Security Track
Objectives

The track is designed to prepare students to become computer scientists who:

- understand the importance of and are capable of designing and developing secure software,
- are familiar with the societal impact of insecure software and related infrastructure, and
- are familiar with and can use techniques for testing and assessing systems for secure operation.

All major required courses, all track requirements and track selectives, and their pre-requisites, regardless of department, must be completed with a grade of C or better.

Required Courses (3)

Course	Title
CS 35400	Operating Systems
CS 35500	Introduction to Cryptography
CS 42600	Computer Security

Electives (3)

Course	Title
CS 30700 or **CS 40800**	Software Engineering I Software Testing
CS 34800 or **CS 44800** or **CS 47300**	Information Systems Introduction to Relational Database Systems Web Information Search and Management
CS 35200	Compilers: Principles and Practice

CS 35300 or **CS 45600**	Principles Of Concurrency And Parallelism Programming Languages
CS 37300 or **CS 47100**	Data Mining and Machine Learning Introduction to Artificial Intelligence
<u>**CS 38100**</u>	Introduction to the Analysis of Algorithms
<u>**CS 42200**</u>	Computer Networks
CS 48900 or **CS 49000-DSO**	Embedded Systems Distributed Systems
<u>**CS 49000-SWS**</u>	Software Security

Note: When an A or B choice is listed, only one of A and B can be used to satisfy the elective requirement.

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