

Computer Science Major (Option 2 Computer Science), B.S. Degree (43-02281)

This guide is valid for the 2013 Undergraduate Catalog only and is subject to change. This guide is a recommendation only and your actual program may vary. The time it takes to complete a degree and the sequence in which courses are taken will depend on any credits transferred to UCM and on placement in math, reading, and writing. See the current Undergraduate Catalog (ucmo.edu/academics/catalogs) for a complete listing of academic policies, curriculum, prerequisites, and course descriptions.

Freshman Year - Fall Semester	Hrs.	Freshman Year - Spring Semester	Hrs.
CS 1100 Computer Programming I	3	CS 1110 Computer Programming II	3
ENGL 1020 Composition I	3	ENGL 1030 Composition II	3
General Education	9	MATH 1151 Calculus & Analytic Geometry I	5
Semester Total	15	General Education	3
AE 1400 Freshman Seminar*	1	Semester Total	14
Sophomore Year - Fall Semester	Hrs.	Sophomore Year - Spring Semester	Hrs.
CS 2300 Data Structures**	3	CS 2200 Introduction to Computer Organization**	3
CS 2500 C and UNIX Systems Programming**	3	CS 2400 Discrete Structures **	3
MATH 1152 Calculus & Analytic Geometry II	5	PHYS 1102 College Physics II	4
PHYS 1101 College Physics I	4	General Education	5
Semester Total	15	Semester Total	15
Junior Year - Fall Semester	Hrs.	Junior Year - Spring Semester	Hrs.
BIOL 1110, 2010, 2510, EASC 3010, 3112, or 3114	3	CS 3100 Programming Languages**	3
CS 3200 Computer Architecture**	3	CS 4500 Operating Systems**	3
CS 4300 Algorithm Design & Analysis**	3	Option 2 Major Elective***	3
General Education	6	General Education	6
Semester Total	15	Semester Total	15
Senior Year - Fall Semester	Hrs.	Senior Year - Spring Semester	Hrs.
CS 4600 Database Theory & Applications**	3	CS 4910 Software Engineering**	3
MATH 3311 Introduction to Mathematical Statistics**	3	MATH 2153 Calculus & Analytic Geometry III	
Option 2 Major Elective***	3	or MATH 3710 Linear Algebra or	
General Education	3	MATH 4450 Intro. to Graph Theory	3
Free Choice Electives	4	Option 2 Major Elective***	3
Semester Total	16	Free Choice Electives	6
		Semester Total	15

Computer Science Major (Option 2 Computer Science), B.S. Degree - 120 hours

- *AE 1400 is a free choice elective and is highly recommended for academic success. If AE 1400 is chosen, 1 less hour of free choice electives will be needed.
- **This class is only offered during the semester indicated.
- ***Option 2 requires 9 hours of major electives. See the 2013 Undergraduate Catalog for the list of appropriate course choices.
- To satisfy the General Education Assessment Policy students must take the GEA exam before or during the semester in which a total of 45 credit hours will be earned. The minimum score of 425 must be achieved by the semester in which 75 credit hours will be earned. Go to UCM Testing Services (HUM 216, 660-543-4919) in MyCentral for more information.