FLORIDA ATLANTIC	COURSE CHANGE REQUEST Undergraduate Programs Department		UUPC Approval <u>1/29/24</u> UFS Approval SCNS Submittal Confirmed Banner Posted	
UNIVERSITI	Conege			Catalog
<i>Current</i> Course <i>Current</i> Cour Prefix and Number			ourse Title	
Syllabus must be at	ttached for ANY changes to c	urrent course	details. See <u>Checklist</u> . Please	consult and list departments
Change title to:	ea by the changes, attach abc		Change description to	:
Change prefix From:	To:			
Change course	number		Change prerequisites	/minimum grades to:
From:	10:			5
Change credits*	, m			
From:	10:			
Change grading	_		Change corequisites to	0:
From:	To:			
Change WAC/Ge	ordon Rule status**			
Add	Remove		Change registration co	ontrols to:
Change General Education Requirements*** Add Remove *Review Provost Memorandum **WAC/Gordon Rule criteria must be indicated in syllabus and approval attached to this form. See WAC Guidelines. ****General Education criteria must be indicated in syllabus and approval attached to this form. See GE Guidelines.		Please list existing and new p and include minimum passin	pre/corequisites, specify AND or OR g grade (default is D-).	
Effective Term/Year			Terminate course? Eff	ective Term/Year
Faculty Contact/Email/Phone				
Approved by				Date
Department Chair _ Pierre Philippe Beau			jean	1/12/2024
College Curriculum Chair Hongbo Su				1/16/2024
College Dean				_1-16-24
UUPC Chair Korey Jorge			,	1/29/24
Undergraduate Studies Dean <i>Can Miseroff</i>			<u>{</u>	
UFS President				
Provost				

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

1. Course title/number, number of credit hours

EOC 3130L-Ocean Engineering Lab

3 credit hours

2. Instructional Method

You will need to have a computer (or laptop), a reliable WIFI access, and a webcam and microphone connected to your computer for this course. This class consists of lectures and labs, which are conducted in-class and/or live using Webex or Zoom, and recorded so students can watch the lectures and do the labs at a later time and date. The in-class delivery might be converted to fully online subject to the COVID 19 situations as the semester progresses. Students will be accommodated as much as possible with their needs during the pandemic. After two full weeks of face to face instruction with consecutive 'no show' of any students in person in the classroom, the modality of this course may be changed to remote instruction only at the discretion of the university.

In the event you might not have a computer, there is a Laptop Loaner Program at FAU for first-generation, low-income students.

https://www.fau.edu/newsdesk/articles/fau-announces-laptop-loaner-program.php

In the event you might not have reliable internet access remotely, you may use the internet connection on campus. You may use the designated classroom during the live course times for watching lectures, doing labs, and take quizzes and exams. Note that there are only reduced seating capacities in the classroom, and only those who do not have reliable internet access should use the classroom. Social distancing must be strictly followed in the classroom at all times. You will need to make reservation for your seating every week on Canvas. The instructions for the reservation are provided at the following link:

https://fau.edu/oit/instructional/support/files/seatReservationTool_student.pdf

Quiz/Exam Proctoring

All the quizzes and exams will be proctored using Canvas's Lockdown Browser and Respondus Monitor. <u>You will need to have a computer (or laptop), a reliable WIFI access, and a webcam and micro-</u> <u>phone connected to your computer during every quiz and exam</u>. Detailed test taking procedures are provided at the end of this document. A video demonstration about how to take a quiz / exam using the Lockdown Browser and monitor can be found at the following YouTube link: https://www.youtube.com/watch?v=kksvaYfT2no&feature=youtu.be

Study Habits

- Budget 3 hours to study outside the classroom per week for each credit hour. That is, 9 hours of study per week outside the classroom.
- Take notes when watching recorded or live lectures, and summarize/organize the notes afterwards
- Spend 20 minutes to review the notes and refresh your memory before any new lecture
- Do ALL the homework problems and practice quizzes by yourself
- Take advantage of office hours available on webex
- Form study groups

3. COVID 19 Statement

All students in face-to-face classes are required to wear masks during class, and students must sanitize their own workstations upon entering the classroom. Taking these measures supports the safety and protection of the FAU community. Students who do not adhere to these rules will be asked to leave the classroom and/or be removed from the course. Students experiencing flu-like symptoms (fever, cough, shortness of breath), or students who have come in contact with an infected person should immediately contact FAU Student Health Services (561-297-3512).

4. Course prerequisites, corequisites, and where the course fits in the program of study

Prerequisites: CHM 2045, 2045L (General Chemistry I and Lab), PHY 2044, 2049L (Physics for Engineers II and Lab), EEL 2161 (C for Engineers), all with a grade of C or better.

5. Course logistics Term: Fall 2024 Lecture location: EW 162 Time and Days: Tuesdays and Thursdays 9:30-10:50am 6. Instructor contact information Instructor's name: Office douress: Dr. Jim Van Zwieten Office hours: Phone number: Email address: Phone number: Email address: N/A Office dours: Email address: Office dours: VA Scourse deals with basic engineering laboratory methods and techniques with experiences in measurement planning, data recording, and laboratory report preparation. Five major lat experiences, including at sea experiences, are included. Ocurse objectives: The objective of the course is to provide a basic background in engineering laborato			
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10. Course evaluation method		
Quiz:	20%	
Lab:	30%	
Report:	20%	
Peer evaluation:	5%	
Post-lab work:	5%	
Exam 1:	25%	
Exam 2:	25%	
Final Exam:	25% (can only replace Exam 1 or Exam 2)	

Bonus Points

- Webcam test (0.5pt of the course grade)
- Practice quiz (0.5 pt of the course grade)

The lowest quiz score will be dropped. If the overall grade by the last week of semester is maintained at 70% or above, the final exam can be waived. If possible, the final exam scores will replace the lowest of any of the exam scores. Otherwise, the final exam score will not be included in the course grade. You can think the final exam as a makeup exam if you did not do well in any of the exams.

Grading Policy

1) all the steps are correct and the final answer is correct:	100%
2) overall most of the steps are correct, but the final answer is wrong:	90%
3) the steps show the majority of concepts are correct, but have numerous errors:	70%
4) the steps show some fundamental errors, and far from completing the problem:	40%
5) no steps included other than the answer is correct:	10%
6) blank, no steps:	о%

11. Course grading scale		
Grading Scale:		
> 90	A	
86.7–90	Α-	
83.3-86.7	B+	
80-83.3	В	
76.7–80	В-	
73.3–76.7	C+	
70–73.3	C	
66.7–70	C-	
63.3–66.7	D+	
60–63.3	D	
56.7–60	D-	
<56.7	F	
12. 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 that prevented the student of participating in the exam. Makeup exam should be administered and proctored by department personnel unless there are other pre-approved arrangements

Late work without verifiable justification will NOT be graded.

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.

13. Special course requirements

N/A

14. 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.

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)—in Boca Raton, SU 133 (561-297-3880); in Davie, LA 203 (954-236-1222); or in Jupiter, SR 110 (561-799-8585) —and follow all SAS procedures.

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 <u>grade of "zero" on that exam and a note in the student's academic file.</u>

19. Required texts/reading/Lab kits

Textbook:

Physical Data Analysis (A Primer), Frank Rice (available on Canvas)

Multi-Meter (Required for Labs)

• Neoteck Auto Ranging Digital Multimeter AC/DC Voltage Current Ohm Capacitance Frequency Diode Transistor Audible Continuity, Multi Tester with Backlit LCD (\$21.99)

https://www.amazon.com/gp/product/Bo1NAVAT9S/ref=ppx_yo_dt_b_asin_title_oo1_soo?ie=UTF8&p_ sc=1

Starter Kit (Required for Labs)

 ELEGOO UNO Project Super Starter Kit with Tutorial and UNO R₃ Compatible with Arduino IDE (\$36.99)

https://www.amazon.com/gp/product/Bo1D8KOZF4/ref=ppx_yo_dt_b_asin_title_oo4_so1?ie=UTF8&p sc=1

Useful References:

Matlab online tutorial: <u>http://www.engin.umich.edu/group/ctm/basic/basic.html</u> C programming online tutorial: <u>https://www.lysator.liu.se/c/bwk-tutor.html</u>

20. Supplementary/recommended readings

Title:	Experimental Methods for Engineers, 8 th Edition (online version available)
Authors:	J.P. Holman
Publisher:	McGraw-Hill
Year and Edition:	2012
ISBN:	978-0-07-352930-1

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

Tentative Course Topics:

- 1. Basic measurement theory
- 2. Uncertainty Analysis
- 3. Basic analog to digital conversion
- 4. Basic microcontroller tutorial
- 5. Basic calibration
- 6. Data fitting
- 7. Oceanographic measurements

Tentative Labs:

- 1. Micro-controller and digital I/O
- 2. Micro-controller and ADC
- 3. Strain gauge calibration
- 4. Corrosion in a galvanic cell

5. Wind tunnel measurements

6. CTD

7. Design of experiments

Quizzes:Thursdays unless otherwise statedLabs:Tuesdays unless otherwise statedExam #1:Feb 25, 2024 (Thursday)Exam #2:Apr 15, 2024 (Thursday)Final Exam:Apr 22, 2024 (Thursday) 7:45-10:15am

The last day to drop the course without receiving an F in the course: Mar 22, 2024 (Friday)