FLORIDA ATLANTIC UNIVERSITY

COURSE CHANGE REQUEST
Undergraduate Programs

Department Ocean & Mechanical Engineering

College Engineering & Computer Science

UUPC Approval 11/7/2022
UFS Approval _____
SCNS Submittal _____
Confirmed _____
Banner Posted _____
Catalog _____

***Current* Course Prefix and Number**	EML 4730L	***Current* Course Title**	Mechanical Engineering Laboratory

*Syllabus must be attached for **ANY** changes to current course details. See Template. Please consult and list departments that may be affected by the changes; attach documentation.*

Change title to:

Change prefix
From: **To:**

Change course number
From: **To:**

Change credits*
From: **To:**

Change grading
From: **To:**

Change WAC/Gordon Rule status**
Add ☐ **Remove** ☐

Change General Education Requirements***
Add ☐ **Remove** ☐

*See Definition of a Credit Hour.
**WAC/Gordon Rule criteria must be indicated in syllabus and approval attached to this form. See WAC Guidelines.
***GE criteria must be indicated in syllabus and approval attached to this form. See Intellectual Foundations Guidelines.

Change description to:

Change prerequisites/minimum grades to:
Experimental Methodology - EML 3523C/Min. C grade
Computer Applications 1 - EGN 2213/Min. C grade

Change corequisites to:

Change registration controls to:

Please list existing and new pre/corequisites, specify AND or OR and include minimum passing grade (default is D-).

Effective Term/Year for Changes:	Spring 2023	**Terminate course? Effective Term/Year for Termination:**	

Faculty Contact/Email/Phone Dr. Davood Moslemian/moslemia@fau.edu/561-297-2652

Approved by		***Date***
Department Chair	Pierre Philippe Beaujean	10/26/2022
College Curriculum Chair	Hongbo Su (Digitally signed by Hongbo Su, DN: CN=Hongbo Su, O=FAU, OU=FAU, E=suh@fau.edu, C=US, Reason: I am the author of this document, Location: your signing location here, Date: 2022.10.26 16:34:31-04'00', Foxit Reader Version: 10.1.1)	
College Dean		10/26/22
UUPC Chair	Ethlyn Williams	11/7/2022
Undergraduate Studies Dean	Dan Messoff	11/7/2022
UFS President		
Provost		

Email this form and syllabus to mjenning@fau.edu seven business days before the UUPC meeting.

Department of Ocean and Mechanical Engineering, Florida Atlantic University
Course Syllabus

1. Course title/number, number of credit hours

EML 4730L Mechanical Engineering Lab	3 credit hours

2. Instructional Method

This is In-Person class. The class is recorded by FAU. ALL QUIZZES AND EXAM ARE IN-PERSON. No ZOOM recording will be available.

3. Course pre-requisites, co-requisites, and where the course fits in the program of study

Prerequisites:

Experimental Methodology – EML 3523C/Minimum C
Computer Applications 1 – EGN 2213/Minimum C

If students have not completed the required prerequisites for the course and do not inform their course instructor and advisor, they will be dropped from the course. If this occurs after the first week of the semester, they will be fee liable to the University.

4. Course logistics

Term: SPRING 2023

Time & Location:
Lectures: TR 3:30 – 4:20 GS 118
Labs: TR 4:30 – 6:20 EW 162/157

5. Instructor contact information

Instructor's name : Oren Masory
Office address : EW 112
Office Hours: TR 10::- 12:00
Contact telephone number: 297-3424
Email address: masoryo@fau.edu

6. TA contact information

TA's name *Office address* *Office Hours* *Contact telephone number* *Email address*	

7. Course description

Experimental work related to heat transfer, fluid mechanics, mechanical systems, materials and solid mechanics. Also, statistics, error analysis and design of experiments

8. Course objectives/student learning outcomes/program outcomes	
Course objectives	This course is designed to have students perform laboratory experiments in various areas of mechanical engineering to reinforce concepts presented in the Department's core courses. Students will work with pre- arranged experiments and new experimental setups they design in the class. They will collect experimental results and analyze and interpret the data.
Student learning outcomes & relationship to ABET 1-7 objectives	1. Students will be able to properly compose a technical report. (3) 2. Students will be able to conduct experiments in the areas of the Mechanical Engineering curriculum and analyze and report the results appropriately. (1,2,3,6)

9. Course evaluation method

Individual reports – 35%
Team reports – 25%
1 Quiz – 15%
Final Examination – 25%

10. Course grading scale

93 and above: "A",
90-92: "A-",
87-89: "B+",

83-86: "B",
80-82: "B-",
77-79: "C+",
73-76: "C",
70-72: "C-",
67-69: "D+",
63-66: "D",
60-62: "D-",
59 and below: "F."

11. Policy on makeup tests, late work, and incompletes

Makeup tests are given only if there is solid evidence of a medical or otherwise serious emergency before the tests that prevented the student of participating in the exam. Makeup exams should be administered and proctored by department personnel unless there are other pre-approved arrangements.

***Late work* without verifiable justification will NOT be graded.**
Late submission of assignment – Grade will be reduced by 5% for each day.

Incomplete grades are against the policy of the department. Unless there is solid evidence of medical or otherwise serious emergency situation incomplete grades will not be given.

12. Special course requirements

13. Classroom etiquette policy

University policy requires that in order to enhance and maintain a productive atmosphere for education, personal communication devices, such as cellular phones, are to be turned off in class sessions.

1. **NO PHONES USE IN CLASS DURING LECTURES.**
2. No cell-phones, pads, or other electronic devices are allowed during any exam or quiz.
3. No watches capable of taking picture or communication with others are allowed during the exam.
4. In case of an emergency where you need to carry an electronic device to the exam, you must ask for permission from the instructor.
5. Only simple calculators can be used

14. Policy on the Recording of Lectures

Students enrolled in this course may record video or audio of class lectures for their own personal educational use. A class lecture is defined as a formal or methodical oral presentation as part of a university course intended to present information or teach students about a particular subject. Recording class activities other than class lectures, including but not limited to student presentations (whether individually or as part of a group), class discussion (except when incidental to and incorporated within a class lecture), labs, clinical presentations such as patient history, academic exercises involving student participation, test or examination administrations, field trips, and private conversations between students in the class or between a student and the lecturer, is prohibited. Recordings may not be used as a substitute for class participation or class attendance and may not be published or shared without the written consent of the faculty member. Failure to adhere to these requirements may constitute a violation of the University's Student Code of Conduct and/or the Code of Academic Integrity.

15. Attendance Policy Statement

Students are expected to attend all of their scheduled University classes and to satisfy all academic objectives as outlined by the instructor. The effect of absences upon grades is determined by the instructor, and the University reserves the right to deal at any time with individual cases of non-attendance. Students are responsible for arranging to make up work missed because of legitimate class absence, such as illness, family emergencies, military obligation, court-imposed legal obligations or participation in University approved activities. Examples of University-approved reasons for absences include participating on an athletic or scholastic team, musical and theatrical performances and debate activities. It is the student's responsibility to give the instructor notice prior to any anticipated absences and within a reasonable amount of time after an unanticipated absence, ordinarily by the next scheduled class meeting. Instructors must allow each student who is absent for a University-approved reason the opportunity to make up work missed without any reduction in the student's final course grade as a direct result of such absence.

16. Disability Policy Statement

In compliance with the Americans with Disabilities Act Amendments Act (ADAAA), students who require reasonable accommodations due to a disability to properly execute coursework must register with Student Accessibility Services (SAS) and follow all SAS procedures. SAS has offices across three of FAU's campuses – Boca Raton, Davie and Jupiter – however disability services are available for students on all campuses. For more information, please visit the SAS website at *www.fau.edu/sas/*

17. Counseling and Psychological Services Center

Life as a university student can be challenging physically, mentally and emotionally. Students who find stress negatively affecting their ability to achieve academic or personal goals may wish to consider utilizing FAU's Counseling and Psychological Services (CAPS) Center. CAPS provides FAU students a range of services – individual counseling, support meetings, and psychiatric services, to name a few – offered to help improve and maintain emotional well-being. For more information, go to http://www.fau,edu/counseling/

18. Code of Academic Integrity Policy Statement

Students at Florida Atlantic University are expected to maintain the highest ethical standards. Academic dishonesty is considered a serious breach of these ethical standards, because it interferes with the university mission to provide a high quality education in which no student enjoys unfair advantage over any other. Academic dishonesty is also destructive of the university community, which is grounded in a system of mutual trust and place high value on personal integrity and individual responsibility. Harsh penalties are associated with academic dishonesty. See University Regulation 4.001 at www.fau.edu/regulations/chapter4/4.001_Code_of_Academic_Integrity.pdf

Cell phones are not allowed during exams. If cell phones are detected during any exam periods, this will result in a **grade of "zero" on that exam and a note in the student's academic file.**

19. Required texts/reading/Lab kits

20. Supplementary/recommended readings

21. Course topical outline, including dates for exams/quizzes, papers, completion of reading

Course Topics:

List of experiments

1. Losses in pipes and fittings (Team)
2. Simple pendulum (Team/Individual)
3. Beam deflection (Team)
4. Properties of rubber (Individual)
5. Heat transfer of coffee cup (Individual)
6. Wind tunnel (Team/Individual)
7. Coeff. Of Restitution (Individual)
8. Pressure loss in pipes (Team)
9. Gravity (Individual)

Other Topics

1. Design of Experiments
2. Error propagation
3. Statistics
4. Filters

Quizzes

Quiz#1 – TBA

Exam Dates

Final Exam – TBA