Computer Science BS Degree Requirements Flow Chart: 2010-2011
Computational Science and Engineering Track

Computer Science Foundation
all courses required
(21 hours)

- CSCI 1000-1
  Computer Science as a Field of Work and Study
- CSCI 1300-4
  Computer Science 1: Programming
- CSCI 2270-4
  Computer Science 2: Data Structures
- CSCI 2400-4
  Computer Systems
- CSCI 3155-4
  Principles of Programming Languages
- CSCI 3104-4
  Algorithms
- CSCI 3308-3
  Software Engineering Methods and Tools

Computational Science and Engineering Foundation
all courses required
(10 hours)

- CSCI 3753-4
  Operating Systems
- CSCI 4839-3
  User Centered Design
- CSCI 4448-3
  Object-Oriented Analysis and Design
- CSCI 4202-3
  Artificial Intelligence 2: Machine Learning
- CSCI 4229-3
  Computer Graphics
- CSCI 4327-3
  Database and Information Systems
- CSCI 4446-3
  Chaotic Dynamics
- CSCI 3656-3
  Numerical Computation
- CSCI 4576-4
  High-Performance Scientific Computing 1

Computational Science and Engineering Core
select 3
(9-10 hours)

- CSCI 4308-4
  Software Engineering Project 1
- CSCI 4318-4
  Software Engineering Project 2
- CSCI 4950-4
  Senior Thesis

Humanities and Social Sciences
(24 hours)
6 hours upper division Writing

Natural Sciences
(17 hours)
must include science sequence approved for the track

Computer Science Electives
(to bring total to 58 hours)

Free Electives
(to bring total to 128 hours)

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April 20, 2010
Computer Science BS Degree Requirements Flow Chart: 2010-2011

Software Engineering Track

Software Engineering Foundation
all courses required
(6 hours)

- CSCI 1300-4
  Computer Science 1: Programming
- CSCI 2270-4
  Computer Science 2: Data Structures

- CSCI 3155-4
  Principles of Programming Languages

- CSCI 3104-4
  Algorithms

- CSCI 4448-3
  Object-Oriented Analysis and Design

- CSCI 3308-3
  Software Engineering Methods and Tools

Software Engineering Core
select 5
(15-16 hours)

- CSCI 3753-4
  Operating Systems

- CSCI 4555-3
  Compiler Construction

- CSCI 4273-3
  Network Systems

- CSCI 4113-3
  UNIX System Administration

- CSCI 4412-3
  Design, Creativity and New Media

- CSCI 4229-3
  Computer Graphics

- CSCI 4839-3
  User Centered Design

Software Engineering Capstone
select one option
(8 hours)

- CSCI 4308-4
  Software Engineering Project 1

- CSCI 4318-4
  Software Engineering Project 2

- CSCI 4950-4
  Senior Thesis

- CSCI 4950-4
  Senior Thesis

- CSCI 4413-3
  UNIX System Administration

- CSCI 4412-3
  Design, Creativity and New Media

- CSCI 4229-3
  Computer Graphics

- CSCI 4839-3
  User Centered Design

Humanities and Social Sciences
(24 hours)
6 hours upper division Writing

Natural Sciences
(17 hours)
must include science sequence approved for the track

Computer Science Electives
(to bring total to 58 hours)

Free Electives
(to bring total to 128 hours)

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October 7, 2010