

 <b>FLORIDA ATLANTIC UNIVERSITY</b>	<b>NEW COURSE PROPOSAL</b> <b>Graduate Programs</b>		UGPC Approval _____ UFS Approval _____ SCNS Submittal _____ Confirmed _____ Banner _____ Catalog _____	
	<b>Department</b> Electrical Engineering and Computer Science  <b>College</b> Engineering and Computer Science (To obtain a course number, contact <a href="mailto:erudolph@fau.edu">erudolph@fau.edu</a> )			
<b>Prefix</b> CAP  <b>Number</b> 6109	(L = Lab Course; C = Combined Lecture/Lab; add if appropriate) <b>Lab Code</b>	<b>Type of Course</b> Lecture	<b>Course Title</b> Human Computer Interaction	
<b>Credits</b> (See <a href="#">Definition of a Credit Hour</a> )  3	<b>Grading</b> (Select One Option)  <b>Regular</b> <input checked="" type="radio"/> <b>Sat/UnSat</b> <input type="radio"/>	<b>Course Description</b> (Syllabus must be attached; see <a href="#">Template</a> and <a href="#">Guidelines</a> ) Through a blend of theoretical exploration and hands-on application, participants will gain a deep understanding of user-centered design, usability principles, and the latest advancements in HCI research. The course encourages iterative design thinking, prototyping, and evaluation, empowering students to create user interfaces and experiences that prioritize usability and accessibility. Engaging in group discussions, assignments, and a comprehensive course project, students will hone their ability to ideate, propose and solve design problems, critically evaluate existing practices, and communicate their design solutions effectively.		
<b>Effective Date</b> (TERM & YEAR)  Fall 2024				
<b>Prerequisites</b>  graduate standing   <i>Prerequisites, Corequisites and Registration Controls are enforced for all sections of course.</i>		<b>Academic Service Learning (ASL) course</b> <input type="checkbox"/> Academic Service Learning statement must be indicated in syllabus and approval attached to this form.		
		<b>Corequisites</b>		<b>Registration Controls</b> (For example, Major, College, Level)
<b>Minimum qualifications needed to teach course:</b> Member of the FAU graduate faculty and has a terminal degree in the subject area (or a closely related field).		<b>List textbook information in syllabus or here</b>		
<b>Faculty Contact/Email/Phone</b> Michael DeGiorgio / mdegior@fau.edu / 561-297		<b>List/Attach comments from departments affected by new course</b>		

<b>Approved by</b> Department Chair <u>Hani Kalva</u> College Curriculum Chair <u>Masoud Jahandar Lashaki</u> College Dean <u>U. Cardei</u> UGPC Chair _____ UGC Chair _____ Graduate College Dean _____ UFS President _____ Provost _____	<b>Date</b> 3/11/2024 7/29/2024 7/29/2024 _____ _____ _____ _____ _____
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Email this form and syllabus to [UGPC@fau.edu](mailto:UGPC@fau.edu) 10 days before the UGPC meeting.

# CAP 6109 Human Computer Interaction

DAY X – X  
3 credits

Semester, Year  
Prof. XXXXX YYYYY  
Office: XXXXX  
Office hours: DAY X-X  
Classroom: XXXX  
Telephone: 561-297-XXXX  
Email: [zzzzz@fau.edu](mailto:zzzzz@fau.edu)



TA name	xxxxxx xxxxxxxxx
Office	xxxxxx
Office hours	DAY xx:xx – xx:xx
Telephone	561-297-xxxx
Email	xxxxxx@fau.edu

## Course Description

Through a blend of theoretical exploration and hands-on application, participants will gain a deep understanding of user-centered design, usability principles, and the latest advancements in HCI research. The course encourages iterative design thinking, prototyping, and evaluation, empowering students to create user interfaces and experiences that prioritize usability and accessibility. Engaging in group discussions, assignments, and a comprehensive course project, students will hone their ability to ideate, propose and solve design problems, critically evaluate existing practices, and communicate their design solutions effectively.

## Instructional Method

In-Person. There is no remote option for this course.

## Prerequisites

Graduate standing

## Course Objectives/Student Learning Outcomes

Upon completion of this course the student will be able to:

- Understand user-centered design
- Perform prototyping and evaluation of user interfaces
- Consider usability and accessibility when designing interfaces

## Course Evaluation Method

Attendance/Class participation	15%
Course project	30%
Exam	20%

Assignments	35%
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Total	100%

## Course Grading Scale

Grade	Total (%)
A	[93 – 100]
A-	[90 – 92)
B+	[87 – 89)
B	[83 – 86)
B-	[80 – 82)
C+	[77 – 79)
C	[73 – 76)
C-	[70 – 72)
D+	[67 – 69)
D	[63 – 66)
D-	[60 – 62)
F	[0 – 59)

## Policy on Makeup Tests, Late Work, and Incompletes

Late work will not be accepted. All assignments will be posted well in advance, and students may submit assignments early. Any assignment not turned in by the due date will result in a zero.

Incomplete grades are against the policy of the department, and they will only be assigned if there is solid evidence of medical or otherwise serious emergency situation.

## 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.

## Attendance Policy

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.

## **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/](http://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**

Related papers and reading materials will be distributed over Canvas.

## **Course Topical Outline**

Foundations of HCI

- Overview of Human-Computer Interaction

- Historical perspectives and milestones

User-Centered Design

- Understanding user needs

- Design principles and heuristics

Prototyping and Iterative Design

- Prototyping techniques

- User feedback and iteration

Evaluation Techniques

Usability testing  
Metrics and analytics  
Cutting-Edge Research in HCI  
Emerging trends  
Ethical considerations