UCONN

EARLY COLLEGE EXPERIENCE

Course Guide (2026-2027)

Agricultural and Resource Economics

ARE 1110E: Population, Food, and the Environment

Credits: 3. *Semester: Fall, Spring, or Full-year*

Description:

The role of agriculture in the growth and development of societies throughout the world. Economic, social, and environmental problems of food production and resource needs in developing and advanced societies.

Student Eligibility:

Instructor consent is required.

ARE 2210: Essentials of Accounting and Business

Credits: 3. *Semester: Fall, Spring, or Full-year*

Description:

An analysis of basic business principle, fundamentals, and concepts for agribusiness entrepreneurs.

Student Eligibility:

Instructor consent is required.

Instructor Certification Requirements:

The minimum degree requirement for instructors wishing to teach UConn ECE Agricultural & Resources Economics courses can be met through the following options. Preferred applicants will have a Master's Degree or relevant graduate coursework in a closely related field (as judged by the UConn ARE Department).

Option 1: Instructors should have a Business BA/BS degree and hold a teaching certification endorsed for #010 Business, 7-12; or

Option 2: Instructors should have an agricultural education, natural resources, or a similar BA/BS degree and hold a CT teaching certification endorsed for either #040 Agriculture, PreK-12 or #041 Vocational Agriculture, 7-12; or

Option 3: Instructors should have an environmental science (ARE1110E only), applied economics, resource economics, or a similar BA/BS degree w/relevant coursework; or

Option 4: Instructors hold a Master's Degree in Education and sufficient undergraduate or graduate courses in accounting (ARE2210 only), environmental science (ARE1110E only), economics/resource economics, or business and/or relevant professional development activities.

For this course, the first year of certification is provisional, and the faculty course coordinator will mentor the UConn ECE Instructor and oversee implementation of the syllabus and instruction.

Allied Health Sciences

AH 1100: Introduction to Allied Health Professions

Credits: 1. *Semester: Fall or Spring*

Description:

Overview of health professions, team approach to health care delivery.

Student Eligibility:

Instructor consent is required.

AH 2001: Medical Terminology

Credits: 2. *Semester: Fall, Spring, or Full-year*

Description:

Introduction and mastery of medical terminology through presentation of word roots, prefixes and suffixes. Disease processes, symptoms, diagnosis, and treatments that affect various body systems. Terminology associated with disease processes, symptoms, diagnosis, clinical procedures, laboratory tests, and treatments that affect various body systems.

Student Eligibility:

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

AH 4092: EMT Training

Credits: 4. *Semester: Full-year only*

Description:

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).

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.

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 Sign Language

ASLN 1102: Elementary American Sign Language

Credits: 4. *Semester: Full-year only*

Description:

Continued development of basic knowledge and understanding of conversational ASL.

Student Eligibility:

Two or more years of high school ASL, or instructor's consent, is required.

Instructor Certification Requirements:

The minimum degree requirement for instructors wishing to teach UConn Early College Experience ASL Courses can be met through the following options. Preferred applicants will have a master's degree in ASL education or relevant graduate coursework in a closely related field.

Option 1: A master's degree in ASL Education; or

Option 2: A related BA/BS degree and hold a CT teaching certification endorsed for either #057 and #024; or

Option: 3: A master's degree in education with a sufficiently strong ASL background as demonstrated by a passing score of 3+ or higher on the American Sign Language Proficiency Interview (ASLPI).

American Studies

AMST 1201: Introduction to American Studies

Credits: 3. *Semester: Fall, Spring, or Full-year*

Description:

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

Student Eligibility:

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

Instructor Certification Requirements:

The preferred requirement for certification in American Studies is a Master's Degree in American Studies. However, applicants with a Master's Degree in Education, paired with a Bachelor's Degree in English or History, may also be eligible to offer AMST 1201. These applicants must have:

- successfully completed one graduate-level course in American Studies Methodology or an equivalent class in American Studies (applicants must explain why this is an equivalent class)
- successfully completed one additional graduate-level course—either in American History (for those with an English degree) or in Literature or Literary Analysis, preferably focused on American Literature (for those with a History degree)

- a minimum of five years of teaching experience at the high school level, specifically in teaching American History, Literature, or American Studies

This course may be team taught between a History and English instructor, where each have at least a Bachelor's Degree and some graduate level training within their respective majors and each have successfully completed one graduate-level course in American Studies Methodology or an equivalent class in American Studies (applicants must explain why this is an equivalent class).

Animal Science

ANSC 1602: Behavior and Training of Domestic Animals

Credits: 3. *Semester: Fall, Spring, or Full-year*

Description:

Application of behavior of cattle, horses, sheep, goats, swine and poultry and companion animals to their management, training and welfare. Basic principles of genetics and physiology of behavior, perception, training, learning, motivation, and stress with consideration of integrated behavioral management and animal welfare. Students are required to have access to an animal that they will train throughout the semester; the Department of Animal Science will not necessarily provide animals for training.

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.

ANSC 1676: Introduction to Companion Animals

Credits: 3. *Semester: Fall, Spring, or Full-year*

Description:

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

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 or instructor consent is required.

ANSC 2251: Horse Science

Credits: 3. *Semester: as the last course in a four semester sequence.*

Description:

Valuable to 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 production and use.

Student Eligibility:

Student must be enrolled in an Agriscience program in Connecticut. ANSC 2251 must be offered as the last course in a four semester sequence (of animal science and horse science courses). ANSC 2251 is an advanced course and before enrollment, students must successfully complete Biology and least one year (or two semesters) of an introductory high school course specifically in horse science (not as a portion of another class).

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 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

ANTH 1000: Peoples and Cultures of the World

Credits: 3. *Semester: Fall, Spring, or Full-year*

Description:

An introduction to the anthropological understanding of human society through ethnographic case studies of selected peoples and cultures, exploring the richness and variety of human life. Encourages students to learn about different cultures and to apply their knowledge to make sense of their own society.

Student Eligibility:

Successful completion of two years of high school or equivalent through grade advancement and instructor consent is required.

ANTH 1500: Great Discoveries in Archeology

Credits: 3. *Semester: Fall, Spring, or Full-year*

Description:

Surveys of important discoveries in archeology spanning the whole of human prehistory across the globe. Current issues, methods, and techniques in the field of archeology.

Student Eligibility:

Successful completion of two years of high school or equivalent through grade advancement and instructor consent is required.

Instructor Certification Requirements:

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.

Arabic

Arab 1001: Elementary Arabic I
Credits: 4. *Semester: Full-year only*
Description:
Beginning Modern Standard Arabic. Emphasis on speaking, listening, reading, and writing skills. Taught in Arabic.
Student Eligibility:
Instructor consent required

Arab 1002: Elementary Arabic II
Credits: 4. *Semester: Full-year only*
Description:
Beginning Modern Standard Arabic. Emphasis on speaking, listening, reading, and writing skills. Taught in Arabic.
Student Eligibility:
Instructor consent required

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

Art

Art 1030: Drawing I
Credits: 3. *Semester: Fall, Spring, or Full-year*
Description:
Fundamental principles of drawing based on observation.
Student Eligibility:
Successful completion of one full year of high school art instruction is recommended.

Instructor Certification Requirements:
The preferred degree requirement for teachers wishing to teach Early College Experience art courses is a BA or BFA in a studio art discipline and a Master of Fine Arts. Applicants with a Master's in Education or other appropriate field can be approved. As UConn adjunct faculty members are professionally active, preferred applicants should demonstrate continuing creative activity external to their educational position. Examples may include (but are not limited to): participation in shows; membership in professional art societies; activity with community art organizations; publications; competitions; art conference participation or presentations; art residencies or fellowships; grants or other funding for artistic projects.

Examples of the applicant's personal and students' work are required components of the application:

Portfolio of Student Work – 15-20 pieces created within the last five years:

Include:

- Black and white work using traditional media (charcoal, graphite, ink, etc.)
- Observed still life and perspective drawing examples (necessary for evaluation)
- Work demonstrating an understanding of the fundamentals of linear perspective, contour line, light and shadow, volume, and composition
- Work in charcoal, graphite, and ink. These are preferable media. Some use of markers is acceptable. The portfolio should be composed primarily of work created using traditional media
- Landscape and portrait work, done from life, can be included but should not be primary
- Label work with media and year of completion
- Work created from a student's own photography should be labeled as such. If included it should be a small part of the portfolio

Do Not Include:

- Work in color. The use of color is not included in ART 1030, Drawing I
- Figure Drawing. Figure work is not included in ART 1030, Drawing I
- Work created from appropriated photographs

Portfolio of Instructor's Work - 15-20 pieces created within the last five years:

- Work showing evidence of the principles of drawing covered in ART 1030, Drawing I), is encouraged but not entirely necessary. These principles include perspective drawing, understanding of line, contour, value, composition, and so on
- Label work with media and year of completion

How to Submit:

- Please provde a link with your application as to where your portfolio work can be referenced
- Make sure instructor and student portfolio samples are clearly identified
- Do not e-mail images

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.

Asian and Asian American Studies

AAAS 2201: Introduction to Asian American Studies
Credits: 3. *Semester: Fall, Spring, or Full-year*
Description:
A multidisciplinary and interdisciplinary introduction to major themes in Asian American Studies. Concepts of identity and community, migration and labor histories, Asians and the law, representations of Asians in visual and popular culture, gender issues, interracial and interethnic relations, and human rights.

Student Eligibility:

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

Instructor Certification Requirements:

There are two routes to certification (existing credentials or curriculum lab participation) Existing credentials: possession of an Asian American Studies degree or course work a related humanities field such as History, Literature, Political Science, and Sociology with Asian American content. Curriculum lab participation: teachers may gain certification through participation in the Asian and Asian American Studies Institute's Advanced Pedagogy Curriculum Lab. Other preferred experience includes: an interdisciplinary training or demonstrated practice of interdisciplinary teaching; a master's degree with graduate-level coursework relevant to Asian American studies or related content; participation/membership in local/national organizations related to work with Asian Americans. Instructors must provide compelling evidence that their proposed course is equivalent in rigor and scope to its equivalent at the University of Connecticut.

Biological Sciences

BIOL 1107: Principles of Biology I

Credits: 4. *Semester: Fall, Spring, or Full-year*

Description:

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. Lab exercises include dissection of preserved animals.

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.

BIOL 1108: Principles of Biology II

Credits: 4. *Semester: Fall, Spring, or Full-year*

Description:

Designed to provide a foundation for more advanced courses in Biology and related sciences. Topics covered include evolution and population genetics, plant physiology and diversity, animal diversity and behavior, and ecology.

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, 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.

Business

BUSN 2235: Personal Financial Literacy

Credits: 3. *Semester: Fall, Spring, or Full-year*

Description:

Introduction to essential topics in personal finance for individuals and entrepreneurs. Financial literacy, personal finance topics including recordkeeping, budgeting, risk, insurance, credit, purchasing decisions, savings/investment options, income taxation of individuals and small businesses, and retirement savings.

Student Eligibility:

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

Instructor Certification Requirements:

The minimum degree requirement for instructors wishing to teach UConn ECE Business courses can be met through the following options. Minimally applicants will have a Bachelor's Degree in Accounting, Economics, Finance, Mathematics or a closely related field. Preferred applicants will have a Master's Degree in Accounting, Economics, Finance, Mathematics or in a closely related field (as judged by the UConn BUSN Department).

A candidate with a Master's Degree in Education may also be considered if coupled with a strong undergraduate program and appropriate teaching experience:

Option 1: Instructors have a Business or Accounting BA/BS degree and hold a teaching certification endorsed for either #010 Business (7-12) or #089 Marketing Education (7-12); or

Option 2: Instructors have a Mathematics, Accounting, or Finance BA/BS degree with relevant coursework and hold a teaching certification endorsed for #029 Mathematics (7-12); or

Option 3: Instructors have an Economics BA/BS degree with relevant coursework and hold a teaching certification endorsed for #025/#026 Social Studies (7-12).

Chemistry

CHEM 1124Q: Fundamentals of General Chemistry I

Credits: 4. *Semester: Fall only*

Description:

Designed to provide a foundation for the principles of chemistry with special guidance provided for the quantitative aspects of the material. Topics include the physical and chemical properties of some elements, chemical stoichiometry, gases, atomic theory, and covalent bonding.

Student Eligibility:

Successful completion of basic algebra is recommended. Not open to students who have passed CHEM 1127Q.

CHEM 1125Q: Fundamentals of General Chemistry II

Credits: 4. *Semester: Spring only*

Description:

Topics include the properties of aqueous solutions, thermochemistry, properties of gases, and chemical equilibria.

Student Eligibility:

Successful completion of basic algebra is recommended. Not open to students who have passed CHEM 1128Q. A student must pass CHEM 1124Q with a grade of a "C" or higher to continue to CHEM 1125Q.

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, who holds a CT teaching certification endorsed for #041 (Chemistry, 4-12) and demonstrates a sufficiently strong and well-balanced chemistry background may be also considered for certification. Generally candidates are expected to have successfully completed the following coursework:

- 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) (UConn CHEM 3563 – Physical Chemistry I satisfies this requirement)

*Please note that certification for CHEM 1124Q/CHEM 1125Q may not automatically qualify for CHEM 1127Q/CHEM 1128Q

Note: CHEM 1127Q and CHEM 1128Q 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.

CHEM 1127Q; General Chemistry I

Credits: 4. *Semester: Fall or Full-year*

Description:

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. Quantitative measurements illustrating the laws of chemical combination in the laboratory component.

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.

CHEM 1128Q: General Chemistry II

Credits: 4. *Semester: Spring only*

Description:

Equilibrium, thermodynamics, nuclear chemistry, and kinetics. Properties of some of the more familiar elements and their compounds. Equilibrium in solutions and reactions of the common cations and anions in the laboratory component.

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)

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

CHIN 3210: Chinese Conversation and Composition I
Credits: 3. *Semester: Fall only*
Description:
Development of ability to communicate in Chinese, orally and in writing.
Student Eligibility:
Successful completion of CHIN 1114, or instructor's consent, is required.

CHIN 1114: Intermediate Chinese II
Credits: 4. *Semester: Full-year only*
Description:
Development of ability to communicate in Chinese, orally and in writing.
Student Eligibility:
Three or more years of high school Chinese, or instructor's consent, is required. Not open for credits to students who have passed CHIN 3210.

CHIN 3211: Chinese Conversation and Composition II
Credits: 3. *Semester: Spring only*
Description:
Development of ability to communicate in Chinese, orally and in writing.
Student Eligibility:
Successful completion of CHIN 3210, or instructor's consent, is required.

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

Civil Engineering

CE 2110: Applied Mechanics I
Credits: 3. *Semester: Fall, Spring, or Full-year*

Description:

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.

Student Eligibility:

Successful completion or concurrent enrollment in MATH 1131Q or AP Calculus is required.

Instructor Certification Requirements:

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

CAMS 1103: Classical Mythology

Credits: 3. *Semester: Fall, Spring, or Full-year*

Description:

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.

Student Eligibility:

Instructor consent is required.

CAMS 3101: Topics in Advanced Greek

Credits: 3. *Semester: Fall, Spring, or Full-year*

Description:

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.

Student Eligibility:

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

CAMS 3102: Topics in Advanced Latin

Credits: 3. *Semester: Fall, Spring, or Full-year*

Description:

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

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 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.

Communications

COMM 1000: The Process of Communication

Credits: 3. *Semester: Fall, Spring, or Full-year*

Description:

A study of modern communication theories and principles useful in understanding how people affect and are affected by others through communication.

Student Eligibility:

The preferred degree requirement for instructors wishing to teach UConn Communication courses through Early College Experience is a Master's degree in Communication and three years of Communication teaching experience or related teaching experience at the high school level.

Instructor Certification Requirements:

The minimum degree requirement for instructors seeking Communication certification is a Bachelor's degree in Communication or related social science field (such as, but not limited to Psychology, Sociology, Political Science) and a conferred Master's degree in Education or a related field. Successful completion of three graduate level Communication courses from an accredited college or University, and three years of Communication teaching experience or related teaching experience at the high school level is also required.

All newly approved Instructors will be certified on a first year provisional basis and required to audit UConn's Comm 1000 and/or 1100 course(s) before their first year of teaching. Pending recommendation by the Faculty Coordinator, certification can be updated from provisional to full status at the end of the academic year.

COMM 1100: Principles of Public Speaking

Credits: 3. *Semester: Fall, Spring, or Full-year*

Description:

Theory and performance in public speaking: methods for organizing presentation and delivery skills, overcoming anxiety of speaking in public; audience analysis; maximizing message impact; professional presentation skills; evidence; listening and speech evaluation.

Student Eligibility:

Successful completion of at least one year of a high school social studies course, two years of English/Language or instructor consent is recommended.

Instructor Certification Requirements:

The preferred degree requirement for instructors wishing to teach UConn Communication courses through Early College Experience is a Master's degree in Communication and three years of Communication teaching experience or related teaching experience at the high school level.

The minimum degree requirement for instructors seeking Communication certification is a Bachelor's degree in Communication or related social science field (such as, but not limited to Psychology, Sociology, Political Science) and a conferred Master's degree in Education or a related field. Successful completion of three graduate level Communication courses from an accredited college or University, and three years of Communication teaching experience or related teaching experience at the high school level is also required.

All newly approved Instructors will be certified on a first year provisional basis and required to audit UConn's Comm 1000 and/or 1100 course(s) before their first year of teaching. Pending recommendation by the Faculty Coordinator, certification can be updated from provisional to full status at the end of the academic year.

Computer Science and Engineering

CSE 1010: Introduction to Computing for Engineers

Credits: 3. *Semester: Fall, Spring, or Full-year*

Description:

Introduction to computing logic, algorithmic thinking, computing processes, a programming language and computing environment. Knowledge obtained in this course enables use of the computer as an instrument to solve computing problems. Representative problems from science, mathematics, and engineering will be solved.

Student Eligibility:

Instructor consent is required.

Instructor Certification Requirements:

The preferred requirement for instructors wishing to teach UConn ECE Computer Science is a Master's degree in computer sciences, or a Master's in a related field with appropriate level undergraduate computer science background. A candidate with a Master's in Education and an appropriate computer science background and relevant computer science teaching experience may be considered.

All candidates will be required to attend a 1-week CSE Professional Development Summer Workshop hosted by UConn to obtain ECE instructor status.

Digital Media & Design

DMD 1002: Foundations in Digital Media II

Credits: 3. *Semester: Fall, Spring, or Full-year*

Description:

Introduction to the fundamentals of storytelling using a variety of practical digital media applications.

Student Eligibility:

- Students must have the ability to access Adobe CC = computer + account, or another professional raster-based image editing suite, and professional-level video editing suite
- Students must possess digital literacy skills and can understand to set up a project and organize documents

DMD 1101: Design Lab I

Credits: 3. *Semester: Fall, Spring, or Full-year*

Description:

Exploration of the creation, manipulation, and reception of digital images through project-based work using image-editing software. Through lecture, discussion, projects, and critique, students will develop, refine, and evaluate digital images and understand their artistic, social, and ethical ramifications.

Student Eligibility:

- Students must have the ability to access Adobe CC = computer + account, or another professional raster-based image editing suite
- Students must possess digital literacy skills and can understand to set up a project and organize documents
- Students must have basic drawing skills

DMD 1102: Design Lab II

Credits: 3. *Semester: Fall, Spring, or Full-year*

Description:

Theory, principles, and practices of digital screen-based visual communication. Through a multi-disciplinary perspective involving art, design, art history, and media studies, students will address how culture visualizes screen-based communication through both image and type.

Student Eligibility:

- Students must have the ability to access Adobe CC = computer + account, or another professional raster-based image editing suite, and professional-level video editing suite
- Students must possess digital literacy skills and can understand to set up a project and organize documents

DMD 2210: Film and Video Editing I

Credits: 3. *Semester: Fall, Spring, or Full-year*

Description:

Introduction to digital editing, project management, working with sound, and time-based storytelling.

Student Eligibility:

- Students must have the ability to access Adobe CC = computer + account, or another professional-level video editing suite
- Students must possess digital literacy skills and can understand to set up a project and organize documents

DMD 2500: Introduction to Game Design

Credits: 3. *Semester: Fall, Spring, or Full-year*

Description:

Introduction to the principles of game design and development. History of the industry, story, and game mechanics.

Student Eligibility:

- Students must have the ability to access a professional game development tool such as Unity, Unreal, Godot, or Construct3
- Students must possess digital literacy skills and can understand to set up a project and organize documents

Instructor Certification Requirements:

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). Please provide link with your application as to where your portfolio work can be referenced, making sure instructor and student portfolio samples are clearly identified. 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)

Dramatic Arts

DRAM 1101: Introduction to Theatre
Credits: 3. *Semester: Fall, Spring, or Full-year*
Description:
Analysis of the functions of the theatre artists and their contribution to the modern theatre.
Student Eligibility:
Eligibility Guidelines: Successful completion of one year of high school English is recommend.

DRAM 3141: Playwriting
Credits: 3. *Semester: Fall, Spring, or Full-year*
Description:
The writing, workshopping, revision, and structuring of plays. Key themes include character development, world-building, action, the voice of the playwright, incorporating dramaturgical feedback, revision, and cultivating consistent writing habits.
Student Eligibility:
Eligibility Guidelines: Successful completion of two years of high school English, or instructor consent, is recommended. ENGL 1007 is recommended as preparation.

Instructor Certification Requirements:
The preferred degree requirements for teachers wishing to teach Early College Experience Dramatic Arts courses is a BA or BFA in Theater/Drama/Performance and a Master of Fine Arts or PhD.

Applicants with a master's degree in education or other appropriate field, successful teaching experience within the dramatic arts, and demonstrated experience with the following unique instructor requirements may be approved.

DRAM 1101 Applicants should reflect a deep understanding of both theatre theory and practice, including acting techniques, directing, play analysis, playwriting, dramaturgy, and production design.

DRAM 3141 Applicants must possess a basic understanding of playwriting principles, teaching dramatic structure, character, and dialogue. Experience with monologue and scene writing as well as familiarity with staged readings, script development and the new play development pipeline is strongly preferred. In addition, a qualified applicant should have experience with peer workshop models and feedback methods such as Liz Lerman's methods in the critical response process. Experience with devised theatre methodology is also highly desirable.

As UConn adjunct faculty members are professionally active, preferred applicants should demonstrate ongoing creative engagement beyond their academic roles. This may include but is not limited to professional experience in theatre (e.g., acting, directing, playwriting, dramaturgy) ; membership in professional theatre organizations, professional associations/societies; activity with theatre organizations; production or publications; competitions; theatre conference participation or presentations; residencies or fellowships; grants or other funding for artistic projects.

Professional and students work samples are required components of the application:

DRAM 1101 Portfolio

Instructor Work:

Sample course syllabus, sample lesson plans

Examples of acting, directing, playwriting, or design work

Current Exemplary Student Work:

Two items each: creative work in acting, directing, playwriting, and/or design

DRAM 3141 Portfolio

Instructor Work:

Sample course syllabus

Examples of full-length play, 10-minute plays, and monologues

Current Exemplary Student Work:

Two items each: full-length play and 10-minute plays

How to Submit:

Please provide a link with your application as to where your portfolio work can be referenced

Make sure instructor and student portfolio samples are clearly identified

Upon reviewing the application materials, the faculty coordinator in Dramatic Arts may wish to schedule an interview with the candidate.

Earth Sciences

ERTH 1000E: The Human Epoch: Living in the Anthropocene

Credits: 3. *Semester: Fall, Spring, or Full-year*

Description:

Introduction to geoscience focusing on human activities as agents of geologic change. Examines human planetary processes in our current epoch, the Anthropocene. Provides a novel frame for contemporary environmental issues such as climate change, sustainability, mass extinctions, land use, and waste disposal. Interaction between earthly processes and human affairs.

Student Eligibility:

Successful completion of basic earth science coursework.

ERTH 1051: Earth's Dynamic Environment

Credits: 3. *Semester: Fall, Spring, or Full-year*

Description:

Origin and history of planet Earth, emphasizing how rock, air, water, and life interact at different scales to produce the earth's crust, landforms, life systems, natural resources, catastrophes, and climatic regimes. Provides a scientific context for human-induced global change.

Student Eligibility:

Successful completion of basic earth science coursework. Proficiency in basic algebra and geometry is required.

ERTH 2800E: Our Evolving Atmosphere

Credits: 3. *Semester: Fall, Spring, or Full-year*

Description:

An introduction to atmospheric science, including a history of the field, features of the atmosphere, weather forecasting, and a geologic history of climate change.

Student Eligibility:

Successful completion of basic earth science coursework. Proficiency in basic algebra and geometry is required.

Instructor Certification Requirements:

The minimum requirements for instructors wishing to teach UConn Early College Experience Earth Sciences courses are typically a Master's of Science in geology, geoscience**,** environmental science 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 one of the Earth Sciences, a Bachelor's of Science in the natural sciences with college level Earth Science, and 4 years high school science teaching experience. Applicants should provide a proposed course syllabus that follows the UConn schedule for ERTH 1000E, ERTH 1051 and ERTH 2800 as listed in the sample syllabus closely to ensure course comparability.

Economics

ECON 1000: Essentials of Economics

Credits: 3. *Semester: Fall, Spring, or Full-year*

Description:

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.

Student Eligibility:

Successful completion or simultaneous enrollment in Intermediate Algebra/Algebra II and Geometry are required. Not open to students who are currently enrolled in or who have passed ECON 1201 or 1202.

ECON 1201: Principles of Microeconomics

Credits: 3. *Semester: Fall, Spring, or Full-year*

Description:

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).

Student Eligibility:

Successful completion or simultaneous enrollment in Intermediate Algebra/Algebra II and Geometry are required. May be taken before or after ECON 1202.

ECON 1202: Principles of Macroeconomics

Credits: 3. *Semester: Fall, Spring, or Full-year*

Description:

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).

Student Eligibility:

Successful completion or simultaneous enrollment in Intermediate Algebra/Algebra II and Geometry are required. May be taken before or after ECON 1201.

Instructor Certification Requirements:

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.

All proposed syllabi submitted with an application should include a grade comparability statement denoting the possible differences between a students high school and UConn course grades.

Education

EDCI 1100: If You Love It, Teach It

Credits: 3. *Semester: Fall, Spring, or Full-year*

Description:

Studies of K-12 teaching, learning, and schooling in the United States; historical, philosophical, and social foundations of education as well as self-study to reimagine educational futures.

Student Eligibility:

Successful completion of three years of high school English.

EDLR 1162: Health and Education in Urban Communities

Credits: 1. *Semester: Fall, Spring, or Full-year*

Description:

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.

Student Eligibility:

Instructor consent is required.

EDLR 2001: Contemporary Social Issues in Sport

Credits: 3. *Semester: Fall, Spring, or Full-year*

Description:

Socio-cultural, economic, political, and other related issues in sport. Sport as a social institution, the impact of sport in American culture, and the impact of American culture on sport. Sport at the youth, intercollegiate, professional, and international levels; how sport at these levels is experienced differently by individuals, communities, organizations, and society. Issues in sport relative to gender, race (ethnicity), differing physical and intellectual ability, sexual identity, and gender identity.

Student Eligibility:

Instructor consent is required.

EPSY 1100; Introduction to Special Education

Credits: 3. *Semester: Fall, Spring, or Full-year*

Description:

Special education services in American education, including various exceptionalities and the roles of professionals.

Student Eligibility:

Instructor consent is required.

Instructor Certification Requirements:

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 UConn 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 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 UConn ECE Instructor and oversee implementation of the syllabus, instruction and service learning component of the course.

In addition to the UConn 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 UConn ECE course.

The minimum degree requirements for teachers wishing to teach EPSY 1100 courses is a Master's degree in Special Education or Sixth Year certificate in special education and experience as a special education teacher. 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.

Engineering

ENGR 2001: AI Literacy (AI for All)
Credits: 3. *Semester: Fall or Spring*

Description:

Introduction to artificial intelligence tools for learning, creative work, and problem solving. Emphasis on developing effective prompts, incorporating instructor and peer feedback, refining drafts and prototypes, and evaluating AI-generated outputs while maintaining independent judgment and authorship. Consideration of ethical and social issues including privacy, bias, transparency, accuracy, accessibility, and the appropriate role of AI in academic and professional contexts. Coursework includes lectures, hands-on labs with AI systems, case studies from multiple disciplines, and written reflections connecting AI use to students' own learning practices. Open to all majors, and no prior experience with AI is required

Student Eligibility:

Successful completion of two years of high school STEM and Humanities coursework is recommended.

Instructor Certification Requirements:

The preferred degree requirements for instructors wishing to teach UConn ECE AI Literacy are as follows. Minimally, applicants will hold a master's degree in their content area or in Education with demonstrated previous experience supporting digital literacy, ethical conversations and incorporating technology in the classroom. Applicants who have experience in computer science, programming, or AI and/or the integration of

technology in the classroom may be best situated to demonstrate proficiency with AI workflows and learning models and engage in collegiate level dialogue regarding the technology's societal impact, critical thinking about AI, and novel application.

*Instructor candidates must be sure to highlight their experience with Frontier GenAI platforms through their cover letter & resume/CV as part of the application.

This course can exist in STEM, humanities and CTE departments inclusive of those course offerings delivered by educators who hold #062, School Library Media Specialist, certification.

For this course, the first year of certification is provisional, and the UConn faculty coordinator will mentor the UConn ECE Instructor and oversee implementation of the syllabus and instruction. Full certification is dependent upon an instructors' successful first year of teaching the course as determined by the ECE faculty coordinator for ENGR 1195.

English

ENGL 1004: Introduction to Academic Writing

Credits: 4. *Semester: Fall, Spring, or Full-year*

Description:

Development of the reading and writing skills essential to university work. Students placed in ENGL 1004 must pass the course before electing ENGL 1007.

ENGL 1004 is designed to support students who would benefit from a preparatory English course that carries college credit, but have not yet enrolled in ENGL 1007. Please contact the UConn ECE Program Office before considering offering the course as it is not open without approval from our office.

Student Eligibility:

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

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

Credits: 4. *Semester: Fall, Spring, or Full-year*

Description:

College composition through multiple forms of literacy, including rhetorical, digital, and information literacies necessary for twenty-first-century contexts. The development of creatively intellectual inquiries through sustained engagement with texts, ideas, and problems. Emphasis on transfer of writing and rhetorical skills to academic and daily life. ENGL 1007 includes a built-in one-credit studio component.

Student Eligibility:

Successful completion of two years of high school English is required. Students placed in ENGL 1004 must pass that class before enrolling in ENGL 1007.

ENGL 3082: Writing Center Practicum

Credits: 1. *Semester: Fall, Spring, or Full-year*

Description:

Introduction to Writing Center pedagogy, theory and research methods. Intended primarily for students staffing UConn ECE Partner School Writing Centers. Students taking this course will be assigned a grade of S (satisfactory) or U (unsatisfactory).

Student Eligibility:

Successful completion of two years of high school English is required. Students should either be enrolled, planning to enroll, or have successful completed ENGL 1007.

French

FREN 3250: Global Culture I

Credits: 3. *Semester: Fall or Full-year*

Description:

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.

Student Eligibility:

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

FREN 3268: Grammar and Composition

Credits: 3. *Semester: Spring or Full-year*

Description:

Advanced study of French texts and extensive written practice in a variety of forms ranging from compositions, essays, summaries, and film reviews.

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.

Sample course syllabus, sample lesson plans

German

GERM 3233: Building Language Skills through Culture I

Credits: 3. *Semester: Fall, Spring, or Full-year*

Description:

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.

Student Eligibility:

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

GERM 3255: Studies in 20th Century German Literature

Credits: 3. *Semester: Fall, Spring, or Full-year*

Description:

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.

Student Eligibility:

Successful completion of GERM 3233 is required.

Instructor Certification Requirements:

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

HIST 1300: Western Traditions Before 1500

Credits: 3. *Semester: Fall, Spring, or Full-year*

Description:

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

Student Eligibility:

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

HIST 1400: Modern Western Traditions

Credits: 3. *Semester: Fall, Spring, or Full-year*

Description:

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

Student Eligibility:

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

HIST 1501: United States History to 1877

Credits: 3. *Semester: Fall, Spring, or Full-year*

Description:

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

Student Eligibility:

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

HIST 1502: United States History Since 1877

Credits: 3. *Semester: Fall, Spring, or Full-year*

Description:

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

Student Eligibility:

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

Instructor Certification Requirements:

The minimum degree requirement for instructors wishing to teach **Western** 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 in an emphasis on reading, discussing, and interpreting primary sources.

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 in an emphasis on reading, discussing and interpreting primary sources.

Human Development & Family Sciences

HDFS 1070: Individual & Family Development

Credits: 3. *Semester: Fall, Spring, or Full-year*

Description:

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

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:

Two items each: creative work in acting, directing, playwriting, and/or design

Human Rights

HRTS 1007: Introduction to Human Rights

Credits: 3. *Semester: Fall, Spring, or Full-year*

Description:

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

Student Eligibility:

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

HRTS 2200: Introduction to Genocide Studies

Credits: 3. *Semester: Fall, Spring, or Full-year*

Description:

Interdisciplinary introduction to the study of genocide as an historical, legal, social, political, and conceptual phenomenon, including response, prevention, and commemoration efforts.

Student Eligibility:

Successful completion of three years of high school social studies courses (to include world history and/or world geography), or consent of the instructor, is recommended.

Instructor Certification Requirements:

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.

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

ILCS 3239: Composition & Conversation I

Credits: 3. *Semester: Fall, Spring, or Full-year*

Description:

Practice in written and oral composition. Syntax study.

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.

ILCS 3240: Composition & Conversation II

Credits: 3. *Semester: Fall, Spring, or Full-year*

Description:

Further practice in written and oral composition. Treatment of the finer points in syntax.

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.

Kinesiology

KINS 1100: Exercise and Wellness for Everyone

Credits: 3. *Semester: Fall, Spring, or Full-year*

Description:

Overview of the five pillars of health (exercise, nutrition, sleep, stress and relationships); role of exercise in health promotion and disease prevention across the lifespan; impacts of exercise in leisure time, culture, community, careers and the workplace

Student Eligibility:

Eligibility Guidelines: Successful completion of 1 year of high school physical education courses (including health), or consent of the instructor, is recommended.

Instructor Certification Requirements:

The minimum degree requirement for instructors wishing to teach UConn Early College Experience Kinesiology Courses can be met through the following options. Preferred applicants will have a master's degree in Kinesiology or relevant graduate coursework in a closely related field.

Option 1: A Master's degree in Kinesiology, Exercise Science, or closely related field; or

Option 2: A Master's degree in education with a Bachelor's degree in Kinesiology or closely related field, and hold a CT teaching certification endorsed for either #043 (Health, PK-12) or #044 (Physical Education, PK-12).

Latino and Latin American Studies

LLAS 1190: Introduction to Latin America

Credits: 3. *Semester: Fall, Spring, or Full-year*

Description:

Multidisciplinary exploration of the historical development of such aspects of Latin America and the Caribbean as colonization and nation formation; geography and the environment; immigration and migration; race, ethnicity, and gender in society, politics, economy, and culture.

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 UConn ECE LLAS courses is a Master's of Arts degree in Latin American Studies, or in Anthropology History, Political Science or Spanish with a focus on the study of Latin American and the Caribbean; however, a candidate with Master's in Education with a sufficiently strong LLAS background may be considered. A candidate with a strong LLAS background has either taken graduate courses in LLAS or has been educated (K – 12 and potentially beyond) in a Latin American country.

Marine Science

MARN 1001E: The Sea Around Us

Credits: 3. *Semester: Fall, Spring, or Full-year*

Description:

The relationship of humans with the marine environment. Exploitation of marine resources, development and use of the coastal zone, and the impact of technology on marine ecosystems.

Student Eligibility:

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

MARN 1002E: Introduction to Oceanography

Credits: 3. *Semester: Fall, Spring, or Full-year*

Description:

Processes governing the geology, circulation, chemistry, and biological productivity of the world's oceans. Emphasis is placed on the interactions and interrelationships between physical, chemical, biological, and geological processes that contribute to both the stability and the variability of the marine environment.

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 1002.

MARN 1003E: Introduction to Oceanography with Laboratory

Credits: 4. *Semester: Fall, Spring, or Full-year*

Description:

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

Student Eligibility:

Successful completion of two years of high school lab science are recommended. Not open to students who have passed MARN 1002.

Instructor Certification Requirements:

The minimum requirements for instructors wishing to teach UConn Early College Experience Marine Sciences (MARN 1002/1003E) are a Master of Science in Oceanography, Marine Sciences, Marine Biology, or a related field and 2 years high school teaching experience in marine science/marine biology and advanced science courses. Applicants will be considered for Marine Sciences (MARN 1002/1003E and/or MARN 1001E) if they have a Master of Education with a concentration in science or environmental science, a Bachelor of Science in the natural sciences and 4 years high school teaching experience in marine science/marine biology and advanced science courses.

Maritime Studies

MAST 1200: Introduction to Maritime Culture

Credits: 3. *Semester: Fall, Spring, or Full-year*

Description:

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

Student Eligibility:

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

Instructor Certification Requirements:

The preferred requirements for UConn ECE Instructor certification in Maritime Studies is an instructor who has a Bachelor's Degree in Maritime Studies and has completed graduate level coursework in both English and History. At a minimum, applicants with a Master's Degree in English, History, or Education will be considered. Applicants with a Master's Degree in Education should have a Bachelor's Degree in English or History. Applicants missing evidence of relevant Maritime Studies coursework will have their application approval deferred upon successful completion of the UConn ECE MAST virtual workshop series. The UConn ECE MAST workshop series is comprised of four synchronous virtual evening workshops and runs alternating academic years.

Please Note: MAST 1200 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

MATH 1030Q: Elementary Discrete Mathematics

Credits: 3. *Semester: Fall, Spring, or Full-year*

Description:

Topics chosen from discrete mathematics. May include counting and probability, sequences, graph theory, deductive reasoning, the axiomatic method and finite geometries, number systems, voting methods, apportionment methods, mathematics of finance, number theory.

Student Eligibility:

Successful completion of one year of pre-calculus is recommended. Not open for credit to students who have passed any math course other than MATH 1011, 1020, 1030, 1040, 1060 or 1070. UConn ECE Math 1030Q cannot be taken concurrent with or after UConn ECE Math 1131Q or 1132Q.

MATH 1070Q: Mathematics for Business and Economics

Credits: 3. *Semester: Fall, Spring, or Full-year*

Description:

Linear equations and inequalities, matrices, systems of linear equations, and linear programming; sets, counting, probability and statistics; mathematics of finance; applications to business and economics.

Student Eligibility:

Successful completion of one year of pre-calculus is recommended. Not open for credit to students who have passed Math 1132Q.

MATH 1131Q: Calculus I

Credits: 4. *Semester: Fall only*

Description:

Limits, continuity, differentiation, antidifferentiation, definite integral, with applications to the physical sciences and engineering sciences. Suitable for students with some prior calculus experience. Substitutes for MATH 1151 as a requirement.

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 MATH 1131Q – MATH 1132Q sequence a

student must pass MATH 1131Q in the Fall with a C or higher and continue to MATH 1132Q in the following Spring. The sequence must be completed in one academic year. Students cannot receive credit for MATH 1131 and MATH 1151.

MATH 1132Q: Calculus II

Credits: 4. *Semester: Spring only*

Description:

Transcendental functions, formal integration, polar coordinates, infinite sequences and series, vector algebra and geometry, with applications to the physical sciences and engineering. Substitutes for MATH 1122 as a requirement.

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 MATH 1131Q – MATH 1132Q sequence a student must pass MATH 1131Q in the Fall with a C or higher and continue to MATH 1132Q in the following Spring. The sequence must be completed in one academic year. Prerequisite: MATH 1131Q in the immediately preceding semester.

MATH 2110Q: Multivariable Calculus

Credits: 4. *Semester: Fall only*

Description:

Two- and three-dimensional vector algebra, calculus of functions of several variables, vector differential calculus, line and surface integrals.

Student Eligibility:

Successful completion of MATH 1132Q with a grade of a "C" or better. MATH 2110Q can only be taken the following fall semester after completion of 1132Q.

Instructor Certification Requirements:

MATH 1030Q, MATH 1070Q, MATH 1131Q[1], & MATH 1132Q[1] 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.

ECE Instructors currently certified to teach MATH 1030Q, MATH 1131Q, 1132Q or MATH 2110Q will be eligible to add MATH 1070Q to their certification upon submission of an approved course syllabus.

New Applications for MATH 1070Q will take into account candidates who have a Master's degree in Business or Economics, or a Master's in Education with a strong bachelor's degree in Business or Economics. Please note approval to teach MATH 1070Q may not lead to approval to teach additional course offerings without sufficient math coursework.

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 an appropriate field.

MATH 2110Q[1] To be eligible for certification in MATH 2110Q, instructors must first meet requirements to teach MATH 1131Q and 1132Q (possess a strong background as a math major and have a grade of at least a B in a Real Analysis I course). Instructors seeking to be certified in MATH 2110Q in addition to MATH 1131Q and 1132Q should have successfully taught each course at least twice. Additionally, to be certified to teach MATH 2110Q, instructors should possess a very strong background as a math major and have successfully completed at least four upper-level, proof-based courses (Real Analysis I & II, Abstract Algebra I & II, Abstract Linear Algebra, Complex Analysis, Differential Geometry, Number Theory, etc.) with a grade of a B or higher in each course. Exceptions may be made in extenuating circumstances at the discretion of the faculty coordinator.

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

[1]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.

Mechanical Engineering

ME 2140: Computer-Aided Design and Manufacturing
Credits: 3. *Semester: Fall, Spring, or Full-year*

Description:
These special topics sections offer courses in Industrial Design, with an (a) SolidWorks options or (b) AutoCAD option.

Basic computer-aided design (CAD) is introduced. Isometric, orthogonal views, sections and parametric modeling strategies, including advanced modeling techniques. First and third angle projections. Notions of measuring, tolerances and manufacturing techniques associated by hand and CAD modeling. General manufacturing processes and their relation to modeling individual parts and assemblies. CNC principles, GCODE.

Student Eligibility:
Successful completion of two years of high school mathematics is required.

Instructor Certification Requirements:
The preferred degree requirements for instructors wishing to teach UConn ECE SolidWorks & AutoCAD courses are as follows. Minimally applicants will have a Bachelor's Degree in Fine Arts, Engineering, Education Technology, or a closely related field. Preferred applicants will have a Master of Fine Arts, Engineering or Master's Degree in Technology/Engineering Education and hold a teaching certification endorsed for #047 Technology Education, PK-12.

Instructors applying for SolidWorks must submit a portfolio of work samples which demonstrates:
Show literacy in SolidWorks (does not have to be the latest version).
Show at least two examples of 3D modeling and two examples of a Drawing done based on those two examples. The drawings are to include at least two orthographic views, one isometric view, and a Title Block.
Instructors applying for AutoCAD must submit a portfolio of work samples which demonstrates:

Show literacy in AutoCAD (does not have to be the latest version).
Show at least two examples of drafting using AutoCAD

Music

MUSI 1001: Music Appreciation
Credits: 3. *Semester: Fall, Spring, or Full-year*
Description:
An approach toward intelligent listening, illustrated by recordings.
Student Eligibility:
No previous training required.

MUSI 1003: Popular Music and Diversity in American Society
Credits: 3. *Semester: Fall, Spring, or Full-year*
Description:
An introduction to popular music and diversity in America: jazz, blues, Top-40 pop, rock, hip-hop, and other genres. Musicians and their music studied in the context of twentieth-century and contemporary American society, emphasizing issues of race, gender, class, and resistance.
Student Eligibility:
No previous training required.

MUSI 1011: Fundamentals/Ear Training I
Credits: 3. *Semester: Fall, Spring, or Full-year*
Description:
Basic skills in note reading, rhythm, meter, pitch symbols, scales, key-signatures, intervals, triads, sight-singing, and dictation. No previous training is required.
Student Eligibility:
Completion of at least one year of preparatory work in music courses at the high school level is recommended.

MUSI 1012: Fundamentals/Ear Training II
Credits: 3. *Semester: Fall, Spring, or Full-year*
Description:
Further development of skills in music reading, sight-singing, and dictation.
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.

Natural Resources and the Environment

NRE 1000E: Environmental Science

Credits: 3. *Semester: Full-year*

Description:

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.

Student Eligibility:

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

Instructor Certification Requirements:

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.

Nutritional Sciences

NUSC 1165: Fundamentals of Nutrition

Credits: 3. *Semester: Fall, Spring, or Full-year*

Description:

An introduction to the principles and concepts of nutrition with emphasis on the nature and function of carbohydrates, fats, proteins, minerals and vitamins, and their application to the human organism.

Student Eligibility:

Successful completion of two years of high school biology and chemistry courses or instructor consent is required.

Instructor Certification Requirements:

Make sure instructor and student portfolio samples are clearly identified

Pharmacy

PHAR 1002: Fundamentals of Pharmacology

Credits: 2. *Semester: Fall, Spring, or Full-year*

Description:

Fundamental concepts of pharmacology. The content empowers students to identify how drugs are formulated, how they work in the body, some of the main drug classes, and the main drugs within those classes.

Student Eligibility:

Successful completion of high school biology, chemistry or UConn AH 2001 (medical terminology) is recommended.

PHRX 3057: Discovering the Leader Within

Credits: 1. *Semester: Fall, Spring, or Full-year*

Description:

Students will read a popular leadership book and participate in activities focused on its content. Discussion posts, study guides and participation in in-class discussions. Applications to fundamental principles to pharmacy practice. Culminates with a discussion with the author or other leadership expert.

Additional Information for Early College Experience Implementation

Students will gain an understanding of personal and small group leadership and participate in activities focused on its content. Learn about habits of highly effective people, grit, small talk, conflict resolution, elevator pitches, and strategic plans. Self-discovery discussion posts, in-class discussions, student video role play allow students to apply these techniques to their lives today and learn how it can be used in the future. Applications to "Fundamental of Pharmacology" course and any course dealing with business and management. Culminates with an optional discussion with a UConn leadership expert.

Student Eligibility:

Successful completion of at least two years of high school social studies, english and science coursework is recommended.

Instructor Certification Requirements:

The minimum degree requirement for instructors wishing to teach UConn Early College Experience Pharmacy courses can be met through the following options.

Preferred applicants for the PHRX 1002 course will have a master's degree in Pharmaceutical, Biological, or Health Sciences, or have successfully completed relevant graduate coursework in a closely related Health Science field as determined by UConn's School of Pharmacy faculty.

Option 1: A Pharmaceutical, Biological, or Health Sciences BS/MS; or

Option 2: A Master's degree in Education with a Bachelor's degree in Pharmaceutical Sciences, Biological Science, Health Science, or a closely related field; and hold a CT teaching certification endorsed for either #030 (Biology, 4-12) or #031 (Chemistry, 4-12); or

Option 3: A CT certified teacher in a biomedical program who holds either #103/#109 (Health Occupations) and is a licensed health care provider (EMT, paramedic, certified pharmacy technician) or has equivalent work experiences in science/health related with recommendations.

Applications for PHRX 3057 can meet any of the criteria specified above but will take into account candidates who hold a CT teaching certification endorsed for either #015 (English, 4-12) or #026 (History & Social Studies, 4-12) and hold a Master's in Education. Please note approval to teach PHRX 3057 may not lead to approval to teach additional course offerings without sufficient pharmaceutical science and/or health sciences coursework as determined by the ECE Faculty Coordinator for PHRX.

Certified instructors will work closely with the School of Pharmacy faculty to offer these classes, and full recorded content is available to support high school instructors if needed. Activities will come from the School of Pharmacy faculty but can be supplemented with instructor created activities, quizzes, tests, and content.

Philosophy

PHIL 1101: Problems of Philosophy

Credits: 3. *Semester: Fall, Spring, or Full-year*

Description:

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

Student Eligibility:

Instructor consent is required.

PHIL 1108E: Environmental Philosophy

Credits: 3. *Semester: Fall, Spring, or Full-year*

Description:

Philosophical issues raised by humanity's interaction with its environment. Topics may include ethical and policy ramifications of the use of non-human animals for food, medicine, and scientific inquiry; whether the natural world has a status calling for its protection or preservation; obligations to future generations; environmental justice; and movements such as deep ecology, ecofeminism, and social ecology.

Student Eligibility:

Instructor consent is required.

Instructor Certification Requirements:

Upon reviewing the application materials, the faculty coordinator in Dramatic Arts may wish to schedule an interview with the candidate.

Instructor Resources:

Physics

PHYS 1201Q: General Physics I

Credits: 4. *Semester: Fall, Spring, or Full-year*

Description:

A non-calculus based course introducing the laws of force and motion applied to mechanical phenomena. Concepts such as work, mechanical energy, linear and angular momentum, and energy conservation are explained. The laboratory offers fundamental training in precise measurements.

Student Eligibility:

Successful completion of high school chemistry is recommended.

PHYS 1202Q: General Physics II

Credits: 4. *Semester: Fall, Spring, or Full-year*

Description:

A non-calculus based course introducing the principles governing electromagnetic phenomena, including electromagnetic radiation and waves and electric circuits. The laboratory offers fundamental training in precise measurements.

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.

PHYS 1401Q: General Physics with Calculus I

Credits: 4. *Semester: Fall, Spring, or Full-year*

Description:

Quantitative study of the basic facts and principles of physics with an emphasis on mechanical phenomena. Concepts such as work, mechanical energy, linear and angular momentum, and energy conservation are explained. The laboratory offers fundamental training in physical measurements. Recommended for non-engineering students who desire to have a calculus-based physics sequence. It is also recommended for science majors whom a one year introductory physics course is adequate.

Student Eligibility:

Successful completion of pre-calculus or introductory calculus is recommended. Students who matriculate to UConn may take PHYS 1401Q for not more than two credits, with the permission of the instructor, if students received credits for PHYS 1201Q.

PHYS 1402Q: General Physics with Calculus II

Credits: 4. *Semester: Fall, Spring, or Full-year*

Description:

Quantitative study of the basic facts and principles of physics with an emphasis on electromagnetic phenomena, including electromagnetic radiation and waves and electric circuits. The laboratory offers fundamental training in physical measurements. Recommended for non-engineering students who desire to have a calculus-based physics sequence. It is also recommended for science majors for whom a one year introductory physics course is adequate.

Student Eligibility:

Successful completion of pre-calculus or introductory calculus is recommended. A student must pass PHYS1401Q with a grade of a "C" or higher to continue on to PHYS 1402Q. May be taken for not more than two credits with the permission of the instructor, by students who have passed PHYS1202Q.

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.

Plant Science

PLSC 1100: Turfgrass Management

Credits: 3. *Semester: Fall, Spring, or Full-year*

Description:

An overview of turfgrass adaptation, selection, and management. Topics include turfgrass growth, physiology, soil interactions, establishment, and maintenance. Cultural system practices for lawns, golf courses, athletic fields, and other turf areas. Turfgrass pest management practices for weeds, insects, and diseases.

Student Eligibility:

Successful completion of one year of high school biology recommended.

PLSC 1110: Fundamentals of Horticulture

Credits: 3. *Semester: Fall, Spring, or Full-year*

Description:

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.

Student Eligibility:

Successful completion of one year of high school biology recommended.

PLSC 1150: Agricultural Technology and Society

Credits: 3. *Semester: Fall, Spring, or Full-year*

Description:

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.

Student Eligibility:

Successful completion of one year of high school biology recommended.

PLSC 2120: Environmental Soil Science

Credits: 3. *Semester: Fall, Spring, or Full-year*

Description:

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.

Student Eligibility:

Successful completion of one year of high school chemistry recommended.

PLSC 2520: Floral Art

Credits: 2. *Semester: Fall, Spring, or Full-year*

Description:

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.

Student Eligibility:

None.

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

Credits: 3. *Semester: Fall, Spring, or Full-year*

Description:

Scientific, legal, and ethical aspects of Biotechnology application in agriculture, health medicine, forensics, and the environment.

Student Eligibility:

Successful completion of one year of high school chemistry recommended.

PLSC 3245: Plant Breeding and Biotechnology

Credits: 3. *Semester: Fall, Spring, or Full-year*

Description:

Principles and applications, economic, social and environmental impacts, advantages, potentials and limitations of major traditional and modern plant breeding technologies including crossing/hybridization, mutagenesis, genetic engineering and genome editing.

Student Eligibility:

A student must pass PLSC 3230 with a grade of a "C" or higher to continue on to PLSC 3245.

PLSC 3530: Advanced Floral Design

Credits: 2. *Semester: Fall, Spring, or Full-year*

Description:

In-depth study of post-harvest requirements for specialized floral crops. Exposure to novel floral materials with an emphasis on special events and wedding designs. Mass marketing, retail price structuring and mass-production concepts are covered.

Student Eligibility:

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

Instructor Certification Requirements:

The minimum requirements for instructors wishing to become certified to teach PLSC 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.

Political Science

POLS 1002: Introduction to Political Theory

Credits: 3. *Semester: Fall, Spring, or Full-year*

Description:

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

Student Eligibility:

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

POLS 1202: Introduction to Comparative Politics

Credits: 3. *Semester: Fall, Spring, or Full-year*

Description:

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

Student Eligibility:

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

POLS 1402: Introduction to International Relations

Credits: 3. *Semester: Fall, Spring, or Full-year*

Description:

The nature and problems of international politics.

Student Eligibility:

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

POLS 1602: Introduction to American Politics

Credits: 3. *Semester: Fall, Spring, or Full-year*

Description:

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

Student Eligibility:

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. 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.

Public Health

PUBH 1001: Introduction to Public Health

Credits: 3. *Semester: Fall, Spring, or Full-year*

Description:

This course describes the history, philosophy, and science of public health. Students will identify biological, environmental, and social determinants of health from a comprehensive perspective. They will apply these principles to define health problems, evaluate possible causes, and recommend effective public health responses to health concerns. By doing so, students will learn about career opportunities and the complementary role public health plays with health care and voluntary and governmental organizations in protecting the public's health.

Student Eligibility:

Successful completion of two years of high school social studies.

Instructor Certification Requirements:

The minimum degree requirement for instructors wishing to teach UConn ECE Public Health course can be met through the following options. Preferred applicants will have a Master's Degree in Health Sciences, Biology,

History, Law, Political Science, Public Policy or in a closely related field (as judged by the UConn PUBH Department).

A candidate with a Master's Degree in Education may also be considered if coupled with a strong undergraduate program and appropriate teaching experience in the fields mentioned above.

Currently certified UConn ECE Instructors in Allied Health, Biology, History and Political Science are eligible to add PUBH 1001 to their approved certification areas upon completion of an updated application and PUBH approved draft course syllabus.

Sociology

SOCI 1001: Introduction to Sociology
Credits: 3. *Semester: Fall, Spring, or Full-year*
Description:
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.
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:
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

SPAN 3177: Composition & Reading for Spanish Speakers
Credits: 3. *Semester: Fall, Spring, or Full-year*
Description:
Grammar, written composition, and readings for speakers of Spanish with little or no formal training. Emphasis is on Puerto Rican literature.
Student Eligibility:
Instructor consent.

SPAN 3178: Intermediate Spanish Composition
Credits: 3. *Semester: Fall, Spring, or Full-year*
Description:
This course provides a thorough review of grammar and methodical practice in composition leading to command of practical idioms and vocabulary.

Student Eligibility:

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

SPAN 3179: Spanish Conversation: Cultural Topics

Credits: 3. *Semester: Fall, Spring, or Full-year*

Description:

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

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 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

STAT 1100Q: Elementary Concepts of Statistics

Credits: 4. *Semester: Fall, Spring, or Full-year*

Description:

Standard and nonparametric approaches to statistical analysis; exploratory data analysis, elementary probability, sampling distributions, estimation and hypothesis testing, one- and two-sample procedures, regression and correlation. Learning to do statistical analysis on a personal computer is an integral part of the course.

Student Eligibility:

Successful completion of Intermediate Algebra/Algebra II is required.

Instructor Certification Requirements:

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.

University

UNIV 1820: First Year Seminar - Intro to Making

Credits: 1. *Semester: Fall or Spring*

Description:

Guided research or reading, discussion, and writing on topics of professional interest to the instructor. The purpose of this course is to become familiar with the basic tools, techniques, processes and mindset of the Maker Movement, and to identify and begin developing a solution to a real, personally relevant problem in an area of interest.

Student Eligibility:

Successful completion of one year of high school and instructor consent is required.

Instructor Certification Requirements:

The preferred degree requirements for instructors wishing to teach UConn ECE Intro to Making are as follows. Minimally, applicants will hold a Master's Degree in a related field and hold a CT teaching certification endorsed for one of the following endorsement areas:

- #042, Art (PK-12) or;
- #047, Technology Education (PK-12) or;
- #062, School Library Media Specialist.

For this course, the first year of certification is provisional, and the faculty course coordinator will mentor the UConn ECE Instructor and oversee implementation of the syllabus and instruction.