Computer Science, B.S.
303-556-3208  Science Building 1022

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

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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

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.