

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.