

Computer Science, B.S.

303-556-3208 Science Building 1022

Catalog 11-12

This sheet applies to the 2011-12 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	Students who have reached junior standing (60 hrs) should request a CAPP (graduation compliance report) and review it with a faculty advisor.
Required Math minor	21-23	
Required ancillary courses	10	
Electives	0-3	
Total to graduate (min. 40 hrs upper division)	121-123	

GENERAL STUDIES LEVEL I Complete during your first 30 hours at Metro

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

GENERAL STUDIES LEVEL II

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
- and** 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 3210-4 Principles of Programming Languages
- ___ CS 3240-2 Intro. to the Theory of Computation
- ___ CS 3600-4 Operating 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 16 additional credit hours selected from upper division CS courses and/or MTH4480-6 in consultation with a faculty advisor:

- ___ CS– 16 hours
- or** CS- 12 hours and MTH 4480-4 Numerical Analysis I

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 substitutions)

- ___ MTH 1410-4 Calculus I
- ___ MTH 2140-2 Computational Matrix Algebra
- ___ MTH 2410-4 Calculus II
- ___ MTH 3170-4 Discrete Mathematics for Computer Science
- ___ MTH 3210-4 Probability & Statistics (Calculus-based)

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