

 FLORIDA ATLANTIC UNIVERSITY	COURSE CHANGE REQUEST Undergraduate Programs	UUPC Approval <u>2/26/24</u> UFS Approval _____ SCNS Submittal _____ Confirmed _____ Banner Posted _____ Catalog _____
	Department _____ College _____	
Current Course Prefix and Number		Current Course Title
<i>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.</i>		
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 _____ <small>*See Definition of a Credit Hour.</small> <small>**WAC/Gordon Rule criteria must be indicated in syllabus and approval attached to this form. See WAC Guidelines.</small> <small>***GE criteria must be indicated in syllabus and approval attached to this form. See Intellectual Foundations Guidelines.</small>		Change description to: Change prerequisites/minimum grades to: 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:		Terminate course? Effective Term/Year for Termination:
Faculty Contact/Email/Phone		
Approved by Department Chair <u>Hari Kalva</u> College Curriculum Chair <u>Hongbo Su</u> College Dean <u>[Signature]</u> UUPC Chair <u>Korey Sorge</u> Undergraduate Studies Dean <u>Dan Meeroff</u> UFS President _____ Provost _____		Date _____ <u>2/12/2024</u> _____ _____ <u>2/13/2024</u> _____ _____ <u>2/14/24</u> _____ _____ <u>2/26/24</u> _____ _____ <u>2/26/24</u> _____ _____ _____

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

Full-Stack Web Development – COP 4808-001 CRN 15089

Monday – 7:10pm – 10:00pm
3 credits

Fall 2024

Instructor: Dr. David Jaramillo
Zoom Live Lecture

Office hours: by appointment, email, discord
email: djaramil@fau.edu



TA name/email:

Nisaury Amador Tejeda / namadortejed2021@fau.edu

Alexandro Galvez-Vega / agalvezv@fau.edu

Course Description

Top-down design methodology for full stack web application development using some of the latest practices, tools, browsers, databases enabled by JavaScript environments such as Nodejs, Express, React and integration with databases and API design/development. App development with docker and cloud deployment will be covered as well. Project focus may vary dependent on the student's interests.

Instructional Method

This class is designated as “Live lecture online via Zoom” Class sessions will be recorded live and students are required to either attend the live session or watch the recording available via Canvas.

Prerequisites

COP 3826 or COP 3813 with a minimum grade of C or permission of the instructor

Course Objectives/Student Learning Outcomes

Course objectives	This course will provide students with the foundations of computer science and introduce different areas of computer science.
Student learning outcomes & relationship to ABET 1-7 outcomes	1. An Ability to identify, formulate, and solve complex computing/engineering problems by applying principles of computing, engineering, science, and mathematics. (Problem solving) 2. An ability to apply the computing/engineering design process to produce solutions that meet a given set of computing/engineering requirements with

	consideration for public health and safety, and global cultural, social, environmental, economic, and other factors as appropriate to the discipline. (Design) 6. An ability to apply engineering/computer science theory and hardware/software development fundamentals to develop and conduct appropriate experimentation, analyze and interpret data, and use computing/engineering judgment produce engineering/computing-based solutions/conclusions. (Experimentation and/or simulation)
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Course Evaluation Method

Attendance 10% - class attendance / view class recording, class participation

Labs 20% - include multiple-choice type tests administered online using Canvas.

Homework 30% - require exposure to languages such as NodeJS, JS, React, HTML, CSS.

Final Project 40% - design, develop, test, deploy a full stack web app.

Course Grading Scale

A: 100-95, A-: 94-90, B+: 89-86, B: 85-82, B-:81-79, C+: 78-75, C: 74-70, D: 69-60, F:59-0.

Minimum grade to pass class is a “C”

Policy on Makeup Tests, Late Work, and Incompletes (if applicable)

Late work is not acceptable, except for special (e.g. medical) circumstances and advance notice.

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

Special Course Requirements (if applicable)

Students need to have full access to a developer level PC – minimum requirements – 2 GHz 4-Core i5 with 8 gigs RAM - running Windows, Linux, or Mac OS with internet access.

Classroom Etiquette Policy (if applicable)

If you have a particular policy relating to student behavior in the class, such as relating to tardiness or on the use of electronic devices in the classroom, state so here. Recognizing the unique relationship between faculty and student and adhering to the principles of academic responsibility, any such policies must be reasonable, non-discriminatory and not impede the educational mission.

Policy on the Recording of Lectures (optional)

Because of a new Florida Statute in 2021, the following model language is suggested for inclusion in course syllabi, at the discretion of individual faculty:

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.

Attendance Policy

Students are expected to attend all their scheduled University classes or view the recorded class 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.

Counseling and Psychological Services (CAPS) 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/>

Disability Policy

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/.

Code of Academic Integrity

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 an unfair advantage over any other. Academic dishonesty is also destructive of the university community, which is grounded in a system of mutual trust and places high value on personal integrity and individual responsibility. Harsh penalties are associated with academic dishonesty. For more information, see [University Regulation 4.001](#).

Required Texts/Readings

All resources will be online and provided as part of the class material.

Supplementary/Recommended Materials (if applicable)

Links to material will be provided as part of the class material.

<https://fullstackopen.com/en/>

<https://www.theodinproject.com/>

Course Topical Outline

Course outline will be posted in Canvas by first day of semester class and syllabus will be updated
Instructor reserves the right to adjust this syllabus as necessary.