FLORIDA ATLANTIC UNIVERSITY

NEW/CHANGE PROGRAM REQUEST
Undergraduate Programs

UUPC Approval 3-30-26
UFS Approval _____
Banner Posted _____
Catalog _____

Department Ocean & Mechanical Engineering

College COECS

Program Name
Mechanical Engineering

☐ **New Program**
☑ **Change Program**

Effective Date
(TERM & YEAR)
Fall 2026

Please explain the requested change(s) and offer rationale below or on an attachment

Students who are entering with an AA degree or over 60 credits who have not taken EGN1002 may substitute an upper-level technical elective to meet the program requirement. Also, EGN 1111C is added as a prerequisite for Fabrication of Mechanical Engineering Systems (EML 4623C).

Faculty Contact/Email/Phone
Dr. P. Edgar An/pan@fau.edu/561-297-2792

Consult and list departments that may be affected by the change(s) and attach documentation

Approved by	***Date***
Department Chair: Pierre Pholippe Beaujean	
College Curriculum Chair: Galan Liu	3/17/26
College Dean:	3/17/26
UUPC Chair: Korey Sorge	3-30-26
Undergraduate Studies Dean: Dan Meeroff	3-30-26
UFS President:	
Provost:	

Email this form and attachments to mjenning@fau.edu one week before the UUPC meeting so that materials may be viewed on the UUPC website prior to the meeting.

Proposed Change: To allow transfer students to opt out of EGN 1002 (Fundamentals of Engineering) and replace it with a technical elective. The proposed changes are highlighted in the following sample four-year program of study.

Sample Four-Year Program of Study for Bachelor of Science in Mechanical Engineering

First Year, Fall (14 credits)

Course Title	Course Number	Credits
College Writing 1*	ENC 1101	3
Calculus with Analytic Geometry 1	MAC 2311	4
General Chemistry 1	CHM 2045	3
General Chemistry 1 Lab	CHM 2045L	1
Fundamentals of Engineering ***	EGN 1002	3

First Year, Spring (14 credits)

Course Title	Course Number	Credits
College Writing 2* or equivalent	ENC 1102	3
Calculus with Analytic Geometry 2	MAC 2312	4
General Physics for Engineers 1	PHY 2048	3
General Physics 1 Lab	PHY 2048L	1
General Education Curriculum Social Science course**		3

Second Year, Fall (14 credits)

Course Title	Course Number	Credits
Statics	EGN 3311	3
Calculus with Analytic Geometry 3	MAC 2313	4
Engineering Graphics	EGN 1111C	3
Physics for Engineers 2	PHY 2044	3
General Physics 2 Lab	PHY 2049L	1

Second Year, Spring (15 credits)

Course Title	Course Number	Credits
Strength of Materials	EGN 3331	3
Engineering Thermodynamics	EGN 3343	3
Computer Applications in Engineering 1	EGN 2213	3
Engineering Mathematics 1	MAP 3305	3
General Education Curriculum Additional Enrichment course**		3

Third Year, Fall (15 credits)

Course Title	Course Number	Credits

Electro-Mechanical Devices	EGM 4045	3
Intermediate Strength of Materials	EGM 4523C	3
Fluid Mechanics	EML 3701	3
Computer Applications in Mechanical Engineering 2	EML 4534	3
General Education Curriculum Social Science course**		3

Third Year, Spring (15 credits)

Course Title	**Course Number**	**Credits**
Dynamics	EGN 3321	3
Heat Transfer	EML 4142	3
Experimental Methodology	EML 3523C	3
Probability and Statistics for Engineers	STA 4032	3
General Education Curriculum Additional Enrichment course**		3

Third Year, Summer (12 credits)

Course Title	**Course Number**	**Credits**
Applied Thermal Fluid Engineering	EML 4127	3
Machine Design	EML 4500	3

Engineering Materials 1	EGN 3365	3
Mechanical Engineering Laboratory	EML 4730L	3

Fourth Year, Fall (14 credits)

Course Title	**Course Number**	**Credits**
Technical Elective		3
Finite Element Analysis for Engineering Design	EGM 4350	3
Fabrication of Mechanical Engineering Systems	EML 4263C	2
RI: Engineering Design	EML 4521C	3
General Education Curriculum Humanities course**		3

Fourth Year, Spring (15 credits)

Course Title	**Course Number**	**Credits**
Dynamic Systems	EGN 4432	3
RI: Design Project	EML 4551	3
Technical Electives		6
General Education Curriculum Humanities course**		3
Total		**128**

* Course meets Writing Across Curriculum (College-Level Communication Skills, formerly Gordon Rule) requirements.

** Courses may be selected from the appropriate portion of the General Education Curriculum.

*** For those students entering with a B.S. degree or over 60 credits who have not taken EGN1002, they may substitute an upper-level technical elective to meet this requirement.