Spring 2023 BSCS Undergraduate Electives

*Schedule and course listings subject to change*

- **CSCI 3762-001 Network Programming**, Ogle
  - Pre-requisite: CSCI 3761
- **CSCI 3916-001 Web API**, McCarthy
  - Pre-requisite: CSI 2421
- **CSCI 4408 Applied Graph Theory**, Gethner
  - Pre-requisite: CSCI 2511 or MATH 3000
- **CSCI 4773 Introduction to Emerging System Security**, Li
  - Pre-requisites: CSCI 3761 & 3453
- **CSCI 4620 Computational Motor Control**, Al Borno
  - Pre-requisites: CSCI 3412 & familiarity with linear algebra and probability
- **CSCI 4939 Internship** – please meet with your advisor.
  - Pre-requisites: CSCI 3415, 2.75 GPA & approval through ELC

Spring 2023 BSCS Breadth Courses

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

**Secure Computing:** **CSCI 4743, Cyber & Infrastructure Defense**, Jafarian
  - Pre-requisite: CSCI 3761
  - Required for the Cybersecurity and Secure Computing (CSSC) Certificate

**Data Science:** **CSCI 4580, Data Science**, Banaei-Kashani
  - Pre-requisites: CSCI 3287, CSCI 3412 & MATH 3195

**Scientific Computing:** **CSCI 4110 Applied Number Theory**, Gethner
  - Pre-requisite: CSCI 2511 or MATH 3000
  - **CSCI 4650, Numerical Analysis**, Math Dept
  - Pre-requisites: MATH 2411 & 3195

**System Software:** **CSCI 4287, Embedded Systems Programming**, Lakhani
  - Pre-requisite: CSCI 3453