
General Requirements:

15 graded credits are required for the major - core classes cannot be counted.

9 credits are required for each of the 2 minors - core classes cannot be counted, and at most 3 credits of 793/888 can be counted across the 2 minors.

Notes:

1. Students can take major and minors outside of the list below. They should contact a faculty member in that area prior to taking any of the classes.

2. Students could meet the requirements for the major/minors listed below using an alternative set of classes, including possibly graduate classes taken at another institution. They should contact their major/minor advisor to discuss this in advance.

Software Methodology

Major:

- 763
- + 1 from 758, 762, 772
- + 3--8 credits from 788.12, or other 788 with prior approval of Soft. Meth. area adviser
- + any remaining credits from 756, 757, 767, 794R*

Minor:

- 1 from 758, 762, 772
- + 3--5 credits from 788.12, or other 788 with prior approval of Soft. Meth. area adviser
- + any remaining credits from 756, 757, 763, 767, 794R*

(*794R is likely to be replaced with a permanent number soon).

Networking:

Major: 5 from {651, 677, 678, 679, 763, 777, appropriate 788}

Minor: 3 from {651, 677, 678, 679, 763, 777, appropriate 788}

Graphics

Minor: 681 required.

2 out of (682, 781, 782, 784 or 788.14.)

Major: 681 required.

At least 2 out of (682, 781, 782, 784)

At least 1 788.14.

High-end systems

major: 621, 721, 778, 875, and one from 788.08, 788.11

minor: 9 credits from (621, 721, 778, 875, 788.08, 788.11, 888.08, 888.11),
subject to prerequisite structure and no more than 3 credits of 888

Software Systems:

major: 671, 762, remaining credits from (674, 770, 772, 763, 788.02, 788.06,
788.11)

minor:

DB track: 671, 674, one from (770, 772, 788.02, 888.02)

Distributed Computing Track: 762, 763, one from (788.11, 788.06,
888.11, 888.06)

ARTIFICIAL INTELLIGENCE

Major (15 graded credits)

730, (731 or 732), 779, (634 or **),
+ 1 from 788.04

Minor (9 credits)

(630 or 730), 1 from (731, 732, 779, 634, **),
+ 1 from (788.04)

** : New class in speech recognition that is under development.

Theory and Algorithms Minor:

A student needs to take at least 2 courses from group 1 and a total of 3 courses from group 1 and group 2.

Group 1:

CSE 794Q/790 Advanced algorithms

CSE 763 Intro to Distributed Computing

CSE 784 Geometric Modelling

CSE 788 (Computational Geometry/Randomized algorithms and

other courses offered by theory faculty) CSE 794Q/723 Introduction to cryptography

Group 2:

Math 547, 548, 549 Analysis

Math 575 Combinatorics & Graph Theory

Math 578 Discrete Mathematical Models

Math 648, 649 Mathematical Logic

Math 655, 656, 657 Topology

Math 674 Survey of Combinatorial Mathematics Math 707, 708, 709 Numerical

Methods in Scientific Computing Math 722, 723, 724 Probability ISE 702

Mathematical Programming: Linear Stat 520, 521 Mathematical Statistics