Computer Science BS Degree Requirements Flow Chart: 2008-2009

General Computing Track

Computer Science Foundation
all courses required
(20 hours)

- 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

General Computing Foundation
no courses required
(0 hours)

General Computing Core
select 7
(21-22 hours)

- CSCI 3753-4: Operating Systems
- CSCI 4448-3: Object-Oriented Analysis and Design
- CSCI 3434-3: Theory of Computation
- CSCI 3202-3: Introduction to Artificial Intelligence
- CSCI 3287-3: Database and Information Systems
- CSCI 3108-3: Numerical Computation
- CSCI 3590-4: Probability or Statistics

General Computing 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

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 57 hours)

Free Electives
(to bring total to 128 hours)

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June 30, 2009
Human-Centered Computing Track

Computer Science Foundation
all courses required
(20 hours)

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

Human-Centered Computing Foundation
all courses required
(10-12 hours)

CSCI 3002-3
Human-Centered Computing Foundations

CSCI 3112-1-3
HCC Professional Development

CSCI 3702-3
Cognitive Science

CSCI 4839-3
User Centered Design

Human-Centered Computing Core
select 3
(9 hours)

CSCI 3308-3
Software Engineering Methods and Tools

CSCI 4312-3
Health Informatics

CSCI 4322-3
Things That Think

CSCI 4483-3
Object-Oriented Analysis and Design

CSCI 4320-3
Introduction to Artificial Intelligence

CSCI 3308-4
Software Engineering Project 1

CSCI 4312-3
Game Programming

CSCI 4322-3
Groupware and Workflow Systems

CSCI 4342-3
Design, Creativity and New Media

CSCI 4839-3
Database and Information Systems

CSCI 4832-3
Artificial Intelligence 2: Machine Learning

Human-Centered Computing 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

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 57 hours)

Free Electives
(to bring total to 128 hours)

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Lesley.McDowell@Colorado.EDU

February 8, 2010
Computer Science BS Degree Requirements Flow Chart: 2008-2009

Networked Devices and Systems Track

Computer Science Foundation
all courses required
(20 hours)

- 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

Networked Devices and Systems Foundation
all courses required
(10 hours)

- CSCI 3753-4 Operating Systems
- CSCI 4273-3 Network Systems

Networked Devices and Systems Core
select 4
(12 hours)

- CSCI 4753-3 Computer Performance Modeling
- CSCI 4448-3 Object-Oriented Analysis and Design
- CSCI 3434-3 Theory of Computation
- CSCI 3287-3 Database and Information Systems

Networked Devices and Systems Capstone
select one option
(8 hours)

- CSCI 4123-3 Network Laboratory
- CSCI 4133-3 Security Laboratory
- CSCI 4143-2 Telecom Seminar
- 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 57 hours)

Free Electives
(to bring total to 128 hours)

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March 23, 2009
Computer Science BS Degree Requirements Flow Chart: 2008-2009
Software Engineering Track

Computer Science Foundation
all courses required (20 hours)

- 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

Software Engineering Foundation
all courses required (6 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

Software Engineering Core
select 5 (15-16 hours)

- CSCI 4448-3 Object-Oriented Analysis and Design
- CSCI 3308-3 Software Engineering Methods and Tools
- CSCI 3287-3 Database and Information Systems
- CSCI 3202-3 Introduction to Artificial Intelligence
- 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

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 57 hours)

Free Electives
(to bring total to 128 hours)

Lesley.McDowell@Colorado.EDU

October 7, 2010