



**EARLY COLLEGE  
EXPERIENCE**

**Course Guide**

(\*Pilot Program: contact office before applying)

See our website for Faculty Coordinators ([ece.uconn.edu/about/faculty-coordinators](http://ece.uconn.edu/about/faculty-coordinators))  
and course costs ([ece.uconn.edu/courses](http://ece.uconn.edu/courses))

**Allied Health Sciences**

**Faculty Coordinator:** Dr. Bruce Blanchard, Assistant Clinical Professor

**AH 1100: Introduction to Allied Health Professions**

**AH 2001: Medical Terminology**

**AH 4092: EMT Training**

The minimum degree requirement for instructors wishing to teach UConn ECE Allied Health courses can be met by either of the following options:

Option 1: Instructor should have a Health Science BS major or minor (however, applicants with a MS in a Health Science major will be considered); or

Option 2: Instructor will be certified to teach high school Chemistry or Biology. The first year of certification is provisional when the Department mentors the ECE instructor and oversees the implementation of the syllabus and instruction.

Other factors that contribute to certification include: prior teaching experience, work experiences in science/health related, and recommendations.

Certified instructors will work closely with the Allied Health Sciences Department to offer this class. Regular assessments and a final examination will come from the Allied Health Sciences Department. Additional assessments may be written by the ECE instructor and are approved by the Department.

Applicants for AH 2001 (Medical Terminology) should have documented coursework in the following areas: General Biology, General Chemistry, and Anatomy and Physiology (recommended).

**American Studies**

**Faculty Coordinator:** Ms. Laurie Wolfley, Lecturer; Dr. Matthew McKenzie, Associate Professor

**AMST 1201: Seminar in American Studies**

The minimum requirement for certification in American Studies are a Master's Degree in American Studies or a related Master's Degree from an accredited university and graduate-level training in both English and History. Applicants should have at least a Bachelor's Degree in American Studies; however, applicants with a Master's Degree in either English or History will be considered if in their coursework they took American Studies specific seminars, either in content or methods.

This course may be team taught between a History and English instructor, where each have at least bachelor and some graduate level training within their respective majors. Individual instructors with significant documented experience in teaching American Studies content may, under certain circumstances, also receive provisional certification within a mentoring program.

### **Animal Science**

**Faculty Coordinator:** Dr. Jenifer A. Nadeau, Associate Professor; Dr. Amy Safran, Lecturer

*\*Contact UConn ECE before applying as these courses runs in a limited number of Agriscience high schools only.*

**ANSC 1602: Behavior and Training of Domestic Animals\***

**ANSC 1676: Introduction to Companion Animals\***

**ANSC 2251: Horse Science\***

Option 1: Instructor should have an Animal Science BS major or minor; or Option 2: five years of experience teaching in an Agriscience high school. The first year of certification is provisional when the Department mentors the ECE instructor and oversees the implementation of the syllabus and instruction.

Certified instructors will work closely with the Animal Science Department to offer this class. Regular class exams are written by the ECE instructor and are approved by the Department. Final exam comes from the Animal Science Department at Storrs.

### **Anthropology**

**Faculty Coordinator:** Dr. Alexia Smith, Associate Professor

**ANTH 1000: Other People's Worlds\***

**ANTH 1500: Great Discoveries in Archeology\***

The preferred qualifications to become a fully certified Anthropology instructor through UConn ECE is a Bachelor's degree in Anthropology and a Master's degree in Anthropology or History with evidence of a high-level of content mastery.

Instructors may also be certified Provisionally for their first year of teaching the course if they have earned a Bachelor's degree in Anthropology, History, or a closely related subject area and a Master's degree from an accredited University/College (e.g., Education or related academic discipline). Provisionally approved Instructors will also need to audit UConn's ANTH 1000 (online) or 1500 (online) course before their first year of teaching Anthropology courses through UConn ECE. Provisional certification may be updated to full certification status after the completion of the provisional year upon review of the Faculty and UConn ECE Program.

Applicants may be asked for a phone interview.

### **Art**

**Faculty Coordinator:** Ms. Cora Lynn Deibler, Professor

**ART 1030: Drawing I**

The minimum degree requirement for teachers wishing to teach Early College Experience art courses is usually a Master of Fine Arts, although a candidate with a Master's in Education and appropriate background may be approved in exceptional situations. Samples of the applicant's personal and student work are a required piece of the application (15 - 20 pieces of instructor work; 15 - 20 pieces of student work).

Regarding student work, observed still life and perspective drawing examples are best for evaluation. Ideally, work is black and white and shows fundamentals of linear perspective, contour line, light and shadow, and an understanding of volume and composition. Student work may include observed figure or landscape, but the portfolio may not consist solely of these forms. Charcoal, graphite, and ink are preferable media. The use of color is not covered in ART 1030, Drawing I, and is not helpful when included in the student portfolio.

Samples must be submitted electronically. Acceptable formats include links provided to websites, or files shared from a Google Drive or Microsoft One Drive. JPG, TIFF, or PDF images are best. Multiple images may be compiled into one PDF portfolio as well, however each piece should be labeled and numbered as your own work or student work. Do not use PowerPoint or Keynote to compile work due to compatibility issues. If providing a website, please be clear regarding the specific examples that are to be reviewed.

Upon reviewing the application materials, the faculty coordinator in Art may wish to schedule an interview with the candidate or visit the teaching facilities. This on-site visit is a way to be introduced to the program and discuss possibilities for the course.

### Biological Sciences

**Faculty Coordinator:** Dr. Thomas Abbott, Assistant Professor in Residence

**Assistant Faculty Coordinator:** Dr. Christopher Malinoski, Laboratory Manager

#### **BIOL 1107: Principles of Biology I**

#### **BIOL 1108: Principles of Biology II**

The minimum degree requirement for instructors wishing to teach UConn ECE biology courses will be a Masters degree in a subject area, such as cell biology or animal physiology, and have at a minimum 3 years of teaching experience at or above the high school level in the biological sciences. Additionally, the candidate should present on transcripts a diverse and deep breadth of course work and laboratory course work as both an undergraduate and as a graduate student and per degree post a 3.00 or higher Total Science GPA. Of further note, each degree must be of Science: B.S., and M.S.. Applicants will not be considered unless they also provide a detailed lecture and lab syllabus for their proposed Bio1107/1108 courses with their application. Certification also requires an interview with the ECE Biology Coordinator at the Storrs campus.

Applicants for Biology 1107/1108 should have documented successful completion of coursework in the following areas:

- General Biology
- General Chemistry
- Organic Chemistry

Additionally, Biology 1107 applicants should present successful completion of previous course work in the following:

- Genetics
- Microbiology
- Cell biology
- Animal Physiology, Comparative Anatomy or Human Physiology
- One semester of Biochemistry is recommended

Additionally, Biology 1108 applicants should present successful completion of previous course work in the following:

- Plant Physiology or Botany
- Ecology or Environmental/ Conservation Science
- Invertebrate and Vertebrate Zoology
- Evolution Theory
- Animal behavior is recommended

Other factors that contribute to certification include prior teaching experience.

**Note:** The University's Biology Department will provide exit exams.

## Chemistry

**Faculty Coordinator:** Dr. Fatma Selampinar, Lecturer

### **CHEM 1127Q: General Chemistry I**

### **CHEM 1128Q: General Chemistry II**

The minimum degree requirement for instructors wishing to teach UConn Early College Experience chemistry courses is a Bachelor's of Science in Chemistry. A Master's degree in Chemistry is preferred. A candidate with a Master's in Education and a sufficiently strong and well balanced chemistry background may be also considered for certification. All candidates must have successfully completed:

- 2 semesters of general chemistry
- 2 semesters of organic chemistry
- 2 semesters of Analytical chemistry (1 semester lab, 1 semester lecture would be acceptable)
- 2 semesters of Inorganic chemistry (1 semester lab, 1 semester lecture would be acceptable)
- 2 semesters of Physical chemistry (1 semester lab, 1 semester lecture would be acceptable)

Note: Chemistry cannot be taught at a high school that runs on a block schedule. The University's Chemistry Department will provide examinations, laboratory assignments, and other resources to participating Instructors.

## Chinese

**Faculty Coordinator:** Dr. Chunsheng (George) Yang, Assistant Professor

### **CHIN 1114: Intermediate Chinese II**

Four credits. *Offered Full-year only.*

The minimum degree requirement for instructors wishing to teach UConn Early College Experience Chinese courses is a Master's Degree in Chinese or a Master's Degree in Education with at least two years of Chinese teaching; however, a candidate with a Bachelor's Degree in Chinese who has completed Chinese coursework at the graduate-level or who has taught Chinese for at least six years may be considered. Candidates may be interviewed by the Chinese faculty coordinator before certification is granted.

## Civil Engineering

**Faculty Coordinator:** Dr. Amvrossios (Ross) Bagtzoglou, Head of CEE Department and Professor

### **CE 2110: Applied Mechanics I**

The preferred degree requirements for teachers wishing to teach Engineering courses is a Master's degree in Engineering or a related field; however a Master's in Education with and appropriate engineering background may be considered. The minimum requirements for certification include a Bachelor's degree in Engineering and an Engineering/Physics background, or related experience. The instructor should show a comfort with calculus.

## Classics and Ancient Mediterranean Studies

Faculty Coordinator: Dr. Sara Johnson, Associate Professor

### CAMS 1103: Classical Mythology

### CAMS 3101: Topics in Advanced Greek

### CAMS 3102: Topics in Advanced Latin

The minimum degree requirement for teachers wishing to teach Early College Experience classics courses is usually a Master's of Arts in Classics or a related field. A candidate with a Master's in Education may be considered if supported by equivalent classical coursework at the undergraduate and graduate-level.

Additional 1103 Requirements: The form of CAMS 1103 to be offered must conform closely to the form offered at UConn. Candidates who have not previously worked with Professor Travis may apply for temporary certification, with full certification pending completion of the online course and a follow-up certification interview. Candidates should understand that this process may take several months to a year and that full certification must be completed before instructors may apply for permission to list the course in the following year. Applications for this course must be submitted a year in advance of the planned year the course will be taught in the high school.

## Digital Media & Design

Faculty Coordinator: Mr. Kenneth Thompson, Assistant Professor in Residence

### DMD 1002: Foundations in Digital Media II

### DMD 1101: Design Lab I

### DMD 1102: Design Lab II

### DMD 2210: Film and Video Editing I

### DMD 2500: Introduction to Game Design

The minimum degree requirement for teachers wishing to teach Early College Experience Digital Media Design courses is usually a BA or BFA in Education, Design/Art/Film (or Game Development, Computer Science, Digital Media/Art for DMD 2500). As part of the application process, applicants will be shared a link to a google drive folder to upload portfolio work completed by the instructor and examples of student work. Additional course-specific certification requirements are listed below.

**DMD 1002** Applicants must possess a basic understanding of storytelling principles, narrative arcs, and how to utilize storytelling techniques in visual media. In addition, a qualified applicant must have a basic knowledge of design principles, visual aesthetics, photoshop, and adobe premiere (or similar editing software).

Instructor Work:

- At least one example of previsualization techniques such as storyboarding, mood boarding, and pitches
- At least three examples of effective storytelling using audio, photo, or video that adheres to the principles of design

Current Exemplary Student Work:

- Two items each. Storyboards, Pitches, Photography, Video, and Audio

**DMD 1101** Applicants must possess a basic understanding of visual communication using elements and principles of design. In addition, a qualified applicant must demonstrate knowledge of standard typographic, photographic, and cinematic composition terms and principles, as well as and Photoshop (taught) Procreate or Gimp (optional).

Instructor Work:

- 5-10 examples of digital raster projects that demonstrate an understanding of color, value, light, silhouette, and discuss how the content in this work reflects a specific theme

Current Exemplary Student Work:

- 5-10 raster-based drawings and evidence of a critique-based practice

**DMD 1102** Applicants must possess a basic understanding of visual communication principles and design techniques. In addition, a qualified applicant must have a basic knowledge of human-centered design and its relationship to typographic adjustments such as contrast and readability, and: Illustrator, After Effects, and XD (or similar editing software)

Instructor Work:

- 5-10 examples of digital raster projects that demonstrate an understanding of color, value, light, silhouette, and discuss how the content in this work reflects a specific theme

Current Exemplary Student Work:

- 5-10 vector-based drawings and evidence of a critique-based practice

**DMD 2210** Applicants must possess a basic understanding of storytelling principles and narrative arcs, and how to utilize storytelling techniques in visual media. In addition, a qualified applicant must have a basic understanding of design principles and visual aesthetics as well as photoshop and adobe premiere (or similar editing software).

Instructor Work:

- At least one example of previsualization techniques such as storyboarding, mood boarding, and pitches
- At least three examples of effective storytelling using video that adheres to the design principles of film

Current Exemplary Student Work:

- Two items each. Storyboards, Scripts, Three to five short films

**DMD 2500** Applicants must possess a basic understanding of game design principles and implement them in a visual scripting or programming language. In addition, a qualified applicant must have a basic knowledge of either 2D or 3D graphics in run-time environments and a professional off-the-shelf game engine.

Instructor Work:

- One to three examples of games or apps implemented through a coding language such as C# or Python or visual scripting. (Include code samples or screenshots of your scripts)
- At least two examples of digital or analog projects such as card games or custom Role-Playing Game campaigns that adhere to the principles of game design and storytelling

Current Exemplary Student Work:

- 3-5 games that adhere to the principles of game design, 2-4 code samples (visual scripting screenshots are acceptable)

## Economics

**Faculty Coordinator:** Dr. Natalia Smirnova, Assistant Professor in Residence

### **ECON 1000: Essentials of Economics**

### **ECON 1201: Principles of Microeconomics**

### **ECON 1202: Principles of Macroeconomics**

There are two faculty ranks associated with UConn ECE Economics—Instructor and Preceptor. The minimum requirement for teachers wishing to become a UConn ECE Economics Instructor is a Master’s Degree in Economics or equivalent experience (as judged by the UConn Economics Department).

The minimum requirement for teachers wishing to become a UConn ECE Economics Preceptor is the potential for teaching Economics which includes a Bachelor's degree in Economics and/or equivalent experience in the field. The role of ECE Economics instructor and preceptor differ in the levels of independence determined by the University's faculty coordinator in Economics. Preceptors may be encouraged to seek full certification by completing additional coursework in Economics.

## Education

### Educational Curriculum and Instruction

**Faculty Coordinator:** Dr. Michele Back, Associate Professor

#### **EDCI 1100: If You Love It, Teach It\***

The minimum degree requirement for instructors wishing to teach UConn EDCI 1100 through UConn ECE is a Master's degree in Education or Curriculum and Instruction, or an administrative endorsement (092). Applicants should have at least three years of public school teaching experience.

### Educational Leadership

**Faculty Coordinator:** Mrs. Danielle DeRosa, Clinical Instructor

#### **EDLR 1162: Health and Education in Urban Communities\***

The minimum degree requirement for teachers wishing to teach Early College Experience EDLR 1162: Health and Education in Urban Communities is typically a Master's degree in a related field. A Master's in an education or health related field of study would be ideal, but other degrees will be considered. The first year of certification is provisional, and the faculty course coordinator will mentor the ECE instructor and oversee implementation of the syllabus, instruction and service learning component of the course. Following the provisional period, certified instructors can gain full certification and work closely with the faculty course coordinator to offer this course. All applications must include a completed *EDLR 1162 Service Site Info Form*.

#### **EDLR 2001: Contemporary Issues in Sport\***

The minimum degree requirement for teachers wishing to teach EDLR 2001: Contemporary Social Issues in Sport is typically a Bachelor's degree in Sport Management or a related field, such as kinesiology, education, health, sociology, political science. Preferred applicants will have a Master's degree with relevant graduate work to sport management, education, health, sociology, political science. For this course, the first year of certification is provisional, and the faculty course coordinator will mentor the ECE instructor and oversee implementation of the syllabus, instruction and service learning component of the course.

In addition to the ECE application materials, instructors interested in teaching EDLR 2001: Contemporary Social Issues in Sport should write an essay that is no longer than 3 pages that responds to the following question:

- Select a contemporary issue in sport that has pushed you to examine your beliefs about sport and society. Explain the impact that this issue has had on you, and how you would incorporate your learning from this contemporary issue into your ECE course.

## **Educational Psychology**

**Faculty Coordinator:** Dr. Joseph Madaus, Professor

### **EPSY 1100: Introduction to Special Education**

The minimum degree requirements for teachers wishing to teach Education courses is a Masters of Education. Instructors wishing to teach EPSY 1100 must have a graduate concentration in special education. This course has a clear institutional approach with requires adherence to the UConn syllabus (See sample). In your cover letter, please speak to your background, experience, and your ability to implement the UConn curriculum at the high school.

### **English**

**Faculty Coordinator:** Dr. Scott Campbell, Associate Professor

**Assistant Faculty Coordinator:** Dr. Jason Courtmanche, Assistant Professor in Residence

### **ENGL 1004: Introduction to Academic Writing**

### **ENGL 1007: Seminar and Studio in Academic Writing and Multimodal Composition**

The preferred preparation for teaching Early College Experience English courses is a Master's of Arts degree in English with at least some coursework in rhetoric and composition (especially courses directly related to the teaching of writing). The minimum degree requirement for teachers wishing to teach Early College Experience English courses is usually a Master's of Arts degree in English; however, a candidate with Master's in Education and at least two graduate-level English classes (one of which is in rhetoric and composition) may be considered.

ENGL 1004 is designed to prepare students not yet qualified to take the required academic writing seminar (ENGL 1007) but who would benefit from a preparatory course that carries college credit. Please contact the UConn ECE Program Office before considering offering the course as it is not open without approval from our office.

### **French**

**Faculty Coordinator:** Dr. Florence Marsal, Assistant Professor in Residence

### **FREN: 3250: Global Culture I**

### **FREN 3268: Grammar and Composition**

The minimum degree requirement for instructors wishing to teach UConn ECE French courses is a Master's of Arts degree in French; however, a candidate with Master's in Education with a sufficiently strong French background may be considered. A candidate with a strong French background has either taken graduate courses in French or has been educated (K through 12) in a Francophone country. Candidates will be interviewed by the French faculty coordinator before certification is granted.

### **Geosciences**

**Faculty Coordinator:** Dr. Robert Thorson, Professor

### **GSCI 1051: Earth's Dynamic Environment\***

The minimum requirements for instructors wishing to teach UConn Early College Experience Geoscience courses are typically a Master's of Science in Geosciences or a related field and 2 years high school science teaching experience. Applicants also will be considered if they have a Master's of Education with a concentration in geoscience, a Bachelor's of Science in the natural sciences with college level geoscience, and 4 years high school science teaching experience.

## German

**Faculty Coordinator:** Dr. Anke Finger, Associate Professor

### **GERM 3233: Building Language Skills through Culture I**

### **GERM 3255: Studies in 20th Century German Literature**

The preferred requirement for instructors wishing to teach UConn ECE German courses is a Bachelor's Degree in German/German Studies and a Master's Degree in German/German Studies. If the instructor has a Bachelor's Degree in German and a Master's Degree in Education or another equivalent field (e.g., International Studies), the instructor needs to complete at least two scholarly courses in the study of German/German Studies. The courses should be in a Graduate German Studies Department from an accredited university in the United States.

## History

**Faculty Coordinator:** Dr. Sherri Olson, Professor (HIST1300); Dr. Kenneth Gouwens, Associate Professor (HIST1400)

### **HIST 1300: Western Traditions Before 1500**

### **HIST 1400: Modern Western Traditions**

The minimum degree requirement for instructors wishing to teach ECE History courses is a B.A. in History with at least four graduate courses (12 credits, half the number required for a Master's degree) in European history.

Teachers interested in obtaining History certification are asked to submit the following materials in addition to the certification application:

1. A detailed syllabus for the course being taught: this should include a 'statement of purpose' for the course, a list of the texts being used, and a schedule of the lectures and readings for each class meeting. Be sure to indicate the 'title' of the lecture (e.g., "Heresy and Dissent in the 13th Century"). Discussion topics, films, etc. should also be noted in the schedule, as well as notice of any websites that students are required to use.
2. The syllabus must include a full listing of all primary source texts assigned for the course, along with an indication of how they will be used, e.g., as a basis for a careful in-class close reading, as a focus for class lecture and/or discussion, as material for written assignments, etc. The single most important feature that distinguishes an ECE History course from regular high school courses is an emphasis on reading, discussing, and interpreting primary sources.

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**Faculty Coordinator:** Dr. Matthew McKenzie, Associate Professor

### **HIST 1501: United States History to 1877**

### **HIST 1502: United States History Since 1877**

The minimum degree requirement for instructors wishing to teach U.S. History courses is a B.A. in History with at least four graduate courses (12 credits, half the number required for a Master's degree) in U.S. history. Applicants must have completed at least one graduate-level course in historical methodology or historiography with a grade of a B or better.

Teachers interested in obtaining U.S. History certification must submit a draft syllabus for each course (1501 and/or 1502) that includes:

1. A 'statement of purpose' for the course, a list of the texts being used, and a schedule of the lectures and readings for each class meeting. Be sure to indicate the 'title' of the lecture (e.g., "Jeffersonian America"). Discussion topics, films, etc. should also be noted in the schedule, as well as notice of any websites that students are required to use.

2. A full listing of all primary source texts assigned for the course, along with an indication of how they will be used, e.g., as a basis for a careful in-class close reading, as a focus for class lecture and/or discussion, as material for written assignments, etc. The single most important feature that distinguishes an ECE U.S. History course from regular high school courses is an emphasis on reading, discussing and interpreting primary sources.

### **Human Development & Family Sciences**

**Faculty Coordinator:** Dr. Shannon Weaver, Associate Professor

#### **HDFS 1070: Individual & Family Development**

The minimum degree requirement for instructors wishing to teach Early College Experience Family Studies class, HDFS 1070: Individual and Family Development, is a Master's Degree in Education. It is suggested that the undergraduate Bachelor's Degree be in the area of Family and Consumer Sciences Education (045, CT Home Economics) or Human Development and Family Sciences with three to five years teaching experience at the secondary level. Applicants must have completed coursework in both Human Development and Family Studies before certification can be considered.

### **Human Rights**

**Faculty Coordinator:** Dr. Glenn Mitoma, Assistant Professor

#### **HRTS 1007: Introduction to Human Rights**

HRTS 1007: The minimum requirement for certification in Human Rights is a Bachelor's degree in Human Rights, or a related field such as Global Studies, Political Science, or History. Preferred applicants will have an interdisciplinary and global academic background, a master's degree with graduate-level coursework relevant to human rights, and/or engaging in global humanitarian programs, international organizations or other related work throughout their careers. Instructors must provide compelling evidence that their proposed course is equivalent in rigor and scope to its equivalent at the University of Connecticut.

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#### **HRTS 2200: Introduction to Genocide Studies\***

HRTS 2200: The minimum requirement for certification in Genocide Studies is a Bachelor's degree in Human Rights or Genocide Studies, or a related field such as Global Studies, Political Science, or History. Preferred applicants will have an interdisciplinary and global academic background, a master's degree with graduate-level coursework relevant to genocide studies, and/or engaging in global humanitarian programs, international organizations or other related work throughout their careers. Instructors must provide compelling evidence that their proposed course is equivalent in rigor and scope to its equivalent at the University of Connecticut.

### **Italian Literature and Cultural Studies**

**Faculty Coordinator:** Dr. Tina Chiappetta-Miller, Assistant Professor in Residence

#### **ILCS 3239: Composition & Conversation I**

#### **ILCS 3240: Composition & Conversation II**

The minimum degree requirement for instructors wishing to teach Early College Experience Italian courses is a Master's in Italian; however, a Master's in Education and appropriate Italian background may be considered.

## Latino and Latin American Studies

**Faculty Coordinator:** Dr. Anne Gebelein, Associate Director, El Instituto and Assistant Professor in Residence

### LLAS 1190: Perspectives on Latin America

The minimum degree requirement for instructors wishing to teach Early College Experience Latin and Latino American Studies courses is a Bachelor's degree and a Master's degree in Latin American Studies or in Anthropology, History, Political Science, or Spanish with a focus on the study of Latin America and the Caribbean.

## Marine Science

**Faculty Coordinator:** Ms. Claudia Koerting

### MARN 1001E: The Sea Around Us

### MARN 1002E: Introduction to Oceanography

### MARN 1003E: Introduction to Oceanography with Laboratory

The minimum requirements for instructors wishing to teach Early College Experience Marine Sciences courses are typically a Master's of Science in Oceanography, Marine Sciences, or a related field and 2 years high school science teaching experience. Applicants also will be considered if they have a Master's of Education, a Bachelors of Science in the natural sciences, and 4 years high school science teaching experience including marine science courses.

## Maritime Studies

**Faculty Coordinator:** Ms. Laurie Wolfley, Lecturer

### MAST 1200: Introduction to Maritime Culture

The minimum requirements for certification in Maritime Studies is an instructor who has completed graduate-level coursework in both English and History. At a minimum, applicants should have a Bachelor's Degree in Maritime Studies; however, applicants with a Master's Degree in either English or History will be considered. This course may be team taught between a History and an English instructor where each have at least bachelor and some graduate-level training within their respective majors.

## Mathematics

**Faculty Coordinator:** Dr. Anthony Rizzie, Assistant Professor in Residence

### MATH 1030Q: Elementary Discrete Mathematics

### MATH 1131Q: Calculus I

### MATH 1132Q: Calculus II

The minimum degree requirement for instructors wishing to teach UConn ECE mathematics courses is typically a Master's degree in Mathematics. In exceptional cases, a strong Bachelor's degree in Math with evidence that the candidate is enrolled in a program to earn a Master's degree may be considered. A candidate with a Master's in Education may also be considered if coupled with a strong Bachelor's degree in Mathematics. Interviews will be conducted before certification is granted. The Math Department will not certify candidates that have earned a degree completely through online coursework or who do not have a degree in Math.

**\*\*The transcript must include at least one course on the theory of calculus (i. e., Real Analysis or Theoretical Advanced Calculus) with a grade of B or better.\*\***

Note: Core Questions are given to Instructors to include in final exams by the University's Mathematics Department.

## Music

**Faculty Coordinator:** Dr. Glenn Stanley, Professor  
**Acting Faculty Coordinator:** Ms. Megan Lyons, Graduate Student

### MUSI 1001: Music Appreciation

### MUSI 1003: Popular Music and Diversity in American Society

### MUSI 1011: Fundamentals/Ear Training I

### MUSI 1012: Fundamentals/Ear Training II

The minimum degree requirement for instructors wishing to teach Early College Experience Music courses is usually a Master's of Arts degree in Music; however, a candidate with Master's in Education and sufficiently strong music background may be considered.

## Natural Resources and the Environment

**Faculty Coordinator:** Dr. Isaac (Morty) Ortega, Associate Professor

### NRE 1000E: Environmental Science

The minimum degree requirement for instructors wishing to teach Early College Experience Environmental Science courses is a Master's Degree in one of the environmental science fields (e.g. environmental biology, natural resources, chemistry, earth science, geography, economics) or Education and experience in education and study in environmental science.

## Philosophy

**Faculty Coordinator:** Dr. Mitch Green, Professor

### PHIL 1101: Problems of Philosophy

### PHIL 1108E: Environmental Philosophy

The minimum degree requirement for instructors wishing to teach Early College Experience Philosophy courses is a B.A. in Philosophy or a closely related field (such as Political Science with an emphasis on Political Theory, or Religious Studies with an emphasis on Ethics), and a M.A. in Philosophy (or closely related field).

## Physics

**Faculty Coordinator:** Dr. David Perry, Lecturer

### PHYS 1201Q: General Physics I

### PHYS 1202Q: General Physics II

### PHYS 1401Q: General Physics with Calculus I

### PHYS 1402Q: General Physics with Calculus II

The minimum degree requirement for teachers wishing to teach UConn ECE physics courses is a Bachelor's degree in physics with at least 3.0 GPA in the basic calculus level physics course, an overall 2.5 GPA for all physics courses on the transcript, plus two years teaching experience at the high school level. Faculty should have a calculus background. Candidates with a Master's degree or Ph.D. in physics will be considered without the two-year teaching experience requirement.

## Political Science

**Faculty Coordinator:** Dr. Frederick Turner, Professor Emeritus

**POLS 1002: Introduction to Political Theory**

**POLS 1202: Introduction to Comparative Politics**

**POLS 1402: Introduction to International Relations**

**POLS 1602: Introduction to American Politics**

The minimum degree requirement for instructors wishing to teach Early College Experience political science courses is a Master's of Arts degree in political science or a law degree. Applicants may also be certified to teach one of the four introductory courses if they complete three political science graduate classes in the designated field. These three classes must be approved by the Department of Political Science and UConn ECE before enrollment.

## Sociology

**Faculty Coordinator:** Dr. Mary Bernstein, Professor

**SOCI 1001: Introduction to Sociology**

1. M.A. in Sociology

-OR-

2. B.A. in Sociology or a related social science field (such as, but not limited to, Political Science, Human Rights, or Anthropology), and three graduate courses in Sociology. Successful candidates need to have earned a Master's degree (education or other department). One graduate course in sociology may be replaced with comparable experience depending on undergraduate major, teaching experience or related qualifications.

## Spanish

**Faculty Coordinators:** Dr. Guillermo Irizarry, Associate Professor; Dr. Ana Maria Diaz-Marcos, Professor

**SPAN 3177: Composition & Reading for Spanish Speakers**

**SPAN 3178: Intermediate Spanish Composition**

**SPAN 3179: Spanish Conversation: Cultural Topics**

The minimum requirement for instructors wishing to teach Early College Experience Spanish courses is a Bachelor's Degree in Spanish and a Master's Degree in Spanish. If the instructor has a Bachelor's Degree in Spanish and a Master's Degree in Education, the instructor needs to complete at least two scholarly courses in the study of Spanish and/or Spanish American Literature. The courses should be in a Graduate Spanish Department from an accredited university in the United States and approved by the UConn ECE Faculty Coordinators for Spanish and the UConn ECE program before enrollment.

## Statistics

**Faculty Coordinator:** Dr. Nalini Ravishanker, Professor and Undergraduate Program Director

**STAT 1100Q: Elementary Concepts of Statistics**

The preferred requirement for instructors wishing to teach UConn ECE statistics courses is a Master's of Science degree in Statistics, or a Master's in a related area with appropriate level undergraduate statistics background and/or undergraduate or graduate courses at least two levels above Statistics 1100QC. A candidate with a Master's in Education and an appropriate statistics background may be considered. Reasonable courses at the undergraduate-level in applied

statistics are STAT 2215Q or STAT 3115Q, or equivalent. Reasonable courses at the undergraduate-level in statistical methods are STAT 3025Q or STAT 3375Q or STAT 3445, or equivalent. A grade of B or better in these courses will be required. UConn's course catalog for statistics can be found online at [UConn Catalog](#) for comparison.

\*\*Applicants must provide a detailed list and course descriptions of their completed statistics coursework for review. This list of courses should identify the equivalence to the UConn courses mentioned above.

### **Sustainable Plant and Soil Systems**

**Faculty Coordinator:** Dr. Julia Kuzovkina, Associate Professor

**SPSS 1100: Turfgrass Management\***

**SPSS 1110: Fundamentals of Horticulture**

**SPSS 1150: Agricultural Technology and Society**

**SPSS 2120: Environmental Soil Science**

**SPSS 2520: Floral Art**

**SPSS 3230: Biotechnology- Science, Application, Impact, Perception**

**SPSS 3245: Plant Breeding and Biotechnology**

**SPSS 3530: Advanced Floral Design**

The minimum requirements for instructors wishing to become certified to teach SPSS courses is a Bachelor's and Master's degrees in plant science or a related discipline and three years teaching experience. A Master's degree in Education may be acceptable if applicants completed sufficient undergraduate and graduate courses in plant science and related disciplines. Access to a lab, and other resources are required to support applied learning opportunities of the courses. Other factors that will be considered include instructor's experience in applied aspects of plant science and participation in professional development activities. Teachers must submit a detailed lecture and lab syllabus with their application for certification.