

Mathematics Major, B.S. Degree (43-454)

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	ENGL 1030 Composition II	3
ENGL 1020 Composition I	3	MATH 1152 Calculus & Analytic Geometry II	5
MATH 1151 Calculus & Analytic Geometry I	5	MATH 2410 Discrete Mathematics	3
General Education	3	General Education	3
Semester Total	14	Semester Total	14
AE 1400 Freshman Seminar*	1		
Sophomore Year - Fall Semester	Hrs.	Sophomore Year - Spring Semester	Hrs.
MATH 2153 Calculus & Analytic Geometry III	3	MATH 3151 Differential Equations**	3
MATH 3710 Linear Algebra	3	MATH or CS Major Elective***	3
General Education	9	General Education	9
Semester Total	15	Semester Total	15
Junior Year - Fall Semester	Hrs.	Junior Year - Spring Semester	Hrs.
MATH 3311 Introduction to Mathematical Statistics**	3	MATH or CS Major Elective***	3
MATH 4710 Algebraic Structures**	3	General Education	3
General Education	9	Free Choice Electives	10
Semester Total	15	Semester Total	16
Senior Year - Fall Semester	Hrs.	Senior Year - Spring Semester	Hrs.
MATH 4150 Advanced Calculus I**	3	ICAP 4233 The Sci., Historical, & Sociological Impact of Math	3
MATH 4711 Introduction to Modern Algebra**	3	MATH or CS Major Elective***	3
Free Choice Electives	10	Free Choice Electives	9
Semester Total	16	Semester Total	15

Mathematics Major, 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.
- ***Choose nine hours of Major Electives from list in Undergraduate Catalog. Upper level electives (3000/4000) are strongly encouraged to help in meeting the 30 hours minimum required for graduation.
- This major does not build in the minimum number (30) of upper-level credit hours required for graduation. Be sure to include upper-level choices (3000/4000) in your major electives, general education, and/or free choice electives.
- Please note: many Math classes are only offered once a year. The correct sequencing of classes in this major is important. There may be time conflicts on occasion that will require choosing alternate courses from another semester's suggested schedule or from completely outside of the suggested list. Consult your catalog for options and seek help from your department advisor before seeing your academic advisor.
- 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.