

The Master of Science Program is intended for people who wish to broaden and deepen their understandings of Computer Science. The program offers a unique opportunity for students to develop leading-edge in depth knowledge of specific disciplines. It provides rigorous training in mathematical and computing foundations of CS. Independent research projects and elective courses focusing on the application of computation on one or more domains complement the foundational coursework.

The opportunities available for a Computer Science graduate are in Theoretical Computer Science, Computer Networks, Databases, Artificial Intelligence, Big Data, Cloud Computing and many more. I would like to pursue an internship during Summer 2016 to gain valuable experience and learn new technologies and methods being applied in the industry.

Plan of Study

Course Title and Number	Number of Credits	Semester	Pre-requisites
CS 530: Mathematical Foundations of CS	3	Fall 2015	None
CS 531: Introduction to Systems Programming	3	Fall 2015	None
CS 583: Analysis of Algorithms	3	Spring 2016	CS 310, CS 330 and MATH 125
CS 580: Introduction to Artificial Intelligence	3	Spring 2016	CS 310 and CS 330
CS 571: Operating Systems	3	Spring 2016	CS 310, CS 367 and CS 465
CS 687: Advanced Artificial Intelligence	3	Fall 2016	CS 580
CS 550: Parallel Algorithms	3	Fall 2016	CS 583
CS 675: Distributed Systems	3	Fall 2016	CS 571
CS 782: Machine Learning	3	Spring 2017	CS 687
CS 688: Pattern Recognition	3	Spring 2017	CS 580
Total: 10 courses	Total: 30	Duration: 4 Semesters	

Program Requirements:

- CS 583 - Analysis of Algorithms Credits: 3 (from the Theoretical Computer Science area) and two additional core courses from two other areas must be successfully completed with a grade of B- or better.
- At least four courses (12 credits) must be chosen from the advanced courses in the list of preapproved courses from at least three different areas.
- At least six courses, including two advanced courses, must be designated CS.
- At least eight courses must be taken from the list of preapproved courses. Up to two computer science-related courses that are not on the list of preapproved courses may be taken with the approval of the Computer Science Department.

Potential List of Academic Advisors:

- 1) Carlotta Domeniconi
- 2) Jessica Lin
- 3) Chris Kauffman
- 4) Harry Wechsler

We have to email the advisors to schedule an appointment in order to meet them. We should keep updating our academic advisor on the progress of our courses and share academic difficulties as and when required.