theatre - 968



Students enrolled in ballet study, practice and perform classical ballet at a pre-professional level. Ballet students may earn 1 credit in physical education upon successful completion of 2 semesters of ballet.
Prerequisite: Audition with Bossov Ballet Theatre (2 Credits)

World Languages

World Language offerings are full year, one-credit college preparatory courses. The courses are designed, both in content and academic experience, to take students from total beginner to "independent user" or B1 level across four years of study. Successful world language students will acquire the language studied through active participation in games, language practices, reading authentic materials, real-world based communicative tasks in class, and building a strong vocabulary and grammar base through weekly homework. Also, students will learn about, reflect on, discuss and share information about the cultures and society of users of the language. A World Language credit is not required for graduation.

French I / CP - 511



French I students listen to, read, write and speak French through lessons built around the level I text (Nouvelle génération A1) and supplemental materials. Level I students work to build the knowledge base of vocabulary and grammar structures and the skills for communication at a basic level. Students should expect to practice the communication skills each day in class and to regularly demonstrate what they've learned through performances of those skills and knowledge base. These assessment performances are through listening, reading, speaking, writing, knowledge base and cultural connections. There are weekly assignments, and in some units students do unit projects, reports and/or presentations. Students wishing to advance to level II French must conclude the year with a 70 or higher or have permission from the teacher. **(1 credit)**
-NCAA Approved

French II / CP - 512



French II students increase their knowledge base of vocabulary and grammar and their listening, reading, writing and speaking skills through lessons built around the level II text (Nouvelle génération A1) and supplemental materials. Students should expect to practice the communication skills each day in class, to complete weekly assignments, and to regularly demonstrate what they've learned through performances of those skills and knowledge base. These assessment performances are through listening, reading, speaking, writing, knowledge base and cultural connections. In some units students do unit projects and/or presentations.
Prerequisite: 70 or higher in French I or permission from teacher (1 Credit)
-NCAA Approved

French III / CP - 513



This course seeks to improve and refine students' skills and knowledge learned in French 1 and 2 as students progress through the A2 level of language acquisition. Through daily practices in speaking, reading, writing and listening, students will be exposed to a higher degree of abstract concepts, vocabulary, and authentic materials presented in the target language. Through 90-100% target language instruction, interpretation of short films and short novels, role plays, simulated dialogues, cultural comparisons and essays, students will see themselves immersed in the language which will provide the necessary exposure to gain more confidence, more authentic production, and to take the Seal of Biliteracy exam. Students work from the Saison A2 text as well as a short novel that changes with each year. Students will be assessed through written exams, oral presentations, role plays, and daily participation.
Prerequisite: 70 or higher in French II or permission from teacher (1 Credit)
-NCAA Approved

French IV / CP - 514



This course seeks to improve and refine students' skills and knowledge learned in French 1, 2, and 3. Through daily practices in speaking, reading, writing and listening, students will be exposed to a higher degree of abstract concepts, vocabulary, and authentic materials presented in the target language. Through 95-100% target language instruction, interpretation of short films and short novels, analytical discussions, simulated dialogues, cultural comparisons and essays, students will see themselves immersed in the language which will provide the necessary exposure to take the Seal of Biliteracy exam, and to exclusively use the target language in class. Students work from the Saison A2, and DELF B1 texts, as well as a short novel that changes with each year. The course ends the year with a thematic focus on "The Other," in the purpose of developing student awareness of the globalized world and the growing need for empathy in the 21st century. Students will be assessed through written exams, oral presentations, role plays, and daily participation.
Prerequisite: 70 or higher in French III or permission from teacher (1 Credit)
-NCAA Approved

Italian I / CP - 540



Italian I students listen to, read, write and speak Italian through lessons built around A1 / Novice level materials. Level I students work to build the knowledge base of vocabulary and grammar structures and the skills for communication at a basic level. Students should expect to practice the communication skills each day in class and to regularly demonstrate what they've learned through performances of those skills and knowledge base. These assessment performances are through listening, reading, speaking, writing, knowledge base and cultural connections. There are nightly assignments, and in some units students do unit projects, reports and/or presentations. **Students wishing to advance to level II Italian must conclude the year with a 70 or higher or have permission from the teacher. (1 credit)**
-NCAA Approved

Italian II / CP - 541



Italian II students increase their knowledge base of vocabulary and grammar and their listening, reading, writing and speaking skills through lessons built around Novice High / intermediate-low / A1-2 level materials. Students should expect to practice the communication skills each day in class, to complete nightly assignments, and to regularly demonstrate what they've learned through performances of those skills and knowledge base. These assessment performances are through listening, reading, speaking, writing, knowledge base and cultural connections. In some units students do unit projects, reports and/or presentations.
Prerequisite: 70 or higher in Italian I or permission from teacher (1 Credit)

Italian III / CP - 542



This course seeks to improve and refine students' skills and knowledge learned in Italian 1 and 2 as students progress through the A2 level of language acquisition. Through daily practices in speaking, reading, writing and listening, students will be exposed to a higher degree of abstract concepts, vocabulary, and authentic materials presented in the target language. Through 90-100% target language instruction, interpretation of short films and short novels, role plays, simulated dialogues, cultural comparisons and essays, students will see themselves immersed in the language which will provide the necessary exposure to gain more confidence, more authentic production, and to take the Seal of Biliteracy exam. Students work from the Communicare in Italiano A2 text as well as a short novel that changes with each year. Students will be assessed through written exams, oral presentations, role plays, and daily participation.
Prerequisite: 70 or higher in French II or permission from teacher (1 Credit)

Spanish I / CP - 521



Level I Spanish focuses on building competency so that a student might successfully interact at a basic level to exchange information about individuals and interests. Our units of study are theme-based and include information, practice and performance of the communication skills each day in class, and information and practice to help students make cultural connections. There are nightly assignments. Assessment is in listening, reading, speaking, writing, knowledge base and cultural connections. In some units students do unit projects, reports and/or presentations. ***Students wishing to advance to level II Spanish must conclude the year with a 70 or higher or have permission from the teacher. (1 credit)***
-NCAA Approved

Spanish II / CP - 522



In level II Spanish, vocabulary is developed in theme-based units. Students develop an understanding of and the ability to use grammar, such as tenses and pronouns, that supports broader communication. Students should expect to practice the communication skills each day in class, to complete nightly assignments, and to regularly demonstrate what they've learned through performances of those skills and knowledge base. These assessment performances are through listening, reading, speaking, writing, knowledge base and cultural connections. In some units students do unit projects and/or presentations.
Prerequisite: 70 or higher in Spanish I or permission from teacher (1 Credit)
-NCAA Approved

Spanish III / CP - 523 or Spanish III DE - 535



In level III, vocabulary is developed in theme-based units; the history, geography, culture and people of Spain are the areas of study for the units in Spanish III. The grammar base is expanded to help students produce and comprehend more sophisticated communication. Students should expect to practice the communication skills each day in class, to complete nightly assignments, and to regularly demonstrate what they've learned through performances of those skills and knowledge base. These assessment performances are through listening, reading, speaking, writing, knowledge base and cultural connections. In some units students do unit projects and in others, reports and presentations.
Prerequisite: 70 or higher in Spanish II or permission from teacher (1 Credit)
-NCAA Approved

Spanish IV / CP - 524 or Spanish IV DE - 537

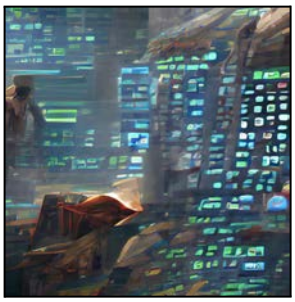


Level IV units are built around investigation and discussion of social issues, and of cultural themes. Emphasis is placed on stating and supporting opinions. In level IV students continue to build upon their knowledge base of vocabulary and more advanced grammar structures. Students should expect to practice the communication skills each day in class, to complete nightly assignments, and to regularly demonstrate what they've learned through performances of those skills and knowledge base. These assessment performances are through listening, reading, speaking, writing, knowledge base and cultural connections. In some units students do unit projects, and in others, reports and presentations.
Prerequisite: 70 or higher in Spanish III or permission from teacher (1 Credit)
-NCAA Approved

Additional Electives

Teaching Assistants
Teaching Assistants are assigned by department and according to need. Students who wish to become teaching assistants are expected to behave responsibly, and to be of good character. Honesty and integrity are crucial to such positions. Teacher recommendations are required.

Project Management - 616



Students will explore key concepts such as project initiation, planning, execution, monitoring, and closure. They will gain an understanding of project scope, time management, budgeting, risk assessment, and communication strategies. Through a combination of theoretical concepts and practical applications, students will develop essential skills in leadership, communication, problem-solving, and teamwork.
Prerequisites - 11th & 12th grade only (.5 credit)

Library Science - 628



The Library Science student will receive training and experience in all phases of research methodology and library operations, including work with the circulation system, instruction in the alphabetical and numerical cataloging system for print materials, working with peers to provide assistance with any of these areas and general clerical skills associated with front office business settings.
(.5 credit)

Dual Enrollment Courses

Dual enrollment courses are offered ***for juniors and seniors only*** *through the Maine Aspirations Program and Husson University ECAP. Students may enroll in up to 18 lifetime college credit hours.* ***Students interested in enrolling in dual enrollment college courses MUST meet with their academic advisor and apply prior to the start of each semester.*** *Enrollment is subject to available courses and seats, a minimum GPA requirement of 85, and schedule availability. Applications to and acceptance into each college's program are required.*

Aviation / DE



Students enrolled in Aviation will enroll in a course curriculum outlined by the University of Maine at Augusta. The course work is taken through UMA primarily asynchronously. Students earn MCI science or elective credit as well as UMA college credit. Students wishing to obtain their private pilot's license will be eligible to earn licensure following completion of these courses. Flight hours are obtained over the summer. ***Pre-requisites: Open to junior and senior students in CP level humanities and with a GPA of 3.0 or higher. Students must meet with their academic counselor for approval. Dual enrollment is free for Maine public education students and at a reduced rate for international and out of state students.***

AP4ME

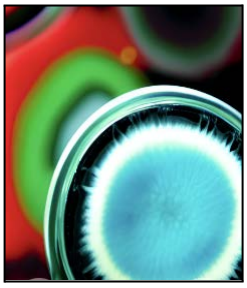
AP4ME offers Maine high school students throughout the state the opportunity to take Advanced Placement (AP) courses completely online, regardless of where they live or their school's ability to support AP courses. Should MCI not offer a particular AP Course, or if one does not fit into a students schedule, they will qualify for this offering.

Advanced Placement (AP®) Art History - 889



AP Art History is a college-level Art History course. Students will explore the history of art across the globe from prehistory to the present. In addition, they will also analyze works of art through observation, discussion, reading, and research. ***Prerequisites: There are no prerequisites for AP Art History. Students should be able to read a college-level textbook and write grammatically correct, complete sentences. (1 MCI credit)***

Advanced Placement (AP®) Biology (at MCI) - 415



AP Biology is an introductory college-level biology course. Students cultivate their understanding of biology through inquiry-based investigations as they explore topics like evolution, energetics, information storage and transfer, and system interaction. ***Prerequisites: Students should have successfully completed high school courses in biology and chemistry. (1 MCI credit)***

Advanced Placement (AP®) Computer Science A



AP Computer Science A is an introductory college-level computer science course. Students cultivate their understanding of coding through analyzing, writing, and testing code as they explore concepts like modularity, variables, and control structures. Recommended ***Prerequisites: High school courses in English and algebra, and familiarity with functions and the concepts found in the uses of function notation. (1 MCI credit)***

Advanced Placement (AP®) Calculus BC (at MCI)



AP Calculus BC is an introductory college-level calculus course. Students cultivate their understanding of differential and integral calculus through engaging with real-world problems represented graphically, numerically, analytically, and verbally and using definitions and theorems to build arguments and justify conclusions as they explore concepts like change, limits, and the analysis of functions. ***Prerequisites: All students should have successfully completed courses in which they studied algebra, geometry, trigonometry, analytic geometry, and elementary functions. In particular, they should understand the properties of linear, polynomial, rational, exponential, logarithmic, trigonometric, inverse trigonometric, and piecewise-defined functions, as well as sequences, series, and polar equations. They should know how to graph these functions and solve equations involving them. They should also be familiar with algebraic transformations, combinations, compositions, and inverses for general functions. (1 MCI credit)***

Advanced Placement (AP®) Environmental Science (at MCI)



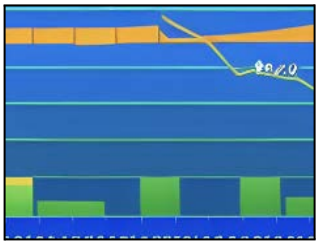
AP Environmental Science is an introductory college course in environmental science. Students will explore and investigate the interrelationships of the natural world and analyze environmental problems, both natural and human-made. In addition, they will also take part in laboratory investigations and field work. ***Prerequisites: Students should have taken two years of high school laboratory science, including life science and physical science, along with at least one year of algebra before enrolling in AP Environmental Science. (1 MCI credit)***

Advanced Placement (AP®) French Language & Culture



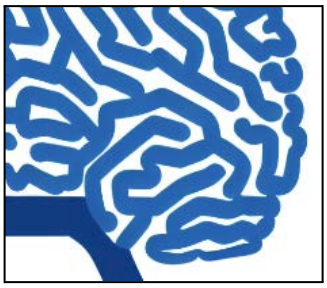
The AP French Language and Culture course is an intermediate-level college course designed to enhance proficiency in communication (speaking, listening, reading, writing) and deepen understanding of Francophone culture. Conducted almost entirely in French, it focuses on six thematic units, using authentic materials to prepare students for the May exam. ***(1 MCI credit)***

Advanced Placement (AP®) Macroeconomics



AP Macroeconomics is an introductory college course in macroeconomics. Students will explore the principles of economics that apply to an economic system. Students will utilize graphs, charts, and data to analyze, describe, and explain economic concepts. ***Prerequisites: There are no prerequisites for AP Macroeconomics. Students should be able to read a college-level textbook and write grammatically correct, complete sentences. (1 MCI credit)***

Advanced Placement (AP®) Psychology



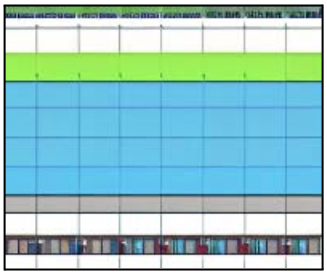
AP Psychology is an introductory college-level psychology course. Students cultivate their understanding of the systematic and scientific study of human behavior and mental processes through inquiry-based investigations as they explore concepts like the biological bases of behavior, sensation and perception, learning and cognition, motivation, developmental psychology, testing and individual differences, treatment of abnormal behavior, and social psychology. ***Prerequisites: There are no prerequisites for AP Psychology. Students should be able to read a college-level textbook and write grammatically correct, complete sentences. (1 MCI credit)***

Advanced Placement (AP®) Spanish Language & Culture



AP Spanish Language and Culture is an intermediate level (typically third or fourth semester) college course in Spanish language. ***Prerequisites: There are no prerequisites, but students are typically in their fourth year of high-school-level study. In the case of native or heritage speakers, there may be a different pathway of study leading to this course. (1 MCI credit)***

Advanced Placement (AP®) Statistics (at MCI)



AP Statistics is an introductory college-level statistics course. Students cultivate their understanding of statistics using probability and simulation to describe probability distributions and define uncertainty in statistical inference. Students will also learn how to collect and analyze data using statistical reasoning to draw appropriate conclusions and justify claims. ***(1 MCI credit)***

Advanced Placement (AP®) US Government & Politics (at MCI)



AP U.S. Government and Politics is an introductory college-level course in U.S. government and politics. Students cultivate their understanding of U.S. government and politics through analysis of data and text- based sources as they explore topics like constitutionalism, liberty and order, civic participation in a representative democracy, competing policy-making interests, and methods of political analysis. ***Prerequisites: There are no prerequisite courses for AP United States Government and Politics. Students should be able to read a college level textbook and write grammatically correct, complete sentences. (1 MCI credit)***

Advanced Placement (AP®) World History



AP World History is an introductory college course in modern world history. Students will Study the cultural, economic, political, and social developments that have shaped the world from c. 1200 Common Era (CE) to the present. Students will also analyze texts, visual sources, and other historical evidence and write essays expressing historical arguments. ***Prerequisites: There are no prerequisites for AP World History. Students should be able to read a college-level textbook and write grammatically correct, complete sentences. (1 MCI credit)***

Somerset Career and Technology Center (SCTC)

Courses at the Center are available to juniors, seniors, and some eligible sophomores from Somerset County school districts. Students must complete an application for the program and attend an interview with the program instructor.

Advanced Cabinetry & Millwork - 760



This hands-on program prepares students for careers in fine woodworking, cabinetry, furniture making, and architectural millwork. Students gain skills in planning, designing, and building projects using both traditional tools and modern equipment. The curriculum emphasizes project planning, blueprint reading, material selection, precise measuring, assembly, and finishing techniques. Community partnerships further enhance learning with valuable real-world experience.

Automotive Technology I - 720 / II - 730



This ASE (Automotive Service Excellence) certified program is designed to teach students how to repair and service gasoline and diesel-powered cars and light duty trucks. First year Auto Technology students are taught general repair work in a safe manner. From there, they will learn vehicle service, engine cooling, brakes, suspension, steering, and front-end alignment. Second year students move on to the electrical aspects of the automobile, such as the Starting and Charging System, Computerized Engine Control, Anti-lock Brakes and Air Bag Systems, Ignition, Fuel Delivery, Suspension, and Drivetrain. Seniors are able to be ASE Certified, Snap-on Multimeter Certified, and obtain their Maine Motor Vehicle Inspection License after graduating.

Business Academy - 750



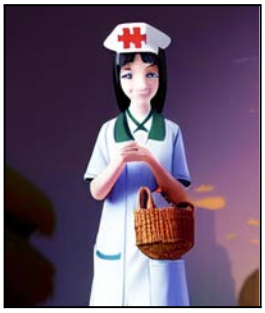
The Business Academy is designed to help students develop a solid understanding of key business concepts and equip students with essential business skills, knowledge and the mindset necessary to thrive in today's dynamic business world.
Whether students have plans of starting their own business, working in marketing, or managing finances, the business academy will give them the tools they will need to succeed. With the courses offered students will have the opportunity to explore various areas of business, including entrepreneurship, finance, marketing, management, economics, and computer applications. Our hands-on projects will allow students to apply what they learn to real-world scenarios, from developing a business plan to conducting market research. This program will set students up with a solid foundation to become skilled business professionals and future leaders to excel in high-demand business career fields.

Career Exploration - 197



The Career Exploration Program gives students a unique opportunity to discover several career pathways. Career Exploratory offers hands-on learning in Automotive Technology, Welding, Pre-Engineering, Electrical and Woodworking. These are semester-based courses.

Certified Nursing Assistant - 728



Students in this program gain knowledge in multiple health care careers through job shadows, community service projects, and clinical experiences. Students learn CPR, first aid, basic anatomy and physiology, and study the concepts of health promotion and disease prevention. SCTC's CNA program uses the State of Maine Nursing Assistant Curriculum which is approved by the Maine State Board of Nursing. Students also have the opportunity to earn up to three college credits from KVCC with completion of the program.

Commercial Truck Driving - 711



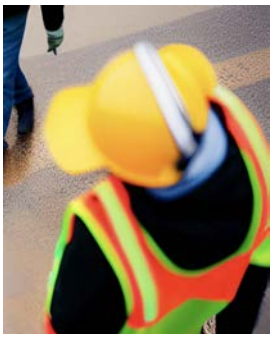
This program qualifies students to test for the State of Maine CDL Class A Commercial Driver's Permit and License. Instruction is based on state laws, industry regulations, and equipment inspection required for licensing. According to Federal Motor Carrier law, students in the Commercial Truck Driving program must hold a current Class C automobile driver's license. Students must be 16 years of age to enter the program and must have a clean driver's record.

Computer Science - 748



The Computer Science program is designed to make learning fun, interactive, and hands-on. You'll not only master the technical skills, but also get to build cool projects, work with cutting-edge technologies, and explore your creative side while programming, designing, and problem-solving!

Cooperative Education - 741



The Cooperative Education Program provides an opportunity for students to participate in an occupational training program for which facilities and courses are not otherwise available at SCTC. This program is designed for the student to spend part of the day at their sending school and part of the day "on the job." Students attend class with their instructor where job seeking, workplace skills, and personal finance is taught. An arrangement between the school, employer, student, and parents will then be created. The goal is to find training stations that will meet the varying needs and interests and provide appropriate employment for the student.

Cosmetology - 770



This one-year program allows students interested in the field of Cosmetology to begin their training while in high school. Beginning with basic theory and advancing to practical skills, students will explore hair sculpting, color and perm design, as well as basic nail and skin applications. Students can earn approximately 300 hours of the 1500 hours required for a Maine Cosmetology license while enrolled with the hours being transferable to many post-secondary Cosmetology schools.

Culinary I - 724 / II - 734



The Culinary Arts program prepares students for a future in the food service industry. Students learn entry-level culinary skills as well as cooking and baking techniques. Students will learn by working in a professional kitchen environment at the high school. First year students focus on: Sanitation and Personal Hygiene; Kitchen Safety; Knife Skills; Standardizing Recipes; Basic Butchery; Mother Sauces; Proper Food Storage; Basic Cooking Methods; Working As A Team. Second year students focus on: Secondary Sauces; Advanced Butchery; Cost and Portion Control; Advanced Baking and Cooking Methods; International and Regional Cuisine. Second year students also have the opportunity to earn their ServSafe Manager certification.

Digital Graphics I - 708 / II - 727



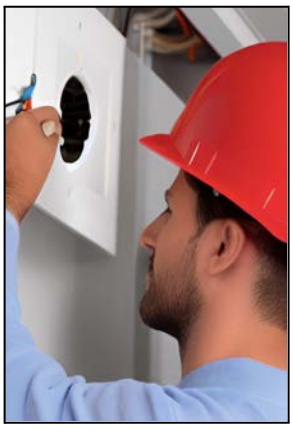
Students in the Digital Graphics Program learn design concepts related to Graphic Design, Digital Photography, and Marketing. Students use professional software and equipment to design and produce a variety of projects including promotional displays, brochures, logos, signage, note pads, decals and custom clothing. In the second year, Digital Graphics students operate an in-house print shop, “DG Print Shop & Design Center.” By aligning “live jobs” for a variety of clients, students are not only able to apply and develop the skills they’ve acquired in the previous year of class, but gain skills in professionalism through real world experience.

Early Childhood Education I - 738 / II - 739



The Early Childhood Education Program is a two year course for students who are interested in working with young children. Students learn about child development and theory, psychology, curriculum development, child guidance and professionalism. Early Childhood students have the opportunity to earn 6-9 college credits; receive the State of Maine Early Childhood Assistant certification; enroll in the Maine Roads to Quality registry and the ECE career lattice; job shadow; become CPR/First Aid certified; train in various settings, including: Infant/toddler classrooms; Family child care centers; Child care facilities; Preschool; K-8 Elementary classrooms; Special education programs.

Electrical Construction I - 723 / II - 733



This course provides students with the knowledge and background that prepares them for a career in the electrical field. Students learn electrical safety, tools of the trade, wiring, conduit parts, and assembly. In the first year of this two-year program, students learn the basics of the National Electrical Code and the theory of electricity. Students work in the shop applying the six common wiring methods using industry required tools. During the second year, students continue to advance their studies of the National Electrical Code as well as learning to read blueprints. The students work outside of the shop on practical “live work” projects including, Service Entrance Equipment, Motor Starters, Motor Controls, Electric Heat, Solar Energy, and Programmable Logic Controllers (PLC’s). Seniors have the opportunity to receive a certification through the National Association of Home Builders.

Emergency Medical Technician - 740



The EMT course is an introduction to patient assessment skills. Upon successful completion of the course, students will earn 5 credits from KVCC for EMS 111 and be prepared to sit for the EMS Basic Certification Exam. Content includes: Management of airway and respiratory problems; Cardiopulmonary resuscitation; Techniques of oxygen therapy; Bleeding control and treatment for shock; Soft tissue injuries and fracture care; Principles of spinal immobilization; Fundamentals of triage and transportation of the sick and injured; Treatment modalities for a range of medical, obstetrical, pediatric, environmental and behavioral emergencies.

Firefighting - 735



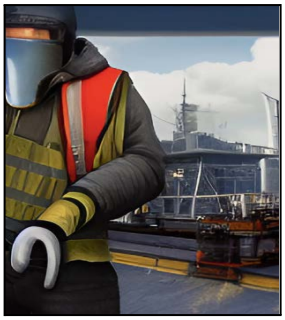
Tailored for those who dream of a career in fire service or wish to support their local volunteer fire departments, this program equips you with the essential knowledge, skills, and abilities needed to excel. Through in-class lectures, hands-on drills and real-world scenarios, this professional firefighter training program instills safety and teamwork front and center. Successful completion of this program allows students to sit for the Maine Firefighter I/II Written Certification Exam.

Outdoor Leadership I - 722 / II - 732



Prepare for a career that keeps you connected to nature and opens up a world of possibilities, right? This experiential course is designed to inspire students to become confident leaders in outdoor environments. The program is crafted to provide students with a comprehensive understanding of outdoor pursuits, leadership principles, and the skills necessary to lead groups in various outdoor activities. Whether students aspire to become Maine Guides, game wardens, outdoor educators, or pursue further education in environmental science, this course provides a solid foundation in outdoor leadership and adventure education. Students will gain the confidence, skills, and passion to lead and inspire others in the outdoors while fostering a deep appreciation for nature and responsible outdoor recreation.

Pre-Engineering - 705



This class exposes students to a variety of engineering fields, such as: AP Computer Science Principles (Coding); Structures; 3D Design; Robotics. With numerous hands-on projects, students learn how to apply the engineering design process. Some of the activities include the design and build of: Cardboard boats; Concrete canoe; Balsa wood bridges / truss; VEX robots to compete in challenges; Scale model wind turbine blades; Various projects using Solidworks and 3D printers; Coding using HTML, CSS and Javascript.

Residential Construction I - 721 / II - 731



The Residential Construction Program is a two-year program that concentrates on the residential carpentry trade. Students learn to work cooperatively in groups to complete projects. They learn organizational and leadership skills that help them to be successful in the workplace. Throughout both years of the program, there is a strong focus on employability skills. In the first year, students receive instruction in the following units: Hand & Power Tools; Building Materials and Fasteners; Floor & Wall Framing; Roof Framing. During the second year, students receive instruction in: Construction Drawings; Energy Efficiency; Basic Stair Construction; Wall Systems; Career Opportunities; Practical Application of Skills.

Welding - 737



The Welding Program is held at the Cianbro Training Facility in Pittsfield. Students learn the importance of workplace safety as they train next to Cianbro employees to become certified as a welder. The National Center of Construction Education and Research (NCCER) provides the curriculum students follow as they learn different types of welding techniques and positions. Students progress at their own pace which allows everyone the chance to become proficient before progressing. The Welding Program can be either a one or two year program depending on a student's interests and ambitions. Students can earn the OSHA 10 Safety Certification, Cianbro Welding Certifications and NCCER credentials.

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