SFS scholars pursing the MS degree programs in the **Electrical and Computer Engineering department** will be required to take the following blocks of courses (30 credits):

1. Fundamentals in Computer Engineering - 12 credits.
   a. ECE 560 Computer Systems Performance Evaluation (3 credits)
   b. ECE 562 Advanced Computer Architecture (3 credits)
   c. ECE 565 Operating Systems (3 credits)
   d. A graduate math course from the approved list (3 credits)

2. Cybersecurity concentration - 6 credits.
   a. ECE 548 Cyber Threats and Security Management (3 credits)
   b. ECE 549 Network Security (3 credits)

3. Cybersecurity elective courses - 6 credits. A selection from:
   a. ECE 520 Wireless Networks and Mobile Security (3 credits)
   b. ECE 620 Dependable and Secure Computing (3 credits)
   c. CIS 542 Digital Forensics (3 credits)
   d. CIS 543 Applied Cryptography (3 credits)
   e. CIS 544 Cyber Defense and Operations (3 credits)
   f. CIS 546 Secure Software Development (3 credits)
   g. CIS 547 Network Security and Data Assurance (3 credits)

4. Other courses – 6 credits
   MS Thesis Track:
   - ECE 600 Master's Thesis (6 credits; must be supervised by a faculty member specializing in cybersecurity)
   MS Project Track:
   - ECE 501 Master's Project (3 credits; must be supervised by a faculty member specializing in cybersecurity)
   - One elective course (3 credits)