

## **CAREERS**

Computer Programmer
Computing Systems Design
Financial Institutions
Government Agencies
Information Systems Manager
Software Engineer
Software Publishers
Web Developer

## **REQUEST INFORMATION**

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Department of Computer Science
College of Science & Engineering Technology
SAM HOUSTON STATE UNIVERSITY
MEMBER THE TEXAS STATE UNIVERSITY SYSTEM



# **DEGREE SPECIFIC REQUIREMENTS MATH 1420** Calculus I **MATH 1430** Calculus II **MATH 2395** Discrete Mathematics **MATH 3379** Statistical Mthods in Practice **ADV MATH** (3 hours) COSC 1436 Programming Fundamentals I **COSC 1437** Programming Fundamentals II **COSC 2327** Intro to Computer Networks COSC 2329 Comp Organiz & Machine Lang COSC 3312 Numerical Methods COSC 3318 Data Base Management Systems COSC 3319 Data Structures & Algorithms **COSC 3321** Digital System Design **COSC 3327 Computer Architecture** COSC 4314 **Data Mining COSC 4318** Advanced Language Concepts **COSC 4319** Software Engineering **COSC 4320** System Modeling & Simulation COSC 4332 **Computer Graphics COSC 4340** Spc Tpcs in Computer Sci **COSC 4349** Professionalism & Ethics **ELECTIVES** COSC or DFSC Electives (3 hours must be advanced) **General Electives**

### **REQUIREMENTS**

In addition to coursework about programming, databases, and other computer-related topics, the computer software engineering degree requires calculus, discrete mathematics, and statistics.

### **MINOR**

This program does not require a minor; however, students may select a minor that suits their interests and career goals.

#### **HIGHLIGHTS**

A variety of operating systems, network protocols, programming languages, and application packages are available in the comprehensive computing environment provided for students. In addition to campus resources, the Department of Computer Science operates a range of lab facilities, including network, robotics, and Unix/Linux labs, a data recovery lab, and a network security lab. Off-campus access to departmental computing resources is available.



Other Degrees offered through the department of computer science:

Computing Science, BS
Cyber Security, BS
Computing & Information Science, MS
Digital Forensics, MS
Information Assurance & Cybersecurity, MS
Digital & Cyber Forensic Science, PhD