

COMPUTER SCIENCE MAJOR

Computer Science Concentration

DOMAIN GENERAL EDUCATION (10 Courses Required):

Domain II A is satisfied through completion of the Computer Science major, leaving ten courses to be completed to satisfy the remaining General Education subdomains through courses taken outside the major department. Only courses designated (Gen. Ed. Domain) after the course title will meet General Education requirements. Please refer to the catalog for full information.

- Common Core: A. ENWR 110 Composition 2 _____
 B. MATH XXX _____
- Domain I: A. Creative Arts _____
 B. Humanities _____
 C. Language _____
- Domain II: A. Analysis, Modeling, Problem-Solving X _____
 B. Sciences (two; one must be a lab science) _____
- Domain III: A. Perspectives on the Past _____
 B. Perspectives on Contemp. World _____
 C. Global Comp., Eth. Reas., Human Div. _____

MAJOR AND RELATED COURSES:

Major Core requirements (8)

- CSCI 120 Introduction to Information Technology
- CSCI 130 Computer Science I Using Java
- CSCI 200 Pre-Coop seminar (0.5)
- CSCI 215 Computer Science II Using Java
- CSCI 258 Introduction to Operating Systems Using UNIX
- CSCI 360 Database Management
- MATH 206 Discrete Math I
- STAT 117 Introduction to Statistics

Concentration in Computer Science

Required Concentration Core (8)

- CSCI 271 Data Structures
- CSCI 317 Discrete Structures *
- CSCI 347 Analysis of Algorithms
- CSCI 352 Comp. Architecture & Assembly Language
- CSCI 362 Software Engineering
- CSCI 460 Theory of Computing
- CSCI 465 Operating Systems Internals
- CSCI 477 Computer Networking

**MATH 330 Discrete Mathematics II may be substituted for CSCI 317 Discrete Structures*

Choose three (3) Computer Science Electives:

- CSCI 300 Artificial Intelligence
- CSCI 308 Python Programming
- CSCI 320 Windows Server & Client Management
- CSCI 333 Object-Oriented Programming Using C++
- CSCI 340 Unix System Administration
- CSCI 345 Computer & Network Security
- CSCI 373 Advanced Web Technologies
- CSCI 400 Special Topics in Computer Science
- CSCI 490 Independent Study in Computer Science
- CSCI 495 Internship in Computer Science

Choose One (1) Science Laboratory Course:

- BIOL 130/130L Principles of Biology with Lab
- CHEM 107/107L Principles of Chemistry with Lab
- GEOL 108/108L Physical Geology with Lab
- PHYS 201/201L Physics for Earth and Life Scientist with Lab
- PHYS 211/211L Principles of Physics I with Lab

FREE ELECTIVES (2):
