Spring 2026 Graduate Courses

Category A Courses

- **CSCI 5573: Operating Systems,** Ra
  Foundational pre-reqs: CSCI 3412, 3453, 4591
- **CSCI 5593: Advanced Computer Algorithms,** Alaghband
  Foundational pre-reqs: CSCI 3453, 4591

Category B Courses

- **CSCI 5455: Data Mining,** Banaei-Kashani
  Foundational pre-reqs: CSCI 3453, 4591
- **CSCI 5620: Computational Motor Control,** Al Borno
- **CSCI 5742: Cybersecurity Programming,** Jafarian
- **CSCI 5773: Introduction to Emerging System Security,** Li
- **CSCI 5800-001: Edge Computing,** Bahreini
  Foundational pre-reqs: CSCI 3412, 3453
- **CSCI 5800-002: Satellite Communication & Networking,** Wang
- **CSCI 5931: Deep Learning,** Biswas

Category C Courses

- **CSCI 5011: Software Project Management Support,** Newell

Spring 2026 Courses to Satisfy MS Course Project

- **CSCI 5455: Data Mining,** Banaei-Kashani
- **CSCI 5620: Computational Motor Control,** Al Borno
- **CSCI 5742: Cybersecurity Programming,** Jafarian
- **CSCI 5773: Introduction to Emerging System Security,** Li
- **CSCI 5931: Deep Learning,** Biswas

Special Topics Course Descriptions

Satellite Communication & Networking: Satellite networks are rapidly transforming how we connect, communicate, and access information globally. With the rise of large-scale constellations like Starlink and OneWeb, there has been a surge of research and industry interest in addressing the challenges and opportunities in satellite communication and networking systems. This course explores recent advances in this area, combining core networking principles with the unique constraints of space-based environments. The course has three main components: 1) lectures and discussions on key topics such as satellite network architecture, routing protocols, onboard computing, delay-tolerant networking, spectrum sharing, security, and AI-enhanced satellite networks; 2) reading and discussion of recent research papers across a variety of topics related to satellite communication and networking; and 3) a semester-long project that allows students to select and investigate a research or industry-relevant problem of their own interest, culminating in a final presentation and technical report.