Major: Electrical Engineering
College: Engineering & Computer Science
Degree: Bachelor of Science in Electrical Engineering
Description: Prepares students for electrical engineering careers in design, development, research, testing, maintenance, sales, and management in industry, government, universities and consulting; also for graduate studies.

Limited Access Program: No

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PROGRAM OF STUDY AT THE COMMUNITY COLLEGE

Complete the A.A. degree at the community college or a minimum of 60 semester hours in academic (college-parallel) subjects, including the General Education program of the community college (at least 36 semester hours). You must also complete the following prerequisite courses (51 credit hours), some of which may also satisfy the General Education program. The additional 12 credit hours are determined by agreement between the community college and FAU.

If you transfer without an A.A. degree and have less than 60 semester hours of acceptable credit, you must meet the university's entering freshman requirements including ACT or SAT test scores and GPA.

Students are encouraged to complete the following required common prerequisites during the semester during the program of study at the community college:

Fundamentals in Engineering (EGN 1002)	3
(P*) Calculus (MAC 2311, MAC 2312 & MAC 2313)	12**
(P*) Physics with Calculus I & II with Lab (PHY 2048/L & PHY 2049/L)	8**
(P*) General Chemistry I with Lab (CHM x045/L)+	4
(P*) Differential Equations I or equivalent (MAP 2302)	3
(P*) English Composition I & II (ENC x101 & ENC x102)	6
(P*) Humanities courses	6
(P*) Social Science courses	6
(P*) Humanities or Social Sciences (Speech, Technical Writing or Professional Communications is suggested.)	6

**A grade of C or better must be achieved in all calculus and physics courses used to meet FAU admission requirements. The complete sequence of calculus and physics with calculus is required. The number of credits varies among lower-division institutions. If a student had to take additional mathematics courses prior to becoming eligible for Calculus 1 courses, those courses will be over and above the prescribed number of hours for the bachelor's in engineering.

+ At some community colleges, chemistry is taught as a three course sequence. Chemistry I refers to CHM 2045 or CHM 1041.

PLEASE NOTE: Students may take the following courses at the community college level: Introduction to Engineering (or approved substitute), Computer Programming in "C", Circuits I, and 3 additional non-technical credits toward the AA degree. Students who enter the university without these courses will have to take them after transferring.

(P*)=Students may be admitted to FAU upper-division without having completed this course, however, the course must be completed before graduation and may cause excess hours.

ADMISSION REQUIREMENTS TO THE UNIVERSITY PROGRAM OF STUDY
Please be aware of the immunization, foreign language, and continuous enrollment policies of the university.

PROGRAM OF STUDY AT THE UNIVERSITY
It is recommended that you take an unofficial transcript and course catalog of all institutions you have attended to your advising sessions.

The Electrical Engineering baccalaureate degree program is accredited by the Engineering Accreditation Commission of the Accreditation Board for Engineering and Technology (ABET).

FAU Program (Semester Hours)

Required courses in Major:

Electrical Engineering Core:

EEL	2161	C for Engineers (C Programming)	3
EEL	3111	Circuits I	3
EEL	3112	Circuits II	3
EEL	4656	Analysis of Linear Systems	3
EEL	3300	Electronics I	4
EEL	4361	Electronics II	3
EEL	3470	Electromagnetic Fields and Waves	4
CDA	3201C	Introduction to Logic Design	4
EEL	4746	Introduction to Microcontrollers with Lab	4
	or		
EEL	4541	Stochastic Processes and Random Signals	3
EEL	4510	Intro to Digital Signal Processing	3
EEL	4512	Communication Systems	3
EEL	4652	Control Systems I	3
EEL	4512L	Communication Systems Lab	1
	or		
EEL	4652L	Control Systems Lab	
EGN	4410	Engineering Design I	3
EGN	4411	Engineering Design II	3
ELR	3308L	Laboratory I	2
ELR	4309L	Laboratory II	2
EEL	3012	Electrical Engineering Practice	1

Electives:

Electrical Engineering and Engineering technical electives	15

Mathematics:

Additional Mathematics (upper-division)	3

TOTAL FAU SEMESTER HOURS	**73**

Please check out the College of Engineering home page on the World Wide Web at **http://eng.fau.edu** or the electrical engineering homepage at **http://ee.fau.edu/index.html** to get the most up-to-date information about common prerequisites and suggested courses, as well as general information about the College's programs and services.

Students transferring from Broward, Palm Beach, Miami-Dade or Indian River Community Colleges should check out the Southeast Florida Engineering Education Consortium web page at **http://www.sefeec.org** for further information.

Please visit the FAU home page at http**://www.fau.edu**