Computer Science BS Degree Requirements Flow Chart: 2009-2010
Human-Centered Computing Track

**Computer Science Foundation**
- 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

**Human-Centered Computing Foundation**
- 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
- CSCI 3202-3: Introduction to Artificial Intelligence

**Human-Centered Computing Core**
- CSCI 3308-3: Software Engineering Methods and Tools
- CSCI 4312-3: Health Informatics
- CSCI 4322-3: Things That Think
- CSCI 4448-3: Object-Oriented Analysis and Design
- CSCI 3287-3: Database and Information Systems

**Human-Centered Computing Capstone**
- 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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February 8, 2010
Computer Science BS Degree Requirements Flow Chart: 2009-2010

Systems 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

**Systems Foundation**
- all courses required
- (12 hours)
  - CSCI 3753-4: Operating Systems
  - CSCI 4273-3: Network Systems
  - ECEN 4613-3: Embedded System Design

**Systems Core**
- select 3
- (9 hours)
  - CSCI 4753-3: Computer Performance Modeling
  - CSCI 4555-3: Compiler Construction
  - CSCI 4593-3: Computer Organization
  - ECEN 4613-3: Embedded System Design

**Systems 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

**Computer Science Electives**
- (to bring total to 58 hours)

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

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

**Free Electives**
- (to bring total to 128 hours)

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- APPM 1350-4: Calculus 1 for Engineers
- APPM 1360-4: Calculus 2 for Engineers
- CSCI 2824-3: Discrete Structures
- Probability or Statistics
- Linear Algebra

March 23, 2009

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