



**EARLY COLLEGE
EXPERIENCE**

Course Catalog & Instructors Certification Requirements

(*Pilot Program: contact office before applying)

Allied Health Sciences

Course description

AH2001: Medical Terminology

One credit. Introduction and mastery of medical terminology through presentation of word roots, prefixes and suffixes.

Semesters offered: Fall or Spring

Student Eligibility

Student must have successfully completed or be enrolled concurrently in high school biology. Instructor consent is required.

Course description

AH4092: EMT Training*

Four credits. Instruction in basic life support skills, treatment of bleeding control and shock recognition, care for trauma victims, medical emergencies. Supervised practice experience and hands-on instruction of theory. Includes a 10-hour observation experience outside of classroom instruction. Meets the performance requirements of the National Registry of Emergency Medical Technicians (NREMT) certification exam. Students must first register for Hospital's EMT training program (separate Hospital program costs apply).

Semester offered: Full-Year

Student Eligibility

Successful completion of high school biology and chemistry, and instructor consent is required.

Instructor Certification Requirements

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.

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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).

Faculty Coordinator: Dr. Bruce Blanchard, Assistant Clinical Professor

American Studies

Course description

AMST 1201: Introduction to American Studies

Three credits. What is an American? A multi-disciplinary inquiry into the diversity of American societies and cultures.

Semester offered: Fall, Spring or Full-Year

Student Eligibility

Successful completion of two years of high school history and two years of high school English are recommended.

Instructor Certification Requirements

The minimum requirement for certification in American Studies is 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. 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.

Faculty Coordinator: Laurie Wolfley, Lecturer, and Dr. Matthew McKenzie, Associate Professor

Animal Science

Course description

ANSC 1602: Behavior and Training of Domestic Animals

Three credits. Application of behavior of cattle, horses, sheep, goats, swine and poultry to their management, training and welfare. Basic principles of genetics and physiology of behavior, perception,

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training, learning, motivation, and stress with consideration of integrated behavioral management and animal welfare.

Semester offered: Fall, Spring or Full-Year

Student Eligibility

Student must be enrolled in an Agriscience program in Connecticut. Student must have completed Biology, and the freshman year animal science course in high school.

Course description

ANSC 1645: The Science of Food

Three credits. An introductory level course for students interested in the application of science to food. Nutritional and functional attributes of various food constituents are discussed. Issues concerning food processing and food safety are covered.

Semester offered: Fall, Spring or Full-Year

Student Eligibility

Student must be enrolled in an Agriscience program in Connecticut. Student must have completed or be enrolled concurrently in Chemistry.

Course description

ANSC 1676: Introduction to Companion Animals

Three credits. Basic concepts of the nutrition, physiology, health and management of companion animals.

Semester offered: Fall, Spring or Full-Year

Student Eligibility

Student must be enrolled in an Agriscience program in Connecticut. Student must have completed Biology, and the freshman year animal science course in high school.

Course description

ANSC 2251: Horse Science

Three credits. Valuable to future animal science majors. Includes horse types and breeds and their nutrition, breeding, evaluation, behavior, care and management with attention given to detailed studies of the problems and practices of horse.

Semester offered: Last course in a four semester sequence production and use.

Student Eligibility

Student must be enrolled in an Agriscience program in Connecticut. Student must have completed Biology, and the freshman year animal science course in high school.

Instructor Certification Requirements

Option 1: Instructor should have an Animal Science BS major or minor; or Option 2: five years of experience teaching in an Agri. Science high school. The first year of certification is provisional when the

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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.

Certified Instructors must complete the modules on HuskyCT per faculty coordinator request.

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

Art

Course description

ART 1030: Drawing I

Three credits. Fundamental principles of drawing based on observation.

Semester offered: Fall, Spring or Full-Year

Student Eligibility

Successful completion of one full year of high school art instruction is recommended.

Instructor Certification Requirements

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 will be submitted electronically. Acceptable formats include CD's, thumb drives, direct e-mail, or links provided to websites. JPG, TIFF or PDF images are best. If providing individual images on e-mail, please reduce the size and include all of the images in one e-mail. Multiple images may be compiled into one PDF portfolio. 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.

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Faculty Coordinator: Cora Lynn Deibler, Professor

Biology

Course description

BIOL 1107: Principles of Biology I

May be taken in either order. Four credits. A course in high school level chemistry or concurrent enrollment in CHEM 1127 are recommended for students enrolling in 1107. Designed to provide a foundation for more advanced courses in Biology and related sciences. Topics covered include molecular and cell biology, animal anatomy and physiology (BIOL 1107). Laboratory exercises in BIOL 1107 include dissection of preserved animals.

Semester offered: Fall, Spring or Full-Year.

Student Eligibility

Student must have studied/been exposed to the fundamental basic principles of inorganic and organic chemistry in a course that in addition contains a laboratory component.

Course description

BIOL 1108: Principles of Biology II

May be taken in either order. Four credits. A course in high school level chemistry or concurrent enrollment in CHEM 1127 are recommended for students enrolling in 1107. Designed to provide a foundation for more advanced courses in Biology and related sciences. Topics covered include ecology, evolution, genetics, and plant biology, (BIOL 1108).

Semester offered: Fall, Spring or Full-Year.

Student Eligibility

Student must have studied/been exposed to the fundamental basic principles of inorganic and organic chemistry in a course that in addition contains a laboratory component.

Instructor Certification Requirements

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. Additionally, the candidate should present on transcripts a diverse and deep breathe of course work and laboratory course work as both an undergraduate and as a graduate student. Applicants will not be considered unless they provide a detailed lecture and lab syllabus for their proposed Bio 1107/1108 courses with their application. Certification also requires an interview with the ECE Biology Coordinator at the Storrs campus.

Applicants for Bio 1107/1108 should have documented coursework in the following areas:

- General Biology
- General Chemistry
- Organic Chemistry

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Additionally, Biology 1107 applicants should present 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 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, work experiences in research or applied aspects of biology, and recommendations.

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

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

Chemistry

Course description

CHEM 1127Q: General Chemistry I

Four credits. Recommended preparation for CHEM 1127Q; Basic Algebra with applications, or equivalent. Designed to provide a foundation for more advanced courses in chemistry. Atomic theory; laws and theories concerning the physical and chemical behavior of gases, liquids, solids, and solutions. Properties of some of the more familiar elements and their compounds. Quantitative measurements illustrating the laws of chemical combination in the first semester lab. Equilibrium in solutions and qualitative reactions of the common cations and anions in the second semester lab.

Semester Offered: Fall Only

Student Eligibility

Successful completion of basic algebra is recommended. A student must pass CHEM 1127Q with a grade of a "C" or higher to continue on to CHEM 1128Q.

Course description

CHEM 1128Q: General Chemistry II

Four credits. A continuation of CHEM 1127Q.

Semester offered: Spring Only

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Student Eligibility

Successful completion of basic algebra is recommended. A student must pass CHEM 1127Q with a grade of a "C" or higher to continue on to CHEM 1128Q.

Instructor Certification Requirements

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)

Notes: 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 teachers.

Faculty Coordinator: Dr. Fatma Selampinar, Lecturer

Chinese

Course description

CHIN 1114: Intermediate Chinese II

Four credits. Development of ability to communicate in Chinese, orally and in writing.

Semester Offered: Full-Year Only

Student Eligibility

Three or more years of high school Chinese, or with instructor's consent.

Instructor Certification Requirements

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 will be interviewed by the Chinese faculty coordinator before certification is granted.

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

Classics and Ancient Mediterranean Studies

Course description

CAMS 1103: Classical Mythology

Three credits. Origin, nature, and function of myth in the literature and art of Greece and Rome and the re-interpretation of classical myth in modern art forms.

Semester offered: Fall, Spring or Full-Year.

Student Eligibility

Instructor consent is required.

Course description

CAMS 3101: Topics in Advanced Greek

Three credits. Not open for credit to students who have had three or more years of Greek in high school, except with Departmental consent. With a change in content, may be repeated for credit. Involves reading in Greek. Reading of Ancient Greek texts in the original.

Semester offered: Fall, Spring or Full-Year.

Student Eligibility

Successful completion of two semesters of accelerated elementary Greek or the equivalent is required.

Course description

CAMS 3102: Topics in Advanced Latin

Three credits. With a change in content, may be repeated for credit. Reading of Latin texts in the original.

Semesters offered: Fall, Spring or Full-Year.

Student Eligibility

Successful completion of three or more years of high school Latin (Latin 1-3 at the high school level) or the equivalent is required.

Instructor Certification Requirements

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 is usually not considered for college-level teaching in classics.

Faculty Coordinator: Dr. Sara Johnson, Associate Professor

Digital Media & Design*

Course description

DMD1000: Digital Foundation

Three credits. Introductory studio experience in designing for the digital arts; concepts, media and strategies for making creative digital work.

Instructor Certification Requirements

High school teachers wishing to teach Digital Foundations as a part of the UConn Early College Experience are required to have at least a B.A. or B.F.A. with a three-year background working or teaching Digital Media. The ideal candidate should be comfortable delivering content as a part of a project-based learning environment and/or part of a flipped classroom model.

The facilitator of the UConn ECE Digital Foundations course will schedule a time to meet the candidate and visit their teaching facilities. This experience provides an opportunity to introduce the program in greater detail and view samples of student work.

Teachers who meet the criteria are required to attend a 2-day professional development session during the Summer.

Faculty Coordinator: Matthew Worwood, Associate Director, Digital Media & Design Department and Assistant Professor in-Residence

Economics

Course description

ECON 1000: Essentials of Economics

Three credits. A general introduction to micro- and macroeconomics. Economic concepts to be taught include opportunity costs, demand and supply, incentives, comparative advantage, inflation and employment policies, balance of international payments, and economic growth.

Semester offered: Fall, Spring or Full-Year

Student Eligibility

Successful completion or simultaneous enrollment in Intermediate Algebra/Algebra II, and Geometry are required.

Course description

ECON 1201: Principles of Microeconomics

Three credits. May be taken before or after ECON 1202. How the invisible hand of the market functions through the economic decisions of firms and individuals. How prices, wages and profits are determined, resources are allocated and income is distributed. Topical subjects (e.g., energy policy and health care).

Semester offered: Fall, Spring or Full-Year

Student Eligibility

Successful completion or simultaneous enrollment in Intermediate Algebra/Algebra II, and Geometry are required.

Course description

ECON 1202: Principles of Macroeconomics

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Three credits. May be taken before or after ECON 1201. The organization and function of the economic system as a total unit. Economic decisions, institutions, and policies that determine levels and rates of growth of production, employment, and prices. Topical subjects (e.g., government budget deficits and current interest-rate policy).

Semester offered: Fall, Spring or Full-Year

Student Eligibility

Successful completion or simultaneous enrollment in Intermediate Algebra/Algebra II, and Geometry are required.

Instructor Certification Requirements

There are two faculty ranks associated with UConn ECE Economics. The minimum requirement for teachers wishing to become a UConn ECE Economics instructor (adjunct professor) 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 Economic 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.

Faculty Coordinator: Dr. William Alpert, Associate Professor

Educational Leadership

Course description

EDLR 1162: Health and Education in urban Communities

One credit. As an introductory course, EDLR 1162 explores the historical and social forces that shape health and education in urban communities, specifically in Connecticut. Topics of study will include poverty, culture, and identity and how these phenomena affect children's health, nutrition, schooling and opportunities for success. Through readings, films, discussion, reflection and service-learning opportunities, class members analyze policies, norms and beliefs in our society. Students will be challenged to consider how these trends may lead us to a more just society and how these may perpetuate injustice.

Semester offered: Fall or Spring

Student Eligibility

Instructor consent is required.

Instructor Certification Requirements

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

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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 work closely with the faculty course coordinator to offer this course.

Faculty Coordinator: Mrs. Danielle DeRosa

Engineering

Course description

CE 2110: Applied Mechanics I

Three credits. Fundamentals of statics using vector methods. Resolution and composition of forces; equilibrium of force systems; analysis of forces acting on structures and machines; centroids; moment of inertia.

Semester offered: Fall, Spring or Full-Year

Student Eligibility

Successful completion or concurrent enrollment in MATH1131Q is required.

Instructor Certification Requirements

Instructors should have been an engineer or have an Engineering/Physics background. The instructor should show a comfort with calculus.

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

English

Course description

ENGL 1004: Introduction to Academic Writing

Four credits. Development of the reading and writing skills essential to university work. Students placed in ENGL 1004 must pass the course before electing ENGL 1010 or 1011.

ENGL 1004 is designed to prepare students not yet qualified to take the required academic writing seminar (ENGL 1010 or 1011) but who would benefit from a preparatory course that carries college credit. Please contact the UConn ECE office before considering offering the course as it is not open without approval from our office.

Semester offered: Fall, Spring or Full-Year.

Student Eligibility

Successful completion of two years of high school English is required.

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Course description

ENGL 1010: Seminar in Academic Writing

Four credits. Instruction in academic writing through interdisciplinary reading. Assignments emphasize interpretation, argumentation, and reflection. Revision of formal assignments and instruction on grammar, mechanics and style.

Semester offered: Fall, Spring or Full-Year.

Student Eligibility

Successful completion of two years of high school English is required.

Course description

ENGL 1011: Seminar in Writing Through Literature

Four credits. Instruction in academic writing through literary reading. Assignments emphasize interpretation, argumentation, and reflection. Revision of formal assignments and instruction on grammar, mechanics and style.

Semester offered: Fall, Spring or Full-Year.

Student Eligibility

Successful completion of two years of high school English is required.

Instructor Certification Requirements

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.

Faculty Coordinator: Dr. Scott Campbell, Associate Professor

French

Course description

FREN: 3250: Global Culture I

Intense study of oral French. Learning of oral techniques of communication in conjunction with weekly topics of conversation associated with various francophone cultures. Rigorous and active oral practice through dialogues, interviews, round tables, and oral reports.

Semester offered: Fall or Full-Year.

Student Eligibility

Successful completion of three full years of high school French or instructor consent is required.

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Course description

FREN 3268: Grammar and Composition

Three credits. Recommended preparation: Three years of high school French or instructor consent. Advanced study of French texts and extensive written practice in a variety of forms ranging from compositions, essays, summaries and film reviews.

Semester offered: Spring or Full-Year

Student Eligibility

Successful completion of three full years of high school French or instructor consent is required.

Instructor Certification Requirements

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.

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

German*

Course description

GERM 3233: Building Language Skills through Culture I

Three credits. Development of oral and written skills using a content-based methodology and drawing on texts that deal with issues in contemporary culture of German-speaking countries. Emphasis on acquisition of a sophisticated understanding of cultural differences while building vocabulary, improving accuracy, and increasing facility in self-expression and communication.

Semester offered: Fall only

Student Eligibility

Successful completion of three or more years of high school German or instructor consent is recommended.

Course description

GERM 3255: Studies in 20th Century German Literature

Three credits. Prerequisite: GERM 3233 or instructor consent. Study of a cohesive group of texts that mark the period. Attention will be given to the relevant socio-historical context and to the visual and performing arts. Taught in German.

Semester offered: Fall only

Student Eligibility

Successful completion of three or more years of high school German, successful completion of GERM3233, or instructor consent is recommended.

Instructor Certification Requirements

The instructor must have a Bachelors Degree in German/German Studies and a Masters Degree in German/German Studies. If the instructor has a Bachelors Degree in German and a Masters 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.

Faculty Coordinator: Dr. Anke Finger, Associate Professor

European History

Course description

HIST 1300: Western Traditions Before 1500

Three credits. An analysis of the traditions and changes which have shaped Western political institutions, economic systems, social structures and culture in ancient and medieval times.

Semester offered: Fall, Spring or Full-Year

Student Eligibility

Successful completion of at least one year of a high school history/social studies course recommended.

Course description

HIST 1400: Modern Western Traditions

Three credits. History of political institutions, economic systems, social structures, and cultures in the modern Western world.

Semester offered: Fall, Spring or Full-Year

Student Eligibility

Successful completion of at least one year of a high school history/social studies course recommended.

Instructor Certification Requirements

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.

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

Human Development & Family Studies

Course description

HDFS 1070: Individual & Family Development

Three credits. Human development throughout the life span, with emphasis upon the family as a primary context.

Semester offered: Fall, Spring or Full-Year

Student Eligibility

Successful completion of two years of English/Language Arts, one year of social studies and one year of science, or instructor consent is required.

Instructor Certification Requirements

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 Studies with three to five years teaching experience at the secondary level.

Faculty Coordinator: Dr. Shannon Weaver, Associate Professor

Human Rights

Course description

HRTS 1007: Introduction to Human Rights

Three credits. Exploration of central human rights institutions, selected human rights themes and political controversies, and key political challenges of contemporary human rights advocacy.

Semesters offered: Fall, Spring or Full-Year

Student Eligibility

Successful completion of two years of high school social studies courses, or consent of the instructor, is recommended.

Instructor Certification Requirements

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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.

Faculty Coordinator: Dr. Glenn Mitoma, Assistant Professor

Italian Literary and Cultural Studies

Course description

ILCS 3239: Composition & Conversation I

Three credits. Prerequisite: ILCS 1148 or equivalent. Practice in written and oral composition. Syntax study. Successful completion of the equivalent of four Italian language courses (two courses at the Elementary level & two at the Intermediate level) and instructor consent.

Semester offered: Fall, Spring or Full-Year

Student Eligibility

Successful completion of the equivalent of four Italian language courses (two courses at the Elementary level & two at the Intermediate level) and instructor consent.

Course description

ILCS 3240: Composition & Conversation II

Three credits. Prerequisite: ILCS 3239 or equivalent. Further practice in written and oral composition. Treatment of the finer points in syntax. Successful completion of the equivalent of four Italian language courses (two courses at the Elementary level & two at the Intermediate level) and instructor consent.

Semester offered: Fall, Spring or Full-Year

Student Eligibility

Successful completion of the equivalent of four Italian language courses (two courses at the Elementary level & two at the Intermediate level) and instructor consent. A student must pass ILCS 3239 with a grade of a "C" or higher to continue on to ILCS 3240.

Instructor Certification Requirements

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.

Faculty Coordinator: Dr. Philip Balma, Associate Professor

Latino & Latin American Studies

Course description

LLAS 1190: Perspectives on Latin America

Three credits. A multidisciplinary course including geography, indigenous peoples, colonization and nation formation; society, politics, economy, and culture of contemporary Latin America and its place in today's world.

Semester offered: Fall, Spring or Full-Year

Student Eligibility

Successful completion of two years of high school history, and one year of high school Spanish are recommended.

Instructor Certification Requirements

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.

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

Marine Science

Course description

MARN 1002: Introduction to Oceanography

Three credits. A background in secondary school physics, chemistry or biology is recommended. Processes governing the geology, circulation, chemistry and biological productivity of the world's interrelationships between physical, chemical, biological and geological processes that contribute to both the stability and the variability of the marine environment.

Semester offered: Fall, Spring or Full-Year

Student Eligibility

Successful completion of two years of high school lab science are recommended.

Course description

MARN 1003: Introduction to Oceanography with Laboratory

Four credits. Recommended preparation: A background in secondary school physics, chemistry or biology. Not open to students who have passed MARN 1002. Processes governing the geology, circulation, chemistry and biological productivity of the world's oceans. Emphasis on the interactions and interrelationships of physical, chemical, biological and geological processes that contribute to both

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the stability and the variability of the marine environment. Laboratory experiments, hands-on exercises, and field observations including required cruise on research vessel.

Semester offered: Fall, Spring or Full-Year

Student Eligibility

Successful completion of two years of high school lab science are recommended.

Students who pass MARN 1002 are not eligible for MARN 1003.

Students who pass MARN 1003 are not eligible for MARN 1004 or MARN 1002.

Instructor Certification Requirements

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.

Faculty Coordinator: Claudia Koerting and Dr. Ann Bucklin, Professor

Maritime Studies

Course description

MAST 1200: Introduction to Maritime Culture

Three credits. A study of history and literature to understand the international maritime culture that links peoples, nations, economies, environments, and cultural aesthetics.

Semester offered: Fall, Spring or Full-Year

Student Eligibility

Successful completion of two years of high school history and two years of high school English are recommended.

Instructor Certification Requirements

The minimum requirements for certification in Maritime Studies is an instructor trained in both English and History. Applicants should have a minimum 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.

Faculty Coordinator: Laurie Wolfley, Lecturer, and Dr. Helen M. Rozwadowski, Associate Professor

Mathematics

Course description

MATH 1030Q: Elementary Discrete Mathematics

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Three credits. Recommended preparation: Algebra II or the equivalent. UConn ECE Math 1030Q cannot be taken concurrent with or after UConn ECE Math 1125Q, 1126Q, 1131Q or 1132Q. Problem solving strategies, solutions of simultaneous linear equations, sequences, counting and probability, graph theory, deductive reasoning, the axiomatic method and finite geometries, number systems.

Semester offered: Fall or Spring

Student Eligibility

Successful completion of one year of pre-calculus is recommended.

Course description

MATH 1131Q: Calculus I

Four credits. Students who matriculate to UConn cannot receive credit for MATH 1131Q and 1151Q. Limits, continuity, differentiation of algebraic and transcendental functions, antidifferentiation, definite integrals, the Fundamental Theorem of Calculus, u-substitution, with applications to the physical and engineering sciences.

Semester offered: Fall Only

Student Eligibility

Successful completion of one year of pre-calculus is required. A student must pass MATH 1131Q with a grade of a "C" or higher to continue on to MATH 1132Q. To receive credit for the MATH1131Q – MATH1132Q sequence a student must pass MATH1131Q in the fall with a C or higher and continue to MATH1132Q in the following spring. The sequence must be completed in one academic year.

Course description

MATH 1132Q: Calculus II

Four credits. Prerequisite: MATH 1131Q in the immediately preceding semester. A continuation of MATH1131Q with techniques of integration, applications of integration, infinite sequences and series, power and Taylor series, polar coordinates and parametric equations, with applications to the physical sciences and engineering.

Semester offered: Spring Only

Student Eligibility

Successful completion of one year of pre-calculus is required. A student must pass MATH 1131Q with a grade of a "C" or higher to continue on to MATH 1132Q. To receive credit for the MATH1131Q – MATH1132Q sequence a student must pass MATH1131Q in the fall with a C or higher and continue to MATH1132Q in the following spring. The sequence must be completed in one academic year.

Instructor Certification Requirements

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 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

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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.

****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: Math: Core questions are given to instructors to include in final exams by the University's Mathematics Department.

Faculty Coordinator: Dr. David Gross, Lecturer and Associate Department Head

Music

Course description

MUSI 1001: Music Appreciation

Three credits. No previous training required. Intended primarily for students who are not music majors. An approach toward intelligent listening, illustrated by recordings.

Semester offered: Fall, Spring or Full-Year.

Student Eligibility

Completion of at least one year of preparatory work in music courses at the high school level is recommended.

Course description

MUSI 1004: Non-Western Music

Three credits. Intended primarily for students who are not music majors. Folk, popular, and classical musics of selected non-Western cultures, with an emphasis on the distinctive characteristics of each culture.

Semester offered: Fall, Spring or Full-Year.

Student Eligibility

Completion of at least one year of preparatory work in music courses at the high school level is recommended.

Course description

MUSI 1011: Fundamentals/Ear Training I

Three credits. Basic skills in note reading, rhythm, meter, pitch symbols, scales, key-signatures, intervals, triads, sight-singing, and dictation. No previous training is required.

Semester offered: Fall, Spring or Full-Year.

Student Eligibility

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Completion of at least one year of preparatory work in music courses at the high school level is recommended.

Course description

MUSI 1012: Fundamentals/Ear Training II

Three credits. Further development of skills in music reading, sight-singing, and dictation. Prerequisite: MUSI 1011.

Semester offered: Fall, Spring or Full-Year.

Student Eligibility

A student must pass MUSI 1011 with a grade of a "C" or higher to continue on to MUSI 1012.

Instructor Certification Requirements

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.

Faculty Coordinator: Glenn Stanley, Professor

Natural Resources and the Environment

Course description

NRE 1000: Environmental Science

Three credits. An introduction to basic concepts and areas of environmental concern and how these problems can be effectively addressed. Topics include human population; ecological principles; conservation of biological resources; biodiversity; croplands, rangelands, forestlands; soil and water conservation; pollution and water management; and wildlife and fisheries conservation. Successful completion of two years of high school science is recommended.

Semester offered: Full-Year Only

Student Eligibility

Successful completion of two years of high school science is recommended.

Instructor Certification Requirements

Instructors interested in applying should possess a Master's Degree in one of the environmental science fields (e.g. environmental biology, natural resources, chemistry, earth science, geography, economics) or an equivalent level of experience in education and study in environmental science.

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

Philosophy

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Course description

PHIL 1101: Problems of Philosophy

Three credits. Topics may include skepticism, proofs of God, knowledge of the external world, induction, free-will, the problem of evil, miracles, liberty and equality.

Semester offered: Fall, Spring or Full Year

Student Eligibility

Instructor consent is required.

Instructor Certification Requirements

Applicants should have 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 should possess as well either an M.A. in Philosophy (or closely related field) or have completed graduate coursework in Philosophy or closely related field.

Faculty Coordinator: Dr. Mitch Green, Professor

Physics

Course description

PHYS 1201Q: General Physics

Four credits. Basic facts and principles of physics. The laboratory offers fundamental training in precise measurements.

Semester offered: Fall, Spring or Full Year

Student Eligibility

Successful completion of high school Chemistry is recommended.

Course description

PHYS 1202Q: General Physics II

Four credits. Basic facts and principles of physics. The laboratory offers fundamental training in precise measurements.

Semester offered: Fall, Spring or Full Year

Student Eligibility

Successful completion of pre-calculus or introductory calculus is recommended. A student must pass PHYS 1201Q with a grade of a "C" or higher to continue on to PHYS 1202Q.

Course description

PHYS 1401Q: General Physics with Calculus

Four credits. Students who matriculate to UConn may take PHYS 1401 for not more than two credits, with the permission of the instructor, if students received credits for PHYS 1201. Quantitative study of the basic facts and principles of physics including a lab component. The laboratory offers fundamental

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training in physical measurements. Recommended for students planning to apply for admission to medical, dental or veterinary schools and also recommended for science majors for whom a one year introductory physics course is adequate.

Semester offered: Fall, Spring or Full Year

Student Eligibility

Successful completion of pre-calculus or introductory calculus is recommended.

Course description

PHYS 1402Q: General Physics with Calculus II

Four credits. Quantitative study of the basic facts and principles of physics including a lab component. The laboratory offers fundamental training in physical measurements. Recommended for students planning to apply for admission to medical, dental or veterinary schools and also recommended for science majors for whom a one year introductory physics course is adequate.

Semester offered: Fall, Spring or Full Year

Student Eligibility

Successful completion of pre-calculus or introductory calculus is recommended. A student must pass PHYS 1401Q with a grade of a "C" or higher to continue on to PHYS 1402Q.

Instructor Certification Requirements

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.

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

Faculty Coordinator: Dr. David Perry, Lecturer

Sustainable Plant and Soil Sciences

Course description

SPSS 1110: Fundamentals of Horticulture

Three credits. Salsedo Science and practice of horticultural plant propagation and culture. Basic concepts of plant structure, growth and function. Integrated pest management. Impact of new technology. Horticulture and the environment.

Semester offered: Fall, Spring or Full-Year

Student Eligibility

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Successful completion of one year of high school biology recommended.

Course description

SPSS 2520: Floral Art

Two credits. The study of flower arrangement as an art form with emphasis on historical background, artistic principles, color harmony and care of perishable media. Individual expression is encouraged in the creation of floral composition.

Semester offered: Fall, Spring or Full-Year

Student Eligibility

Successful completion of one year of high school biology recommended.

Course description

SPSS 3530: Advanced Floral Design

Two credits. Prerequisite: SPSS 2520. In-depth study of post-harvest requirements for specialized floral crops. Exposure to novel floral materials and abstract, tribute, high-style, and wedding designs. Retail price structuring, wire services, and mass-production concepts.

Semester offered: Fall, Spring or Full-Year

Student Eligibility

A student must pass SPSS 2520 with a grade of a "C" or higher to continue on to SPSS 3530.

Course description

SPSS 1150: Agricultural Technology and Society

Three credits. Development of agricultural systems and technologies and their influence on societies. Topics include plant and animal domestication, food and industrial crops and centers of production, environmental issues, and agricultural ethics.

Semester offered: Fall, Spring or Full-Year

Student Eligibility

Successful completion of one year of high school biology recommended.

Course description

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

Three credits. Scientific, legal and ethical aspects of Biotechnology, application in agriculture, health medicine, forensics, and the environment. Designed for students with diverse departmental affiliations.

Semester offered: Fall, Spring or Full-Year

Student Eligibility

Successful completion of one year of high school biology recommended.

Course description

SPSS 3240: Plant Biotechnology

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Three credits. Principles of recombinant DNA and plant gene transfer technologies. Applications of plant biotechnology in agriculture, horticulture, forestry, human/animal health care, and pharmaceutical industry. Social and environmental impacts of plant biotechnology.

Semester offered: Fall, Spring or Full-Year

Student Eligibility

A student must pass SPSS3230 with a grade of a "C" or higher to continue on to SPSS3240.

Course description

SPSS 2120: Environmental Soil Science

Three credits. Introduction to the physical, chemical and biological properties of soils. The relationship between soils and the growth of higher plants. Impact of soils on environmental quality.

Semester offered: Fall, Spring or Full-Year

Student Eligibility

Successful completion of one year of high school chemistry recommended.

Instructor Certification Requirements

The minimum requirements for instructor certification are 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. 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.

Faculty Coordinator: Dr. Julia Kuzovkina, Associate Professor

Political Science

Course description

POLS1002: Introduction to Political Theory

Three credits. Major themes of political theory such as justice, obligation, and equality, and their relevance to contemporary political concerns.

Semester offered: Fall, Spring or Full-Year

Course description

POLS 1202: Introduction to Comparative Politics

Three credits. A survey of institutions, politics, and ideologies in democratic and non-democratic states.

Semester offered: Fall, Spring or Full-Year

Course description

POLS 1402: Introduction to International Relations

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Three credits. The nature and problems of international politics.

Semester offered: Fall, Spring or Full-Year

Course description

POLS 1602: Introduction to American Politics

Three credits. Analysis of the organization and operation of the American political system.

Semester offered: Fall, Spring or Full-Year

Student Eligibility POLS 1002, 1202, 1402, & 1602:

One year of high school history or high school civics; or instructor consent is recommended.

Instructor Certification Requirements

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. All applicants must include a copy of the course syllabus with their application. Without a syllabus instructors cannot be certified. 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.

Faculty Coordinator: Mr. Frederick Turner, Professor Emeritus

Sociology*

Course description

SOCI 1001: Introduction to Sociology*

Three credits. Modern society and its social organization, institutions, communities, groups, and social roles: the socialization of individuals, family, gender, race and ethnicity, religion, social class, crime and deviance, population, cities, political economy, and social change.

Semester offered: Fall, Spring or Full-Year.

Student Eligibility

Successful completion of at least one year of a high school history or social studies course or instructor consent is recommended.

Instructor Certification Requirements

A syllabus of the proposed course and either: 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).

Faculty Coordinator: Dr. Mary Bernstein, Professor

Spanish

Course description

SPAN 3177: Composition & Reading for Spanish Speakers

Three credits. Grammar, written composition, and readings for speakers of Spanish with little or no formal training. Emphasis is on Puerto Rican literature.

Semester offered: Fall, Spring or Full-Year

Student Eligibility

Instructor consent.

Course description

SPAN 3178: Intermediate Spanish Composition

Three credits. This course provides a thorough review of grammar and methodical practice in composition leading to command of practical idioms and vocabulary.

Semester offered: Fall, Spring or Full-Year

Student Eligibility

Successful completion of three or more years of high school Spanish or instructor consent is recommended.

Course description

SPAN 3179: Spanish Conversation: Cultural Topics

Three credits. Recommended preparation is completion of SPAN 3178. In-depth development of speaking skills through cultural readings, group discussions and oral presentations on selected topics concerning the Spanish-speaking world.

Semester offered: Fall, Spring or Full-Year

Student Eligibility

Successful completion of three or more years of high school Spanish, successful completion of SPAN 3178, or instructor consent is recommended.

Instructor Certification Requirements

The instructor must have a Bachelors Degree in Spanish and a Masters Degree in Spanish. If the instructor has a Bachelors Degree in Spanish and a Masters 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.

Faculty Coordinators: Dr. Ana Maria Diaz-Marcos, Associate Professor; Dr. Laurietz Seda, Associate Professor

Statistics

Course description

STAT 1100Q: Elementary Concepts of Statistics

Four credits. A standard approach to statistical analysis primarily for students of business and economics; elementary probability, sampling distributions, normal theory estimation and hypothesis testing, regression and correlation, exploratory data analysis. Learning to do statistical analysis on a personal computer is an integral part of the course.

Semester offered: Fall, Spring or Full-Year

Student Eligibility

Successful completion of Intermediate Algebra/ Algebra II is required.

Instructor Certification Requirements

The certification 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: <http://catalog.uconn.edu/stat/> 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.

Note: Instructors must upload final exam for preview by UConn's Statistics Department before administering it. Instructors may use sample exams for format as well as incorporate those problems into their exams.

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

US History

Course description

HIST 1501: United States History to 1877

Three credits. Surveys political, economic, social, and cultural developments in American history through the Civil War and Reconstruction.

Semester offered: Fall, Spring or Full-Year

Student Eligibility

Successful completion of at least one year of a high school history course recommended.

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Course description

HIST 1502: United States History Since 1877

Three credits. Surveys political, economic, social, and cultural developments in American history from 1877 to the present.

Semester offered: Fall, Spring or Full-Year

Student Eligibility

Successful completion of at least one year of a high school history course recommended.

Instructor Certification Requirements

The minimum degree requirement for teachers wishing to teach UConn ECE History courses is a Bachelor's of Arts in History along with history coursework completed at the graduate level. A Master's in History or Education is preferred.

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.

Faculty Coordinator: Dr. Matthew McKenzie, Associate Professor