

CHRISTA MCAULIFFE
**SCHOOL OF
ARTS AND SCIENCES**
TOUCH THE FUTURE >>>



**HIGH SCHOOL
COURSE CATALOG**

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CMASAS serves students worldwide through a unique personalized approach to education.

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Personalized Education Philosophy

- Education's purpose is to empower students to find their own paths to their own dreams; to create life-long learners who are prepared for both the modern world and the future; and to empower individuals to make a positive impact in the world.
- To this end, a personalized education program is student-centered; a student's educational program is tailored to the student's learning styles, interests, current skill levels, and personal goals.
- Learning is competency-and mastery-based, allowing for extra time and assistance to master concepts a student finds difficult, while also allowing the student to move quickly through previously-mastered material, and eliminating arbitrary limitations on student progress.
- However, as Dewey notes in *Democracy and Education*, "not the target but hitting the target is the end in view," so more important than learning specific concepts is learning how to learn, and gaining competencies that will aid in the hitting of many targets, both current and those yet to be imagined.
- Therefore, education must be forward-leaning, recognizing that the "real world" for which students are being prepared is dynamic, with exponential changes especially in technology.
- To adequately prepare students for a future that is difficult to even imagine, a personalized education program places the greatest value on creativity and the ability to engage in independent, critical thinking.
- Students are guided to become self-cognizant, life-long learners prepared not just for today's world but equipped to continue learning for whatever the future holds.
- As such, a personalized education program is student-driven; students take an active role in their education, from the development of their education plans to collaboration with course instructors.
- Instead of taking authoritative roles or seen as the sole purveyors of knowledge, instructors are instead mentors, offering guidance and feedback while respecting the diverse needs and goals of each student.
- Students also learn to identify and understand cause-and-effect relationships, recognizing connections that span and go beyond content areas, and engage in proactive behaviors leading to personal development and engagement in the service of their community and beyond.

Academic Integrity Policy

SAS will not tolerate cheating, plagiarism, or facilitating academic dishonesty and serious consequences will result from such behaviors including receiving an “F” for the assignment in question or for the course. Repeated violations may result in expulsion from the school.

I. PHILOSOPHY

Academic integrity is founded upon and encompasses the following five values: honesty, trust, fairness, respect, and responsibility. Supporting and affirming these values is essential to promoting and maintaining a high level of academic integrity. Each member of the academic community must stand accountable for his or her actions. As a result, a community develops in which students learn the responsibilities of citizenship and how to contribute honorably to their professions.

If knowledge is to be gained and properly evaluated, it must be pursued under conditions free from dishonesty. Deceit and misrepresentations are incompatible with the fundamental activity of this academic institution and shall not be tolerated. Members of the SAS community are expected to foster in their own work the spirit of academic honesty and not to tolerate its abuse by others.

First responsibility for academic integrity lies with individual students and faculty members of this community. A violation of academic integrity is an act harmful to all other students, faculty and, ultimately, the school.

Students are expected to practice responsible and honest behavior. Acts of academic dishonesty will not be tolerated at SAS and are listed below:

- Cheating on tests, homework, or grading of assignments
- Fabrication (any intentional falsification or invention of date, citation, or other authority in an academic exercise)
- Unauthorized collaboration
- Plagiarism (stealing and passing off as one’s own the words or ideas of another)
- Theft or alteration of materials

Violation of this policy will result in:

First Offense: The student will lose all credit for the assignment and/or test with no makeup permitted. If the assignment is a standard in the course, the standard must still be completed to the appropriate performance level. Parents will be contacted and violation may result in loss of school privileges.

Second Offense: The second offense of academic dishonesty in any course, in any year, will result in the student being dropped from that course with a grade of “F” and no credit will be given. Parents will be contacted and there will be a loss of school privileges.

Third Offense: The third offense of academic dishonesty in any course, in any year, will result in a grade of “F” for that course and dismissal from SAS.

Course Offerings: At a Glance

English/Language Arts

ENG11110 English I A/B
ENG11210 English II A/B
ENG11310 English III A/B
ENG11410 English IV A/B
ENG11113 Expository Composition
ENG11114 Creative Writing: Introduction to Fiction
ENG11115 Elements of Grammar
ENG11213 World Literature
ENG11214 Art of Argument
ENG11215 Responding to Literature
ENG11313 American Literature
ENG11314 Speech, Introduction to
ENG11413 British Literature
ENG11421 Lord of the Rings
ENG11511 Cinema as Literature
ENG11512 Exploring Myths & Legends
ENG11513 Journalism, Introduction to
ENG11611 Shakespeare: The Comedies
ENG11612 Shakespeare: The Tragedies
ENG11613 Survey of Poetry
ENG11614 Gothic Literature
ENG11615 Public Speaking
ENG11911 Special Topics in Language Arts
ENG11912 Special Topics in Literature
ENG11913 Special Topics in Writing
ENG11914 Special Topics in Communications

Mathematics

MATH12010 General Math A/B
MATH12040 Pre-Algebra A/B
MATH12100 Algebra A/B
MATH12103 Algebra C/D
MATH12110 Algebra I A/B
MATH12120 Integrated Math I A/B
MATH12210 Geometry A/B
MATH12220 Integrated Math II A/B
MATH12310 Algebra II A/B
MATH12410 Pre-Calculus/ Trigonometry A/B
MATH12610 Calculus A/B
MATH12910 Special Topics in Mathematics

Social Studies

SOC13010 World Geography A/B
SOC13013 Human Geography
SOC13141 Current World Issues & Politics
SOC13210 World History A/B
SOC13310 U.S. History A/B
SOC13313 Civics
SOC13411 U.S. Government
SOC13412 Principles of Economics
SOC13413 Survey of Religions
SOC13421 African-American History
SOC13431 Intro to Women's Studies
SOC13440 Anthropology I/II
SOC13511 Archaeology
SOC13512 Great Minds in Science
SOC13513 Classical Philosophy, Introduction to
SOC13514 Psychology, Introduction to
SOC13610 Social Problems I/II
SOC13614 World Religions
SOC13710 Sociology I/II
SOC13713 Criminology
SOC13714 History of the Holocaust
SOC13940 Special Topics in Social Sciences
SOC13950 Special Topics in History
SOC13960 Special Topics in Religion & Philosophy

Science

SCI14110 Earth Science A/B
SCI14120 Physical Science A/B
SCI14210 Biology A/B
SCI14221 Biotechnology
SCI14222 Renewable Technologies
SCI14310 Chemistry A/B
SCI14410 Physics A/B
SCI14510 Forensic Science A/B
SCI14610 Astronomy A/B
SCI14621 Marine Science
SCI14811 Veterinary Science
SCI14910 Special Topics in Science

World Languages

WLNG15010 ASL I
WLNG15020 ASL II
WLNG15110 Chinese I
WLNG15120 Chinese II
WLNG15130 Chinese III
WLNG15210 French I
WLNG15220 French II
WLNG15230 French III
WLNG15240 French IV
WLG15250 French V
WLNG15310 German I
WLNG15320 German II
WLNG15330 German III
WLNG15340 German IV
WLNG15410 Greek I
WLNG15420 Greek II
WLNG15430 Greek III
WLNG15510 Italian I
WLNG15520 Italian II
WLNG15530 Italian III
WLNG15540 Italian IV
WLNG15610 Japanese I
WLNG15620 Japanese II
WLNG15630 Japanese III
WLNG15710 Latin I
WLNG15720 Latin II
WLNG15810 Russian I
WLNG15820 Russian II
WLNG15830 Russian III
WLNG15910 Spanish I
WLNG15920 Spanish II
WLNG15930 Spanish III
WLNG15940 Spanish IV
WLNG15950 Spanish V

Visual & Performing Arts

VAPA16013 Art in World Culture
VAPA16111 Drawing, Beginning
VAPA16112 Drawing, Intermediate
VAPA16113 Drawing, Advanced
VAPA16210 Dance A/B
VAPA16311 Design, Beginning
VAPA16312 Design, Intermediate
VAPA16313 Design, Advanced
VAPA16320 Musical Performance I A/B
VAPA16330 Musical Performance II A/B
VAPA16411 Digital Photography, Beginning
VAPA16412 Digital Photography, Intermediate
VAPA16413 Digital Photography, Advanced
VAPA16441 Digital Publishing, Beginning
VAPA16640 Theatrical Performance A/B
VAPA16710 Studio Arts A/B
VAPA16721 Painting, Beginning
VAPA16723 Painting, Intermediate
VAPA16725 Painting, Advanced
VAPA16910 Special Topics in Fine Arts
VAPA16920 Special Topics in Performing Arts
VAPA16930 Special Topics in Visual Arts

Health/Physical Education

HPE17110 Physical Education I A/B
HPE17210 Physical Education II A/B
HPE17311 Health
HPE17312 Holistic Health
HPE17313 Health Science
HPE17314 Nutrition & Wellness
HPE17410 PE: Individual and Dual Activities A/B
HPE17510 PE: Adventure & Outdoor Act. A/B
HPE17610 PE: Aerobic Activities A/B
HPE17710 PE: Aquatic Activities A/B
HPE17810 PE through Dance A/B
HPE17840 Weight Training & Fitness A/B
HPE17911 Special Topics in Health
HPE17913 Special Topics in Physical Education

Career Technical Education

CTE18111 Agriscience, Introduction to
CTE18112 Applied Leadership A/B
CTE18121 Agriscience II
CTE18131 Principles of Agriculture
CTE18221 Engineering & Technology
CTE18641 Careers in Criminal Justice
CTE18211 Career Planning
CTE18212 Childhood Development
CTE18210 Computer Fundamentals
CTE18213 Cosmetology
CTE18311 Culinary Arts
CTE18541 Digital Video Production
CTE18312 Early Childhood Education
CTE18313 Entrepreneurship
CTE18410 Fashion Design A/B
CTE18413 Fashion & Interior Design
CTE18421 Game Design I
CTE18511 Hospitality & Tourism
CTE18512 International Business
CTE18610 Keyboarding A/B
CTE18640 Legal Studies, Introduction to
CTE18711 Peer Counseling
CTE18420 Personal Finance
CTE18712 Real World Parenting
CTE18815 Social Media, Introduction to
CTE18814 Sports & Entertainment Marketing
CTE18813 Theater, Cinema, & Film Production
CTE18810 Web Design
CTE18910 Special Topics in Technology
CTE18920 Special Topics in Occupational Education

Advanced Placement

ENG11330 AP Language and Composition A/B
ENG11430 AP Literature and Composition A/B
MATH12430 AP Calculus A/B
MATH12433 AP Calculus C/D
MATH12440 AP Statistics A/B
SCI14553 AP Environmental Science A/B
SOC13553 AP World History A/B
SOC13554 AP Psychology
SOC13555 AP Macroeconomics
SOC13556 AP US Government & Politics
WLNG15991 AP French A/B
WLNG15992 AP Spanish A/B

Honors

See the "Honors" section of the catalog to learn about the Honorable Honors program and for the current list of courses eligible for honors designation.

Special Topics

Special Topics courses are student-created courses that can be completed for elective credit. This allows students to explore subject areas beyond the current catalog offerings. See the Special Topics section of the catalog to learn more.

CTE18610 Special Topics in Technology
CTE18620 Special Topics in Career Education
ENG11630 Special Topics in Writing
ENG12610 Special Topics in Language Arts
ENG12620 Special Topics in Literature
ENG12630 Special Topics in Communications
HPE17610 Special Topics in Health
MATH12610 Special Topics in Mathematics
SCI14610 Special Topics in Science
SOC13610 Special Topics in Social Sciences
SOC13620 Special Topics in History
VAPA16910 Special Topics in Fine Arts
VAPA16920 Special Topics in Performing Arts
VAPA16930 Special Topics in Visual Arts

Curriculum Options

The majority of courses offered through CMASAS are designed by Personalized Education Group, Inc. using a variety of resources and curricula. We do not subscribe to a single publisher but instead gather from multiple sources, and we are continuously looking for new resources to add to our library.

Each course listing will display the main curriculum source/s. Some courses have multiple options and students can choose which version of the course they would like to take based on their enrollment level.

Curriculum Source	Description
Personalized Education Group (PEG)	PEG curriculum is created by highly qualified curriculum designers. This curriculum was designed with the personalized education model as its foundation and is presented through the Learning Management System (LMS). A variety of resources are used to enhance student engagement and learning. PEG courses provide a variety of assessment types from project based to multiple choice quizzes that promote knowledge-building and critical thinking skills.
Compass Learning Odyssey (CLO)	CLO courses are presented through the LMS and provide students with a more structured approach to learning. CLO courses are presented through a video presentation and then students are given a multiple choice question quiz/test and some short-essay style writing assignments.
Rosetta Stone (RS)	Rosetta Stone is an immersion based language learning program. Students use images and audio to learn the language. There are no traditional lessons on grammar or verb conjugations. Activities include a core lesson, pronunciation, vocabulary, grammar, listening, and others. Each activity follows the same format with students matching what they hear to images. Students will also use the voice recognition program to analyze their oral abilities. All Rosetta Stone activities are done outside of the LMS but the courses are supplemented through the LMS with culture projects and current events assignments. See the World Language Section for a list of languages offered.
Middlebury	Middlebury offers a more traditional format to language learning that includes lessons in verb conjugations, grammar, vocabulary, and pronunciation. All content is presented through the LMS. There is a variety of activities that include audio and recording features for oral and listening assessments. See the World Language Section for a list of languages offered.
eDynamics	eDynamic courses are presented through text, video, and interactive. A variety of assessment types. These courses are mostly electives and on unique topics such as Gothic Literature or Veterinary Science.
Get Fueled Education	Get Fueled provides our AP courses. Content is presented through text and assessments include quizzes and writing prompts.
Signing Online	Signing Online is our ASL program that presents content through videos teaching students the signs and then assesses students through multiple choice quizzes.

English/Language Arts

Four credits of English/Language Arts are required for students to graduate from CMASAS. Students have a choice in how they meet these requirements. One option is to take the English I, II, III, and IV sequence. However, another option is to take a more a la carte approach, piecing together a language arts program that still covers all of the recommended competencies in a comprehensive language arts program.

Language Arts Competency Areas	Classes Covering Each Competency Area
Expository Writing	Elements of Grammar Expository Composition Art of Argument
Workplace Writing	Journalism
Literary Elements	Responding to Literature Cinema as Literature Creative Writing: Introduction to Fiction
Literature	World Literature American Literature British Literature Cinema as Literature Shakespeare Survey of Poetry Explorations in Myths & Legends
Speaking & Listening	Introduction to Speech Public Speaking

Possible Sequence

- Expository Composition
- Responding to Literature
- World Literature
- Art of Argument
- American Literature
- Introduction to Speech
- British Literature

Mirrors the concepts typically covered in the English I, II, III, IV sequence.



Most colleges are looking for evidence that you have read a variety of literature. It is best to include American Literature and two other areas of literature with at least one being from outside the U.S. such as World Literature, British Literature, and Shakespeare. Review your intended college's entrance requirements.

American Literature

Students read and respond to historically or culturally significant works of American literature that reflect and enhance their studies of history and social science. They conduct in-depth analyses of recurrent patterns and themes, structural features, and narrative literary elements and devices. Students produce writing and projects in response to literature, including biographical/ autobiographical, creative, persuasive, literary analysis, technical, and research.

Prerequisites: English I; Responding to Literature or Creative Writing; Introduction to Fiction recommended.

Duration: 1 semester PEG

ENG 11313 American Literature NCAA

Art of Argument

Students learn the art of persuasive writing, backed by careful research, and presented in an effective manner that is free of logical fallacies. They distinguish persuasive writing from other types of compositions, and learn how to apply persuasive writing and common textual features. They apply understanding of the effects of audience and purpose on persuasive writing. Students also evaluate persuasive writing and speaking for reputability, logic, and presentation.

Prerequisites: English I.

Duration: 1 semester PEG

ENG11214 Art of Argument NCAA



Billions of people have seen and been influenced by movies in the short history of this industry. ~ Conrad Hall

British Literature

Students read and respond to historically or culturally significant works of British literature that reflect and enhance their studies of history and social science. They conduct in-depth analyses of recurrent patterns and themes, structural features, and narrative literary elements and devices. Students produce writing and projects in response to literature, including biographical/ autobiographical, creative, persuasive, literary analysis, technical, and research.

Prerequisites: English I; Responding to Literature or Creative Writing; Introduction to Fiction recommended.

Duration: 1 semester PEG

ENG11413 British Literature NCAA

Cinema as Literature

Students learn literary elements and visual and performing arts concepts through viewing, analyzing, and responding to various works in film. Selections range from classic to contemporary movies. Students also become very savvy to media techniques utilized in advertising and broadcasting. Characterization; setting; costuming; imagery; use of color; camera angles, movements, and framing; sound, including music; transitions; characters; acting styles; stage versus screen; dialogue; ideology and social-cultural considerations; and additional artistic and literary devices are covered. Students learn how to identify elements, analyze their effect, and provide written responses that incorporate the various elements. Students write several shorter responses throughout the course and complete a longer synthesis paper at the end that provides an analysis of a single film for all the elements covered throughout the lessons.

Prerequisites: None; Expository Composition recommended.

Duration: 1 semester PEG

ENG11511 Cinema as Literature

Creative Writing: Intro to Fiction

In this class students apply the writing process to creative fiction writing. Prepare to investigate, evaluate and demonstrate your understanding of key elements of fiction including plot, theme, character development, dialogue, setting, tone, sensory language, and author's purpose. Introduction to Fiction culminates with the development of a story outline that can later be transformed into a full-length story or novel. Note: credit not granted for both Introduction to Fiction and Writing Across Genres.

Prerequisites: None.

Duration: 1 semester PEG

ENG11114	Creative Writing: Intro to Fiction	NCAA
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Elements of Grammar

Students learn and practice the basic foundations of grammar, including covering the most commonly made mistakes made by student writers. A specific sequence is used to provide students with the foundations necessary to learn the next set of skills. Lesson topics include verbs, subjects, clauses, phrases, subordinators, fragments, run-ons, subject-verb agreement, pronoun reference and agreement, capitalization, and punctuation including commas, semicolons, apostrophes, and quotation marks.

Prerequisites: None.

Duration: 1 semester PEG

ENG11115	Elements of Grammar	
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English I

English I is an introductory course covering a variety of literature genres, spanning classic and modern works. Students develop composition skills using a variety of patterns of development. Vocabulary development, literary response and analysis, grammar, and listening and speaking skills are also learned and practiced. English I provides a foundation of knowledge and skills for future English courses, for reading and writing across the curriculum, in the workplace, and in daily life.

Prerequisites: None.

Duration: 2 semesters PEG or CLO

ENG11111	English I A	NCAA
ENG11112	English I B	NCAA

English II

English II has an emphasis in World literature spanning ancient to modern times, and includes the regions of Asia, Africa, Europe, and the Americas. Students continue to practice composition, including literary analysis and persuasive writing, as well as engaging in creative writing activities. Vocabulary development, literary response and analysis, grammar, and listening and speaking skills are also learned and practiced.

Prerequisites: English I.

Duration: 2 semesters PEG or CLO

ENG11211	English II A	NCAA
ENG11212	English II B	NCAA



English III

Students focus on American literature, spanning ancient Americas to modern times. Students build composition skills, including literary analysis, persuasive writing, creative writing, and technical writing. Vocabulary development, literary response and analysis, grammar, and listening and speaking skills are also learned and practiced.

Prerequisites: English II; or Expository Composition combined with Responding to Literature or Creative Writing; Introduction to Fiction; or equivalent skills.

Duration: 2 semesters PEG or CLO

ENG11311	English III A	NCAA
ENG11312	English III B	NCAA

English IV

English IV continues to build writing skills, with a greater emphasis in technical writing. British Literature is emphasized, and students read a variety of forms in both fiction and nonfiction. Vocabulary development, literary response and analysis, grammar, and listening and speaking skills are also learned and practiced.

Prerequisites: English III; or Expository Composition combined with Responding to Literature or Creative Writing; Introduction to Fiction; or equivalent skills.

Duration: 2 semesters PEG or CLO

ENG11411	English IV A	NCAA
ENG11412	English IV B	NCAA



*"Lord, what fools these mortals be!"
~ Puck, from Midsummer Night's Dream*

Exploring Myths & Legends

Students review the common mythologies of the world, as well as review more recent versions of these same stories. Exploring myths and legends throughout the world, students learn about the similarities that span time and culture in storytelling. At the end of the course, the students pull together their knowledge of the three areas mentioned above and use that to create their own myth or mythology.

Prerequisites: English I or equivalent skills; junior or senior standing recommended.

Duration: 1 semester PEG

ENG11512	Exploring Myths & Legends	NCAA
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Expository Composition

Provides essential skills for future English courses as well as for writing across the curriculum and in the workplace. Patterns of development include division/classification, compare/contrast, and persuasive, along with a selection of other types such as cause & effect, definition, and exemplification. Students learn the basics of expository composition, with a strong emphasis on using the writing process to create well-structured essays. Students write outlines and matching essays with clear thesis statements and topic sentence agreement, and they develop their ideas through relevant details. They also learn basic research and documentation skills, and the persuasive essay includes a bibliography and inline citations. Students also build vocabulary, including through word roots, and learn how word selection can impact writing (i.e. connotation, denotation, and figurative language). Grammar is integrated into the instruction and is based on individual needs as is evidenced in the student's writing.

Prerequisites: None; Elements of Grammar recommended.

Duration: 1 semester PEG

ENG11113	Expository Composition	NCAA
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Gothic Literature

From vampires to ghosts, these frightening stories have influenced fiction writers since the 18th century. This course will focus on the major themes found in Gothic literature and demonstrate how the core writing drivers produce, for the reader, a thrilling psychological environment. Terror versus horror, the influence of the supernatural, and descriptions of the difference between good and evil are just a few of the themes presented. By the time students have completed this course, they will have gained an understanding of and an appreciation for the complex nature of dark fiction.

Prerequisites: None.

Duration: 1 semester eDynamic

ENG11614 Gothic Literature

Introduction to Journalism

Journalism is storytelling with a purpose. In this course, students will explore key moments in the history of American journalism (including yellow journalism and muckraking) and will examine the following questions: What is the news? What role does the news play in contemporary society? Additional lessons focus on interviewing skills, ethics, and writing style. Students should expect to demonstrate what they know by writing one feature-length article suitable for publication.

Prerequisites: None.

Duration: 1 semester PEG

ENG11553 Introduction to Journalism NCAA



*"What's in a name? That which we call a rose by any other name would smell as sweet."
from Romeo & Juliet*

Introduction to Speech

Students are introduced to public speaking, build confidence, and utilize modern technology to create and present a variety of presentations for different purposes and audiences; these can include informative presentations, persuasive presentations, special occasion speeches, and others. Students view, analyze, and evaluate several examples of public speaking for technique and effectiveness, including nonverbal communication (body language) and the sound and flow of speaking. They also learn how to create, organize, and deliver presentations for a variety of audiences and purposes. Students also engage in critical thinking, practice identifying instances of faulty logic, and learn how to present arguments backed by careful research and logical thinking.

Prerequisites: None; English I recommended.

Duration: 1 semester PEG

ENG11314 Introduction to Speech NCAA

Lord of the Rings – Exploration Films & Literature

Hobbits, Orcs, wizards, dashing knights, and powerful elves are all part of the magic created in J.R.R. Tolkien's famously epic tale, *The Lord of the Rings*. For years, the vivid characters within this beloved story could exist only in the readers' minds—until it was adapted into a movie that allowed fans to finally see, through the eyes of Hollywood magic and brilliant technology, the manifestation of these characters onscreen. What does it take to transport these well-known images like Gollum and the Shire from dusty pages to the giant screen? In *The Lord of the Rings: An Exploration of the Films & Its Literary Influences*, you will see first-hand how classic literature can become modern film and bring the fantasy alive for a whole new generation of believers.

Prerequisites: None.

Duration: 1 semester eDynamic

ENG11421 Lord of the Rings

Public Speaking

The art of public speaking is one which underpins the very foundations of Western society. This course examines those foundations in both Aristotle and Cicero's views of rhetoric, and then traces those foundations into the modern world. Students will learn not just the theory, but also the practice of effective public speaking, including how to analyze the speeches of others, build a strong argument, and speak with confidence and flair. By the end of this course, students will know exactly what makes a truly successful speech and will be able to put that knowledge to practical use.

Prerequisites: None.

Duration: 1 semester eDynamic

ENG11615 Public Speaking

Responding to Literature

Students learn key literary terms and concepts, and how to compose essays and articles in response to pieces of literature. They learn about certain character archetypes found in mythology that permeate modern stories of today, characterization, and types of characters (flat, round, static, dynamic). Students identify and evaluate writing for imagery, figurative language, metaphors, similes, and personification. Lesson topics also include theme, conflict, plot, setting, point of view, irony, foreshadowing, flashback, and symbolism. Students practice identifying, analyzing, and evaluating use of literary elements in a variety of literature, and they create projects in response to literature, using their knowledge of literary elements. Projects can include, but are not limited to, essays, articles, artistic expressions, and presentations.

Prerequisites: Expository Composition or equivalent skills.

Duration: 1 semester PEG

ENG11215 Responding to Literature NCAA

Shakespeare: The Comedies

Students investigate Shakespeare's history as a man, actor, poet and playwright. Then, they identify, analyze and discuss common elements of his comedies, including iambic pentameter, five act structure, supernatural occurrences, stock characters, and harmonious union. Additionally, students identify, analyze, and discuss common themes, such as the importance of love, the power of language, the difference between appearance and reality, and the power of dreams and illusions. Students review and discuss excerpts from Shakespeare's comedies and review summaries of these works.

Prerequisites: English I or equivalent skills; junior or senior standing recommended.

Duration: 1 semester PEG

ENG11611 Shakespeare: The Comedies NCAA

Shakespeare: The Tragedies

Students review Shakespeare's history as a man, actor, poet and playwright. They identify, analyze and discuss the tragic hero archetype as addressed in Shakespeare's plays. Students compare and contrast the structural elements and themes present in the comedies and the tragedies and interact with Shakespeare's tragic texts by reading and discussing excerpts and summaries. Upon completion of the course, students will submit an analysis of a film adaptation or professional performance of a Shakespearian tragedy.

Prerequisites: Shakespeare: The Comedies, or Instructor Permission; Also need expository composition or equivalent skills.

Duration: 1 semester PEG

ENG11612 Shakespeare: The Tragedies NCAA

Survey of Poetry

Students learn about types of poems, ranging from haiku to ballad, and the key concepts and devices of poetry, such as meter and rhyme scheme. They are exposed to a variety of poems, and learn about several poets – both classic and contemporary. Students read and evaluate poems for the various concepts specific to poetry as well as more global literary elements (i.e. theme, imagery, irony). They also have the opportunity to create original works of poetry.

Prerequisites: None.

Duration: 1 semester PEG

ENG11613 Survey of Poetry NCAA

World Literature

Students read and respond to historically or culturally significant works of British literature that reflect and enhance their studies of history and social science. They conduct in-depth analyses of recurrent patterns and themes, structural features, and narrative literary elements and devices. Students produce writing and projects in response to literature, including expository, biographical/ autobiographical, creative, persuasive, and literary analysis.

Prerequisites: English I; Responding to Literature or Creative Writing; Introduction to Fiction recommended.

Duration: 1 semester PEG

ENG11213 World Literature NCAA

Special Topics in Communication

Student-created course for elective credit. Allows student to explore a personal, academic, or career interest area that is not currently offered by the course catalog. See the "Special Topics" section of the catalog for more information.

Prerequisites: Adequate skills and knowledge for course success.

Duration: up to 2 semesters Custom

ENG11941 Special Topics in Communication A
 ENG11942 Special Topics in Communication B

Special Topics in Literature

Student-created course for elective credit. Allows student to explore a personal, academic, or career interest area that is not currently offered by the course catalog. See the "Special Topics" section of the catalog for more information.

Prerequisites: Adequate skills and knowledge for course success.

Duration: up to 2 semesters Custom

ENG11961 Special Topics in Literature A
 ENG11962 Special Topics in Literature B

Special Topics in Writing

Student-created course for elective credit. Allows student to explore a personal, academic, or career interest area that is not currently offered by the course catalog. See the "Special Topics" section of the catalog for more information.

Prerequisites: Adequate skills and knowledge for course success.

Duration: up to 2 semesters Custom

ENG11971 Special Topics in Writing A
 ENG11972 Special Topics in Writing B

Mathematics

Three credits of Mathematics are required to graduate from CMASAS. The minimum requirement is that all three credits must be at Algebra I level or higher.

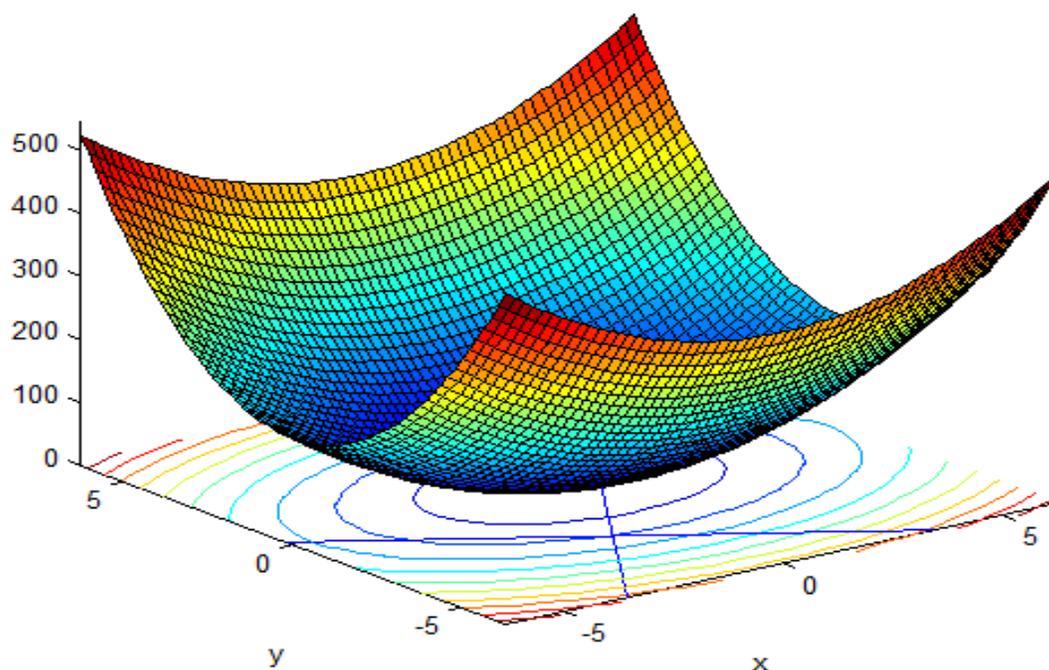
For students intending on applying to a public, four-year college or university it is recommended to take through Algebra II or higher. For students intending on applying to a highly-selective college or university it is recommended to take through Pre-Calculus or higher.

Typical H.S. Mathematics Sequence:

- Pre-Algebra Skills (usually met in 8th grade)
- Algebra I A & B
- Geometry A & B
- Algebra II A & B

While the above sequence is the most common, it is by no means the only path.

Meet with your counselor and PEC to discuss the sequence that will best meet your specific education and career goals.



Algebra A-D

The Algebra A, B, C, D series covers the same concepts presented in Algebra I A & B, but provides more time and opportunity for practice, resulting in a deeper learning experience for students.

Prerequisites: Pre-Algebra, or equivalent skills, for Algebra A. Algebra IA can serve as the prerequisite for Algebra C.

Duration: 4 semesters PEG

MATH12101	Algebra A
MATH12102	Algebra B
MATH12103	Algebra C
MATH12104	Algebra D

Algebra I

This course is the foundation for high school mathematics courses. It is the bridge from the concrete to the abstract study of mathematics. Topics include simplifying expressions, evaluating and solving equations and inequalities, and graphing linear and quadratic functions and relations. Real world applications are presented within the course content and a function's approach is emphasized. Symbolic reasoning and calculations with symbols are central in algebra. Through the study of algebra, a student develops an understanding of the symbolic language of mathematics and the sciences. In addition, algebraic skills and concepts are developed and used in a wide variety of problem-solving situations.

Prerequisites: Pre-Algebra, or equivalent skills.

Duration: 2 semesters PEG or CLO

MATH12111	Algebra I A	NCAA
MATH12112	Algebra I B	NCAA

Algebra II

This discipline complements and expands the mathematical content and concepts of Algebra I and Geometry. Students who master Algebra II will gain experience with algebraic solutions of problems in various content areas, including the solution of systems of quadratic equations, logarithmic and exponential functions, the binomial theorem, and the complex number system.

Prerequisites: Algebra I and Geometry, or equivalent skills.

Duration: 2 semesters PEG or CLO

MATH12311	Algebra II A	NCAA
MATH12312	Algebra II B	NCAA

Calculus

This course gives students a further edge in meeting their mathematics requirements in college. Designed as a college-level course, it requires significant independent study and full comprehension of Pre-Calculus concepts. Typically, HS Calculus is NOT a substitute for college calculus requirements; most degree programs requiring calculus require students to take calculus in college regardless of H.S. credits, but previously-mastered skills can facilitate the completion of such courses.

Prerequisites: Pre-Calculus, or equivalent skill level.

Duration: 2 semesters

MATH12611	Calculus A	NCAA
MATH12612	Calculus B	NCAA



Photo By: Wanda Dechant ©

General Math

General Math provides the necessary foundation to be successful in pre-algebra and above. Students increase their facility with the four basic arithmetic operations applied to fractions, decimals, and positive and negative numbers. They learn and use common measuring units to determine length and area and know and use formulas to determine the volume of simple geometric figures. Students learn the concept of angle measurement and use a protractor and compass to solve problems. They use grids, tables, graphs, and charts to record and analyze data. Topics include number sense; algebra and functions; measurement and geometry; statistics, data analysis, and probability; and mathematical reasoning.

Prerequisites: None.

Duration: 2 semesters PEG

MATH12011	General Math A
MATH12012	General Math B

Geometry

In this course, students will develop a logical system of thought. Geometry focuses on plane geometry with integration of some space and coordinate geometry. This course develops geometric concepts using formal proofs and algebraic applications. Algebra is used extensively for areas, volumes, lengths, angle measures, and graphing.

Prerequisites: Algebra I, or equivalent skills.

Duration: 2 semesters PEG or CLO

MATH12211	Geometry A	NCAA
MATH12212	Geometry B	NCAA

Integrated Math I & II

Integrated Math integrates Algebra II, Geometry. This course formalizes and extends the mathematics that students learned in Algebra I.

Prerequisites: Adequate skills and knowledge for course success.

Duration: up to 2 semesters CLO

MATH16121	Integrated Math I A
MATH16122	Integrated Math I B
MATH16221	Integrated Math II A
MATH16222	Integrated Math II B

Pre-Algebra

The goal of Pre-Algebra is to develop fluency with rational numbers and proportional relationships. Students will extend their elementary skills and begin to learn algebra concepts that serve as a transition into formal Algebra and Geometry. Students will learn to think flexibly about relationships among fractions, decimals, and percents. Students will learn to recognize and generate equivalent expressions and solve single-variable equations and inequalities. Students will investigate and explore mathematical ideas using technology and models to develop multiple strategies for analyzing complex situations. Students will analyze situations verbally, numerically, graphically, and symbolically. Students will apply mathematical skills and make meaningful connections to life's experiences.

Prerequisites: none, but should have mastered competencies noted for General Math.

Duration: 2 semesters PEG

MATH12041	Pre-Algebra A
MATH12042	Pre-Algebra B

Pre-Calculus/Trigonometry

Pre-calculus weaves together previous study of algebra, geometry, and functions into a preparatory course for calculus. The course focuses on the mastery of critical skills and exposure to new skills necessary for success in subsequent math courses. Topics include linear, quadratic, exponential, logarithmic, radical, polynomial, and rational functions; systems of equations; and conic sections in the first semester. The second semester covers trigonometric ratios and functions; inverse trigonometric functions; applications of trigonometry, including vectors and laws of cosine and sine; polar functions and notation; and arithmetic of complex numbers. Cross-curricular connections are made throughout the course to calculus, art, history, and a variety of other fields related to mathematics.

Prerequisites: Geometry and Algebra II.

Duration: 2 semester Get Fueled or CLO

MATH12411	Pre-Calculus/Trig A	NCAA
MATH12412	Pre-Calculus/Trig B	NCAA

Special Topics in Mathematics

Student-created course for elective credit. Allows student to explore a personal, academic, or career interest area that is not currently offered by the course catalog. See the "Special Topics" section of the catalog for more information.

Prerequisites: Adequate skills and knowledge for course success.

Duration: up to 2 semesters Custom

MATH12911	Special Topics in Mathematics A
MATH12912	Special Topics in Mathematics B

Social Studies

Three credits of Social Studies are required for students to graduate from CMASAS. To meet these requirements students must have one credit of World History, one credit of US History, 0.5 credit Economics, and 0.5 credit American Government or Civics.

Typical H.S. Social Studies Sequence:

- World History – 10th grade
- U.S. History – 11th grade
- U.S. Government – 12th grade
- Economics – 12th grade

While the above sequence is the most common, it is by no means the only path.

Meet with your counselor and PEC to discuss the sequence that will best meet your specific education and career goals.

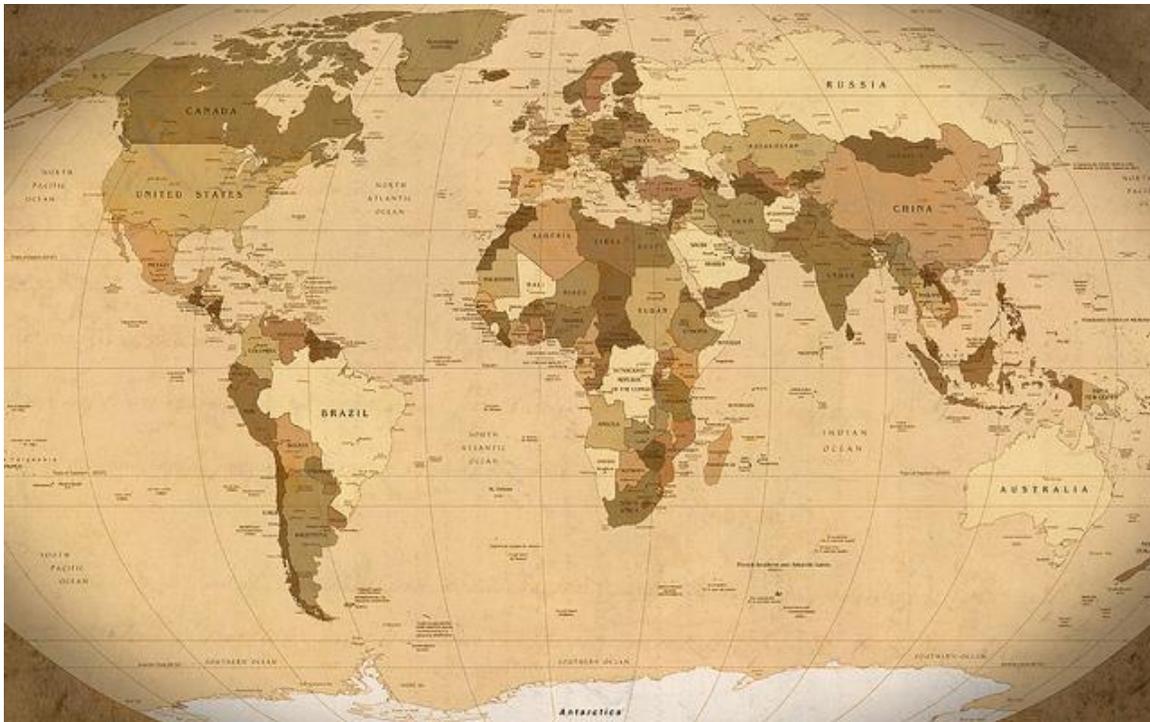


Photo By: Guy Sie ©

African-American History

Over the course of U.S. history, how have African Americans helped shaped American culture? This African American History course answers that question by tracing the accomplishments and obstacles of African Americans beginning with the slave trade on up to the modern Civil Rights movement. What was it like during slavery, or after emancipation, or during the years of discrimination under Jim Crow? Who were some of the main figures who have shaped African American history? In this course, you'll learn about the political, economic, social, religious, and cultural factors that have influenced African American life, come face to face with individuals who changed the course of history, and explore how the African American story still influences current events today.

Prerequisites: None.

Duration: 1 semester eDynamics

SOC13421 African American History

Anthropology I

The aim of anthropology is to use a broad approach to gain an understanding of our past, present, future and address the problems humans face in biological, social and cultural life. This course will explore the evolution, similarity and diversity of humankind through time. It will look at how we have evolved from a biologically and culturally weak species to one that has the ability to cause catastrophic change. Exciting online video journeys to different areas of the world will also be presented in the course.

Prerequisites: None.

Duration: 1 semester eDynamics

SOC13441 Anthropology I



Anthropology II

Anthropology has helped us better understand cultures around the world and through different time period. This course continues the study of global cultures and the ways that humans have made sense of their world. We will examine some of the ways that cultures have understood and gave meaning to different stages of life and death. The course will also examine the creation of art within cultures and examine how cultures evolve and change over time. Finally, we will apply the concepts and insights learned from the study of anthropology to several cultures found in the world today.

Prerequisites: Anthropology I.

Duration: 1 semester eDynamics

SOC13442 Anthropology II

Archaeology

The field of archeology helps us to better understand the events and societies of the past that have helped to shape our modern world. This course focuses on this techniques, methods, and theories that guide the study of the past. Students will learn how archaeological research is conducted and interpreted, as well as how artifacts are located and preserved. Finally, students will learn about the relationship of material items to culture and what we can learn about past societies from these items.

Prerequisites: None.

Duration: 1 semester eDynamic

SOC13511 Archaeology

Civics

Emphasizing the power of one and personal responsibility, students are empowered with an understanding of how government systems and politics work, and the importance of individuals being active in one's community and beyond. Civics promotes finding a common ground, seeking peaceful solutions, and engaging in meaningful activities.

Prerequisites: None.

Duration: 1 semester CLO

SOC13313 Civics NCAA

Classical Philosophy, Introduction

Students will explore the definition of philosophy and will receive an overview of Classical approaches to the topic. They will read works by Plato and Aristotle and learn to create a philosophical argument free of logical fallacies. Students conclude the course by creating a statement of personal philosophy.

Prerequisites: None.

Duration: 1 semester PEG

SOC13513 Introduction to Classical Philosophy NCAA

Criminology

In this course, we will explore the field of criminology or the study of crime. In doing so, we will look at possible explanations for crime from psychological, biological, and sociological standpoints, explore the various types of crime and their consequences for society, and investigate how crime and criminals are handled by the criminal justice system. Why do some individuals commit crimes but others don't? What aspects in our culture and society promote crime and deviance? Why do individuals receive different punishments for the same crime?

Prerequisites: None.

Duration: 1 semester eDynamic

SOC13713 Criminology

Current World Issues & Politics

With a strong emphasis in critical thinking skills, students explore current events. Topics include human rights, civic action and responsibility, environmental issues, globalization and the economy, politics and government, social problems both local and global, and other timely topics. Students learn about logic, and faulty logic, and how to analyze various media for engaging in propaganda and faulty logic. Newspapers, magazines, television, the Internet, and other media will be utilized.

Prerequisites: Junior or Senior standing; Senior standing recommended; U.S. History and World History recommended.

Duration: 1 semesters PEG

SOC13141 Current World Issues and Politics NCAA

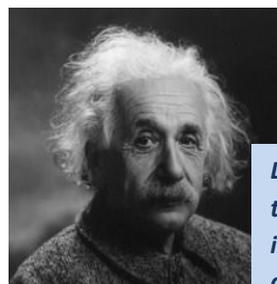
Economics, Principles of

Covers fundamental economic concepts, including micro- and macroeconomics, international economics, comparative economic systems, measurement, and methods. Emphasis is placed in recognizing cause-and-effect relationships, encouraging the development of critical thinking skills applied within the realm of economics.

Prerequisites: Senior standing recommended; Algebra I recommended.

Duration: 1 semester PEG or CLO

SOC13412 Principles of Economics NCAA



Learn from yesterday, live for today, hope for tomorrow. The important thing is not to stop questioning.

~Albert Einstein

Great Minds in Science

Is there life on other planets? What extremes can the human body endure? Can we solve the problem of global warming? Today, scientists, explorers, and writers are working to answer all of these questions. Like Edison, Einstein, Curie, and Newton, the scientists of today are asking questions and working on problems that may revolutionize our lives and world. This course focuses on 10 of today's greatest scientific minds. Each unit takes an in-depth look at one of these individuals, and shows how their ideas may help to shape tomorrow's world.

Prerequisites: None.

Duration: 1 semester eDynamic

SOC13512 Great Minds in Science

History of the Holocaust

Holocaust education requires a comprehensive study of not only times, dates, and places, but also the motivation and ideology that allowed these events. In this course, students will study the history of anti-Semitism; the rise of the Nazi party; and the Holocaust, from its beginnings through liberation and the aftermath of the tragedy. The study of the Holocaust is a multi disciplinary one, integrating world history, geography, American history, and civics. Through this in-depth, semester-long study of the Holocaust, high school students will gain an understanding of the ramifications of prejudice and indifference, the potential for government-supported terror, and they will get glimpses of kindness and humanity in the worst of times.

Prerequisites: None.

Duration: 1 semester eDynamic

SOC13714 History of the Holocaust

Human Geography

How do language, religion, and landscape affect the physical environment? How do geography, weather, and location affect customs and lifestyle? Students will explore the diverse ways in which people affect the world around them and how they are affected by their surroundings. Students will discover how ideas spread and cultures form, and learn how beliefs and architecture are part of a larger culture complex. In addition to introducing students to the field of Human Geography, this course will teach students how to analyze humans and their environments.

Prerequisites: None.

Duration: 1 semester eDynamic

SOC13113 Human Geography

Psychology, Introduction

Introduction to psychology provides a foundation of knowledge in psychology and psychological methods. Student study learning and cognition and gain understanding in phases of development from a psychological perspective. Students learn about and discuss personality, including influences, theories, and measurements.

Prerequisites: None.

Duration: 1 semester PEG

SOC13514 Introduction to Psychology NCAA

Social Media, Introduction

In this course, you'll learn the ins and outs of social media platforms such as Facebook, Twitter, Pinterest, Google+, and more. You'll also discover other types of social media you may not have been aware of and how to use them for your benefit—personally, academically, and eventually professionally as well. If you thought social media platforms were just a place to keep track of friends and share personal photos, this course will show you how to use these resources in much more powerful ways.

Prerequisites: None.

Duration: 1 semester eDynamic

SOC13142 Introduction to Social Media

Social Problems I

Students will learn more about the challenges facing societies and the relationships between societies, governments, and individuals in these areas. Each unit will focus on a particular area of social concern, often with a global view, and examine possible solutions at both a structural and individual level.

Prerequisites: None.

Duration: 1 semester eDynamic

SOC13611 Social Problems I

Social Problems II

Students learn about the overall structure of the social problem as well as how it impacts their lives. Each unit focuses on a particular social problem. Students examine the connections in each issue between societies, individuals, governments, and the global arena.

Prerequisites: None.

Duration: 1 semester eDynamic

SOC13612 Social Problems II

Sociology I

In this increasingly connected world, students will examine problems in our society and learn how human relationships can influence the life of the student. Exciting online video journeys to different areas of the world are also presented in the course.

Prerequisites: None.

Duration: 1 semester eDynamic

SOC13711 Sociology I

Sociology II

Sociology is the study of people, social life and society. The development of a sociological imagination will enable students to examine how society shapes human actions and beliefs, and how such actions and beliefs in turn shape society.

Prerequisites: None.

Duration: 1 semester eDynamic

SOC13712 Sociology II

Survey of Religion

Students survey major religions and belief systems in the world. They also explore how religion is viewed in the United States, including the concepts of freedom of religion and the "separation of church and state." Students compare religions and look for purposes and common messages found across cultures and faiths.

Prerequisites: None.

Duration: 1 semester PEG

REL10413 Survey of Religion



U.S. Government

Students learn the history and current structure of the United States government, and how to be active participants in the U.S. political system. They gain understanding of the underlying philosophies that formed the current system, explore the concept of democracy and individual rights, review landmark court decisions, evaluate and take positions on key issues, and learn to think critically.

Prerequisites: Senior standing, or instructor permission; U.S. History recommended.

Duration: 1 semester PEG or CLO

SOC13411	U.S. Government	NCAA
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U.S. History

Students study the major turning points in American history in the 20th century. Following a review of the nation's beginnings and the impact of the Enlightenment on U.S. democratic ideals, students build upon the previous study of global industrialization (World History) to understand the emergence and impact of new technology and a corporate economy, including the social and cultural effects. They trace the change in the ethnic composition of American society; the movement toward equal rights for racial minorities and women; and the role of the United States as a major world power. An emphasis is placed on the expanding role of the federal government and federal courts as well as the continuing tension between the individual and the state. Students consider the major social problems of our time and trace their causes in historical events. They learn that the United States has served as a model for other nations and that the rights and freedoms U.S. citizens enjoy are not accidents, but the results of a defined set of political principles that are not always basic to citizens of other countries. Students understand that rights under the U.S. Constitution comprise a precious inheritance that depends on an educated citizenry for their preservation and protection.

Prerequisites: World History recommended; Junior or Senior standing recommended

Duration: 2 semesters PEG, or CLO

SOC13311	U.S. History A	NCAA
SOC13312	U.S. History B	NCAA

Women's Studies, Introduction to

Maybe you grew up watching movies with female characters like Cinderella, Belle, Snow White, or Ariel. Maybe you've wondered why there are stereotypes about women being bad drivers or ignorant about sports. Maybe you want to know about feminism and the women's movement. The Introduction to Women's Studies: A Personal Journey Through Film can help you answer these questions. Though it focuses on the experience of women, it's appropriate for anyone who wants to learn to critically examine films while learning about the history of the women's movement and how gender, race, and social class influence us. Women have earned their right to stand up and be recognized as equal partners and reap the benefits of their hard work. As the anonymous quote goes, "History is Herstory too..

Prerequisites: None.

Duration: 1 semesters eDynamic

SOC13431	Women's Studies
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World Geography

Students gain understanding of physical geography, exploring causal relationships among the different geographic forms (i.e. earth-sun relationships). They learn about and discuss human geography and human systems in general terms. They then apply this knowledge as they explore, discuss, and demonstrate understanding of the geography of different regions of the world, including the following for each: cities and settlements, natural environments and resources, physical features, climates and biomes, and history and culture.

Prerequisites: None.

Duration: 2 semesters CLO

SOC13111	World Geography A	NCAA
SOC13112	World Geography B	NCAA

World History

In World History, students study major turning points that shaped the world, from the time of the Classical Civilizations (Greece, Rome, Han China, India) through the present. They will compare early civilizations and look at the rise of religions, trade routes, etc. and how those impacted societies across the globe. They trace the rise of democratic ideas and develop an understanding of the historical roots of current world issues, especially as they pertain to international relations. They extrapolate from the American experience that democratic ideals are often achieved at a high price, remain vulnerable, and are not practiced everywhere in the world. Students develop an understanding of current world issues and relate them to their historical, geographic, political, economic, and cultural contexts. Students consider multiple accounts of events in order to understand international relations from a variety of perspectives. They will look at individuals and groups in history to see how the course of history can be changed at a local, regional, and global level.

During World History A, students explore times periods from ancient times through the early 1800s. Then in World History B, students will pick up with the Industrial Revolution in the 1800s and work through modern history up to today.

Prerequisites: None.

Duration: 2 semesters PEG, or CLO

SOC13211	World History A	NCAA
SOC13212	World History B	NCAA

World Religions

This course focuses on the major religions that have played a role in human history, including Buddhism, Christianity, Confucianism, Hinduism, Islam, Judaism, Shintoism, and Taosim. Students will trace the major developments in these religions and explore their relationships with social institutions and culture. The course will also discuss some of the similarities and differences among the major religions and examine the connections and influences they have.

Prerequisites: None.

Duration: 1 semester eDynamic

SOC13614 World Religions

Special Topics in Social Sciences

Student-created course for elective credit. Allows student to explore a personal, academic, or career interest area that is not currently offered by the course catalog. See the "Special Topics" section of the catalog for more information.

Prerequisites: Adequate skills and knowledge for course success.

Duration: up to 2 semesters Custom

SOC13941 Special Topics in Social Sciences A
SOC13942 Special Topics in Social Sciences B

Special Topics in History

Student-created course for elective credit. Allows student to explore a personal, academic, or career interest area that is not currently offered by the course catalog. See the "Special Topics" section of the catalog for more information.

Prerequisites: Adequate skills and knowledge for course success.

Duration: up to 2 semesters. Custom

SOC13951 Special Topics in History A
SOC13852 Special Topics in History B

Science

Three credits of Science are required to graduate from CMASAS. These credits must include both a physical and life science credit; and at least two labs. For students intending on applying to a public, four-year college or university it is recommended to take Chemistry and/or Physics; and Biology.

Course	Discipline	Lab
Astronomy	Physical Science	No
Biology	Life Science	Yes
Chemistry	Physical Science	Yes
Earth Science	Physical Science	Yes
Environmental Science	Life Science	No
Forensic Science	Integrated	Yes
Physical Science	Physical Science	Yes
Physics	Physical Science	No



Science

Course Offerings

Astronomy

Astronomy is a fusion of concepts and applications from physics, chemistry, geology, biology and mathematics. As such, students experience science in a broad integrated manner. Throughout the course, mathematics is incorporated as a tool for understanding. Students explore the ever-advancing astronomy topics through multiple print and digital sources, including online and print material research. A variety of hands-on and virtual investigations support the understanding of astronomy concepts. The implications of the technologies and theories of astronomy upon Earth's societies are examined and discussed. Larger scale projects give students the opportunity to incorporate astronomy concepts in creative endeavors.

Prerequisites: Physical or Earth Science; Prior online learning experience and Algebra recommended.

Duration: 2 semesters PEG

SCI14611	Astronomy A	NCAA
SCI14612	Astronomy B	NCAA

Biology

In this course, students learn about the life processes of plants and animals from the cellular level to the consideration of complex ecosystems. Topics include cell biology, genetics, ecology, evolution, and physiology. Students are encouraged to engage in critical thinking and to use the scientific process to conduct investigative learning activities.

Lab Course

Prerequisites: None.

Duration: 2 semesters PEG or CLO

SCI14211	Biology A	NCAA
SCI14212	Biology B	NCAA

Biotechnology

How is technology changing the way we live? Is it possible nature can provide all the answers to some of science's most pressing concerns? The fusion of biology and technology creates an amazing process and offers humanity a chance to significantly improve our existence through the enhancement of food and medicine. In Biotechnology: Unlocking Nature's Secrets, you'll learn how this field seeks to cure such deadly diseases as cancer and malaria, develop innovative medicine, and effectively feed the world through improved systems. Learn about the history of biotechnology and some of the challenges it faces today, such as resistant bacteria and genetically modified organisms in food. You will research new biotechnologies and understand firsthand how they are forever changing the world we live.

Prerequisites: None.

Duration: 1 semesters eDynamic

SCI14221	Biotechnology
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Chemistry

Students will explore inorganic chemistry through an inquiry based study. Students will investigate the world of chemistry using the scientific method, lab experiments, and activities. Topics covered in this course include matter, atoms, the periodic table, solutions, nuclear chemistry, reactions, equations, and acid/bases.

Lab Course

Prerequisites: Algebra I.

Duration: 2 semesters PEG or CLO

SCI14311	Chemistry A	NCAA
SCI14312	Chemistry B	NCAA

Earth Science

Earth science explores the methods and concepts of geology, meteorology, oceanography and astronomy. As appropriate, concepts from mathematics, chemistry and physics are included. The core standards for science are addressed as students study the broad fields that make up the earth sciences. Throughout the course students will examine and reflect upon real-world applications and issues involving earth science. This course serves as a foundation for more advanced courses and college-level study, especially for students planning college majors in the earth and space sciences.

Lab Course

Prerequisites: None.

Duration: 2 semesters PEG or CLO

SCI14111	Earth Science A	NCAA
SCI14112	Earth Science B	NCAA

Forensic Science

This course introduces students to various methodologies and applications used in the forensic science. Students will learn how to process a crime scene and analyze the evidence. Topics discussed include crime-scene investigation and evidence collection, study of fibers and textiles, DNA analysis, fingerprinting, blood analysis, handwriting analysis, ballistics, and drug analysis.

Lab Course

Prerequisites: None.

Duration: 2 semesters PEG

SCI14511	Forensic Science A	NCAA
SCI14512	Forensic Science B	NCAA

Marine Science

Have you ever wondered about the secrets of the deep, and how the creatures below the ocean's surface live and thrive? It is truly a new frontier of discovery, and in Marine Science you will begin to better understand the aquatic cycles, structures, and processes that generate and sustain life in the sea. Through the use of scientific inquiry, research, measurement, and problem solving, you will conduct various scientific procedures that will lead to an increased level of knowledge about Marine Science. You will also have the opportunity to use technology and laboratory instruments in an academic setting. By recognizing the inherent ethics and safety procedures necessary in advanced experiments, you will become progressively more confident in your abilities as a capable marine scientist.

Prerequisites: None.

Duration: 1 semesters eDynamic

SCI14621	Marine Science
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Physical Science

As a lab-based science course, Physical Science explores the methods and concepts of introductory physics and chemistry. Quantitative in nature, most topics of physical science incorporate the application of a broad range of mathematics concepts and skills. The core standards for science are addressed as students study the broad fields that make up the physical sciences. More specifically, topics include energy and motion, electricity and energy resources, waves, the nature of matter, and introductory chemistry. In each topic, virtual and traditional lab activities are incorporated. Throughout the course students will examine and reflect upon real-world applications and issues involving physical science.

Lab Course

Prerequisites: None, Algebra I recommended.

Duration: 2 semester PEG or CLO

SCI14121	Physical Science A	NCAA
SCI14122	Physical Science B	NCAA

Physics

Students will explore the physical world through an inquiry-based study. Students will use science as a process of obtaining knowledge based on observable evidence. Students will design and perform experiments using the scientific method to help understand the topics covered. Major topics covered in this course are motion of objects, forces acting on objects, and energy.

Prerequisites: Algebra I.

Duration: 2 semester CLO

SCI14411	Physics A	NCAA
SCI14412	Physics B	NCAA

Renewable Technologies, Intro to

Cars that run on used vegetable oil. Electricity produced from your garbage. A windmill made from spare bicycle parts that pumps water to crops. Energy is *life*. So, how do we address the world's growing concerns about energy sources? Where will it come from in the future? How can energy be something sustainable, renewable, and accessible? Introduction to Renewable Technologies begins to uncover the development of new energy technologies and explores how recent approaches to generating, storing, and creating this precious resource have evolved. By gaining a larger understanding of this challenge, we, as thoughtful people, can implement real change and unlock the solution needed for a safer, cleaner, and more enduring world.

Prerequisites: None.

Duration: 1 semesters eDynamic

SCI14222	Renewable Technologies
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Veterinary Science

As animals play an increasingly important role in our lives, scientists have sought to learn more about their health and well being. This course will examine some of the common diseases and treatments for domestic animals. Through veterinary medicine and science, the prevention and treatment of diseases and health issues is studied and applied.

Prerequisites: None.

Duration: 1 semesters eDynamic

SCI14811	Veterinary Science
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Special Topics in Sciences

Student-created course for elective credit. Allows student to explore a personal, academic, or career interest area that is not currently offered by the course catalog. See the "Special Topics" section of the catalog for more information.

Prerequisites: Adequate skills and knowledge for course success.

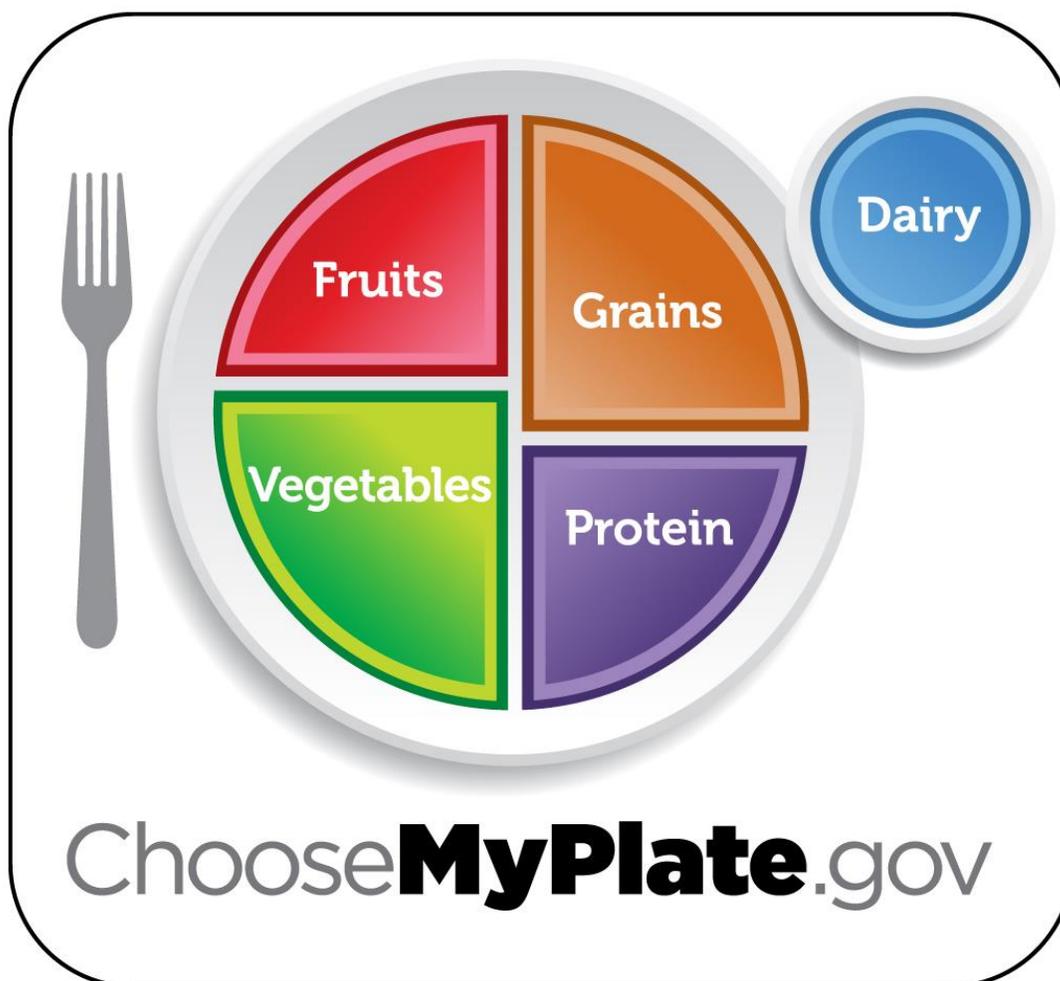
Duration: up to 2 semesters Custom

SOC14911	Special Topics in Sciences A
SOC12912	Special Topics in Sciences B

Health & Physical Education

Two credits of Health & Physical Education are required to graduate from CMASAS. These credits must include 0.5 credit of a health class.

Students are provided with customized PE course options. Most students only take the PE I & II sequence, completing personalized activities in nutrition and fitness. They can include sports, martial arts, or other activities in which they are already involved. Meanwhile, other students are involved in specific sports that they want reflected on their transcript, such as dance or aquatic activities, and to obtain credit beyond the PE I & II sequence; these options include documentation of time, activities, goal setting, self-evaluation, and healthy choices.



Adventure & Outdoor Activities

Students demonstrate advanced knowledge and skills in two or more adventure/outdoor activities. They apply previously learned movement concepts and principles to learning and developing of motor skills required for successful participation in adventure/outdoor activities. They should be able to identify and apply the principles of biomechanics necessary for the safe and successful performance of these activities, and they should be able to list the safety equipment required for participation. Students participate in these activities that improve health-related physical fitness, analyze the effects of the activities on one's self and adjusting as needed while working towards personal fitness goals. Students also consider personal responsibility, social interaction, and group dynamics while participating in these activities.

Prerequisites: None.

Duration: 2 semesters PEG

HPE17511	Adventure & Outdoor Activities A
HPE17512	Adventure & Outdoor Activities B

PE: Aerobic Activities

Students demonstrate advanced knowledge and skills in two or more aerobic activities, selecting one or more from following: 1) aerobic dance, running, skating, swimming, cross-country skiing, cycling, rowing, triathlon, and walking. Students demonstrate knowledge and competency in motor skills, movement patterns, and strategies needed to perform in these activities. They strive to achieve a level of physical fitness for health and performance while demonstrating knowledge of fitness concepts, principles, and strategies. Students also demonstrate knowledge of psychological and sociological concepts, principles, and strategies that apply to the learning and performance of physical activity.

Prerequisites: None.

Duration: 2 semesters PEG

HPE17611	PE: Aerobic Activities A
HPE17612	PE: Aerobic Activities B

PE: Aquatic Activities

Students demonstrate advanced knowledge and skills in two or more aquatic activities, selecting one or more from the following categories: 1) diving, kayaking/canoeing/rowing, snorkeling, swimming, life guarding, scuba diving, synchronized swimming, and water polo. Students demonstrate knowledge and competency in motor skills, movement patterns, and strategies needed to perform in these activities. They strive to achieve a level of physical fitness for health and performance while demonstrating knowledge of fitness concepts, principles, and strategies. Students also demonstrate knowledge of psychological and sociological concepts, principles, and strategies that apply to the learning and performance of physical activity.

Prerequisites: None.

Duration: 2 semesters PEG

HPE17711	PE: Aquatic Activities A
HPE17712	PE: Aquatic Activities B

Health

Students learn about, evaluate, and apply health skills to one's life, both emotional and physical, and understand that one is responsible for one's own health. Students explore physical, mental, and emotional health, and they learn how to develop and age healthfully. Nutrition, exercise, and healthy choices regarding drug and alcohol products are explored, including the impacts of addiction. Students learn to be savvy consumers, and how to develop a healthy lifestyle. They also explore their interactions with others, from the care of children and the elderly to family relationships and friendships, with an emphasis on developing healthy relationships and how to avoid or solve issues of abuse or codependency.

Prerequisites: None.

Duration: 1 semester FYI

HPE17311	Health
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Health Science

In this course, students will be introduced to the various disciplines within the health sciences, including toxicology, clinical medicine, and biotechnology. They will explore the importance of diagnostics and research in the identification and treatment of diseases. The course presents information and terminology for the health sciences and examines the contributions of different health science areas.

Prerequisites: None.

Duration: 1 semester eDynamic

HPE17313 Health Science

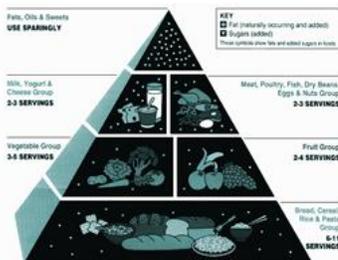
Holistic Health

Holistic healthcare combines modern science with natural diet and herbal remedies, nutritional supplements, exercise, relaxation, psycho-spiritual counseling, meditation, breathing exercises, and other self-regulatory practices. It asserts that individuals can and should become proactive about adopting a healthy lifestyle and developing a unique, personalized approach to the treatment and prevention of disease. In this course, students study key elements of holistic health and develop a personalized holistic wellness plan.

Prerequisites: None.

Duration: 1 semester PEG

HPE17312 Holistic Health



Individual & Dual Activities

Students demonstrate advanced knowledge and skills in two or more individual and dual activities, selecting one or more of the following: 1) Individual: archery, cycling, golf, gymnastics/tumbling, skating, skiing, surfing, and yoga; and 2) Dual: badminton, handball, racquetball, squash, tennis, and two-player volleyball. Students demonstrate knowledge and competency in motor skills, movement patterns, and strategies needed to perform in these activities. They strive to achieve a level of physical fitness for health and performance while demonstrating knowledge of fitness concepts, principles, and strategies. Students also demonstrate knowledge of psychological and sociological concepts, principles, and strategies that apply to the learning and performance of physical activity.

Prerequisites: None.

Duration: 2 semesters PEG

HPE17411 Individual and Dual Activities A
HPE17412 Individual and Dual Activities B

Nutrition & Wellness

Students gain an understanding that wellness is a personal responsibility, and that wellness is an important aspect of one's life. They explore a variety of foods and analyze the significance of food as presented in different cultures and in the marketplace, as well as in the media. Students learn about food and kitchen safety procedures, summarize and apply information about different groups of foods, and demonstrate the ability to plan meals and be a smart consumer when shopping for food. They analyze their own nutritional needs, considering personal health, fitness, lifestyle, and other considerations.

Prerequisites: None.

Duration: 1 semester PEG

HPE17314 Nutrition and Wellness

PE through Dance

Students demonstrate advanced knowledge and skills in two or more dance activities, selecting one or more from the following: 1) ballet, folk, and jazz, modern, social, and square. Students demonstrate knowledge and competency in motor skills, movement patterns, and strategies needed to perform in these activities. They strive to achieve a level of physical fitness for health and performance while demonstrating knowledge of fitness concepts, principles, and strategies. Students also demonstrate knowledge of psychological and sociological concepts, principles, and strategies that apply to the learning and performance of physical activity.

Prerequisites: None.

Duration: 2 semesters PEG

HPE17811	PE through Dance A
HPE17812	PE through Dance B

Physical Education I & II

Physical Education I and II emphasize personal fitness development. Students create personal fitness plans, setting goals, and evaluate/refining goals periodically over the course of the semester. They develop strength, endurance, flexibility, and coordination through a variety of regular physical activities. Students also demonstrate awareness of health and wellness information, including nutrition, safety, making healthy choices, first aid and emergency response skills, and developing a positive self-image.

Prerequisites: None.

Duration: 4 semesters PEG

HPE17111	Physical Education I A
HPE17112	Physical Education I B
HPE17211	Physical Education II A
HPE17212	Physical Education II B

Weight Training & Fitness

Students demonstrate knowledge and competency in motor skills, movement patterns, and strategies needed to perform in these activities. This includes learning the biomechanics, techniques, and safety issues related to proper lifting techniques. They strive to display safe and responsible behavior while training and setting personal goals for fitness throughout one's lifetime.

Prerequisites: None.

Duration: 2 semesters PEG

HPE17841	Weight Training and Fitness A
HPE17842	Weight Training and Fitness B

Special Topics in Health

Student-created course for elective credit. Allows student to explore a personal, academic, or career interest area that is not currently offered by the course catalog. See the "Special Topics" section of the catalog for more information.

Prerequisites: Adequate skills and knowledge for course success.

Duration: up to 2 semesters Custom

HPE17911	Special Topics in Health A
HPE17912	Special Topics in Health B

Special Topics in Physical Education

Student-created course for elective credit. See the "Special Topics" section of the catalog for more information.

Prerequisites: Adequate skills and knowledge for course success.

Duration: up to 2 semesters Custom

HPE17914	Special Topics in Physical Education A
HPE17915	Special Topics in Physical Education B

World Languages

Three credits of World Languages/Fine Arts/CTE are required to graduate from CMASAS. These can be combination of any courses from World Language, Fine Arts, or CTE.

For students intending on applying to a public, four-year college or university it is recommended to take two credits of the same language. For students intending on applying to a highly-selective college or university it is recommended to take three to four credits of the same language.



CMASAS currently has two program options for world languages. Information provided below is intended to help clarify these options. Each option offers a slightly different approach and the languages available.

Rosetta Stone (RS)

Languages Offered

Chinese 1-5
French 1-5
German 1-3
Italian 1-5
Japanese 1-3
Russian 1-3
Spanish 1-5

Description

Rosetta Stone is an immersion based program. Students use images and audio to learn the language. There are no traditional lessons on grammar or verb conjugations. Activities include a core lesson, pronunciation, vocabulary, grammar, listening, and others. Each activity follows the same format with students matching what they hear to images. Students will also use the voice recognition program to analyze their oral abilities. All Rosetta Stone courses are supplemented through Buzz with culture projects and current events assignments.

Middlebury Languages

Languages Offered

Chinese 1-2
French 1-3
German 1-2
Latin 1-2
Spanish 1-3
AP French
AP Spanish

Description

Middlebury offers a more traditional format to language learning that includes lessons in verb conjugations, grammar, vocabulary, and pronunciation. All content is presented through Buzz. There is a variety of activities that include audio and recording features for oral and listening assessments.

This is the only program that offers Latin.

American Sign Language

American Sign Language is offered through Signing Online. Signing Online is designed with nationally and internationally recognized curriculum developed by Dr. David Stewart to effectively teach ASL. The courses focus on conversation and use videos to demonstrate the visual nature of signing.



ASL I

Students learn conversational American Sign Language and uses videos to demonstrate the visual nature of signing. Students learn the basics of the language and simple conversation then move in to more advanced conversations.

Prerequisites: None.

Duration: 2 semesters Signing Online

WLNG15011	ASL I A	
WLNG15012	ASL I B	

ASL II

Students expand their signing abilities in conversational ASL. Students begin to express and comprehend more advanced signs and finger spelling and moves students toward increased fluency.

Prerequisites: None.

Duration: 2 semesters Signing Online

WLNG15021	ASL II A	
WLNG15022	ALS II B	

Chinese I

Students learn beginning Chinese; no prior exposure to the Chinese language is required. Students will primarily learn to speak and understand spoken Chinese, and they will also learn how to read and write basic Chinese. They will gain knowledge of the Chinese culture and become aware of both Chinese history and current events.

Prerequisites: None.

Duration: 2 semesters RS or Middlebury

WLNG15111	Chinese I A	NCAA
WLNG15112	Chinese I B	NCAA

Chinese II

Students learn how to navigate their surroundings and build on the vocabulary and essential language structure in Level 1. They are able to talk about giving and getting directions, using transportation, telling time, dining out, enjoying basic social interactions, and much more. They will continue to explore Chinese culture.

Prerequisites: Chinese I.

Duration: 2 semesters RS or Middlebury

WLNG15121	Chinese II A	NCAA
WLNG15122	Chinese II B	NCAA

Chinese III

Students connect with the world around them by building on the language fundamentals and conversational skills developed in Levels 1 and 2. They share ideas and opinions, expressing feelings, and talking about everyday life, interests, work, current events and much more. They will continue to explore French culture.

Prerequisites: Chinese II.

Duration: 2 semesters Rosetta Stone

WLNG15131	Chinese III A	NCAA
WLNG15132	Chinese III B	NCAA

French I

Students learn beginning French; no prior exposure to the French language is required. Students will primarily learn to speak and understand spoken French, and they will also learn how to read and write basic French. They will gain knowledge of the French culture and become aware of both French history and current events.

Prerequisites: None.

Duration: 2 semesters RS or Middlebury

WLNG15211	French I A	NCAA
WLNG15212	French I B	NCAA

Course Offerings

French II

Students learn how to navigate their surroundings and build on the vocabulary and essential language structure in Level 1. They are able to talk about giving and getting directions, using transportation, telling time, dining out, enjoying basic social interactions, and much more. They will continue to explore French culture.

Prerequisites: French I.

Duration: 2 semesters RS or Middlebury

WLNG15221	French II A	NCAA
WLNG15222	French II B	NCAA

French III

Students connect with the world around them by building on the language fundamentals and conversational skills developed in Levels 1 and 2. They share ideas and opinions, expressing feelings, and talking about everyday life, interests, work, current events and much more. They will continue to explore French culture.

Prerequisites: French II.

Duration: 2 semesters RS or Middlebury

WLNG15231	French III A	NCAA
WLNG15232	French III B	NCAA

French IV

Students reach a level of fluency to communicate clearly in the workplace and other settings. Students understand and interpret written and spoken language on a variety of topics, and they also use French to present information, concepts, and ideas to an audience of listeners or readers.

Prerequisites: French III.

Duration: 2 semesters Rosetta Stone

WLNG15241	French IV A	NCAA
WLNG15242	French IV B	NCAA

French V

Students refine communication skills and make use of everything learned in French I - IV. Student use the French to learn about and discuss various topics, including entertainment, culture, government, and economics.

Prerequisites: French IV.

Duration: 2 semesters Rosetta Stone

WLNG15251	French V A	NCAA
WLNG15252	French V B	NCAA

German I

Students learn beginning German; no prior exposure to the German language is required. Students will primarily learn to speak and understand spoken German, and they will also learn how to read and write basic German. They will gain knowledge of the German culture.

Prerequisites: None.

Duration: 2 semesters RS or Middlebury

WLNG15311	German I A	NCAA
WLNG15312	German I B	NCAA

German II

Students learn how to navigate their surroundings and build on the vocabulary and essential language structure in Level 1. They are able to talk about giving and getting directions, using transportation, telling time, dining out, enjoying basic social interactions, and much more. They will continue to explore German culture.

Prerequisites: German I.

Duration: 2 semesters RS or Middlebury

WLNG15321	German II A	NCAA
WLNG15322	German II B	NCAA

German III

Students connect with the world around them by building on the language fundamentals and conversational skills developed in Levels 1 and 2. They share ideas and opinions, expressing feelings, and talking about everyday life, interests, work, current events and much more. They will continue to explore German culture and become aware of both German history and current events.

Prerequisites: German II.

Duration: 2 semesters. Rosetta Stone

WLNG15331	German III A	NCAA
WLNG15332	German III B	NCAA

German IV

Students reach a level of fluency to communicate clearly in the workplace and other settings. Students understand and interpret written and spoken language on a variety of topics, and they also use German to present information, concepts, and ideas to an audience of listeners or readers.

Prerequisites: German III.

Duration: 2 semesters Rosetta Stone

WLNG15341	German IV A	NCAA
WLNG15342	German IV B	NCAA

Italian I

Students learn beginning Italian; no prior exposure to the Italian language is required. Students will primarily learn to speak and understand spoken Italian, and they will also learn how to read and write basic Italian. They will gain knowledge of the Italian culture.

Prerequisites: None.

Duration: 2 semesters Rosetta Stone

WLNG15511	Italian I A	NCAA
WLNG15512	Italian I B	NCAA

Italian II

Students learn how to navigate their surroundings and build on the vocabulary and essential language structure in Level 1. They are able to talk about giving and getting directions, using transportation, telling time, dining out, enjoying basic social interactions, and much more. They will continue to explore Italian culture.

Prerequisites: Italian I.

Duration: 2 semesters Rosetta Stone

WLNG15521	Italian II A	NCAA
WLNG15522	Italian II B	NCAA

Italian III

Students connect with the world around them by building on the language fundamentals and conversational skills developed in Levels 1 and 2. They share ideas and opinions, expressing feelings, and talking about everyday life, interests, work, current events and much more. They will continue to explore Italian culture.

Prerequisites: Italian II.

Duration: 2 semesters Rosetta Stone

WLNG15531	Italian III A	NCAA
WLNG15532	Italian III B	NCAA

Italian IV

Students reach a level of fluency to communicate clearly in the workplace and other settings. Students understand and interpret written and spoken language on a variety of topics, and they also use Italian to present information, concepts, and ideas to an audience of listeners or readers.

Prerequisites: Italian III.

Duration: 2 semesters Rosetta Stone

WLNG15541	Italian IV A	NCAA
WLNG15542	Italian IV B	NCAA

Japanese I

Students learn beginning Japanese; no prior exposure to the Japanese language is required. Students will primarily learn to speak and understand spoken Japanese, and they will also learn how to read and write basic Japanese. They will gain knowledge of the Japanese culture.

Prerequisites: None.

Duration: 2 semesters Rosetta Stone

WLNG15611	Japanese I A	NCAA
WLNG15612	Japanese I B	NCAA

Japanese II

Students learn how to navigate their surroundings and build on the vocabulary and essential language structure in Level 1. They are able to talk about giving and getting directions, using transportation, telling time, dining out, enjoying basic social interactions, and much more. They will continue to explore Japanese culture.

Prerequisites: Japanese I.

Duration: 2 semesters Rosetta Stone

WLNG15621	Japanese II A	NCAA
WLNG15622	Japanese II B	NCAA

Japanese III

Students connect with the world around them by building on the language fundamentals and conversational skills developed in Levels 1 and 2. They share ideas and opinions, expressing feelings, and talking about everyday life, interests, work, current events and much more.

Prerequisites: Japanese II.

Duration: 2 semesters Rosetta Stone

WLNG15631	Japanese III A	NCAA
WLNG15632	Japanese III B	NCAA

Latin I

Students take Latin to gain a strong linguistic foundation for learning several other languages as well as for building modern vocabulary, especially in the fields of science and medicine. Students interested in language and linguistics, sciences, and medicine are encouraged to take this course. Latin currently influences culture and language throughout the modern world.

Prerequisites: None.

Duration: 2 semesters Middlebury

WLNG15711	Latin I A	NCAA
WLNG15712	Latin II B	NCAA

Latin II

Students build on the vocabulary and essential language structure in Level 1. They are able to talk about giving and getting directions, using transportation, telling time, dining out, enjoying basic social interactions, and much more. They will continue to explore ancient Latin culture and become aware of both Latin history and its current influence in the world.

Prerequisites: Latin.

Duration: 2 semesters Middlebury

WLNG15721	Latin II A	NCAA
WLNG15722	Latin II B	NCAA

Russian I

Students learn beginning Russian; no prior exposure to the Russian language is required. Students will primarily learn to speak and understand spoken Russian, and they will also learn how to read and write basic Russian. They will gain knowledge of the Russian culture and become aware of both Russian history and current events.

Prerequisites: None.

Duration: 2 semesters Rosetta Stone

WLNG15811	Russian I A	NCAA
WLNG15812	Russian I B	NCAA

Russian II

Students learn how to navigate their surroundings and build on the vocabulary and essential language structure in Level 1. They are able to talk about giving and getting directions, using transportation, telling time, dining out, enjoying basic social interactions, and much more. They will continue to explore Russian culture.

Prerequisites: Russian I.

Duration: 2 semesters. Rosetta Stone

WLNG15821	Russian II A	NCAA
WLNG15822	Russian II B	NCAA

Russian III

Students connect with the world around them by building on the language fundamentals and conversational skills developed in Levels 1 and 2. They share ideas and opinions, expressing feelings, and talking about everyday life, interests, work, current events and much more. They will continue to explore Russian culture.

Prerequisites: Russian II.

Duration: 2 semesters Rosetta Stone

WLNG15831	Russian III A	NCAA
WLNG15832	Russian III B	NCAA

Spanish I

Students learn beginning Spanish; no prior exposure to the Spanish language is required. Students will primarily learn to speak and understand spoken Spanish, and they will also learn how to read and write basic Spanish. They will gain knowledge of the Spanish culture and become aware of both Spanish history and current events.

Prerequisites: None.

Duration: 2 semesters. RS or Middlebury

WLNG15911	Spanish I A	NCAA
WLNG15912	Spanish I B	NCAA

Spanish II

Students learn how to navigate their surroundings and build on the vocabulary and essential language structure in Level 1. They are able to talk about giving and getting directions, using transportation, telling time, dining out, enjoying basic social interactions, and much more. They will continue to explore Spanish culture.

Prerequisites: Spanish I.

Duration: 2 semesters RS or Middlebury

WLNG15921	Spanish II A	NCAA
WLNG15922	Spanish II B	NCAA

Spanish III

Students connect with the world around them by building on the language fundamentals and conversational skills developed in Levels 1 and 2. They share ideas and opinions, expressing feelings, and talking about everyday life, interests, work, current events and much more. They will continue to explore Spanish culture and become aware of both Spanish history and current events.

Prerequisites: Spanish II.

Duration: 2 semesters RS or Middlebury

WLNG15931	Spanish III A	NCAA
WLNG15932	Spanish III B	NCAA



Parco del Valentino Turin, Italy

Spanish IV

Spanish IV builds upon competencies mastered in Spanish I-III, reaching a level of fluency to communicate clearly in the workplace and other settings. Students are able to understand and interpret written and spoken language on a variety of topics, and they also use Spanish to present information, concepts, and ideas to an audience of listeners or readers on a variety of topics. Continuing their cultural studies, they acquire information and recognize the distinctive viewpoints that are only available through the target language and its culture.

Prerequisites: Spanish III.

Duration: 2 semesters

Rosetta Stone

WLNG15941	Spanish IV A	NCAA
WLNG15942	Spanish IV B	NCAA

Spanish V

Students refine communication skills and make use of everything learned in Spanish I - IV. Student use the French to learn about and discuss various topics, including entertainment, culture, government, and economics.

Prerequisites: Spanish IV.

Duration: 2 semesters

Rosetta Stone

WLNG15951	Spanish V A	NCAA
WLNG15952	Spanish V B	NCAA



Visual & Performing Arts

Three credits of World Languages/Fine Arts/CTE are required to graduate from CMASAS. These can be combination of any courses from World Language, Fine Arts, or CTE.

Students have a variety of options for visual and performing arts classes, and they are also encouraged to integrate the arts throughout their other areas of study.

Online art classes are personalized to individual student skills levels and focus areas of interest. Students can anticipate regular communication and guidance from an instructor, helping them refine their skills at each level. Email, Skype, phone, and the live online classroom are commonly used to share artwork and to receive feedback and guidance.

While beginning level courses can be completed using freely- available programs and common household items (i.e. pencil), students are strongly encouraged to obtain industry standard materials for advanced level of study. Student status can be used for education discount vendors.

Some courses are designed to document and incorporate current student activities in the arts. Dance, Musical Performance, and Theatrical Performance are for students who are actively involved in courses or who are professional performers seeking to further develop their skills. Studio Arts is another class that can easily incorporate student involvement in the arts, again with a focus on personal and professional development.

Students typically submit work using a scanner or digital camera to create an image to email or upload into the classroom, or by presenting via webcam.

In addition to taking visual and performing art courses, students are encouraged to integrate art throughout their other courses. Many assignments will give options that include various forms of art, and students are encourage to propose alternate assignments that demonstrate learning of the same concept while allowing for additional creativity.

Art in World Culture

Who is the greatest artist of all time? Is it Leonardo daVinci? Claude Monet? Michelangelo? Pablo Picasso? Is the greatest artist of all time someone whose name has been lost to history? You will learn about some of the greatest artists while also creating art of your own, including digital art. We will explore the basic principles and elements of art, learn how to critique art, and examine some of the traditional art of the Americas, Africa, and Oceania in addition to the development of Western art.

Prerequisites: None.

Duration: 1 semester eDynamic

VAPA16013 Art in World Culture

Cinema as Literature

See course description in the [English/Language Arts section](#).

Prerequisites: None; Expository Composition recommended.

Duration: 1 semester PEG

ENG11511 Cinema as Literature

Dance

Students perceive and respond, using the elements of dance. They demonstrate movement skills, process sensory information, and describe movement, using the vocabulary of dance. They apply choreographic principles, processes, and skills to create and communicate meaning through the improvisation, composition, and performance of dance. Students analyze the function and development of dance in past and present cultures throughout the world, noting human diversity as it relates to dance and dancers. Students critically assess and derive meaning from works of dance, performance of dancers, and original works according to the elements of dance and aesthetic qualities. Students apply what they learn in dance to learning across subject areas, and explore career possibilities in dance.

Prerequisites: None.

Duration: 2 semesters PEG

VAPA16211 Dance A
VAPA16212 Dance B

Design, Beginning

The world of the visual arts and communication is surveyed from multiple perspectives in this course. Students develop and apply the elements and principles of art, as well as social and historical context, as they gain skills in the critical analysis and interpretation of art. In addition to developing art perception skills, creative expression and art history are surveyed from around the world. Students have choices in how they demonstrate understanding. Projects involve the application of the elements and principles of design to an assortment of visual communication situations. Depending on student interest, the purchase of some art materials may be needed. Work is submitted by digital photography and email.

Prerequisites: None.

Duration: 1 semester PEG

VAPA16311 Beginning Design

Design, Intermediate

This course is directed towards students intending to pursue art and design education and careers after high school. With Advanced Design, students continue with topics from Intermediate Design with greater sophistication. Projects involve the application of the elements and principles of design to an assortment of visual communication situations. Graphic, fashion, product, packaging, interior, architectural, publication, culinary, and photographic design are examples of possible areas for the application of design skills and aesthetics. The course will be complete with the production and presentation of a comprehensive design project. This project can be planned to align with portfolio requirements for admission to college art and design programs. Depending on student interest, the purchase of some art materials may be needed.

Prerequisites: Beginning Design or equivalent skills.

Duration: 1 semester PEG

VAPA16312 Intermediate Design

Design, Advanced

This course is directed towards students intending to pursue art and design education and careers after high school. With Advanced Design, students continue with topics from Intermediate Design with greater sophistication. Projects involve the application of the elements and principles of design to an assortment of visual communication situations. Graphic, fashion, product, packaging, interior, architectural, publication, culinary, and photographic design are examples of possible areas for the application of design skills and aesthetics. The course will be complete with the production and presentation of a comprehensive design project. Depending on student interest, the purchase of some art materials may be needed.

Prerequisites: Intermediate Design or equivalent.

Duration: 1 semester PEG

VAPA16313 Advanced Design

Digital Photography, Beginning

The course begins with a survey of the science and technology of digital photography as students become familiar with their particular camera(s). As students gain proficiency in camera handling skills in a variety of common situations, understanding of essential design principles is developed. Composition and lighting are key areas of emphasis. A series of projects will be completed, involving a range of common photographic situations and subjects. A main goal for the course is for students to be able to work with a fairly wide range of subjects in different lighting situations and distances. The elements and principles of design are related to photographic media. Critical analysis of photographs. digital photograph organization, editing and storage, and the basic skills of working with digital editing software are introduced.

Prerequisites: None.

Duration: 1 semester PEG

VAPA16411 Beginning Digital Photography

Digital Photography, Intermediate

The development of proficiency with photography techniques continues with this course. More advanced composition and lighting situations are explored. Student's gain more advanced working understanding of digital photography technology and how this relates to the art of digital photography. Photography as a fine art is emphasized throughout the course. Contemporary and historic photographs are critically examined and understandings applied to students' work. The use of image editing software is expanded while students work with more demanding subjects and more sophisticated techniques. Use of Digital SLR camera is highly recommended.

Prerequisites: Beginning Photography or equivalent skills.

Duration: 1 semester PEG

VAPA16412 Intermediate Digital Photography

Digital Photography, Advanced

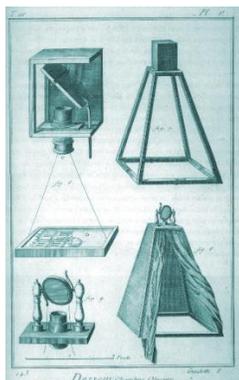
Development of proficiency with photography techniques continues with this course. More advanced composition and lighting situations are explored. Student's gain more advanced working understanding of digital photography technology and how this relates to the art of digital photography. Photography as a fine art is emphasized throughout the course. Contemporary and historic photographs are critically examined and understandings applied to students' work. The use of image editing software is expanded while students work with more demanding subjects and more sophisticated techniques. Students are able to focus on particular subjects of interest for projects. The production and presentation of a portfolio of projects is required. This course is especially recommended for students intending to pursue arts and photography education and careers beyond high school. Particular emphasis is placed on the production of a refined body of photographic work or a portfolio for admission to post-secondary art programs. Digital SLR Camera is required. Photo editing software with layer is required. GIMP is an open-source digital editor and is recommended. Adobe Photoshop is highly recommended.

Prerequisites: Intermediate Photography or equivalent skills.

Duration: 1 semester

PEG

VAPA16413 Advanced Digital Photography



Photographers deal in things that are continually vanishing and when they have vanished there are no contrivance on earth, which can make them come back again.

~Henri Cartier-Bresson

Digital Publishing, Beginning

A blending of the creativity, techniques, and design used to produce refined print or online e-publications. Examples of contexts include, but are not limited to, books, ebooks, slide presentations, websites or blogs, multimedia videos, graphic novels, and infographics. The Digital Publication course is highly customized to students' interests and needs; however, the emphasis will be on the process of going from conceptualization through development, revising, and production of effective communication items. The application of the elements and principles of design, visual problem-solving, and critical analysis of design products will be emphasized.

Because Digital Publication is highly customized, students need to expect to be in regular communication with the instructor. Often, meeting directly through online Adobe Connect office or Skype is needed for work review and direct demonstration of particular techniques with specific software. An optional weekly office hour for this course will be available.

There is the option for students to work with projects in a collaborative manner. If this is of interest, involvement with the Arts Club is recommended. Students wanting to work with the school yearbook or other publications can earn credit through Digital Publications.

Prerequisites: None.

Duration: 1 semester

PEG

VAPA16441 Digital Publishing, Beginning

Drawing, Beginning

Beginning Drawing is for those students with little or no prior drawing experience. Basic skills in dry and wet drawing media will be introduced and practiced. Students will survey current and past drawing works of artists from around the world to develop an appreciation of the diverse ways drawing is approached and applied. A working vocabulary will be developed as the elements and principles of art are applied to the art of drawing, Emphasis is placed on grey-scale drawing, although students may elect to include color in their pieces. The basic principles of perspective are introduced. Drawing styles ranging from abstract, through semi-abstract, to representational will be explored. This course serves as a foundation course for continuing study in fine arts. Along with specific, skill-focused assignments, students will complete a portfolio of pieces demonstrating the range of skills and concepts developed during the course. This course is highly customized to fit with students' prior experience and goals for drawing. As such, weekly, or biweekly phone or online meetings can be expected. If these are not feasible, frequent email communication is essential. Purchase of a modest list of art materials may be needed.

Prerequisites: None.

Duration: 1 semester PEG

VAPA16111 **Beginning Drawing**

Drawing, Intermediate

Basic skills in dry and wet drawing media will be expanded and practiced. Students will survey current and past drawing works of artists from around the world to develop an appreciation of the diverse ways drawing is approached and applied. A working vocabulary will be developed as the elements and principles of art are applied to the art of drawing, Emphasis is continued on grey-scale drawing, although color has significant importance. The basic principles of perspective are expanded. Digital drawing and painting is introduced. Along with specific, skill-focused assignments, students will complete a portfolio of pieces demonstrating the range of skills and concepts developed during the course. Depending on specific student interest, the purchase of additional art materials may be needed.

Prerequisites: Beginning drawing or equivalent skills.

Duration: 1 semester PEG

VAPA16112 **Intermediate Drawing**

Drawing, Advanced

Advanced Drawing is for those students interested in developing fluent drawing skills. Students should be familiar with the use of the elements and principles of art to represent depth and perspective. Intermediate drawing skills are expanded upon according to students' particular interests. Along with specific, skill-focused assignments, students will complete a portfolio of pieces demonstrating the range of skills and concepts developed during the course. Depending on specific student interest, the purchase of additional art materials may be needed. Emphasis is placed and producing a significant body of work based on a particular theme. This may include portfolio pieces to be used for art college admission.

Prerequisites: Intermediate Drawing or equivalent skills.

Duration: 1 semester PEG

VAPA16113 **Advanced Drawing**

Painting, Beginning

Basic skills for acrylic media are introduced and practiced. Students survey current and past paintings of artists from around the world and diverse ways painting is approached and applied. Emphasis on designing paintings, color mixing, and basic paint application techniques. Styles ranging from abstract, through semi-abstract, to representational will be explored. Along with specific, skill-focused assignments, students will complete a portfolio of pieces demonstrating the range of skills and concepts developed. Students will need acrylic media and supplies. A list of recommended paint, brushes and related can be requested prior to student enrollment in the course.

Prerequisites: None.

Duration: 1 semester

PEG

VAPA16713 Beginning Painting

Painting, Intermediate

Intermediate Painting is for those students with prior beginning –level painting experience. Students should be familiar with the use of the elements and principles of art to represent depth and perspective. Basic skills in acrylic media will be expanded and practiced. Students may want to begin work with oil, watercolors, gouache (opaque watercolor), pastels or mixed-media. Students will survey current and past works of artists from around the world to develop an appreciation of the diverse ways painting is approached and applied. A working vocabulary will be developed as the elements and principles of art are applied to the art of painting. Emphasis is continued on building technical and artistic paint-handling skills. The mixing and use of color continues as a major topic. The basic principles of perspective are expanded and used to generate depth in paintings. Painting styles, ranging from abstract, through semi-abstract, to representational will be explored. The related use of digital painting is continued. This course contributes to continuing study in commercial and fine arts. Along with specific, skill-focused assignments, students will complete a portfolio of pieces demonstrating the range of skills and concepts developed during the course. A list of materials and sources can be obtained from the instructor prior to registration in the course.

Prerequisites: Beginning Painting or equivalent skills.

Duration: 1 semester

PEG

VAPA16714 Intermediate Painting

“The world is but a canvas to the imagination.”

~ Henry David Thoreau

“If you hear a voice within you say, ‘You cannot paint,’ then by all means paint, and that voice will be silenced.”

~Vincent van Gogh



"Canyon Splendor" by Lynne Dolph, Artist & CMASAS

Painting, Advanced

Advanced Painting is for those students with prior intermediate –level painting experience. Students should be familiar with the use of the elements and principles of art to represent depth and perspective. Advanced skills in water-based, oil, or other media will be expanded and practiced. Students will survey current and past works of artists from around the world to develop an appreciation of the diverse ways painting is approached and applied. Students will apply the elements and principles of art along with critical analysis of paintings to make intentional decision to achieve goals in their work.

Emphasis is continued on building technical and artistic paint-handling skills. Painting styles, ranging from abstract, through semi-abstract, to representational will be explored. The related use of digital painting is continued. This course contributes to continuing study in commercial and fine arts. Along with specific, skill-focused assignments, students will complete a portfolio of pieces demonstrating the range of skills and concepts developed during the course. This work is particularly well suited to the preparation or portfolios for admission into college art and design programs.

A list of materials and sources can be obtained from the instructor prior to registration in the course based on student interest.

Prerequisites: Intermediate Painting or equivalent skills.

Duration: 1 semester PEG

VAPA16715 **Advanced Painting**

“Every artist dips his brush in his own soul, and paints his own nature into his pictures.”

~ Henry Beecher



Studio Arts

Studio Arts is for students who are engages in hands-on activities to learn, produce, refine, present, and evaluate arts. Examples of art forms include painting, sculpture in various media including ceramics and porcelain, and mixed-media productions. An individual plan is created with a teacher, focusing on personal development and learning goals in addition to logging the necessary number of hours for credit.

Prerequisites: None.

Duration: 2 semesters PEG

VAPA16711 **Studio Arts A**
VAPA16712 **Studio Arts B**

Theatrical Performance

Student engages in learning and practice of drama/acting theory and techniques as applied to theatrical performance. This course is meant for students receiving acting lessons through community course instructors, involved as an actor in the production of plays, and/or for students involved in the production of their work. An individual plan is created with a teacher, focusing on personal development and learning goals in addition to logging the necessary number of hours for credit. Students observe their environment and respond, using the elements of theatre. Students analyze the role and development of theatre, film/video, and electronic media in past and present cultures throughout the world, noting diversity as it relates to theatre. Students apply what they learn in theatre, film/video, and electronic media across subject areas. They develop competencies and creative skills in problem solving, communication, and time management that contribute to lifelong learning and career skills. They also learn about careers in and related to theatre.

Prerequisites: None.

Duration: 2 semesters PEG

VAPA16941 **Theatrical Performance A**
VAPA16642 **Theatrical Performance B**

Special Topics in Fine Arts

Student-created course for elective credit. Allows student to explore a personal, academic, or career interest area that is not currently offered by the course catalog. See the "Special Topics" section of the catalog for more information.

Prerequisites: Adequate skills and knowledge for course success.

Duration: up to 2 semesters Custom

VAPA16911 Special Topics in Fine Arts A
VAPA16912 Special Topics in Fine Arts B

Special Topics in Performing Arts

Student-created course for elective credit. Allows student to explore a personal, academic, or career interest area that is not currently offered by the course catalog. See the "Special Topics" section of the catalog for more information.

Prerequisites: Adequate skills and knowledge for course success.

Duration: up to 2 semesters Custom

VAPA16921 Special Topics in Performing Arts A
VAPA16922 Special Topics in Performing Arts B

Special Topics in Visual Arts

Student-created course for elective credit. Allows student to explore a personal, academic, or career interest area that is not currently offered by the course catalog. See the "Special Topics" section of the catalog for more information.

Prerequisites: Adequate skills and knowledge for course success.

Duration: up to 2 semesters Custom

VAPA16931 Special Topics in Visual Arts A
VAPA16932 Special Topics in Visual Arts B



Career & Technical Education

Three credits of World Languages/Fine Arts/CTE are required to graduate from CMASAS. These can be combination of any courses from World Language, Fine Arts, or CTE.

Today's cutting-edge, rigorous and relevant career and technical education (CTE) prepares youth and adults for a wide range of high-wage, high-skill, high-demand careers.

What is Career and Technical Education?

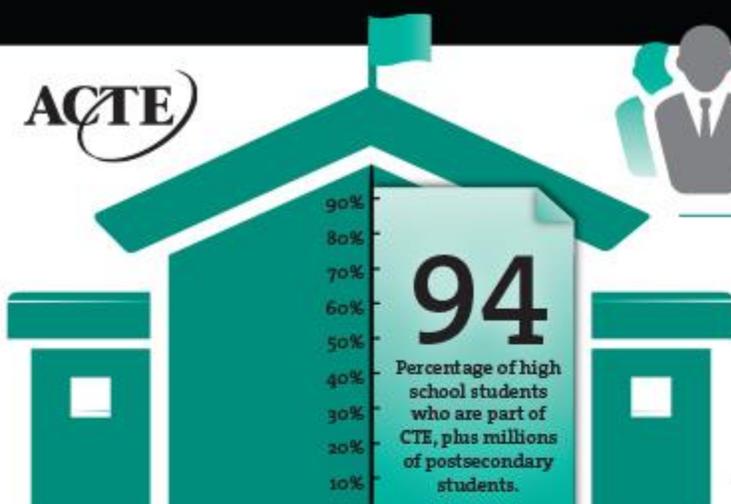




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Association for Career and Technical Education
1410 King Street
Alexandria, VA 22314
Toll-free: 800-826-9972
www.acteonline.org
Connecting Education and Careers

Agriculture, Principles of

Did you know that the world’s population could be as high as 11 billion people by the year 2050? And certainly, as our population is growing, so too are our food needs. Even today, millions of people around the world experience hunger. How can we balance growing populations and keeping everyone fed? This is where the importance of agriculture, food, and natural resources comes in! Through the study of Principles of Agriculture: Food and Natural Resources, you will gain a stronger sense of how food ends up on the plate and how we can maximize the foods and natural resources the earth provides. You’ll learn more about agriculture’s history, animal husbandry, plant science, and natural resources, and you’ll be better prepared for your part in sustaining the world.

Prerequisites: None.

Duration: 1 semester eDynamic

CTE18131 Principles of Agriculture

Agriscience, Introduction to

In this course, students learn about the development and maintenance of agriculture, animal systems, natural resources, and other food sources. Students also examine the relationship between agriculture and natural resources and the environment, health, politics, and world trade.

Prerequisites: None.

Duration: 1 semester eDynamic

CTE18111 Introduction to Agriscience

Agriscience II

Have you ever strolled past a bright green cauliflower at the market and paused to ponder its unusual color? Ever wonder why “broccolini” is suddenly a thing? Well, if you find yourself curiously questioning these, and other, peculiar vegetables and wondering about the role of agriculture in the modern world, Agriscience II is for you. Learn how science and technology are revolutionizing our food supply and promoting innovative ways to produce healthy plant-based foods, such as developing better hybrids and growing edible plants in challenging places. Food is our most essential resource; see how plant science will change the face of eating in the 21st century and give us the knowledge to continually improve our green thumbs.

Prerequisites: None.

Duration: 1 semester eDynamic

CTE18121 Agriscience II

Applied Leadership

Students engage in activities that require the application of leadership skills. Students complete 90 or more hours of involvement in activities such as student government, community service, charitable organizations, proactively serving a cause, overseeing a group to solve a specific program, and other activities that require the student to learn and meet leadership competencies in communication, technology, organizational skills, and personal responsibility and integrity.

Prerequisites: None.

Duration: 1 semester PEG

CTE18112 Applied Leadership

Career Planning

Students evaluate their interests, skills, and preferences; this can include personality type, innate talents, training, values, hobbies, and topics of interest. They research and compare a variety of career options, and analyze for each the job description, salary expectations, job outlook, and the training and skills required. They build a career portfolio of a resume, references, sample letters that can be adjusted for future use, and other items that one might want to showcase. They evaluate personal and career goals, and create a career plan that incorporates personal preferences and goals. Students also learn about workplace safety, procedures, and expectations, with an emphasis on personal responsibility.

Prerequisites: None.

Duration: 1 semester PEG

CTE18211 Career Planning

Childhood Development

Childhood development is aimed at promoting knowledge and skills important for parenting and for working with children of many ages. Students learn about different phases of childhood development, from prenatal to adolescence, and explore the physical, emotional, and intellectual changes and needs of each age group. Students gain an appreciation for children and their needs, understand the responsibilities of parenting and the value of strong families, and learn about children's health and safety needs. Students also explore careers involving working with children.

Prerequisites: None.

Duration: 1 semester PEG

CTE18212 Childhood Development

Criminology

See course description in the [Social Studies Section](#).

Prerequisites: None.

Duration: 1 semester eDynamic

SOC13713 Criminology

Cosmetology

Interested in a career in cosmetology? This course provides an introduction to the basics of cosmetology. Students will explore career options in the field of cosmetology, learn about the common equipment and technologies used by cosmetologists, and examine the skills and characteristics that make someone a good cosmetologist. Students will also learn more about some of the common techniques used in caring for hair, nails, and skin in salons, spas, and other cosmetology related businesses.

Prerequisites: None.

Duration: 1 semester eDynamic

CTE18213 Cosmetology

Computer Fundamentals

Students learn key skills and programs commonly used in the world of work and in colleges. They develop knowledge of computer basics and use an operating system. They apply document processing skills in the production of various business communications. They also learn spreadsheet basics, including using data to create charts, and learn how to create and present electronic presentations. Students gain a foundation in using the Internet, including online navigation and search skills and how to use email. Ethics and legal considerations are also covered.

Prerequisites: None.

Duration: 1 semester PEG

CTE18011 Computer Fundamentals

Culinary Arts

Students explore the food service industry, including career options and how to become a culinary professional. They learn culinary safety and sanitation requirements, and discuss key elements of a professional kitchen. They learn about nutrition, using recipes, and menu creation. Students also learn about and practice various cooking and baking techniques. This class is available exclusively through the student-designed option.

Prerequisites: None.

Duration: 1 semester PEG

OCC18311 Culinary Arts

Digital Video Production

See course description in the [VAPA section](#).

Prerequisites: None.

Duration: 1 semester PEG

CTE18314 Digital Video Production

Early Childhood Education

Children experience enormous changes in the first few years of their lives. They learn to walk, talk, run, jump, read and write, among other milestones. Caregivers can help infants, toddlers, and children grow and develop in positive ways. This course is for students who want to influence the most important years of human development. In the course, students learn how to create fun and educational environments for children; how to keep the environment safe for children; and how to encourage the health and well-being of infants, toddlers, and school-aged children.

Prerequisites: None.

Duration: 1 semester eDynamic

CTE18312 Early Childhood Education

Engineering & Technology, Concepts of

What if you could do the impossible? Engineers understand a lot of things, but the word *impossible* definitely isn't one of them. Through Concepts of Engineering and Technology, you'll learn how the momentum of science is continually propelling engineers in new directions towards a future full of insight and opportunity. This course explores the different branches of engineering and how problem-solving, sketching, collaboration, and experimentation can change the very fiber of our human lives. This ever-increasing knowledge can also lead to serious ethical dilemmas and the need to discuss where the boundaries of science lie (or even if there should be boundaries). By examining astounding engineering feats and complex ongoing issues, you, too, will begin to question whether the word *impossible* really exists.

Prerequisites: None.

Duration: 1 semester eDynamic

CTE18221 Engineering & Technology

Entrepreneurship, Introduction to

Do you dream of owning your own business? This course can give you a head start in learning about what you'll need to own and operate a successful business of your own. Students will explore creating a business plan, financing a business, and pricing products and services. Students will also learn more about the regulations that apply to businesses, marketing products and services, and the legal and ethical guidelines that govern businesses.

Prerequisites: None.

Duration: 1 semester eDynamic

CTE18313 Introduction to Entrepreneurship

Fashion & Interior Design

Do you have a flair for fashion? Are you constantly redecorating your room? If so, the design industry might just be for you! In this course, you'll explore what it is like to work in the industry by exploring career possibilities and the background that you need to pursue them. Get ready to try your hand at designing as you learn the basics of color and design then test your skills through hands-on projects. In addition, you'll develop the essential communication skills that build success in any business. By the end of the course, you'll be well on your way to developing the portfolio you need to get your stylishly clad foot in the door of this exciting field.

Prerequisites: None.

Duration: 1 semesters eDynamic

CTE18221 Fashion Design

Fashion Design

Students begin with Fashion Design A by gaining an overview of fashion design and the fashion design industry, including career paths within the field. They analyze the purposes of clothing, and the many influences on clothing choices. They learn about fashion history and current trends, including famous fashion designers. Students analyze the importance of color in fashion design and the selection of clothing for each individual. They also analyze and describe textile fibers and fabrics, and how they are created, and evaluate fabric for use with different designs and purposes. They evaluate clothing selections for oneself and others based on purpose, fit, quality, price, and other factors. Students continuing on to Fashion Design B demonstrate the ability to design and use sewing patterns, including the machines and equipment, sewing techniques, and basic construction of clothing.

Prerequisites: none.

Duration: 2 semesters PEG

CTE18411 Fashion Design A
CTE18412 Fashion Design B

Game Design I

Are you a gamer? Do you enjoy playing video games or coding? Does the idea of creating and designing your own virtual world excite you? If so, this is the course for you! Tap into your creative and technical skills as you learn about the many aspects involved with designing video games. You will learn about video game software and hardware, various gaming platforms, necessary technical skills, troubleshooting and internet safety techniques, and even the history of gaming. And to top it all off, you'll even have the opportunity to create your very own plan for a 2D video game! Turn your hobby into a potential career and go from simply being a player in a virtual world to actually creating one.

Prerequisites: None.

Duration: 1 semester eDynamic

CTE18421 Game Design I

Hospitality & Tourism

With greater disposable income and more opportunities for business travel, people are traversing the globe in growing numbers. As a result, hospitality and tourism is one of the fastest growing industries in the world. This course will introduce students to the hospitality and tourism industry, including hotel and restaurant management, cruise ships, spas, resorts, theme parks, and other areas. Student will learn about key hospitality issues, the development and management of tourist locations, event planning, marketing, and environmental issues related to leisure and travel. The course also examines some current and future trends in the field.

Prerequisites: None.

Duration: 1 semester eDynamic

CTE18511 Hospitality & Tourism

International Business

The course further provides students a conceptual tool by which to understand how economic, social, cultural, political and legal factors influence both domestic and cross-border business. Business structures, global entrepreneurship, business management, marketing, and the challenges of managing international organizations will all be explored in this course. Students will cultivate a mindfulness of how history, geography, language, cultural studies, research skills, and continuing education are important in both business activities and the 21st century.

Prerequisites: None.

Duration: 1 semester eDynamic

CTE18512 International Business

Keyboarding

Students learn touch-typing skills with proper finger placement, building both accuracy and speed. Students should be able to type all letters and numbers with 80% or better accuracy at 24 wpm by the end of Keyboarding A. Students should achieve 35 wpm at 90% or better accuracy by the end of Keyboarding B, and this includes typing with punctuation marks and capital letters.

Prerequisites: None.

Duration: 2 semesters PEG

CTE18411 Keyboarding A

CTE18412 Keyboarding B

Peer Counseling

Helping people achieve their goals is one of the most rewarding of human experiences. Peer counselors help individuals reach their goals by offering them support, encouragement, and resource information. This course explains the role of a peer counselor, teaches the observation, listening, and emphatic communication skills that counselors need, and provides basic training in conflict resolution, and group leadership. Not only will this course prepare you for working as a peer counselor, but the skills taught will enhance your ability to communicate effectively in your personal and work relationships.

Prerequisites: None.

Duration: 1 semester eDynamic

CTE18711 Peer Counseling

Personal Finance

This course will provide a foundation for making informed personal financial decisions leading to financial independence. Real world topics will be covered such as income, money management, spending and credit. Students will design personal budgets utilizing checking and savings accounts, gain knowledge in finance, debt and credit management and investments.

Prerequisites: None.

Duration: 1 semester CLO

CTE18815 Personal Finance

Real World Parenting

The process of parenting is more than just having a child and making sure they eat, sleep and get to school on time. Learn what to prepare for, what to expect, and what vital steps a parent can take to create the best environment and life for their child. Parenting roles and responsibilities; nurturing and protective environments for children; positive parenting strategies and effective communication in parent/child relationships are some of the topics covered in this course.

Prerequisites: None.

Duration: 1 semester eDynamic

CTE18712 Real World Parenting

Senior Seminar

This course is instructed by the school counselor and is meant to help seniors prepare for graduation and post high school endeavors.

Prerequisites: None.

Duration: 1 semester PEG

CTE18713 Senior Seminar

Theater, Cinema & Film Production

Lights! Camera! Action! This course will introduce students to the basics of film and theater productions. Students will learn about the basics of lighting, sound, wardrobe, and camerawork for both film and theater settings. The course also explores the history of film and theater and the influence that they have had on society. Students will analyze and critique three influential American films, Casablanca, Singin' in the Rain, and The Wizard of Oz.

Prerequisites: None.

Duration: 1 semester eDynamic

CTE18813 Theater, Cinema & Film Production

Veterinary Science

See course description in the [Science section](#).

Prerequisites: None.

Duration: 1 semester eDynamic

CTE18214 Veterinary Science

Web Design

Essential web design skills are learned, giving students a voice on the Internet. Students complete several guided projects and then develop their own web site. Web design essentials are covered throughout in examples and activities. Beginning with planning a website and moving on to storyboarding, page design, layout and template issues are also covered. From there, students learn to create backgrounds, headers, and buttons. Students learn to use templates, create rollovers and pop-ups, develop image maps, and add animations.

Prerequisites: None.

Duration: 2 semesters PEG

CTE18811 Web Design A

CTE18812 Web Design B

Special Topics in CTE

Student-created course for elective credit. Allows student to explore a personal, academic, or career interest area that is not currently offered by the course catalog. See the "Special Topics" section of the catalog for more information.

Prerequisites: Adequate skills and knowledge for course success.

Duration: up to 2 semesters Custom

CTE18911	Special Topics in Occupational Education A
CTE18912	Special Topics in Occupational Education B

Special Topics in Technology

Student-created course for elective credit. Allows student to explore a personal, academic, or career interest area that is not currently offered by the course catalog. See the "Special Topics" section of the catalog for more information.

Prerequisites: Adequate skills and knowledge for course success.

Duration: up to 2 semesters Custom

CTE18913	Special Topics in Technology A
CTE18914	Special Topics in Technology B

Honors

“No person was ever honored for what he received. Honor has been the reward for what he gave.” ~Calvin Coolidge

Description of Honors Program

Honors courses require students to engage in activities that develop personal character while also serving their community or beyond. These activities are at a higher level of learning per Bloom’s taxonomy: analyze, evaluate, and/or create¹. Activities should be completed conscientiously as a demonstration of the student’s best work. See list of courses currently eligible for honors designation; a student can submit a request to have a course not currently on this list to be reviewed for eligibility.

A student can complete a single project or a series of projects, worth a total of 15-20 hours of work. Honors projects should directly relate to the course material in some way, but be an opportunity to learn at a greater depth or to expand upon a course concept. Honors project plans are developed by the student, with the guidance of his or her Educational Facilitator and course instructor; the plan must be approved by both the EF and the course instructor.

The Student Learning Plan will indicate that the course is an honors course by prefixing the course title with the word “Honors.” Upon enrollment, a student should preview the course to begin developing ideas for his or her project(s), and the sooner a student develops a project plan, the more likely some course assignments done along the way can be integrated into that plan. The EF and instructor have the final say regarding the plan proposal due date, but it is encouraged that students have an approved honors project plan by the mid-way point in their course.

Examples of Honors Projects

Example 1. Interview senior citizens to create an oral histories collection, and videotape these histories, editing them into a format for sharing. These can be stand-alone mini-documentaries or part of one larger documentary, depending on the focus of this project. Additional historical information, such as providing a voice-over with a photo or map, can be added to provide additional context. In addition to the item being turned in for course credit, it is also copied and distributed to places such as a historical society, local library, or even the Library of Congress.

Example 2. Volunteer time engaged in activities related to course concepts can include organizations such as the Forest Service, museums, historical society, humane society, or other service-orientated groups. One can also volunteer time helping local community members.

These are just a few examples to help generate some ideas. Students can also view the resources below for additional examples and ideas. Students are also encouraged to create their own unique proposals for their honors projects.

Proposal Components

Basic Information: Student’s first and last name, grade level, school, EF name, course instructor name

Course Title: name of the honors course for which the proposal is being made

Project Description: describe plan in detail, including timeline, and include the following:

- Bloom’s Taxonomy: explain how the project meets higher level learning.
- Personal Development: explain how this will develop the student’s personal character.
- Community Service: how will this serve the student’s community or beyond?
- Documentation: How will the project be presented to the instructor, including documentation/evidence of project completion? ²

¹ http://www.apa.org/ed/new_blooms.html

² Parent confirmation alone does not suffice for purposes of honors project documentation. Students are encouraged to provide a presentation, report, or final product that thoroughly demonstrates completion of the project.

Specialty Course Offerings

Advanced Placement

Students who opt for Advanced Placement courses are responsible for making the necessary arrangements for the AP exams, including signing up and paying for the exam and the transportation to the exam site.

Due to the precise nature of AP courses being geared towards preparation towards the AP test, the course is required to be completed as designed and using the materials required for the course. Also, AP courses often require the purchasing of additional materials, usually offline textbooks; purchasing these required materials is the responsibility of the student, and a list of such materials is provided in the course syllabus.

AP versus Dual Credit: Students in AP courses need to pass the AP exam to receive college credit. Students who instead choose to take a course directly from a college are granted both college *and* high school credit upon successful completion of the college course. For example, a quarter of college English that counts as 5 quarter college credits not only goes on the student's college transcript but also counts as a *full year* of high school English credit. Students need to select the option that would best serve their unique learning needs. Honors courses are also available.

AP course availability varies from one academic year to the next, and additional courses can become available mid-year. Check with your PEC for the current AP course offerings.

Student-Designed Course Option

While most students opt to complete a course "as-is" or perhaps with some minor tailoring of one or more parts, some students enjoy a more tailored option to align with their goals and needs. With the Student-Designed Course option, a student can design a course that meets all of the same learning goals as a pre-made course. The student uses the Common Core standards for math and English, or the course outlines for other courses, and creates a detailed course plan.

Student-designed courses must be approved prior to beginning. While the student's PEC and Instructor will provide feedback and need to approve the course plan, the design of the course is the work of the student (help from friends and family is fine!). Also note that students are responsible for obtaining all curriculum items not readily available through the school.

Credit for a Student-Designed Course is the same as for the pre-made courses because the student's course still meets the same learning goals and at the same mastery level.

Special Topics Courses

The Special Topics option allows a student to explore a personal, academic, or career interest area that is not currently offered by the course catalog. The course results in elective credit; for example, Special Topics in Mathematics does not count as one of the math credits required toward graduation, but it does count as an elective credit.

Note: students who simply want to integrate their own interests or activities to count toward a core credit area are encouraged to review the course catalog and consider the Student-Designed Course option.

The title of the course is selected from list below that best categorizes the course content:

- Special Topics in Mathematics
- Special Topics in Science
- Special Topics in Language Arts
- Special Topics in Literature
- Special Topics in Writing
- Special Topics in Communications
- Special Topics in Social Sciences
- Special Topics in History
- Special Topics in Fine Arts
- Special Topics in Performing Arts
- Special Topics in Visual Arts
- Special Topics in Career & Technical Education
- Special Topics in Technology
- Special Topics in Health

A Special Topics course must be pre-approved by the student's PEC and the instructor who will be overseeing the course. The student submits a proposal, uses feedback to refine it through an iterative process, and then completes the course as described in the approved proposal. Changes made mid-course must be pre-approved.

Each semester special topics course must comprise approximately 90 hours of learning and activities. This time can include both the learning and demonstration of the learning. Reading, researching, completing projects, and other activities related to the class can be counted toward this expected time requirement.

While a course can provide for a learning curve, scaffolding up to a desired level, the ultimate level of learning - as demonstrated by the end of the class- must be at a high school level or above.

Examples of special topics include a student working through the publishing process of a book, learning about mathematical geniuses through the ages, exploring a specific country or culture's literature, learning more about a key historical figure in depth, and applying a specific skill set to a large project or series of projects, among others.

Custom Courses

No matter how extensive the catalog offerings, sometimes a student needs a specialty course not currently provided. When a student-designed or special topics course will not serve this need, another option is available: a custom course.

A custom course is created by an instructional design team and placed into the learning management system (LMS). The school also obtains the necessary curriculum and makes that available through the LMS. Custom Courses need to be requested in advance to allow time for the design process, and wait time can vary depending on current design projects and whether timelines can be adjusted. A custom course request is not guaranteed to be accepted, but all requests are considered with an eagerness to accommodate. Due to the costs associated with creating a custom course, additional fees apply.

Graduation Requirements

	Minimum CMASAS Graduation Requirements	Minimum Requirements for Public, Four-Year Colleges & Universities	Recommended Courses for Highly-Selective Colleges & Universities
English	4 credits Include balanced program of literature, writing, and speech/communication.	4 credits 3 credits in composition and literature; recommend both American and World literature (including British literature).	4 credits 3 credits in composition and literature; recommend both American and World literature (including British literature).
Mathematics	3 credits Include Algebra I or higher.	3 credits Through Algebra II or higher.	3 credits Through Pre-Calculus or higher.
Science	3 credits Must include both a physical and a life science credit; must include at least two labs.	3 credits Two credits lab science, 1 credit physical and 1 credit life. At least one of the following: biology, chemistry, or physics.	3-4 credits Include both 1 credit physical lab science (physics and/or chemistry), and 1 credit life science (biology) lab science.
Social Studies	3 credits 1 credit world history, 1 credit U.S. history, 0.5 credit economics, and 0.5 credit government or civics.	3 credits To include 1 credit world history, 1 credit U.S. history, 0.5 credit economics, and 0.5 credit government or civics.	3-4 credits To include 1 credit world history, 1 credit U.S. history, 0.5 credit economics, and 0.5 credit government or civics.
World Language & Fine Arts & Career Technical Education	3 credits Any visual or performing art, including music and dance; and/or CTE; and/or world language Must include 0.5 credit of Personal Finance	2 credits of the same language	3-4 credits of the same language
		1 credit	2-3 credits
Health & Fitness	2 credits Must include a health class (0.5)	<ul style="list-style-type: none"> Students must earn at least 25% of minimum required graduation credits from CMASAS to qualify for a CMASAS diploma. Students must have a minimum 2.0 grade point average for coursework meeting college entrance requirements. Students should check with their college/university of choice to view their entrance requirements. 	
Electives	6 credits		
Total	24 credits		

Graduation Checklist

Students and facilitators use a graduation checklist to help students plan and keep track of their credits. All students need to meet the minimum CMASAS graduation requirements in order to earn a diploma, and flexibility is built into their program to allow them to personalize their course study to meet their personal goals and interests. Students planning on attending a university after graduation need to view the admissions requirements for their university(ies) of choice to ensure that they are completing coursework to meet these requirements. See the sample graduation checklists; the first one is for a student aiming for a state university of choice, and the second is for a student developing her own photography business and planning on attending an art college after graduation.

Graduation Checklist

Students must earn at least three credits from CMA SAS to qualify for a SAS diploma. Students should check with their college/university of choice to view their entrance requirements.

English	Course #	Course Title	Credit(s)	Term/Year
4 credits				
See English/Language Arts Options section in catalog for details.				
Mathematics	Course #	Course Title	Credit(s)	Term/Year
3 credits				
Must include Algebra I or higher.				
Social Studies	Course #	Course Title	Credit(s)	Term/Year
3 credits				
1 credit world history, 1 credit U.S. history, 0.5 credit economics, and 0.5 credit government or civics.				
Science	Course #	Course Title	Credit(s)	Term/Year
3 credits				
At least 1 credit life science and 1 credit physical science. 2 credits must include labs.				
Health & Fitness	Course #	Course Title	Credit(s)	Term/Year
2 credits				
At least 0.5 credits of health.				
Mandatory Elective Areas	Course #	Course Title	Credit(s)	Term/Year
3 credits				
Any combination of World Languages, Visual & Performing Arts, and Occupational Education				
Electives	Course #	Course Title	Credit(s)	Term/Year
6 credits				
Any credits exceeding the minimum requirements of other subject areas or in other categories of the student's choosing.				

Graduation Checklist

English	Course #	Course Title	Credit(s)	Term/Year
4 credits See English/Language Arts Options section in catalog for details.	ENG 11111	English I A	0.5	
	ENG 11112	English I B	0.5	
	ENG 11121	English II A	0.5	
	ENG 11212	English II B	0.5	
	ENG 11311	English III A	0.5	
	ENG 11312	English III B	0.5	
	ENG 11411	English IV A	0.5	
	ENG 11412	English IV B	0.5	
Mathematics	Course #	Course Title	Credit(s)	Term/Year
3 credits Must include Algebra I or higher.	MATH 12111	Algebra I A	0.5	
	MATH 12112	Algebra I B	0.5	
	MATH 12211	Geometry A	0.5	
	MATH 12212	Geometry B	0.5	
	MATH 12311	Algebra II A	0.5	
	MATH 12312	Algebra II B	0.5	
Social Studies	Course #	Course Title	Credit(s)	Term/Year
3 credits 1 credit world history, 1 credit U.S. history, 0.5 credit economics, and 0.5 credit government or civics.	SOC 13311	World History A	0.5	
	SOC 13312	World History B	0.5	
	SOC 13211	U.S. History A	0.5	
	SOC 13212	U.S. History B	0.5	
	SOC 13411	American Government	0.5	
	SOC 13001	State Studies	0.5	
Science	Course #	Course Title	Credit(s)	Term/Year
3 credits At least 1 credit life science and 1 credit physical science. 2 credits must include labs.	SCI 14211	Biology A	0.5	
	SCI 14212	Biology B	0.5	
	SCI 14311	Chemistry A	0.5	
	SCI 14312	Chemistry B	0.5	
	SCI 14551	Environmental Science A	0.5	
	SCI 14552	Environmental Science B	0.5	
Health & Fitness	Course #	Course Title	Credit(s)	Term/Year
2 credits At least 0.5 credits of health.	HPE 17010	Nutrition and Wellness	0.5	
	HPE 17201	PE Through Dance A	0.5	
	HPE 17151	Aquatic Activities A	0.5	
	HPE 17152	Aquatic Activities B	0.5	
Mandatory Elective Areas	Course #	Course Title	Credit(s)	Term/Year
3 credits Any combination of World Languages, Visual & Performing Arts, and Occupational Education	WLNG 15211	French I A	0.5	
	WLNG 15212	French I B	0.5	
	WLNG 15221	French II A	0.5	
	WLNG 15222	French II B	0.5	
	VAPA 16511	Cinema as Literature	0.5	
Electives	Course #	Course Title	Credit(s)	Term/Year
6 credits Any credits exceeding the minimum requirements of other subject areas or in other categories of the student's choosing, including transfer credits that do not apply to the above categories.	WLNG 15231	French III A	0.5	
	WLNG 15232	French III B	0.5	
	VAPA 16310	Beginning Design	0.5	
	SOC 13541	Introduction to Psychology	0.5	
	SOC 13571	Introduction to Classical Philosophy	0.5	
	SCI 14561	Forensic Science A	0.5	
	SCI 14562	Forensic Science B	0.5	
	SOC 12561	Survey of Religions	0.5	
	VAPA 16012	Art History	0.5	
	SOC 13120	Current World Issues and Politics	0.5	
	ENG 11591	Exploration of Myths and Legends	0.5	
SOC 13412	Principles of Economics	0.5		

Graduation Checklist

English	Course #	Course Title	Credit(s)	Term/Year
4 credits See English/Language Arts Options section in catalog for details.	ENG 11113	Expository Composition	0.5	
	ENG 11511	The Cinema as Literature	0.5	
	ENG 11531	Introduction to Journalism	0.5	
	ENG 11213	World Literature	0.5	
	ENG 11313	American Literature	0.5	
	ENG 11001	Effective Communication	0.5	
	ENG 11591	Exploration of Myths and Legends	0.5	
Mathematics	Course #	Course Title	Credit(s)	Term/Year
3 credits Must include Algebra I or higher.	MATH 12111	Algebra I A	0.5	
	MATH 12112	Algebra I B	0.5	
	MATH 12211	Geometry I A	0.5	
	MATH 12212	Geometry I B	0.5	
	Transfer credit	Accounting (local community coll)	1.0	
Social Studies	Course #	Course Title	Credit(s)	Term/Year
3 credits 1 credit world history, 1 credit U.S. history, 0.5 credit economics, and 0.5 credit government or civics.	SOC 13541	Introduction to Psychology	0.5	
	SOC 13001	State History	0.5	
	SOC 13211	U.S. History A	0.5	
	SOC 13212	U.S. History B	0.5	
	SOC 13411	American Government	0.5	
	SOC 13121	Current World Issues & Politics	0.5	
Science	Course #	Course Title	Credit(s)	Term/Year
3 credits At least 1 credit life science and 1 credit physical science. 2 credits must include labs.	SCI 14561	Forensic Science A	0.5	
	SCI 14562	Forensic Science B	0.5	
	SCI 14211	Biology A	0.5	
	SCI 14212	Biology B	0.5	
	SCI 14551	Environmental Science A	0.5	
	SCI 14552	Environmental Science B	0.5	
Health & Fitness	Course #	Course Title	Credit(s)	Term/Year
2 credits At least 0.5 credits of health.	HPE 17020	Nutrition and Wellness	0.5	
	HPE 17111	PE I A	0.5	
	HPE 17112	PE I B	0.5	
	HPE 17211	PE II A	0.5	
Mandatory Elective Areas	Course #	Course Title	Credit(s)	Term/Year
3 credits Any combination of World Languages, Visual & Performing Arts, and Occupational Education	VAPA 16310	Beginning Design	0.5	
	VAPA 16421	Intermediate Digital Photography	0.5	
	WLNG 15911	Spanish I A	0.5	
	WLNG 15912	Spanish I B	0.5	
		Marketing A	0.5	
	VAPA 16431	Advanced Digital Photography	0.5	
Electives	Course #	Course Title	Credit(s)	Term/Year
6 credits Any credits exceeding the minimum requirements of other subject areas or in other categories of the student's choosing, including transfer credits that do not apply to the above categories.	CTE 18312	Marketing B	0.5	
	CTE 18421	Personal Finance A	0.5	
	CTE 18422	Personal Finance B	0.5	
	CTE 18511	Web Design A	0.5	
	CTE 18221	Fashion Design A	0.5	
	CTE 18222	Career Planning	0.5	
	HPE 17010	Holistic Health	0.5	
	SOC 13412	Principles of Economics	0.5	
	CTE 18512	Web Design B	0.5	
	CTE18551	Presenting with Technology	0.5	
	SOC 13561	Survey of Religions	0.5	
	VAPA 16711	Studio Arts A	0.5	