

Certificate Requirements

To satisfy the requirements for the Graduate Certificate in Cloud Computing, students must complete 12 semester credit hours as follows:

A. Required Course

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Select one entry course:

CS 5573, EE 5243, IS 6973

Topics in Systems and Control (Topic: Concepts in Cloud Computing)

Or a cross-listed course in CS and IS. The entry course is taught through team teaching in which instructor from each college contributes to the subjects outlined in the course syllabus.

B. Track Electives

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Select two courses from one of the following tracks:

Applications Track

CS 5233	Artificial Intelligence
CS 5263	Bioinformatics
CS 5443	Database Management Systems
CS 5463	Topics in Computer Science
CS 5473	Data Mining
CS 5493	Large-Scale Data Management
CS 5573	Cloud Computing
CS 6243	Machine Learning
CS 6293	Advanced Topics in Bioinformatics
EE 5243	Topics in Systems and Control (Topic: Data Analytics with Cloud Computing)
EE 5243	Topics in Systems and Control (Topic: Programming Techniques for the Cloud)
EE 6973	Special Problems (Topic: Machine Learning with Big Data)
IS 6703	Introduction to Data Mining
ME 5013	Topics in Mechanical Engineering (Topic: High Performance Computing)

Security Track

CS 6353	Unix and Network Security
CS 6393	Advanced Topics in Computer Security
IS 5513	Fundamentals of Information Assurance
IS 6363	Computer Forensics

Infrastructure Track

CS 5103	Software Engineering
CS 5123	Software Testing and Quality Assurance
CS 6463	Advanced Topics in Computer Science
CS 6463	Advanced Topics in Computer Science (Topic: Parallel and Distribute Systems Software)
CS 6523	Distributed Operating Systems
CS 6543	Networks
CS 6553	Performance Evaluation
CS 6643	Parallel Processing
EE 5103	Engineering Programming
EE 5453	Topics in Software Engineering (Topic: Advanced Data Structures and Algorithms)

C. Capstone Project

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Select one course from the following (topics should be in the field of Cloud Computing):

CS 6953	Independent Study
EE 6943	Graduate Project
EE 6953	Independent Study
IS 6953	Independent Study

Total Credit Hours

12