COMPUTER SCIENCE (M.S.)

For details about this program, including program description, admission requirements, and contact information, click here (https://www.montclair.edu/graduate/programs-of-study/computer-science-ms/).

Program Requirements

Code	Title	Credits
Required Courses		
CSIT 515	Software Engineering	3
CSIT 545	Computer Architecture	3
CSIT 571	Computer Algorithms and Analysis	3
CSIT 696	Research Methods in Computing	3
Electives		
Complete 5 courses from the list below.		15
Culminating Experience		
Compelete one of the following: [1]		3
CSIT 697	Master's Project	
CSIT 698	Master's Thesis	
Total Credits		**30**

Elective Courses

Code	Title	Credits
CSIT 514	Compiler Construction	3
CSIT 527	Principles of Secure Programming	3
CSIT 528	Statistics for Data Science	3
CSIT 529	High-Performance Computing	3
CSIT 531	Robotics	3
CSIT 535	Human-Computer Interaction (HCI)	3
CSIT 537	Web Development	3
CSIT 540	Computer Networks	3
CSIT 547	Operating Systems	3
CSIT 548	Scalable Distributed Systems	3
CSIT 550	Text Management	3
CSIT 551	Mobile Computing	3
CSIT 552	Python for Data Science	3
CSIT 553	Exploratory Data Analysis and Visualization	3
CSIT 554	Big Data Analytics	3
CSIT 555	Database Systems	3
CSIT 556	Introduction to Data Science	3
CSIT 557	Advanced Techniques in Data Science	3
CSIT 558	Data Mining	3
CSIT 560	Network Security	3
CSIT 561	Computer Security	3
CSIT 562	Web Security	3
CSIT 565	Information Security Management	3
CSIT 566	Computer Forensics	3
CSIT 567	Cryptography	3
CSIT 574	Image Processing	3
CSIT 575	Computer Graphics	3
CSIT 580	Network Science	3
CSIT 595	Special Topics in Computer Science	3
CSIT 598	Machine Learning	3
CSIT 599	Deep Learning	3
CSIT 610	Information Technology Project Management	3
CSIT 615	Advanced Software Engineering	3
CSIT 616	Software Process Management	3
CSIT 635	Advanced Human-Computer Interaction (HCI)	3
CSIT 655	Advanced Database Systems	3
CSIT 656	Scientific Databases	3
CSIT 670	Advanced Computer Algorithms and Analysis	3
CSIT 691	Independent Study: Computer Science	3
CSIT 695	Readings in Computer Science	1-4

[1] CSIT 696 is the prerequisite for CSIT 697 and CSIT 698.