M.S. in Computer Science

Computer Science

Program Director

Art Hanna, Ph.D. (ahanna@stmarytx.edu)

The Master of Science in Computer Science program at St. Mary's prepare students to manage a software development project from analysis, design, implementation, testing and maintenance to management of quality, budgets, deliverables and deadlines. This program requires two engineering (EG) courses. The program is designed to provide a deep understanding of the hardware and software components of computer systems and the following:

- Hardware organization
- Data communication and databases
- Software requirements analysis
- Software design methodologies
- Software implementation and testing

Professors in these programs have expertise in:

- Artificial intelligence,
- Computer security/cybersecurity,
- Game development and simulation, and
- Programming languages.

Code	Title	Semester Hours
Computer Science Core		
CS 6310	Systems Analysis and Design	3
CS 6320	Files and Database	3
CS 6330	Advanced Computer Networks	3
CS 6340	Advanced Software Engineering	3
CS 6350	Hardware & Operating Systems	3
CS 6395	Project	3
Computer Science Electives		
Any other graduate computer science course (other than the core courses) for a total of 9 (nine) credit hours. This is typically 3 courses.		9
Engineering Electives		
Any two 3-credit hour EG classes for which the pre-requisites are met.		6
Total Semester Hours		33

Code	Title	Semester Hours
Computer Science Core - Thesis Option		
CS 6310	Systems Analysis and Design	3
CS 6320	Files and Database	3
CS 6330	Advanced Computer Networks	3
CS 6340	Advanced Software Engineering	3
CS 6350	Hardware & Operating Systems	3
Thesis		
CS 6391	Thesis I	3
CS 6392	Thesis II	3
Computer Science Electives		
Any other graduate computer science course (other than the core courses) for a total of 6 (six) credit hours. This is typically 2 courses.		6
Engineering Electives		

Any two 3-credit hour EG classes for which the pre-requisites are met.	6
Total Semester Hours	33