

Actuarial Science and Statistics Major - Option 1 Actuarial Science, B.S. Degree (43-01576)

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 2800 Interactive System Design		3
ECON 1010 Principles of Macroeconomics		3	MATH 1152 Calculus & Analytic Geometry II		5
MATH 1300 Basic Statistics		3	MATH 2410 Discrete Mathematics		3
MATH 1151 Calculus & Analytic Geometry I		5	Free Choice Electives# (ECON 1011 Microeconomics ^)		3
Semester Total		14	Semester Total		14
AE 1400 Freshman Seminar*		1			

Sophomore Year - Fall Semester		Hrs.	Sophomore Year - Spring Semester		Hrs.
ENGL 1020 Composition I		3	ENGL 1030 Composition II		3
MATH 2153 Calculus & Analytic Geometry III		3	MATH 4312 Probability Models**		1
MATH 3311 Introduction to Math Statistics**		3	MATH 4501 Actuarial Exam Review Problem Set I**		3
General Education		6	MATH 4510 Mathematics of Finance***		6
Semester Total		15	General Education		3
			Semester Totals		16

Junior Year - Fall Semester		Hrs.	Junior Year - Spring Semester		Hrs.
ECON 3010 Intermediate Macroeconomics**		3	FIN 3861 Financial Management I		3
FIN 4817 Managing Financial Derivatives**		3	FIN 4803 Principles of Insurance		3
MATH 3321 Applied Statistics I**		3	MATH 4322 Applied Statistics II**		3
MATH 4511 Actuarial Exam Review Problem Set II**		1	Major Elective## (ECON 3030 Intermediate Microeconomics ^)		3
General Education		6	General Education		3
Semester Total		16	Semester Total		15

Senior Year - Fall Semester		Hrs.	Senior Year - Spring Semester		Hrs.
MATH 4520 Life Contingencies**		3	ICAP 4245 Actuarial Science Capstone Experience**		3
Major Elective##		3	MATH 4530 Statistical Modeling**		3
General Education		9	Major Elective##		3
Semester Total		15	General Education		3
			Free Choice Electives#		3
			Semester Total		15

Actuarial Science and Statistics Major - Option 1 Actuarial 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 course is only offered during the semester indicated.
- #The number of free choice electives required will depend on selections made in the major and general education.
- ##This major Option requires 9 hours of major electives. See the Undergraduate Catalog for a list of appropriate choices.
- ^ To qualify for actuarial certification, the department recommends taking ECON 1011 for 3 hours of free choice electives and ECON 3030 for 3 hours of major electives.
- 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.