

# MAJORS AT THE UNIVERSITY OF CONNECTICUT

*Updated Fall 2015*

## **COLLEGE OF AGRICULTURE, HEALTH, AND NATURAL RESOURCES**

Agriculture and Natural Resources  
Allied Health Sciences  
Animal Science  
Athletic Training  
Diagnostic Genetic Sciences  
Dietetics  
Environmental Science  
Environmental Studies  
Exercise Science  
Horticulture  
Individualized Major  
Landscape Architecture  
Medical Laboratory Sciences  
Natural Resources  
Nutritional Sciences  
Pathobiology  
Resource Economics  
Turfgrass and Soil Science

## **NEAG SCHOOL OF EDUCATION**

Agricultural Education  
Comprehensive Special Education  
Elementary Education  
Secondary Education  
Music Education  
Sport Management

## **RATCLIFFE HICKS SCHOOL OF AGRICULTURE**

Animal Science  
Ornamental Horticulture and Turfgrass Management

## **COLLEGE OF LIBERAL ARTS AND SCIENCES**

Africana Studies  
American Studies  
Anthropology  
Biological Sciences  
Chemistry  
Chinese  
Classics & Ancient Mediterranean Studies  
Cognitive Science

Communication  
Ecology and Evolutionary Biology  
Economics (Storrs & Stamford Campuses)  
Engineering Physics  
English  
Environmental Science  
Environmental Studies  
French  
Geography  
Geosciences  
German  
History  
Human Development and Family Studies (All Campuses except Avery Point)  
Human Rights  
Individualized Major  
Italian Literary & Cultural Studies  
Journalism  
Latino and Latin American Studies  
Linguistics/Philosophy or Psychology  
Mathematics  
Mathematics – Applied  
Mathematics – Actuarial Science  
Mathematics – Actuarial Science - Finance  
Mathematics – Physics  
Mathematics – Statistics  
Molecular and Cell Biology  
Philosophy  
Physics  
Physiology & Neurobiology  
Political Science  
Psychology (All Campuses except Avery Point)  
Sociology  
Spanish  
Speech, Language, and Hearing Sciences  
Statistics  
Structural Biology and Biophysics  
Urban and Community Studies\*  
Women's Gender and Sexuality Studies

## **SCHOOL OF BUSINESS**

Accounting  
Finance  
Health Care Management  
Management  
Management and Engineering for Manufacturing  
Management Information Systems  
Marketing  
Real Estate and Urban Economics

## **SCHOOL OF ENGINEERING**

Biomedical Engineering  
Chemical Engineering  
Civil Engineering  
Computer Engineering  
Computer Science  
Computer Science & Engineering  
Electrical Engineering  
Engineering Physics  
Environmental Engineering  
Management and Engineering for Manufacturing  
Materials Science & Engineering  
Mechanical Engineering

## **SCHOOL OF FINE ARTS**

Art  
Art History  
Digital Media and Design  
Dramatic Arts  
Music

## **SCHOOL OF NURSING**

Nursing

## **SCHOOL OF PHARMACY**

Doctor of Pharmacy

\*Urban and Community Studies is offered at Storrs and Stamford in its entirety. Urban and Community Studies is also offered collectively between Hartford, Waterbury & Torrington campuses

NOTE: This information was collected from University of Connecticut's academic departmental websites, the Center for Career Development's "What Can I Do with This Major?" pages (<http://career.uconn.edu/major-career-decision-making/explore-majors-careers/majors-at-the-university-of-connecticut/>) and the Registrar's office. It is subject to change at any time. As this is a tool for assisting major decision making, students are always encouraged to go to the academic department's website for more information or to review the coursework requirements posted at the registrar's website.

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## College of Agriculture, Health, and Natural Resources

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### **Agricultural and Natural Resources**

Courses selected to meet the requirements for this major will be taken in multiple departments within the College as well as prerequisites that will be fulfilled in outside the school. The college of Agricultural and Natural Resources is designed for students who want broad training in agriculture and natural resources. Students learn the application of economic principles and policies to problems of food, natural resources and the environment. This major leads to the understanding of relevant economic issues facing today's consumers, businesses, and governments.

### **Allied Health Sciences**

This major is designed for students who would like to pursue graduate health programs that require a broad-based baccalaureate degree for admission. The Allied Health Sciences major can be taken with or without concentrations in Health Sciences, Health Promotion Sciences, or Occupational Safety and Health. Students will have the opportunity to develop skills necessary for allied health professions as well as pursue research projects that will result in improvements in allied health. Working with an advisor, students design a flexible plan of study that they can tailor to meet their professional and personal goals.

### **Animal Science**

Students enrolled in this program is given the option to specialize in one of six areas: Pre-Professional (veterinary medicine or graduate training), Biotechnology, Business/Service, Equine Science, Food Science, and Production Management where they can tailor their classes to emphasize their specific interests. Animal Science majors will receive both classroom and lab instruction, including hands-on work with farm animals and their products. Graduates are prepared for national certification as Professional Animal Scientists.

### **Athletic Training**

The aim of the Athletic Training program is to prepare students to become certified as athletic trainers by the National Athletic Trainers' Association Board of Certification (NATABOC) and to work with interscholastic, intercollegiate, and professional sports teams as well as sport medicine centers that specialize in sport injuries and rehabilitation. Participants of this program also have the opportunity to spend time working under the supervision of a certified athletic trainer in a facility that specializes in sport injuries and rehabilitation.

### **Diagnostic Genetic Sciences**

The Diagnostic Genetic Sciences Program (DGS) offers undergraduate and post-baccalaureate certificate programs for individuals interested in human genetics or a related field. The program consists of two concentrations: Cytogenetics and Molecular Diagnostics. Medical Cytogenetic Technologists study blood, bone marrow, tissue, and amniotic fluid for chromosomal abnormalities that are associated with malformations and diseases like cancer. Molecular Diagnostic Technologists evaluate and investigate DNA and RNA with regard to disease, identity, cancer, and forensics. For current students, an application for this major is required to declare this major. Upon completion of the DGS program graduates are eligible to sit for the certification of their concentration. After the completion of this program graduates are hired to work in laboratory.

### **Dietetics**

Students wishing to pursue academic preparation to become a registered dietitian (RD) can be attained in two ways: through the Department of Allied Health or through the Department of Nutritional Sciences.

**Department of Allied Health: Coordinated Program in Dietetics (CP)** – During the student's sophomore year they may apply to enter the Coordinated Program for dietetics majors. This program consumes the last two years of their education. After completion of this program students will receive a Bachelor of Science degree in dietetics and a verification statement as proof of the completion of both the accredited curriculum and the mandatory internship hours built into the program. Students are eligible to sit for the RD exam.

**Department of Nutritional Sciences: Didactic Program** – Students graduating from this program will receive a Bachelor's of Science degree in Nutritional Sciences and receive a verification statement indicating the completion of the accredited curriculum in dietetics. Students will not have completed their required internship hours during their time as a student and will need to find a dietetics internship after graduation. Students also will not be eligible to sit for the RD exam until internship hours are completed. This major requires an application for current students to declare.

Both majors prepare future dietitians to become responsible for nutritional care and food service. They assess nutritional needs, prepare individualized dietary plans, provide counseling and evaluate nutritional care for individuals and groups. They help people make smart food choices to keep them healthy; advise doctors and nurses regarding nutrition; teach people about the importance of good nutrition and healthful food choices; manage food service businesses and supervise people who prepare and serve food.

### **Environmental Sciences**

Environmental Science is the study of the world's natural habitat and how human beings affect it, as well as how changes in human behavior can benefit the earth. The Environmental Science major is based on a combination of physical and biological sciences and selected areas of social sciences. The program includes the study of environmental problems with not only a scientific background, but also with detailed analyses of the social and economic implications of environmental issues. The major requires students to choose from one of the nine offering concentrations: Environmental Biology, Environmental Chemistry, Environmental Geography, Environmental Geoscience, Marine Sciences, Soil Science, Natural Resources, Resource Economics, and Environmental Health. The major is offered as an interdisciplinary program which spans through the College of Liberal Arts and Sciences and the College of Agriculture, Health and Natural Resources. After the completion of this degree students will attain a Bachelor of Science degree reflecting upon the curriculum's science requirements.

### **Environmental Studies**

The Environmental Studies major is an interdisciplinary program designed to provide students with the knowledge, skills, and perspectives needed to understand the interactions between human society and the environment. Understanding the ethical and cultural dimensions of our relationship with the environment, as well as the challenges of protecting it, requires insights from multiple perspectives, including the humanities, the social sciences, and the natural sciences.

### **Exercise Science**

The Exercise Science concentration prepares students to analyze sport and exercise performance in a physiological context. This program offers two graduate degrees and one undergraduate degree. Many of the students in this program use their concentration to prepare for graduate study in exercise science; however, other students have used this major in preparation for medical school, physician assistant programs, and physical therapy. The Exercise Science concentration prepares students to assist with strength and conditioning programs in corporate, industrial, recreational, educational, commercial, and clinical settings. This major requires an application for current students to declare.

### **Horticulture**

The Horticulture major offers courses in the commercial production of vegetables and fruits, propagation and production of woody and herbaceous ornamental plants, and the identification, uses, and maintenance of plants, landscapes, and gardens. The primary emphasis of the Horticulture major at UConn is on ornamental and landscape horticulture. Students will develop a greater fundamental knowledge of plant growth and development, how to identify important plants, economics, pest management, crop production, and cultivation.

### **Individualized Major**

An individualized major (IMJR) is a structured plan of study that incorporates at least 36 credits of courses at the 2000 level or higher, is thematically focused, and draws from at least two departments in the university. Students work with three faculty advisors and an advisor from the IMJR program to develop a plan of study. This plan will often include an internship, fieldwork, or service learning, and may involve a period of study abroad. It concludes with a final integrative project, which may be a thesis or enrollment in the IMJR capstone course. Students with an individualized major will be enrolled in the College of Liberal Arts and Sciences or Agriculture and Natural Resources. To enroll in the program, students must submit a formal proposal and be approved by faculty advisors and an admissions committee. This major requires an application for current students to declare.

### **Landscape Architecture**

This major provides instruction in site planning and design, landscape history, landscape architectural graphics, and presentation. It includes the use of plants and other features to enrich exterior spaces. This program is accredited by the American Society of Landscape Architects.

### **Medical Laboratory Sciences**

Medical Laboratory Scientists apply biological and chemical principles to perform, interpret, and correlate laboratory analyses on body fluids and tissues. Medical Laboratory Scientists are responsible for selecting appropriate methods and implementing quality assurance for tests designed to promote health and prevent, diagnose, and treat diseases. This major requires an application for current students to declare.

### **Natural Resources**

This major provides students with a rigorous education in natural resources management and technology with a strong background in basic sciences and liberal arts. The Natural Resources undergraduate program is divided into five concentrations. The concentrations allow students to deepen their educational experience in areas of their interest. The concentrations are in Air & Water Resources, Environmental Conservation, Fisheries & Wildlife Conservation, Forest Resources, and Geomatics.

### **Nutritional Sciences**

Nutritional sciences majors integrate knowledge of the use of food and nutrients by cells, individuals and communities to promote optimal health and treatment of disease. Students with this major will graduate with a Bachelor's of Science degree in Nutritional Science but may not receive verification of completion of the accredited curriculum in dietetics. This major is not intended for students planning to pursue a career in clinical nutrition. Students with this degree may seek employment in various capacities, including: nutrition education, food industry and business, various health professions, nutritional research, food service management, community nutrition, etc. This major requires an application for current students to declare.

### **Pathobiology**

Students majoring in Pathobiology focus on animal health and diseases and their relationship to people and the environment. Students can prepare to enter veterinary medical schools or medical schools. Pathobiology majors also pursue careers in biotechnology, biomedical sciences, para-veterinary medicine, and many diverse laboratory and research positions in health fields, agriculture, and natural resources.

### **Resource Economics**

This major requires students to take courses in both the College of Agriculture, Health and Natural Resources along with the school of business. Students with this major tend to apply analytical and decision-making skills to problems of production and distribution of food products and the management of natural resources and the environment. Students may concentrate in one or more of the three following areas: Marketing and Business Management, Environmental Economics and Policy, and International Development. Often undergraduates have been successful in applying their knowledge in the corporate industry with positions held in Accounting Analyst, Commodities Trader, Natural Resources Manager and Account Executive to name a few.

### **Turfgrass & Soil Science**

This program is intended to help students become the next generation of professionals engaged in the sustainable management of grasses and/or soils in recreational, urban and suburban settings. Therefore students will focus on developing their knowledge in order to work individually or in team settings. This major offers two areas of concentration (Turfgrass and Soil Science). Turfgrass Science includes the management of golf courses, athletic fields, roadsides, erosion control sites, lawns, and other areas where grasses are grown. Soil Science concentration prepares students for professional certification in soils related environmental concerns and land use decisions. After the completion of this program students can find employment within the local state, federal government as well as private consulting and research firms.

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**NEAG School of Education: Applications are accepted every January, once a student has completed 3 semesters**

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### **Agricultural Education**

This major is designed to prepare graduates to teach in public schools or one of the Connecticut Regional Vocational Agriculture Centers for grades pre-K through 12. Students with subject matter specialties in animal science, plant science, agriculture mechanics, or natural resources conservation add a teaching, managerial, and human relations aspect to their backgrounds by completing this program. This major is a part of the Integrated Bachelor's/Master's Teaching Education Program and thus requires a minimum of five years of full-time study.

## **Comprehensive Special Education**

Prepares preparation of prospective teacher of students with disabilities in K-12.

## **Elementary Education**

Students in Elementary Education are prepared to teach in grades K-6. This major is a part of the Integrated Bachelor's/Master's Teaching Education Program and thus requires a minimum of five years of full-time study.

## **Secondary Education**

There are several options available for students who aim to teach in the middle or high school. Students have the ability to choose at least one concentration from the following list: English, History/Social Studies, Science, Mathematics or World Languages. No matter what concentration the student picks graduates will have the skills to teach one or more of those subjects. All Secondary Education majors are required to complete Education requirements, but also a subject area major and courses in educational philosophy that will result in a Master of Arts in Education.

## **Music Education**

As a Music Education major, you must have basic fundamental skills in music, such as scales, intervals, and triads. One must learn basic music theory as well, and at the University of Connecticut, students must learn to play the piano. This is important because one needs to be able to play accompaniments and teach harmonies. Being able to play the piano will also give students an advantage in studying various. The final, probably most important aspect of Music Education, is teaching. One must enjoy and want to teach people the knowledge that one has in music.

## **Sport Management**

The Sport Management major prepares students to enter careers in the sport industry, including intercollegiate athletics, facility management, professional sports, the sporting goods industry, private/ public sport clubs, resorts, youth sport management, and event management. Applicants must submit their application and all supporting materials by February first for fall admission. Successful applicants to the program generally have completed sufficient credits to be eligible for consideration and abided by all the deadlines.

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**Ratcliffe Hicks School of Agriculture: Students seeking admission to the Animal Science or Ornamental Horticulture and Turfgrass Management AAS programs may apply for formal admission to the Ratcliffe Hicks School of Agriculture by submitting the UConn Undergraduate Admissions application.**

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## **Ornamental Horticulture**

The goal of the Horticulture program is to prepare students for employment, management, or entrepreneurial positions in florist, garden center, landscaping, greenhouse and nursery operations or related businesses. Students who successfully complete the program with a cumulative grade point average of 2.7 or above may apply to transfer into the College of Agriculture, Health and Natural Resources.

## **Turfgrass Management**

The Turfgrass Management program is designed to provide students with basic and applied knowledge in turfgrass science and management. Formal and informal learning settings offer students the opportunity to gain a great deal of hands-on experience and design a unique educational experience, with exposure to all aspects of the industry. Students complete course work in turfgrass management and other related fields, such as soil science and fertility, pest control, ornamental horticulture, landscape design, environmental science, and business management. Students who successfully complete the program with a cumulative grade point average of 2.7 or above may apply to transfer into the College of Agriculture, Health and Natural Resources.

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## **College of Liberal Arts and Sciences**

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### **Africana Studies**

The major program in Africana Studies is administered by the Africana Studies Institute. This major is an interdisciplinary study of African people on the continent and the Diaspora through the humanities, social sciences, and the arts, with particular emphasis on African Americans. Its broad educational objectives are to engender among all students, an intellectual appreciation of black life, to encourage students to develop critical and analytical skills, as well as to appreciate ideals of equality, democracy, and humane values.

### **American Studies**

This major provides students with the opportunity to gain a critical understanding of the American experience while allowing individual students to define what aspects of that experience they would like to explore. Although the courses focus largely on the United States, the field comprises the study of issues and subjects from throughout the Western Hemisphere. The goal of the curriculum is to promote an awareness of complex cultural, political, and economic structures at the root of the social organizations that have existed throughout the history of what has come to be known as the "New World." Tracks within the major include: History, Culture, & Society; Literature & the Arts; Political Science, Economics, & the Law; The Americas.

### **Anthropology**

The field of Anthropology studies human beings in all times and places. It examines and attempts to explain biological, cultural, and social similarities and differences. Because of its broad perspective, which stresses writing, critical thinking, and social analysis, anthropology provides preparation for a variety of professional and business careers such as community development, social work, business, and international relations.

### **Biological Sciences**

The Biological Sciences major prepares students for employment in diverse fields such as biotechnology, health fields, government, education, research, and forensic science. This degree is intended for students interested in a general degree in biology. By selection of suitable courses, in consultation with your academic advisor, any area of biology can be emphasized.

### **Chemistry**

Programs in the Department of Chemistry may lead to either the Bachelor of Arts or the Bachelor of Science degree. In addition, the American Chemical Society (ACS) certifies two more rigorous Bachelor of Science options. The B.A. degree is appropriate for students who are interested in chemistry but do not wish to pursue a career as a laboratory scientist. The B.S. degree prepares students to pursue graduate study in chemistry or to find employment in technologically oriented industries. Fields of study include: Analytical Chemistry, Inorganic Chemistry, Organic Chemistry, Physical Chemistry, Polymer Chemistry, Biological Chemistry, and Environmental Chemistry. Other majors have both the BS and the BA. Why highlight here but not for all? Probably need to rewrite a little or adapt all of the others that are both.

### **Chinese**

Through the study of Chinese language and culture, students gain valuable insights into the diverse cultures of the Chinese world and an appreciation of the unique and fascinating heritage of one of the world's greatest and oldest civilizations. Proficiency in Chinese language and familiarity with Chinese culture complements students' interests in a variety of fields and can lead to exciting careers in International Business and Finance, Art and Archeology, Philosophy, Journalism, Diplomacy and Foreign Relations, and more. Students who majored in Chinese can work in United Nations, abroad, Peace Core, and the school system.

### **Classics & Ancient Mediterranean Studies**

This major allows students to pursue an interest in the Greek, Latin, and Ancient Hebrew/Biblical world. Students may choose to pursue a traditional language-oriented (Greek or Latin) concentration in Classics or a concentration in Ancient Mediterranean Studies. Students who concentrate in Classics may take courses in Ancient Mediterranean Studies in addition to their language and literature requirements. Those who concentrate in Ancient Mediterranean Studies may also pursue some relevant language study.

### **Cognitive Science**

Cognitive Science is the study of how intelligent beings perceive, act, know, and think. It explores the process and content of thought as observed in individuals, distributed through communities, manifested in the structure and meaning of language, modeled by algorithms, and contemplated by philosophies of mind. Its models are formulated using concepts drawn from many disciplines, including psychology, linguistics, logic, communication sciences/disorders, computer science, anthropology, and philosophy, and they are tested using evidence from psychological experiments, clinical studies, field studies, computer simulations, and neurophysiological observation. Careers may include but are not limited to social scientist, psychiatrist, or linguist.

## **Communication**

The Communication major is designed to educate students about human communication behavior from a scientific standpoint. It concentrates on the empirical investigation of human communication, stressing developments in communication theory and research. The major emphasizes interpersonal, mass, new communication technologies, nonverbal, organizational, intercultural and international communication. Training in the basic theories, principles, practices and research methods of Communication can qualify students for a variety of positions in the communication and media industries, such as: business, advertising, public relations, marketing, electronic media, government and or politics, and promotion.

## **Ecology and Evolutionary Biology**

Ecology & Evolutionary Biology (EEB) concerns the study of organisms and their environments and biodiversity. Courses in EEB deal with the characteristics, adaptations, and evolution of plants and animals as well as their ecological relationships. Graduates have pursued graduate studies and/or careers in conservation, wildlife management, and various education or research positions with federal, state, or private organizations.

## **Economics**

This major gives students a thorough background in basic principles and methods of analysis, plus a working competence in several of the specialized and applied fields. Examples of such fields are industrial organization, law and economics, money and banking, international trade and finance, public finance, comparative economic systems, labor economics, health economics, urban and regional economics, and economic development. Economic majors can work for business firms and or government agencies, for professional graduate study in business or public policy. An economics background is especially desirable for the study and practice of law.

## **Engineering Physics**

The program in Engineering Physics is offered jointly by the School of Engineering and the College of Liberal Arts and Sciences, Department of Physics. Physics majors can concentrate in either Electrical, Materials Science, or Mechanical Engineering. Students choose the college or school that they wish to graduate from and must satisfy the course requirements of either the College of Liberal Arts and Sciences or the School of Engineering to complete their degree. The goal of the interdisciplinary Engineering Physics program is to offer engineering students a more in-depth exploration of physical principles paired with a solid background in quantitative skills and mastery in an engineering discipline. Students graduating with this major have the ability to work for the government, academia and other professional practices.

## **English**

The study of English involves training in reading, writing, and reasoning. Through the mastery of language, students are prepared to express themselves and their ideas to a variety of audiences. Training in critical analysis derived from the study of verse and prose, and characters and situations, prepares students for real-life situations on the job and in their personal lives. The study of literature exposes students to disparate viewpoints and experiences that teach the student how audiences receive messages differently. Students can choose to have a concentration in Irish Literature, Creative Writing or Teaching English; however, a concentration is not required. Students with this major have worked in several industries such as: business, law, publishing and education.

## **Environmental Science (also in CAHNR)**

This major is based in the physical and biological sciences but also includes coursework in selected areas of the social sciences. Studies in Environmental Science help students to understand social factors behind environmental issues, have the skills to work in public and private sectors, and have grounding in an interdisciplinary base, as well as pursue an in-depth understanding of one environmental discipline. The major leads to a Bachelor of Science degree and offers a comprehensive approach to the study of environmental problems.

## **Environmental Studies (also in CAHNR)**

The Environmental Studies major is an interdisciplinary program designed to provide students with the knowledge, skills, and perspectives needed to understand the interactions between human society and the environment. Understanding the ethical and cultural dimensions of our relationship with the environment, as well as the challenges of protecting it, requires insights from multiple perspectives, including the humanities, the social sciences, and the natural sciences.



## **French**

The French Language program is designed to provide students with active proficiency in four skills (speaking, listening, reading, and writing) and to introduce them to important features of French and Francophone history and culture. The Language program treats the learning of language as integral to the mastery of a range of disciplines, helping to prepare students to enter a variety of professional fields such as international affairs, politics, anthropology, film, history, sociology, education, and literature. The major allows students to choose at least one of the two tracts: French for the Global Community or French Cultural and Literacy Studies. Students who majored in French can work in United Nations, abroad, Peace Core, and the school system.

## **Geography**

Geography is a multidimensional discipline that analyzes the interactions between people and their environments. Our geographers teach courses and engage in research on a wide range of relevant and timely topics such as urban sprawl, the nature and impact of migration, globalization of the economy and international trade, the spatial prevalence of disease, etc. This allows students to find employment as urban and regional planners, marketing specialists, environmental program managers, and location analysts. Not as much about the major here as the future application of it.

## **Geosciences**

This major is designed for students interested in the science of the Earth with special emphasis on environmental change over geological time scales, natural hazards, rock and fossils, planetary science, paleoclimate variability, surface processes, mountain building, and the link between Earth's physicochemical conditions and the evolution of life.

## **German**

Students wishing to study German will gain intercultural and linguistic competencies with a focus on language and culture. Additionally, this major will prepare students for travel, speaking, reading, listening, writing, study abroad, and for potential work in German-language contexts and cultures. Students can choose to focus their studies in German Studies or in German Literature.

## **History**

The study of history aims at the understanding and disciplined reconstruction of past human activities, knowledge and in the hope of usefulness for the future. History majors find employment in many fields of human endeavor, from arts and business to public service and education. Specialization in history is especially valuable as pre-professional training for law, government, diplomacy, and journalism, as well as for library, archival, and museum administration.

## **Human Development and Family Studies**

This major presents a multidisciplinary understanding of individual and systemic development and change over the life span, from infancy to old age. Students are oriented to the broad social, cultural, and historical contexts within which families function, and how context is reflected in developmental variations related to issues of diversity such as family structure, race, gender, class, and ethnicity. Career opportunities include, early childhood development and education, counseling, psychology, community education, outreach coordination, etc.

## **Human Rights**

The field of concentration in Human Rights gives students an understanding of the legal instruments, norms, and institutions that constitute contemporary human rights law, as well as the social movements, cultural practices, and literary and artistic representations that have and continue to imagine the human rights ethic in various ways. In recent years, the human rights dimensions of many of the most vexing and pertinent issues at the global, national, and local level have gained prominence – including the problems of environmental deterioration, economic inequality, and ethnic and religious conflict. Students who major in Human Rights will be better equipped not only to understand the complex nature of these and other issues, but also to develop and pursue novel approaches toward a better world. In addition to studying the manifold histories, theories, and practices of human rights in a systematic and comprehensive manner, students majoring in Human Rights will also develop more specialized methodological and topical expertise in a second discipline.

### **Individualized Major**

An individualized major (IMJR) is a structured plan of study that incorporates at least 36 credits of courses at the 2000 level or higher, is thematically focused, and draws from at least two departments in the university. Students work with three faculty advisors and an advisor from the IMJR program to develop a plan of study. This plan will often include an internship, fieldwork, or service learning, and may involve a period of study abroad. It concludes with a final integrative project, which may be a thesis or enrollment in the IMJR capstone course. Students with an individualized major will be enrolled in the College of Liberal Arts and Sciences or Agriculture and Natural Resources. To enroll in the program, Students may submit proposals for admission to the individualized major once they achieve third semester status and may be admitted after completing three semesters of work (45 credits). The latest they may submit proposals is prior to beginning their final 30 credits of study.

### **Italian Literary and Cultural Studies**

This major allows students to pursue a traditional concentration in Italian Literary Studies or a concentration in Italian Cultural Studies. Students who concentrate in Italian Literary Studies may take courses in Italian Cultural Studies in addition to their language and literature requirements. Those who concentrate in Italian Cultural Studies may also pursue relevant Italian Literary Studies. Students interested in this field will have opportunities to explore Italian American heritage and the issues of racial stereotyping, community life, inter-ethnic relations, and gender roles that have characterized social experiences in the United States.

### **Journalism**

Offering professional preparation for students, Journalism gives students a chance to improve their writing, interviewing, and research skills while learning about the news media. A journalism education is, by definition, an education in writing and information literacy. A journalism major will fulfill the writing in the major requirement and the information literacy competency by completing the department's core courses. Students who complete the Journalism major find careers with newspapers, radio and television stations, magazines, public relations offices, internet-based operations, and political press offices. Students must apply to the Journalism Department to become majors. They must do so by the end of the third full week of classes in the fall or spring semester. A student who is not accepted initially may reapply in subsequent semesters.

### **Latino and Latin American Studies**

The major in Latin American Studies responds to a need in both the New England region and nationally for a deeper understanding of the peoples and cultures of Latin America, its history and contemporary economic, social, and political problems, and its relations with the United States. Students are prepared to work in government, international organizations, business, journalism, and communications, or to pursue a graduate degree that leads to careers in research and teaching.

### **Linguistics (Combined major with Philosophy or Psychology)**

Linguistics is the study of human speech. It can be broken down to emphasize different areas of study, including syntax, semantics, phonology, and language acquisition. Careers may include language coordinator, recruiter of teachers, or assistant professor. The Department of Linguistics offers two joint majors: one with the Department of Philosophy in Linguistics and Philosophy, and the other with the Department of Psychology in Linguistics and Psychology.

### **Mathematics**

This major is pure mathematics including courses such as abstract algebra, abstract linear algebra, analysis, differential geometry and topology. Maybe one more line-similar to biology, why would someone major in the broad major v. specializing below?

### **Mathematics/Applied**

The focus is on courses about, or using, differential equations and numerical analysis. Any student planning to do further work in applied math after graduation should study complex variables and (for those interested in mathematical finance) stochastic processes.

### **Mathematics/Actuarial Science**

Admission to the Actuarial Science program will be available only to students who meet the following two requirements. First, the student must have a total grade point average of 3.2 or higher or a grade point average of 3.2 or higher in mathematics. The student must also satisfy the Mathematics Department Actuarial Committee requirements. An actuary is a person who uses training in mathematics and business to solve problems involving risk. To remain as an Actuarial Science Major, the student is expected to maintain a total grade point average of 3.2 or higher. Actuarial work is a challenging and rewarding way to use an aptitude for mathematics combined with an ability to work with people. Actuarial Science majors are often hired by insurance companies.

### **Mathematics/Actuarial Science-Finance**

Combines technical actuarial skills and knowledge with the study of finance focusing on forecasting, security validation, globally oriented financial topics, risk management and case studies.

### **Mathematics/Physics**

This course of study emphasizes areas of mathematics that are important in physics. The Mathematics/Physics program provides in-depth training in Mathematics as preparation for graduate study or for participation in scientific and engineering teams in government, industry, or research laboratories.

### **Mathematics/Statistics**

Offered jointly with the Statistics Department, this concentration is intended for students who desire a great emphasis on statistics in their undergraduate coursework. Statistics is a mathematical science pertaining to the collection, analysis, interpretation or explanation, and presentation of data. Classes include differential equations and mathematical statistics.

### **Molecular & Cell Biology**

This program is suitable for students with interests that integrate the organismal, cellular, and sub-cellular levels of biology, including the areas of biochemistry, cell biology, developmental biology, genetics and genomics, and microbiology. This field also encompasses their applications in biotechnology and medical science. There are many opportunities for independent research projects in these areas.

### **Philosophy**

The study of philosophy seeks to establish standards of evidence, provide rational methods of resolving conflicts, create techniques for evaluating ideas and arguments, and combine the discoveries of other disciplines to create a coherent worldview. Majoring in Philosophy provides excellent training for further study in a variety of professional fields.

### **Physics**

Physics, a fundamental and quantitative science, involves the study of matter and energy, and interactions between them. In addition to knowledge of physics, students in this major will gain rigorous training in logical thinking and quantitative problem solving.

### **Physiology and Neurobiology**

This major is suitable for students interested in the physiology and neurobiology of humans and animals. Coursework and independent study opportunities span the fields of comparative physiology, neurobiology, molecular endocrinology, reproductive endocrinology, developmental neurobiology and neurochemistry.

### **Political Science**

This program is designed to prepare students for careers in research and management positions in the public and private sectors. Political Science serves students whose primary interest is in some phase of public affairs (law, politics, and government service) or international relations, in gaining a better understanding of the entire field of governmental organization and functions.

### **Psychology**

Psychology investigates human development, mentoring roles, organizational structures, therapy techniques, and the connections of the mind to behavior. Research experience begins early where students gain exposure to experiments and serve as participants in actual research projects conducted by faculty and graduate students they not only learn about good experimental design and data analysis techniques, but also put this knowledge to practice by designing their own experiments, collecting and analyzing the data, and preparing research poster presentations for a research event that we conduct each semester. The curriculum prepares students for encountering, evaluating, and interrelating research findings in relation to topical areas covered in our upper-division content courses.

## **Sociology**

Sociology majors seek to understand how the world works and their potential for shaping that world. While sociologists may study large structures such as institutions, social classes, societies, and world systems, this program also explores the localized structures that shape everyday experience, including roles, statuses, and group identities. Sociology majors find their skills sought after in fields as diverse as social and human services (both in for-profit and non-profit organizations), criminal justice agencies, health care administration, marketing, management, law, government, public policy, urban planning, and teaching.

## **Spanish**

This major allows students to study Spanish language and culture. With this major, students can pursue careers in teaching, graduate study, law, and business. There is also a strong emphasis placed on culture and literature studies. All Spanish majors are required to study abroad.

## **Speech, Language, and Hearing Science**

The Speech, Language, and Hearing Sciences major is a pre-professional program within the liberal arts and sciences curriculum. It provides a broad overview of normal speech, language and hearing development and in addition a variety of speech, language, and hearing disorders are introduced. Not a sentence. This major permits the student to apply for graduate studies in one of two specialty areas: audiology or speech-language pathology.

## **Statistics**

Statistics is a mathematical science pertaining to the collection, analysis, interpretation or explanation, and presentation of data. The Department of Statistics offers work leading to degrees in theoretical and applied statistics. At the undergraduate level, the department offers a major in statistics and a major in mathematics-statistics; the latter is offered jointly with the Mathematics Department. Graduates from this program have found job opportunities in academics, governments, and industry.

## **Structural Biology & Biophysics**

This program emphasizes the physical and chemical foundations of molecular biology. The program of Structural Biology incorporates biophysics as well as cell biology and genetics. The study of biophysics applies math and physics concepts in an attempt to explain life processes.

## **Urban & Community Studies**

The undergraduate major in Urban & Community Studies is an interdisciplinary program in the College of Liberal Arts and Sciences with a focus on educating citizens on the multiple dimensions of urban and community life. The major has three parts. First, students receive a broad education in the study of cities, suburbs, neighborhoods and communities through core courses in three fields drawn from Economics, Geography, History, Political Science, Public Policy, Sociology, and Urban and Community Studies. Second, students acquire a solid foundation in analytical techniques such as statistical analysis, survey research, geographic information systems, qualitative methods, or archival research. Finally, students take additional electives in order to broaden their academic training or to develop a deeper specialization in selected areas. Students are prepared for careers in public and community service as well as graduate study in social work, public administration, law, public health, or other related areas.

## **The Women's, Gender and Sexuality Studies**

The Women's, Gender, and Sexuality Studies Program is a flexible interdisciplinary academic program devoted to pursuit of knowledge concerning women and the critical analysis of the production of gender and sexuality within transnational and cross-cultural contexts. Combining the methods and insights of traditional academic disciplines with the special insights of feminist studies, gender studies, and sexuality studies, the courses focus on understanding the origins of and changes in diverse cultural and social arrangements. The Program prepares students to employ critical learning in their private lives, in their public roles as citizens and as members of the work force. Women's, Gender & Sexuality Studies students have the ability to work in social service agencies, business, law, education, and journalism. Women's, Gender & Sexuality Studies students are flourishing in social service agencies, business, law, education, and journalism.

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**School of Business: Current UConn students should successfully completed a minimum of 40 credits and have completed (or are currently enrolled in) the seven critical required courses**

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**Accounting**

This course of study combines a general background in business with expose students to a wide range of issues related to analyzing and interpreting financial information. Emphasis is also placed on the use of accounting information both within the organization for managerial decision-making and outside the organization for investment decision-making.

**Digital Marketing & Analytics**

This major integrates a digital marketing and analytical approach to digital products, services, dynamic pricing, and online distribution. This major will teach you how to think strategically about digital marketing and analytics where students will gain research-based insights to support their learning. An emphasis on helping you develop the critical thinking, communication, and data-driven analytical approaches that leading businesses want.

**Finance**

The Finance major prepares students for careers in the financial services industry and in the finance areas of companies. The major requirements permit students to tailor a curriculum to suit individual interests in finance, health care management, real estate, and risk management and insurance.

**Health Care Management**

The objective of this major is to provide a conceptual and practical understanding of the health systems field. The Health Care Management program is a full member of the Association of University Programs in Health Service Administration (AUPHA) and is the only undergraduate Health Care Management program in New England to maintain both The Association to Advance Collegiate School of Business (AACSB) accreditation and AUPHA full membership. The major includes both traditional business and interdisciplinary healthcare management courses. Students enrolled in this program will develop an understanding of general business concepts, healthcare organizations and the skills required to succeed in dynamic work settings. This major prepares students for a wide range of challenging roles in healthcare organizations.

**Management**

At the core of the Management major is coursework with an emphasis on leadership, entrepreneurial thinking, and strategic vision, three of the most prized assets of any successful business leader. Management majors are prepared to understand the “big picture” rather than focusing on highly specialized, often rapidly changing, areas of study.

**Management and Engineering for Manufacturing (MEM)**

The Management & Engineering for Manufacturing program integrates business and engineering with an emphasis on preparing students for careers with firms engaged in manufacturing at the world-class global level. Students who plan to pursue careers in manufacturing can benefit from a perspective that integrates subjects that have traditionally been available solely in business programs or in engineering programs. Students will be able to compete successfully by using principles of lean manufacturing, time management, and quality assurance in the design and manufacturing of products and services.

**Management Information Systems (MIS)**

This major trains students in the development and use of business information systems. Graduates will be strong in the traditional functional areas of business (accounting, marketing, finance, and management) and will also have a solid understanding of the development of business information systems and information technology.

**Marketing**

The Marketing major provides business students with the analytical tools for following strategic decisions for the firm: which markets and customers to serve, with which products and services, and how the firm will compete. Students study the management of customers, distribution channels, products and brands, communications, pricing, and the use of information for marketing decisions.

**Real Estate/Urban Economics**

With both a theoretical foundation and a practical understanding of the field, students prepare for a career as a real estate professional. Emphasis is placed on valuation, finance, market analysis, and real property law. Careers available in the real estate profession include (but are not limited to): investment counseling, mortgage underwriting, appraisal, market analysis, commercial, residential brokerage, property and asset management, and urban regional planning.

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**School of Engineering: Applicants applying in the Fall are due by June 1 whereas Spring applicants are due by November 1.**

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### **Biomedical Engineering**

This program prepares students with an up-to-date technical and hands-on education in biomedical engineering emphasizing analysis, synthesis, and design, allowing students to successfully work in industry or attend graduate, medical, dental, business, or law school. Students will also learn the quantitative and analytic skills necessary to embrace emerging technologies, and they will learn the written and oral communication skills necessary to interact with health care professionals, engineers, and scientists.

### **Chemical Engineering**

Chemical Engineers take chemistry out of the laboratory and into the world, where they creatively solve problems by applying scientific knowledge and technology to improve the lives of people everywhere. Chemical Engineers enjoy the full spectrum of career choices in various research areas and industries worldwide. The types of challenges chemical engineers face every day in practice include: manufacturing of pharmaceuticals, design and development of synthetic materials such as plastics and fertilizers, and production of sustainable energy sources including fuel cells, biomass, and fossil fuels.

### **Civil Engineering**

The Civil Engineering undergraduate program educational objectives are to prepare students with the knowledge and skills needed to: actively contribute to the advancement practice and profession of engineering practice in the public or private sectors in the technical areas of environmental, geotechnical, structural, transportation, and water resources engineering; recognize the importance of, and follow a path that can lead to licensure as professional engineers who design and construct solutions to civil engineering problems in the natural and built environments; and adopt and continuously practice life-long learning through post-graduate and professional education.

### **Computer Engineering**

The Computer Engineering program combines coursework in computer science and electrical engineering, providing a program that focuses on the design of computer hardware and digital systems. The program emphasizes the design and fabrication of computing devices, the inclusion of computers in real-time systems, and the underlying computer technology involved in computer and communication networks.

### **Computer Science**

This program combines a rigorous education in computer science with added coursework in an area outside of computing, in the sciences, business, or humanities. With a background that combines computer science and a non-computing discipline, students can develop an extensive understanding of computer science that can be applied to other disciplines.

### **Computer Science and Engineering**

The Computer Science & Engineering program combines a rigorous education in computer science with added emphasis on the physical and architectural underpinnings of modern computer system design. The students in this program gain a wide understanding of computer science and computer engineering and are then able to address computing systems across the hardware-software spectrum.

### **Electrical Engineering**

The Electrical Engineering (EE) curriculum provides a firm foundation in fundamentals, while also giving students exposure to current technologies for design and implementation. It strives for a balance between theory, laboratory, and design experience. Students are given a broad foundation in mathematics, physics, chemistry, computer programming, applied mechanics, communication skills, and humanities while also taking a set of required EE courses intended to provide the core knowledge expected of every electrical engineer.

### **Engineering Physics**

The program in Engineering Physics is offered jointly by the School of Engineering and the College of Liberal Arts and Sciences, Department of Physics. The goal of the interdisciplinary Engineering Physics program is to offer engineering students a more in-depth exploration of physical principles paired with a solid background in quantitative skills and mastery in an engineering discipline.

### **Environmental Engineering**

This program trains professionals who can address cross-disciplinary environmental problems. The complex nature of environmental problems often requires that the appropriate science be developed prior to the actual engineering implementation. The goal of the degree is to foster individuals who are committed to solving environmental problems.

### **Management and Engineering for Manufacturing**

The Management & Engineering for Manufacturing program integrates business and engineering with an emphasis on preparing students for careers with firms engaged in manufacturing at the world-class global level. Students who plan to pursue careers in manufacturing can benefit from a perspective that integrates subjects that have traditionally been available solely in business programs or in engineering programs. Students will be able to compete successfully by using principles of lean manufacturing, time management, and quality assurance in the design and manufacturing of products and services.

### **Materials Science and Engineering**

Materials Science and Engineering is a discipline dealing with production processing, characterization, selection, and design of materials. Typical job functions include: designing new materials, developing new/improved manufacturing processes, failure analysis, characterization of structures, and measurement of properties.

### **Mechanical Engineering**

The Mechanical Engineering program educates students in basic engineering, science, and mathematical principles in preparation for rewarding careers in engineering. Students may create their own area of focus or take electives to explore an interest in another professional school or program. Paid undergraduate research positions are available to students, and the Senior Design program allows students to take hands-on approaches to real engineering problems.

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## **School of Fine Arts**

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### **Art**

Art is designed to provide an enriched educational environment that develops and nurtures the full range of capabilities necessary for a career in the visual arts. Skills addressed include: a mastery of requisite technical skills, the use of technology across the curriculum, experience in critical and creative problem solving, visual literacy, knowledge of historical modes of expression in the visual arts, and mastery of written modes of expression. Concentrations include graphic design, illustration, painting, printmaking, photography and sculpture and ceramic art.

### **Art History**

Art History majors study both the history and the aesthetic ideology that go into a work of visual art. Art historians are responsible for defining a work of art by placing it in its proper historical context. In doing so, the student must learn how to examine the layers of influence that go into making a piece of art, which include the social, political, and personal forces underlying an artist's development. The program combines art historical theory, style, and methodology, all of which encompass the various time periods throughout history. Through this major, the student is given the opportunity to explore his or her own artistic inclination through the basic studio art courses that are required. Students are also given the option to specialize in a particular geographic area, country, or time period.

### **Digital Media and Design**

The Digital Media & Design (DMD) program was created for students interested in new media-based practice, culture and theory. Recognizing the transformative role of digital technology in our lives, the DMD program emphasizes the important emerging fields of: Animation and Visualization, Interaction Design and Mechanics, Web and Mobile App Development, Digital Video, Digital and Social Media Strategies for Business and the Digital Humanities. The student-customized program places special emphasis on the intellectual, creative and technological processes that serve to integrate digital technology with everyday experience. It enables students to work and train in real-world environments, equipping them with tangible digital media skills. Concentrations may be in 2D animation, 3D animation, digital game design & development and web design/interactive media design.

### **Dramatic Arts**

The goal of this program is to offer the student a liberal arts orientation toward the study of the theatre. This program is for students seeking to gain a broader base of knowledge and experience in the theatrical industry, rather than pursuing a single professional specialty. While building this broad base of experience, students may take full advantage of production-oriented opportunities. There are also opportunities to explore playwriting, stage management, and theatre management. Concentrations include acting, design/technical theatre, puppetry and theatre studies.

### **Music**

This major prepares future performers, composers, and teachers. Students will concentrate on one area of music, such as performance, music history, jazz, music theory and composition.

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**School of Nursing: Applications for admission are accepted only for the fall semester. Students not admitted into the School of Nursing at the time of entry to the University may apply for admission through the School of Nursing School Change procedures**

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### **Nursing**

The undergraduate Nursing program provides an opportunity to combine a general education with professional preparation in nursing. The program is accredited by the Commission on Collegiate Nursing Education and approved by the Connecticut State Board of Nurse Examiners. The curriculum requires four academic years. Upon successful completion of the program, students receive the Bachelor of Science degree and are eligible for examination for licensure as registered nurses.

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**School of Pharmacy: Current UConn students will apply for admission to the School of Pharmacy through PharmCAS, the Pharmacy College Application Service. The PharmCAS application deadline is January 5<sup>th</sup>.**

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### **Pharmacy**

Offering challenging programs of study in pharmacy practice and the pharmaceutical sciences. First year students entering the University of Connecticut typically spend two years as pre-pharmacy students before applying to the four-year professional program, for a total of six years. Practice areas in pharmacy include: cardiology, infectious disease, oncology, psychiatry, geriatrics, compounding, critical care, dermatology, hospice, drug control, emergency medicine, home health care, industry, managed care, nuclear pharmacy, nutrition, long-term care, surgery, ambulatory care, military, poison control, obstetrics and gynecology, HIV, Veterans Administration, and public health.