

**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**

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**