Computer Science, B.S.

303-556-3208 Science Building 1022

Catalog 10-11

This sheet applies to the 2010-2011 catalog *only*. It does not replace the full catalog or departmental advising sheets as official statements of requirements. Students with declared majors ***must*** work with a faculty advisor on course selection and sequencing to ensure a timely graduation.

General Studies	36-38
Major courses	50
Required Math minor	21-23
Required ancillary courses	10
Electives	0-3
Total to graduate (min. 40 hrs upper division)	**121-123**

Students who have reached junior standing (60 hrs) should request a CAPP (graduation compliance report) and review it with a faculty advisor.

GENERAL STUDIES

Composition

___ ENG1010-3 Freshman Comp: the Essay
___ ENG1020-3 Freshman Comp: Anal., Rsrch & Docum.

Mathematics

___ MTH 1110-4 College Algebra or higher

Communications

___ SPE 1010-3 Public Speaking

Historical

___ -3

Arts & Letters

___ PHI 3370-3 Computers, Ethics & Society
___ -3

Social Sciences

___ -3
___ -3

Natural Sciences **Labs are required for General Studies credit**

___ BIO 1080-4 General Biology I & BIO 1090-1 Lab
OR BIO 1081-4 General Biology II & BIO 1091-1 Lab
OR CHE 1800-4 General Chemistry I & CHE 1850-2 LAB
OR CHE 1810-4 General Chemistry II & CHE 1850-2 LAB
OR PHY 2311-4 General Physics I & PHY2321-2 Lab
OR PHY 2331-4 General Physics II & PHY2341-2 Lab

Multicultural Requirement

(may be satisfied within General Studies, major, minor or electives)

___ -3

MAJOR COURSES

___ CS 1050-4 Computer Science 1 (This course is part of MTH minor)
___ CS 2050-4 Computer Science 2
___ CS 2400-4 Computer Organization & Assembly Language
___ CS 3050-4 Computer Science 3
___ CS 3210-4 Principles of Programming Languages
___ CS 3240-2 Intro. to the Theory of Computation
___ CS 3600-4 Operating Systems
___ CS 3700-4 Computer Networks
___ CS 3800-2 Fundamentals of Relational Database Systems
___ CS 4050-4 Algorithms & Algorithm Analysis
___ CS 4250-4 Software Engineering Principles
___ CS 4260-4 Software Engineering Practices (Senior Experience)

Computer Science Electives – A minimum of 6 additional credit hours selected from upper division CS courses or MTH4480-6 in consultation with a faculty advisor:

___ CS-3
and CS-3 **OR**
___ MTH-6 4480

Required Ancillary Courses

___ COM 2610-3 Introduction to Technical Writing
___ EET 2310-4 Digital Circuits I
___ PHI 3370-3 Computers, Ethics, and Society

MATH MINOR COURSES (see department for additional math selections)

___ MTH 1410-4 Calculus I
___ MTH 2140-2 Computational Matrix Algebra
___ MTH 2410-4 Calculus II
___ MTH 3100-3 Intro. to Mathematical Proofs
___ MTH 3210-4 Probability & Statistics (Calculus-based)
___ MTH 3220-4 Design of Experiments

NOTE: All CS and MTH courses must be completed with a "C" or higher.