Requirements for PhD in Computer Science
For students admitted in Fall 2012 or later

Student Name:

1) Core Curriculum

Select 1 core course from each of the two "Foundations" areas, and 4 core courses from any area (6 courses total)

Foundations of Systems

_____ 525 Principles of Computer Networking
_____ 552 Advanced Operating Systems
_____ 553 Principles of Compilation
_____ 576 Computer Architecture

Foundations of Theory

_____ 545 Design and Analysis of Algorithms
_____ 573 Theory of Computation

Applications of Computing

_____ 520 Principles of Programming Languages
_____ 522 Parallel and Distributed Programming
_____ 533 Computer Graphics
_____ 547 Green Computing
_____ 560 Database Systems Implementation
_____ 566 Computer Security
_____ 550 Algorithms in Bioinformatics
_____ 537 Computational Geometry
_____ 577 Introduction to Computer Vision

2) Remaining major credit

6 units of CSC graduate courses

_____ _____
_____ _____

12 units of research course work, typically CSC 695C

_____ _____
_____ _____
_____ _____
_____ _____

3) Colloquium requirement: attend 10 colloquia and enroll in CSC 695A

_____ _____

4) Minor course work (12 units required for internal CSC minor, at least 9 units for external minor—confirm total with minor department)

Minor course work

_____ _____
_____ _____
_____ _____
_____ _____

Additional Graduation Requirements

- 3rd semester portfolio review
- 5th semester portfolio review = qualifying exam
- Written and oral comprehensive exams
- Dissertation defense

- As and Bs in all core classes
- 3.5 GPA in core classes, all at least B
- 3.33 GPA overall

Please complete and submit this check sheet along with your plan of study to the Academic Services Office. This check sheet must also be signed by your faculty advisor.

For faculty advisor

I verify I have reviewed the student's plan of study and approve of the courses outlined therein. I also confirm that I approve of any transfer course work and/or other deviations from the prescribed curriculum as detailed on this check sheet.

_____

Advisor's Signature   Advisor's Name (Printed)   Date

Core Areas:

Foundations of Systems

This area emphasizes the abstractions and organizing principles behind foundational computing systems: hardware, operating systems, compilers, and networks.

Foundations of Theory

This area emphasizes the development of mathematical skills for designing and analyzing computational processes that have provable properties.

Applications of Computing

This area emphasizes in some depth the abstraction and organizing principles behind the disciplined and effective use of major enabling computing technologies and their application.