ACADEMIC MAP



Computer Information Systems Computer Science, Bachelor of Science

First Year		Harris	Third Year		
Fall		Hours	- 4237	Applied Deckel With and Obstication	0
UNIV 1101	University Seminar I	1	MATH 3342 or MATH 3345	Applied Probability and Statistics or Statistical Modeling and Data	3
ENGL 1301	Writing and Rhetoric I	3	01 WATT 5545	Analysis	
COSC 1435	Introduction to Problem Solving with Computers I	4	COSC 3346	Operating Systems	3
COSC 3100	Skills for Computing Professionals I	1	COSC 3324	Object-oriented Programming	3
MATH 2413	Calculus I	4	Minor Course		3
Social and Behavioral Sciences Core Requirement		3	American History Core Requirement		3
	Hours	16		Hours	15
Spring			Spring		
UNIV 1102	University Seminar II	1	COSC 3370	Software Engineering	3
ENGL 1302 or COMM 131	Writing and Rhetoric II or Foundation of Communication	3	ENGL 3310	Technical and Professional Writing for Computer Science	3
COSC 1436	Introduction to Problem Solving with	4	Approved Upper-Division COSC Course		3
	Computers II		Life & Physical Science Core Requirement		3
MATH 2305	Discrete Mathematics I	3	Component Area Option Core Requirement		3
Creative Arts Core Requirement		3		Hours	15
	Hours	14	Fourth Year		
Second Year			Fall		
Fall			COSC 4100	Skills for Computing Professionals II	1
COSC 2334	Computer Architecture	3	COSC 4342	Computer Networks	3
COSC 2437	Data Structures	4	Approved Upper-Division COSC Course		3
COSC 2470	COBOL Programming	4	Minor Course		3
Minor Course		3	Minor Course		3
POLS 2305	U.S. Government and Politics	3	Life & Physical Science Core Requirement		3
	Hours	17		Hours	16
Spring			Spring		
COSC 3336	Introduction to Database Systems	3	COSC 4354	Senior Capstone Project	3
Approved Upper-Division COSC Course		3	Approved Upper-Division COSC Course		3
Minor Course		3	Minor Course		3
American History Core Requirement		3	Language, Philosophy & Culture Core Requirement		3
POLS 2306 State and Local Government		3	Component Area Option Core Requirement		3
Hours		15	Hours		15
				Total Hours	123



CAREER MAP

COMPUTER SCIENCE

Bachelor of Science



The mission of the computer science program is to educate undergraduate and graduate students in the principles of computer science and to extend the understanding and use of those principles by conducting research and service in support of the people and economy of south Texas, the state of Texas as a whole, and the nation, consistent with the program's function within a Hispanic-serving institution. Degree options include: Systems Programming Option (SYPO)

Cyber Security and Infrastructure Option (CSIF)

Game Programming Option (GMPR)

Information Systems Option (ISYS)

Within this program, students analyze a complex computing problem and apply principles of computing and other relevant disciplines to identify solutions. Students also design, implement, and evaluate a computing-based solution to meet a given set of computing requirements in the context of the program's discipline. As a part of this degree, students will be able to communicate effectively, make informed judgments and function as a member or leader within computer science team using theory and software development fundamentals to produce solutions.

The requirements for a Bachelor of Science degree in Computer Science include a total of 120-122 semester hours. The total is divided among the following groups: University Core Curriculum, Major Curriculum, and Electives. In order to prepare students to attain the program educational objectives, the CS degree program has been structured to ensure that all students, by the time of their graduation, will have been enabled to meet the following outcomes:

Analyze a complex computing problem, and to apply principles of computing and other relevant disciplines to identify solutions.

Design, implement, and evaluate a computing-based solution to meet a given set of computing requirements in the context of the program's discipline.

Communicate effectively in a variety of professional contexts.

Recognize professional responsibilities and make informed judgments in computing practice based on legal and ethical principles.

Function effectively as a member or leader of a team engaged in activities appropriate to the program's discipline.

Apply computer science theory and software development fundamentals to produce computing-based solutions.

CONTACT INFORMATION

Career Counselor:

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SKILLS/ATTRIBUTES

- Critical Thinking/Problem Solving
- Teamwork/Collaboration
- Professionalism/Work Ethic
- Oral/Written Communications
- Leadership
- Digital Technology
- Global/Multicultural Fluency

CAREER OPTIONS

- Software Developer
- Computer Programmer
- Web Developer
- Information Analyst
- Computer Support Specialist
- Software Engineer
- Data Scientist
- Database Administrator

ADDITIONAL SOURCES OF INFORMATION

- 1. Association for Computing Machinery
- 2. Association of Information Technology Professionals
- 3. International Webmasters Association
- 4. Software and Information Industry Association

STUDENT ORGANIZATIONS

- Islander Women in Computer Science
- SACNAS Chapter at Texas A&M University Corpus Christi
- Advancement of Women in Science
- Computing Alliance of Hispanic Serving Institutions at Texas A&M University CC
- Cyber Defense Team

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