SFS scholars pursuing the MS degree programs in the **Computer & Information Science** department will be required to take the following blocks of courses (30 credits):

1. **Fundamentals in Computer Science** - 9 credits. A selection from:
   a. CIS 560 Theoretical Computer Science (3 credits)
   b. CIS 570 Advanced Computer Systems (3 credits)
   c. CIS 522 Algorithms and Complexity (3 credits)
   d. CIS 580 Paradigmatic Software Development (3 credits)

2. **Cybersecurity concentration** - 12 credits. A selection from:
   a. CIS 542 Digital Forensics (3 credits)
   b. CIS 543 Applied Cryptography (3 credits)
   c. CIS 544 Cyber Defense and Operations (3 credits)
   d. CIS 546 Secure Software Development (3 credits)
   e. CIS 547 Network Security and Data Assurance (3 credits)
   f. ECE 548 Cyber Threats and Security Management (3 credits)
   g. ECE 620 Dependable and Secure Computing (3 credits)

3. **An elective course** - 3 credits. A selection from:
   a. CIS 573 Operating System Design (3 credits)
   b. CIS 577 Computer Networks (3 credits)
   c. ECE 549 Network Security (3 credits)
   d. ECE 520 Wireless Networks and Mobile Security (3 credits)

4. **MS Project and MS Thesis** (must be supervised by a faculty member specializing in cybersecurity) - 6 credits.