

00-02

January 28, 2000

Bachelor of Science in Electronics and Computer Technology (pre-code 3-4385)
Option in Electronics Technology (code 3-4386)
Option in Computer Technology (code 3-4387)

This new degree and two new options were recommended by the Academic Senate on March 18, 1999, approved by the President on March 23, 1999 and approved by the Chancellor on September 23, 1999.

The Electronics and Computer Engineering Technology program, accredited by the Accreditation Board for Engineering and Technology (ABET), is designed to provide a solid technical foundation to its graduates which will enable them to perform well in a variety of employment situations. The program focuses on applications of current electrical, electronics, and computer technologies to solve real-world problems by offering a broad curriculum which covers current trends in the industry.

The program has been developed to accommodate students who may wish to enter the University in a four-year program, or who may wish to transfer credits earned to other colleges or approved technical or military service schools. It is recommended that prospective students, prior to submitting an application for admission, be advised by a member of the Electronics and Computer Engineering Technology faculty to discuss departmental requirements and the admission requirements of the University. The two options under the B.S. in Electronics and Computer Engineering Technology are:

Option in Electronics Technology

The Electronics Option prepares the student for a position as a technologist, in such industries as aerospace, computers, communications, biomedical, chemical, power, etc. Students are offered a wide range of training in topics such as instrumentation, controls, microprocessors, microelectronics, biomedical electronics, communications, motors and generators, robotics, computer applications, programming and interfacing. Moreover the option emphasizes written and oral communications skills as well as modern methods of industrial administration and supervision. The option is designed to meet ABET criteria for accredited programs in engineering technology.

Option in Computer Technology

The primary objective of the Computer Option is to prepare graduates to pursue careers related to manufacturing, integration, and support of computer systems. Emphasis is placed on specific job skills required of entry level professionals in computer industry, including systems analysis and design, data administration, oral and written communication, and management principles. The Computer Option is available to students interested in the manufacturing of computers and the applications and operations aspects of computer hardware and software. The option is designed to meet ABET criteria for accredited programs in engineering technology. The graduates of this program will specifically find employment industry and other organizations where a combination of practical hardware and software background is important. The Computer Option is not a program to prepare researchers, systems programmers, or information system professionals; nor does it cover hardware design. The mission of the Computer Option is to provide career opportunities to students whose interests and aptitudes are essentially applications-oriented.

Bachelor of Science in Computer and Electronics Engineering Technology All Electronics and Computer Engineering Technology students must receive a minimum grade of "C" in each of the prerequisite courses before enrolling in any Electronics and Computer Engineering Technology course. In addition to any other all-university requirements regarding grade point averages for graduation, an Electronics and Computer Engineering Technology student must achieve a minimum of 2.0 average in all Electronics and Computer Engineering Technology courses.

Students enrolled in the Electronics and Computer Engineering Technology B.S. program must complete a minimum of 130 units. These courses cover the broad disciplines and functions of Electronics and Computer Engineering Technology.

Requirements

Core Electronics and Computer Engineering Technology Courses:

Lower Division: CHEM 111A, MATH 117, MATH 120, PHYS 100A&B, ET101, 170, 202, 204, 205, 205L, 250, 250L, 252, 252L, 255, 255L, 260, 260L, 286, 286L.

Upper Division: ET 300, 311, 360, 360L, 386, 386L, 387, 387L, 388, 388L, 410, 442, 442L, 488, 488L.

Option in Electronic Technology

Select 21 units from the following: ET 301, 301L, 341, 341L, 350, 350L, 441, 444, 445, 445L, 447, 447L, 460, 460L, 409B.

Option in Computer Technology

Select 21 units from the following: ET 301, 301L, 486, 486L, 487, 487L, 489, 489L, 491, 491L, 492, 492L, 494, 494L, 497, 497L, 409E.

EFFECTIVE: Fall 1999

Code: pre-code 3-4385

Electronic Technology Option 3-4386

Computer Technology Option 3-4387

College: 52

Career: UG

IPEDS (Major) ERSS: 09255

IPEDS (Degree) ERSD: 09255

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