

St. Mary's University

BA in Mathematics with Concentration in Actuarial Science Degree Plan – 120 Hours

The maximum credit transferable from a junior college, or any combination of junior colleges, is 66 semester hours.

St. Mary's Core (33 hours)

Requirements	Texas Common Course Equivalency	Hours Required
___ First Year Experience	Not required for transfer students accepted with 30 or more credit hours however a student may need to take three (3) additional hours of elective credits in order to meet the required hours for this degree.	3
___ Freshmen Composition I	ENGL 1301	3
___ Literature	ENGL 1302 or any ENGL 23XX Literature course	3
___ History	Any HIST 13XX or 23xx course	3
___ Social Science	ECON 2301 and ECON 2302	6
___ Mathematics	MATH 2413	
___ Natural or Physical Sciences	COSC 1436 or COSC 1336	3
___ Fine Arts	Any 3-credit hour Fine Arts course from the following: ARTS, MUSI, DRAM	3
___ Foreign Language	Two courses (1411 and 1412) in a language not previously studied or two courses (2311 and 2312) in a language previously studied	6
___ Philosophy – Self	PHIL 1301	3
___ Philosophy – Ethics	PHIL 2306	3
___ Theology	Theology courses from other universities may be transferable with the approval of the Theology Department	3
___ Intermediate Theology	Theology courses from other universities may be transferable with the approval of the Theology Department	3

Mathematics Major Courses	Texas Common Course Equivalency	Hours Required
___ MT 2101 – Mathematics Working Seminar I	No equivalent	1
___ MT 2106 – Actuarial Science Sophomore Seminar	No equivalent	1
___ MT 2107 – Actuarial Science Junior Seminar	No equivalent	1
___ MT 2317 – Differential Equations	MATH 2320	3
___ MT 2318 – Applied Linear Algebra	MATH 2318	3
___ MT 2412 – Calculus I	MATH 2413	4
___ MT 2413 – Calculus II	MATH 2414	4
___ MT 2414 – Calculus III	MATH 2415	4
___ MT 3372 – Math Modeling	No equivalent	3
___ MT 3375 – Theory of Interest	No equivalent	3
___ MT 4331 – Probability Theory	No equivalent	3
___ MT 4332 – Statistics	No equivalent	3

___	MT 4333 – Applied Statistical Methods	No equivalent	3
___	MT 4334 – Mathematical Statistics	No equivalent	3
___	MT 4396 – Actuarial Exam P/1 Preparation	No equivalent	3
___	MT 4397 – Actuarial Exam FM/2 Preparation	No equivalent	3
___	AC 2301 – Financial Accounting	ACCT 2301	3
___	AC 2302 – Managerial Accounting	ACCT 2302	3
___	CS 1310 – Programming I in C	COSC 1336 or COSC 1436	3
___	CS or QM elective	No equivalent	3
___	EC 2301 – Introductory Macroeconomic Theory	ECON 2301	3
___	EC 2303 – Introductory Microeconomic Theory	ECON 2303	3
___	EN 3342 – Technical Writing	No equivalent	3
___	FN 3310 – Principles of Finance	No equivalent	3
___	FN 3340 – Fundamentals of Risk Management	No equivalent	3
___	QM 3321 – Business Analytics	No equivalent	3
___	QM 3330 – Management Information Systems	No equivalent	3

Electives (9 hours)

An elective can be any course taken from any discipline. Students can use these hours to pursue certificates, minors, or second majors.

Total Semester hours for this degree: 120

Updated 11/19/2025