

AUBURN UNIVERSITY AT MONTGOMERY

Department of Mathematics and Computer Science

Core Courses (18 credit hrs.)

CSCI 6000 Algorithms Design and Analysis
CSCI 6050 Software Engineering
CSCI 6070 Advanced Database Systems
CSCI 6150 Operating Systems
CSCI 6170 Advanced Network Systems
CSCI 6250 Computer Architecture

Concentration 1: High performance Computing (HPC) (9 credit hrs.)

CSCI 6300 Advanced High Performance Computing
CSCI 6350 Distributed Systems
CSCI 6400 Advanced Data Intensive Computing

Concentration 2: Data Analytics (9 credit hrs.)

CSCI 6450 Machine Learning
CSCI 6500 Advanced Mathematical Statistics
CSCI 6550 Optimization Theory

Concentration 3: Computer and Cybersystems Security (9 credit hrs.)

CSCI 6600 Advanced Computer Security
CSCI 6650 Network Security
CSCI 6700 Cryptography

Concentration 4: General Computer Science (9 credit hrs.)

Take 3 courses from Concentrations 1, 2 and 3.

Options: Choose one of the following:

- a) Thesis Option (6 credit hrs.): Thesis
CSCI 6992 M.S. Research Thesis
- b) Non-Thesis Option (6 credit hrs.): Take 2 courses out of the courses in other concentrations or electives.

Electives Courses:

CSCI 6750 Secure Software Development
CSCI 6970 Special Topics in Computer Science (existing course)
CSCI 6924 Computer Science Internship

Total credits to graduate: 33 credit hrs.

Last revised: 4/16/2018