All CS Tech Electives have limited enrollment. Students are encouraged to register early for best selection.

**Fall 2024 CSCI Tech Electives**

*Schedule and course listings subject to change*

**CSCI 3800: Introduction to Cryptography**  
- Pre-requisite: CSCI 2421 & CSCI 2511

**CSCI 4202 Intro to AI,** Williams  
- Pre-requisite: CSCI 3412

**CSCI 4220 Social Networks & Informatics,** Debnath  
- Pre-requisite: CSCI 3412

**CSCI 4625 Computer Vision,** Al Borno  
- Pre-requisite: CSCI 3412

**CSCI 4772 Mobile & IoT Security,** Li  
- Pre-requisites: CSCI 3761 & 3453

**CSCI 4800 Cloud Computing,** Ra  
- Pre-requisite: CSCI 3761 & 3453

**CSCI 4800 Natural language Processing & Large Language Models (NLP and LLMs),** Banaei-Kashani  
- Pre-requisite: CSCI 3412 & MATH 2411

**CSCI 4800 GenAI,** McCarthy  
- Pre-requisite: CSCI 3412

**CSCI 4800 Explainable AI,** Williams  
- Pre-requisite: CSCI 3412

**BACS Only**  
Please meet with your advisor for additional selections

**CSCI 3910 Web Dev. w/PHP & MySQL Database,** Lakhani  
- Pre-requisite: CSCI 3287

**BACS Free Electives**

**CSCI 1510 Logic Design**

**CSCI 2525 Assembly Language**

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**Fall 2024 BSCS Breadth Courses**

Additional courses beyond breadth area requirements will count toward as CS electives.

**Secure Computing:**

**CSCI 4741 Principles of Cybersecurity,** Jafarian  
- Pre-requisite: CSCI 3761  
- Required for the Cybersecurity & Secure Comp. Cert

**Data Science:**

**CSCI 4930 Machine Learning,** Biswas  
- Pre-requisites: CSCI 3412 & MATH 3195

**Scientific Computing:**

**CSCI 3560, Probability & Computing,** Lakhani  
- Pre-requisite: CSCI 2511 and MATH 2411

**CSCI 4650, Numerical Analysis I,** math dept  
- Pre-requisite: Math 3191 or MATH 3195

**System Software:**

**CSCI 4565 Intro to Computer Graphics,** Choi  
- Pre-requisite: CSCI 3412 & MATH 3191 or 3195

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**Fall 2024 BSCY Tech Electives**

**CSCY 3800: Introduction to Cryptography,** Wuthier  
- Pre-requisite: CSCI 2421 & CSCI 2421

- **CS 3920: Introduction to Defensive Cyber Operations**  
  - Pre-requisite: CSCI 3761  
  - Offered through a partnership with UCCS