BACHELOR OF SCIENCE IN
COMPUTER INFORMATION SYSTEMS

WHAT IS COMPUTER INFORMATION SYSTEMS?

Computer Information Systems (CIS) emphasizes the application of information technology to streamline the management and operations of organizations. As a Computer Information Systems student, you will concentrate on the intricacies of computing and network technology, learning how to effectively apply these tools within the organizational context to solve real-world business challenges.

CAREERS IN COMPUTER INFORMATION SYSTEMS

Students in the Computer Information Systems program at the University of Houston (UH) Cullen College of Engineering's Technology Division are equipped for career paths within the information technology industry as well as further education in graduate school, including administration, software engineering, supervision, systems analysis, training, consulting, and cybersecurity. The Cullen College of Engineering also has a dedicated Engineering Career Center which connects hundreds of students each year to internships and full-time positions.

WHY EARN YOUR BIOTECHNOLOGY DEGREE AT THE UNIVERSITY OF HOUSTON?

ACADEMICS 📕

The Computer Information Systems program combines theoretical knowledge with hands-on experience to prepare its graduates for dynamic careers in information technology. Computer Information Systems undergraduate students will learn to apply accurate knowledge of the functions and applications of technology to contribute productively and effectively to the processes of an organization. They will be taught to help solve complex organizational problems by identifying, analyzing, developing, testing, implementing, and deploying information system-based solutions.

Students will also learn to apply ethical considerations while working to solve problems for an organization, contribute high-quality work to team-based projects in alignment with their roles within an organization, effectively communication with individuals in diverse roles within an organization, and take measures to secure information from theft, loss, or unauthorized access.

Continuous learning is a fundamental part of this program, ensuring that graduates maintain knowledge of emerging and evolving information system methodologies and technologies. This knowledge is invaluable in addressing the critical needs of organizations and staying competitive in the fast-paced tech landscape. The Computer Information Systems program not only equips students with technical prowess but also provides them with the strategic insight required to drive innovation and success in today's digital landscape. Learn more at https://dot.egr.uh.edu/programs/undergraduate/computer-information-systems

RESEARCH 🔬

Students in the Computer Information System program can join faculty mentored research in a variety of topics including Artificial Intelligence, Data Science and Cybersecurity. Besides learning about the research process, undergraduate researchers work side-by-side with graduate students and learn about the graduate school environment, gaining valuable advice and guidance about applying to graduate school.

SCHOLARSHIPS ⭐

Merit-based scholarships are awarded by the Cullen College of Engineering's Technology Division. Scholarships are also offered by the UH Office of Scholarships and Financial Aid. Additionally, the university's co-op program offers students the opportunity to receive career training while financing their education. Learn more at https://dot.egr/uh.edu/advising/financial-aid/scholarships.

STUDENT ORGANIZATIONS 👥

Students are encouraged to join academic and professional organizations to build leadership, communication, and networking skills. Members of student organizations receive career guidance from industry professionals and participate in activities that promote their field of study.

Future Information Technology Professionals (FITP) at the UH Cullen College of Engineering's Technology Division is a student organization that caters to students aspiring to enter the field of information technology. Members have opportunities to attend conferences and network with industry professionals, faculty, and all levels of undergraduate students.

Each year the CIS program hosts the cloudathon@UH competition. Students can showcase their practical skills and learn and interact with the AWS services. Industry experts, AWS Enterprise and Solution Architects will provide valuable advice during the competition. Undergraduate students of all skill levels are welcome to participate.

CIS FAST FACTS ☑

970 Total Undergraduate Students

15 Total Faculty

$108,130.00* Average Salary

59:1 Student-to-Faculty Ratio Across the University

* https://www.bls.gov/oes/current/oes_nat.htm#15-0000

Technology Division
Cullen College of Engineering

BACHELOR OF SCIENCE IN COMPUTER INFORMATION SYSTEMS

YEAR 1

SEMESTER 1			SEMESTER 2			Total
*CIS 1348	Info Sys Application Development	3	*DIGM 1376	User Experience (UX) Principles	3	
MATH 2413	Calculus I	4	MATH 1324	Finite Math W/ Apps	3	
HIST 1301	U.S. to 1877	3	HIST 1302	U.S. since 1877	3	
CORE	Life & Physical Sciences	3	CORE	Life & Physical Sciences	3	
ENGL 1301	First Year Writing I	3	ENGL 1302	First Year Writing II	3	
	Semester Hours	16		Semester Hours	15	31

YEAR 2

SEMESTER 1			SEMESTER 2			Total
*CIS 2334	Information Systems Applications	3	*CIS 2337	Fundamentals of Info Security I	3	
*CIS 2336	Web Application Development	3	*CIS 2368	Adv Information Sys Develop	3	
MATH 1342	Elementary Statistical Methods	3	*CIS 2347	Info Sys Infra. & Networking	1	
ECON 2302/01	Princ of Micro or Macro Economics	3	CORE	Language, Philosophy & Culture	3	
ACCT 2301	Principles of Financial Account	3	ACCT 2302	Principles of Managerial Account	3	
	Semester Hours	15		Semester Hours	15	30

YEAR 3

SEMESTER 1			SEMESTER 2			Total
*CIS 3343	Info Sys Analysis & Design	3	*CIS 3330	Information Systems in Orgs	3	
CORE	Creative Arts	3	*CIS 3339	Enterprise Application Development	3	
*TLIM 3363	Technical Communication	3	*TLIM 3360	Law & Ethics in Tech & Innovation	3	
*TLIM 3340	Org Leadership & Supervision	3	GOVT 2306	US & Texas Constitution & Politics	3	
GOVT 2305	US Government	3	Appr. Elective	CIS Technical Electives on dot.egr.uh.edu	3	
	Semester Hours	15		Semester Hours	15	30

YEAR 4

SEMESTER 1			SEMESTER 2			Total
*CIS 4355	Information Systems Operations	3	*CIS 4375	Project Management & Practice	3	
*CIS 4365	Database Management	3	*TLIM 4342	Quality Systems	3	
*CIS 4374	Info Systems Project Management	3	*CIS 3320	Information Visualization	3	
*TLIM 4341	Production & Service Operations	3	Appr. Elective	CIS Technical Electives on dot.egr.uh.edu	3	
Appr. Elective	IS Technical Electives on dot.egr.uh.edu	3	Appr. Elective	CIS Technical Electives on dot.egr.uh.edu	3	
	Semester Hours	15		Semester Hours	15	30
				TOTAL SEMESTER HOURS		121

FOR MORE INFORMATION

Students should meet with their academic advisor to formulate their own plan. Course offerings are subject to change.

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