

Major: Ocean Engineering

College: Engineering & Computer Science

Degree: Bachelor of Science in Mechanical Engineering

Description: Prepares students for ocean engineering careers in design, development, research, testing, maintenance, sales, and management in industry, government, universities and consulting and graduate studies.

Limited Access Program: No

Contact: Teresa Perez
Rm. 172, Engineering Building, #36
Boca Campus
(561) 297-3435
E-mail address: mtperez@fau.edu

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 (48 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 program of study at the community college:

(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 2045/L)+	4
(P*) Differential Equations I or equivalent (MAP 2302)	3
(P*) English Composition I & II (ENC 1101 & ENC 1102)	6
(P*) Any additional Humanities courses (Theatre, art or music appreciation and history of civilization suggested)	6
(P*) Any additional Social Science courses (Macro-economics and world geography suggested)	9
(P*) Humanities or Social Sciences (Speech, Technical Writing or Professional Communications is suggested.)	3

**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: It is strongly suggested that the student may take the following courses at the community college level: Engineering Graphics, MATLAB or Computer Programming in C++ and Engineering Fundamentals (or approved substitute). 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.

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

FAU Program (Semester Hours)

Core courses in major: (79)

ENG 1002	Fundamentals of Engineering	3
EGS 1111	Engineering Graphics (FAU Only)	3
EOC 2801	Fabrications of OE Systems	1
EOC 3105	Statics	3
EOC 3141	Thermodynamics	3
OCG 3002	Oceanography (FAU Only)	3
EOC 3113	Dynamics	3
EOC 3150	Strength of Materials	3
EOC 3631C	Ocean and Environmental Analysis	3
EOC 3130L	Ocean Engineering Laboratory	3
EEL 3111	Circuits I	3
EEL 3300	Electronics I	3
CDA 3201	Intro to Logic Design or Electrical Machines	4
EOC 3123	Fluids I	4
EOC 3114	Vibrations	3
EOC 3200	Engineering Materials I	3
EOC 3306	Acoustics I	3
EOC 3410C	Structures I	3
EOC 4804	Ocean Systems Control and Design	3
EOC 4412*	Structures II (Choose 2 of 4)	4
EOC 3213	Marine Topics	1
EOC 4804L	Ocean Systems Control and Design Project	4
EOC 4124*	Fluids II (Choose 2 of 4)	4
EOC 4193	Ocean Thermal Systems	3
EOC 4201C*	Engineering Materials II	4
EOC 4115C*	Acoustics II (Choose 2 of 4)	4
MAP 4306	Engineering Math II or Engineering Analysis (EOC 4930)	3
COP 2220	Intro Prog. In C or "C" for Engineers (EEL 2161)	3
EOC 4422	Ocean Wave Mechanics	3
TOTAL FAU SEMESTER HOURS		85
EOC 2902		1
EOC 2131C		1

Please check out the College of Engineering home page on the World Wide Web at <http://eng.fau.edu> or the Ocean Engineering homepage at <http://www.oe.fau.edu> 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>