

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**

## 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

## 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