College of Engineering, Technology, and Architecture
UNIVERSITY OF HARTFORD

Located at 200 Bloomfield Avenue, West Hartford, CT 06117, this private, independent, comprehensive university located on a 320-acre campus, four miles from downtown Hartford, in the suburb of West Hartford, Connecticut is accredited by the New England Association of Schools and Colleges (NEASC).

Mission: At the University of Hartford we provide a learning environment in which students may transform themselves, intellectually, personally, and socially. We provide students with distinctive educational experiences that blend the feel of a small, residential college with an array of academic programs and opportunities characteristic of a large university. Through relationships with faculty and staff dedicated to teaching, scholarship, research, the arts, and civic engagement, every student may prepare for a lifetime of learning and for personal and professional success.

The **COLLEGE OF ENGINEERING, TECHNOLOGY, AND ARCHITECTURE (CETA)** is one of the seven degree-granting schools and colleges of the University of Hartford. Our mission is to a deliver a high quality education and prepare individuals for professional careers in engineering, technology, and architecture or further graduate studies. Our programs will prepare individuals to function as an effective member of a global society. They will promote technical excellence, reasoning ability, communication and interpersonal skills, and an understanding of ethical and moral issues. Our graduates will be strongly encouraged to pursue professional registration in their chosen field. Practice-oriented educational experiences will be offered at the graduate and undergraduate level. This mission is carried out by excellent, dedicated, and student-focused faculty who remain on the cutting edge of their specializations. Faculty and their students work with industry to bring the principles of professional practice into the classroom to achieve goals beneficial to all.

ACCREDITATION The electrical, mechanical, civil, biomedical and computer engineering programs are accredited by the Engineering Accreditation Commission (EAC) of the Accreditation Board for Engineering and Technology (ABET). The architectural, electronic and mechanical engineering technology programs are accredited by the Technology Accreditation Commission (TAC) of the Accreditation Board for Engineering and Technology (ABET). The mechanical engineering, electrical engineering, civil engineering, computer engineering, interdisciplinary engineering studies, electronic engineering technology, computer engineering technology, architectural engineering technology, chemical engineering technology, mechanical engineering technology and audio engineering technology programs are licensed and accredited by the Board of Higher Education of the State of Connecticut. The graduate program leading to the professional degree of Master of Architecture (M.Arch) was granted candidacy status by National Architectural Accrediting Board (NAAB) in 2003.

FACTS ABOUT UNIVERSITY OF HARTFORD

4,796 full-time undergraduates, 841 part-time undergraduates
1653 graduate students
382 international students representing 58 foreign countries
77% of U.S. citizens reside outside Connecticut
Average class size is 25 students / Student/Faculty ratio is 13/1
54% female, 46% male
80% of all full-time students receive financial assistance
Over 90 undergraduate majors
On-campus housing
NCAA Division I Athletics
Over 100 student clubs and organizations including fraternities and sororities

FACTS ABOUT - FALL 2007

Enrollment	Full-time	Part-time	Total
Engineering	336	46	382
Technology	376	30	406
Graduate	32	44	76

35 Faculty
SAT average (verbal and math scores) for entering Engineering class: 1119
SAT average (verbal and math scores) for entering Technology class: 1017

COLLEGE ADMINISTRATION

Louis Manzione	Dean
Hisham Alnajjar	Associate Dean
Cliff Scorso	Assistant Dean
Main Number	860-768-4112
Toll Free	800-766-4024
Web site	www.hartford.edu

ADMISSION CONTACTS:

Kelly Cofiell	**Recruitment Manager & Freshmen**
860-768-4446	CETAinfo@hartford.edu
Ann Lankford	**Architecture & Graduate**
860-768-4339	lankford@hartford.edu
Laurie Granstrand	**Transfer**
860-768-4858	granstran@hartford.edu

DEGREES OFFERED ENGINEERING UNDERGRADUATE

Bachelor of Science in Civil Engineering (B.S.C.E)
- Environmental Engineering Concentration

Bachelor of Science in Computer Engineering (B.S.Comp.E.)
Bachelor of Science in Electrical Engineering (B.S.E.E.)
Interdisciplinary Engineering (B.S.E.)
- Acoustics and Music
- Biomedical Engineering
- Environment Engineering

Bachelor of Science in Mechanical Engineering (B.S.M.E.)
- Concentrations in Acoustics and Manufacturing

DEGREES OFFERED TECHNOLOGY UNDERGRADUATE

Bachelor of Science (B.S.)
- Architectural Engineering Technology
- Audio Engineering Technology
- Computer Engineering Technology
- Electronic Engineering Technology
  - Concentrations in Networking/Communications and Mechatronics
- Mechanical Engineering Technology
- Engineering Technology (Contract Major)

Associate in Science (A.S.)
- Computer Engineering Technology
- Electronic Engineering Technology

MINORS:

Engineering: Biomedical, Civil, Electrical, Computer, Mechanical, Mechatronics
Engineering Technology: Architectural, Audio, Mechanical

GRADUATE

Master of Architecture (M.Arch)
Master of Engineering (M.Eng)
- Civil Engineering
- Electrical and Computer Engineering
- Environmental Engineering
- Mechanical Engineering
  - Manufacturing Engineering
  - Turbomachinery

3+2 Program (Bachelor of Science and Master of Engineering Degrees)
E^2M Program (Master of Engineering and Master of Business Administration)

BOARD OF VISITORS
Executives of local and regional business, industry, education, and civic organizations and graduates of Ward School and the School of Engineering make up this board. The board assists the college in securing external support for the operation of programs, supports the professional development of students and alumni, assists in recruiting competent faculty and capable students, and assists in job placement for students and graduates.

STUDENT ORGANIZATIONS
Acoustic Society of America (ASA)
American Institute of Architecture Students (AIAS)
American Society of Civil Engineers (ASCE)
American Society of Mechanical Engineers (ASME)
Audio Engineering Society (AES)
Biomedical Club
Construction Institute
FIRST Robotics
Formula Society of Automotive Engineers (FSAE)
Illuminating Engineering Society (IES)
Institute of Electrical and Electronics Engineers (IEEE);
Instrument Society of America (ISA)
National Society of Black Engineers (NSBE)
Society for Experimental Mechanics (SEM)
Society of Women Engineers (SWE)
Ward Student Council

HONOR SOCIETY
Eta Kappu Nu, national electrical engineering honor society
Lambda Epsilon chapter of Tau Alpha Pi, national eng tech honor society
Pi Tau Sigma, national mechanical engineering honor society
Sigma Epsilon, civil engineering honor society
Tau Beta Pi, national engineering honor society

PEER TUTOR PROGRAM
Sponsored by the Student Association. Student tutors are provided without charge to full-time students seeking extra assistance.

OPEN LAB PROGRAM Students have the opportunity to use labs and studios outside of regularly scheduled class hours. Students may be hired as lab monitors.

MENTOR PROGRAM Upperclassmen volunteer to help guide first year students with the transition into college and their choice of study.

STUDY ABROAD Students may choose to study abroad to enhance their academic experience.

COOPERATIVE EDUCATION The cooperative education (Co-op) provides a student with academic study and professional on-the-job training. The Co-op office and faculty advisor work to identify appropriate placements. Students may apply 3 – 6 credits (varies by major) of co-op experience toward their degree program to fulfill the professional or unrestricted elective requirement.

UNDERGRADUATE ENTRANCE REQUIREMENTS TO UNIVERSITY OF HARTFORD
A candidate for admission must be a graduate of, or student who will be graduated from, an accredited secondary school, or must have passed a state secondary school equivalency examination. The Scholastic Assessment Test (SAT) of the College Board or the American College Testing Program (ACT) is required.

GRADUATE ENTRANCE REQUIREMENTS TO UNIVERSITY OF HARTFORD
A student eligible for graduate study must have received the bachelor's degree from an accredited institution and must also meet the further admission requirements of the graduate school of his/her interest. For CETA graduate programs in Architecture please contact Ann Lankford at 860-768-4339 or lankford@hartford.edu. For Engineering graduate programs please contact Laurie Granstrand at 860-768-4858 or granstran@hartford.edu.

ENGINEERING UNDERGRAD. ENTRANCE REQUIREMENTS
For Admission to Engineering, 16 units of secondary subjects are expected; these should include the following:

- 4 units of English
- 2 units of social studies
- 2 units of one language
- 2 units of laboratory science (Chemistry & Physics are recommended)
- 3 1/2 units mathematics
  (2 units algebra, 1 unit plane geometry, 1/2 unit trigonometry)
- 2 1/2 Units of other academic subjects

Additional units are recommended in courses such as calculus or pre-calculus, computer programming, mechanical drawing, and industrial arts.

APPLICATION
Students apply to the University of Hartford indicating the College and Major of their choice. Applications are handled on a "Rolling" admission basis. A supplemental essay is strongly encouraged. Official copies of academic transcript, class rank, SAT or ACT scores must be sent to the Office of Admission. The application fee is $35. The candidate Reply Date is May 1 to secure financial aid and housing. Credits will be awarded for many Advanced Placement (AP) exams. A score of 3 or better is generally required. *The College Board code is 3436. The American College Testing Program code is 0606.*

FINANCIAL AID
The Free Application for Federal Student Aid (FAFSA) must be submitted to be considered for need-based financial assistance. It is strongly recommended that the FAFSA be submitted to the federal processing center by February 1. The University must receive the analyzed results of the FAFSA by March 1. The University awards a number of non-need scholarships on the basis of academic merit or performance criteria each year. All new students are automatically considered for these awards when admitted to the University. *The University of Hartford Title IV Code is 001422.*

TECHNOLOGY UNDERGRAD. ENTRANCE REQUIREMENTS
Candidates are expected to meet the following requirements:

- 4 units of English
- 1 unit of social studies
- 1 unit of physics or 2 units of other laboratory sciences
- 2 1/2 of mathematics (Algebra I & II, trigonometry recommended)

Additional factors considered for admittance:
High school performance, nature of high school program, standardized test scores, special skills and talents relevant to engineering technology are considered. Advance placement and transfer credit may be applied toward the degree program.

TUITION & FEES 2007-2008 ACADEMIC YEAR

FULL-TIME UNDERGRADUATE	**Per Term**	**Per Year**
Tuition	$13,471	$26,942
Fees	varies	varies*
Room	3,353	6,706
Board – Premium meal plan	2,628	5,256
TOTAL PER ACADEMIC YEAR	$19,452	$38,904

Resident Parking, Annual: $470
*For a complete list of fees, go to: http://uhaweb.hartford.edu/bursar.

PART-TIME UNDERGRADUATE

Part-Time Study: 1 - 8.5 credit hours	$400 per credit
3/4-Time Study: 9 - 11.5 credit hours	$10,103 per semester
Registration Fee	$30 per semester
Technology Fee: 9^{+} credits	$100 per semester
Technology Fee: 3 – 8.5 credits	$35 per semester
Commuter Parking Fee	$45 per semester/$75 per year

GRADUATE

Master of Architecture	FT $8,250 Flat rate	PT $690 per credit
Master of Engineering	FT $540per credit	PT $540 per credit

Acoustics and Music

Interdisciplinary Engineering (B.S.E.)
This nationally recognized program is offered in conjunction with The Hartt School. It focuses on the application of modern technology to the fields of acoustics and music in such areas as architectural design, noise control, audio equipment design, or musical instrument design. Graduates have gone on to design rehearsal studios and concert halls, to improve the design of a musical instrument or piece of audio equipment, or to design a sound proof recording studio. Perhaps you may even work for an audio components company and mastermind the next generation of audio speakers. To be accepted into the Acoustics and Music program, students must meet the requirements of both School of Engineering and The Hartt School, including an audition.

Architectural Engineering Technology

Bachelor of Science (B.S.)
Architectural Engineering Technology prepares students for professional careers in architecture, the design build industry, and related fields. The program stresses the application of scientific and engineering skills and knowledge combined with practical technical skills to support architecture and architectural engineering. Graduates will be employed as members of the engineering team where they assist with planning and designing of structures and buildings, testing of materials, construction and inspection of structures, model building, design estimating, and development of contracts and specifications. Students who concentrate electives in design may qualify for admission to graduate study leading to registration as a professional architect. The minor in architectural engineering technology is available to those in other majors with an interest in architectural design.

Audio Engineering Technology

Bachelor of Science (B.S.)
Audio Engineering Technology spans the three disciplines of electronics, acoustics and music to prepare students for careers in the recording and music industries. The program stresses the fundamentals of electronics, music theory, harmony, and sound technology. Students may elect additional courses in music management, radio, television, and business administration for additional expertise for their professional career. Graduates of audio engineering technology programs may work in technical and/or support jobs toward creating systems for maximum quality of sound.

Biomedical Engineering

Interdisciplinary Engineering (B.S.E.)
Were you amazed by the first fully-enclosed artificial heart? Biomedical wonders are advancing at a rapid rate. Engineers in this field use their vast knowledge to contribute to the marvels of modern medicine by developing new research technologies that may facilitate early detection of disease, or provide more effective treatments. Biomedical engineers work closely with the medical and pharmaceutical professions to perfect everything from drug-delivery to possible life-saving devices. They also work with mechanical and electrical engineers in many industries related to aerospace and transportation, where they contribute to the delivery of medical technologies.

This program can prepare you for graduate programs in biomedical engineering and related areas, or by enrolling in the Pre- Medicine Option will prepare you for entrance into medical school.

Civil Engineering

Bachelor of Science in Civil Engineering (B.S.C.E)
Learn about the design, construction, and maintenance of our society-buildings, bridges, highways and airports. With a degree in civil engineering, you may pursue a career as a city planner, economic developer, or environmental engineer. You will take classes in Vector Mechanics, Surveying, and Geographic Information Systems (GIS), to name just a few. Civil engineers hold positions in construction companies, consulting organizations, and government agencies. These fulfilling positions help in the constant rebuilding of the physical structure of our world.

Concentration in Environmental Engineering
Arm yourself with the knowledge needed to effectively combat the problems of the environment. Students will earn a B.S.C.E degree, while focusing their elective courses on various environmental engineering topics such as Water Quality, Air Pollution Control and Solid Waste Management

Computer Engineering

Bachelor of Science in Computer Engineering (B.S.Comp.E.)
Advance the Information Age by applying your knowledge of all aspects of computer systems, including design, construction, and operation of computers, computer-controlled equipment, computer networks, and software. Learn about computer architecture, VLSI, and VHDL to design the next generation of computers and processors. Learn digital systems, FPGA, microprocessors, and programming to design an automatic pilot system for an airplane, or a virtual reality video game. Or, combine your knowledge of hardware and software to design a home of the future.

In this fast-growing field, you'll find that career opportunities are plentiful. Computer Engineering graduates of the University of Hartford work for corporations such as IBM, Microsoft, Cisco Systems, Motorola, and International Paper.

Computer Engineering Technology

Bachelor of Science (B.S.)
Associate in Science (A.S.)
Computer Engineering Technology prepares individuals for industry's demands for skilled professionals to install, maintain, and troubleshoot computer systems. The program stresses computer hardware and software as well as microelectronics. Graduates of this program take positions as members of the engineering team in design, computer hardware and/or software development, programming, manufacturing, production, or operations. They also work in technical services including field engineering, marketing and sales.

Electrical Engineering

Bachelor of Science in Electrical Engineering (B.S.E.E.)
Imagine learning the latest in electronics, microprocessors, and embedded systems to design a remoteless, fire-fighting robot! Or, learn modern signal processing and communication, to give the world more efficient and speedy data communication systems. Learn how to transmit and manipulate electricity to perform complex tasks that enhance our safety, education, entertainment, comfort, and convenience. Electrical engineers do all of these things for AT&T, Honda, Texas Instruments, GE, Sony, and many, many more.

Electronic Engineering Technology

Bachelor of Science (B.S.)
Associate in Science (A.S.)
Electronic Engineering Technology offers preparation to enter industry as an engineering technician or technologist with support responsibilities in such fields as research and development, product installation and maintenance, fabrication, production and testing. The major includes concentrations in Mechatronics and Networking/Communications (wireless, networking and telecommunications). Graduates will work as members of the engineering team in applied design, manufacturing, product development, production, and operations. They may also work in technical services including field engineering, customer support, marketing, and sales.

Engineering Technology (Contract Major)

Bachelor of Science (B.S.)
Contract Major provides the opportunity to pursue a unique program of study that may combine concentrations within Ward School or across schools at the University of Hartford. Careful planning and approval of department chair, and the Dean are required.

Environment Engineering

Interdisciplinary Engineering (B.S.E.)
Arm yourself with the knowledge needed to effectively combat the problems of the environment. Students will focus their courses on various environmental engineering topics such as Water Quality, Air Pollution Control and Solid Waste Management. Students will also take courses in Chemistry and in Mechanical and Civil Engineering.

Mechanical Engineering

Bachelor of Science in Mechanical Engineering (B.S.M.E.)
Modern mechanical engineers find challenging careers in private practice and in industry, building and testing automobiles, airplanes, power plants, and robots. As a Mechanical Engineering student, you'll learn the codes and standards that make these products safe and accessible as they improve the quality of our day-to-day lives.

Concentration in Acoustics
Mechanical engineers have a vital impact on designing and building machines that are free of disturbing and excessive noise. This program allows students to graduate with a B.S.M.E degree, while concentrating their upper level program on acoustical courses such as Sound Technology, Vibrations and Noise Control Design.
Visit the Acoustics Page

Concentration in Manufacturing Engineering
As a mechanical engineering major you may choose to concentrate in manufacturing engineering, where you'll learn to apply up-to-date technologies in materials, fabrication, and Computer Aided Design (CAD), to help manufacturers increase productivity and cost-effectiveness.

Mechanical Engineering Technology

Bachelor of Science (B.S.)
Mechanical Engineering Technology prepares students for careers in the manufacturing and mechanical design industries. The program focuses on manufacturing processes and material design, testing to industry standards, hands-on training in design and drafting using computer technology and balancing design objectives with production constraints. Graduates work as members of a manufacturing team assisting with planning and designing, analyzing the cost-effectiveness of production methods, drafting plans for proposed machines or parts, testing manufactured goods to ensure quality and supervising the work of skilled mechanical craftsmen. The minor in mechanical engineering technology is available to students in other majors.

ENGINEERING AND ENGINEERING TECHNOLOGY
- TWO DIFFERENT CAREER PATHS -