

COMPUTER SCIENCE, ARTIFICIAL INTELLIGENCE/ MACHINE LEARNING CONCENTRATION (MS IN COMPUTER SCIENCE)

Return to the Department of Computer Science

Degree Options

There are two options for the Master's degree:

- Non-Thesis Option
- Thesis Option

Non-Thesis Option

Code	Title	Hours
CSCI 653	Analysis of Algorithms	3
Approved graduate level coursework		27
Complete at least three courses from the following:		
CSCI 516	Fundamentals of Artificial Intelligence and Machine Learning	
CSCI 536	Data Mining	
CSCI 546	Neural Networks and Machine Learning	
CSCI 646	Deep Learning	
CSCI 656	Machine Learning Systems	
CSCI 680	Topics in Computer Science (with a topic in Artificial Intelligence and/or Machine Learning)	
At least 6 credits must be CSCI 6XX (excluding CSCI 653)		
No more than 12 credits from courses numbered below 600 may be counted toward the degree.		
CSCI 710	Research Project	2
Total Hours		32

Course Restrictions

A student cannot use the following courses to satisfy degree requirements:

Code	Title	Hours
CSCI 566	Directed Studies	
CSCI 666	Directed Studies	
CSCI 685	Colloquium	
CSCI courses designated as Computational Operations Research courses (last digit in the course number is an 8)		
CSCI 695	Directed Thesis Master's Research	
CSCI 700	Thesis	
CSCI 766	Directed Studies	
CSCI 775	Research	
CSCI 785	Colloquium	
CSCI 795	Directed Dissertation Research	
CSCI 800	Dissertation	

No more than one offering of CSCI 690 or CSCI 790 may be applied to the non-thesis option.

Thesis Option

Code	Title	Hours
CSCI 653	Analysis of Algorithms	3
Approved graduate level coursework		21
Complete at least three courses from the following:		
CSCI 516	Fundamentals of Artificial Intelligence and Machine Learning	
CSCI 536	Data Mining	
CSCI 546	Neural Networks and Machine Learning	
CSCI 646	Deep Learning	
CSCI 656	Machine Learning Systems	
CSCI 680	Topics in Computer Science (with a topic in Artificial Intelligence and/or Machine Learning)	
At least 6 credits must be CSCI 6XX (excluding CSCI 653)		
No more than 12 credits from courses numbered below 600 may be counted toward the degree.		
CSCI 700	Thesis	6
Total Hours		30

Course Restrictions

A student cannot use the following courses to satisfy degree requirements:

Code	Title	Hours
CSCI 566	Directed Studies	
CSCI 666	Directed Studies	
CSCI 685	Colloquium	
CSCI 690	Readings in Computer Science	
CSCI courses designated as Computational Operations Research courses (last digit in the course number is an 8)		
CSCI 695	Directed Thesis Master's Research	
CSCI 710	Research Project	
CSCI 766	Directed Studies	
CSCI 775	Research	
CSCI 785	Colloquium	
CSCI 790	Readings in Computer Science	
CSCI 795	Directed Dissertation Research	
CSCI 800	Dissertation	

Comprehensive Exam Requirement

A comprehensive exam is only required of students in the non-thesis option. The comprehensive exam is part of CSCI 710 – Research Project.

Foreign Language Requirement

There is no foreign language requirement.

Satisfactory Progress

To be eligible to graduate, all students must achieve a cumulative grade point average of 3.0 on a 4.0 scale in all courses undertaken for graduate credit at William & Mary after admission to a degree program. No credit toward a degree will be allowed for a course in which a student receives a grade below C (grade point = 2.0).

All requirements for the master's degree must be completed within six years from the first term of enrollment in the master's program, excluding periods of approved leave and military service. Requests for extensions beyond the six-year limit must be filed following the procedures outlined in Time Limits for Degrees and Extensions in the School of Computing, Data Sciences, and Physics Graduate Catalog.