



THE BACHELOR OF SCIENCE IN CYBER SECURITY

The Bachelor of Science in cyber security prepares students for professional work in business and industry, as well as government and law enforcement.

You will learn the techniques to collect, preserve, analyze, and report digital evidence.

As part of its operations, the department of Computer Science houses the Sam Houston State University Center of Excellence in Digital Forensics, a center dedicated to the development of digital forensics training for law enforcement personnel and research opportunities into forensics and security issues.

CAREERS

Forensic Investigator
Incident Responder
Information Security Analyst
Information Security Specialist
Law Enforcement
Penetration Tester
Security Architect
Security Engineer
Security Software Developer

REQUEST INFORMATION

shsu.edu/dcfet

Department of Computer Science

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Department of Computer Science
COLLEGE OF SCIENCE & ENGINEERING TECHNOLOGY
SAM HOUSTON STATE UNIVERSITY
MEMBER THE TEXAS STATE UNIVERSITY SYSTEM



BE BOLD.

CYBER SECURITY, BS
COLLEGE OF SCIENCE &
ENGINEERING TECHNOLOGY



DEGREE SPECIFIC REQUIREMENTS

MATH 1420	Calculus I
MATH 1430	Calculus II
MATH 2395	Discrete Mathematics
MATH 3379	Statistical Methods in Practice
MAJOR	
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 4314	Data Mining
COSC 4319	Software Engineering
COSC 4349	Professionalism & Ethics
DFSC 1316	DF & IA Fundamentals I
DFSC 2316	DF & IA Fundamentals II
DFSC 2320	Hardware Forensics
DFSC 3316	Cryptography & Network Scrtcy
DFSC 4317	Information Security
DFSC 4318	Malware
DFSC 4338	Cyber Warfare

PRESCRIBED ELECTIVES (CHOOSE 2)

COSC 3327	Computer Architecture
COSC 3331	Human-Computer Interaction
COSC 4318	Advanced Language Concepts
COSC 4326	Network Theory
COSC 4327	Computer Operating Systems
COSC 4332	Computer Graphics
COSC 4337	Digital Signal Processing
COSC 4340	Spec Tpcs in Computer Sci
COSC 4319	Principles of Data Quality

REQUIREMENTS

The Bachelor of Science in cyber security requires courses in calculus, discrete mathematics, and statistics in addition to computing science and digital forensics coursework.

HIGHLIGHTS

SHSU provides students with a comprehensive computing environment consisting of a large number of labs and a variety of operating systems, network protocols, programming languages, and application packages. Additionally, the department operates network, robotics and Unix/Linux labs, a data recovery lab, a network security lab, and a symmetric multiprocessing system.



Other Degrees offered through the department of computer science:

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