

**St. Mary's University**  
**BS in Software Engineering– 128 Hours**

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

**St. Mary's Core (41 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	ENGR 1201. The remaining 4 hours must be taken at St. Mary's.	6
— Mathematics	MATH 2413	
— Natural or Physical Sciences	PHYS 2425 or PHYS 2325 and PHYS 2125	4
— Fine Arts	ENGR 1304	3
— 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

**Software Engineering Major Courses**

Requirements for this major:	Texas Common Course Equivalency	Hours Required
— PY 2404 – University Physics II	PHYS 2426 or PHYS 2326 and PHYS 2126	4
— MT 2318 – Applied Linear Algebra	MATH 2318	3
— MT 2323 – Discrete Math Structures	MATH 2305	3
— MT 2413 – Calculus II	MATH 2414	4
— MT 3303 – Probability & Statistics for Engineers	No equivalent	3
— MT 3307 – Mechanics	No equivalent	3
— MT 4331 – Probability Theory	No equivalent	3
— EG 1113 – C Programming for Engineering Lab	ENGR 2304 or COSC 1336 or COSC 1436	1
— EG 1213 – C Programming for Engineering	ENGR 2304 or COSC 1336 or COSC 1436	2
— EG 1316 – Object-Oriented Programming and Design	COSC 1437 or COSC 1337	3
— EG 2113 – Logic Design Laboratory	ENGR 2106	1
— EG 2313 – Fundamentals of Logic Design	ENGR 2306	3

—	EG 3101 – Engineering Design & Analysis Workshop I	No equivalent	1
—	EG 3102 – Engineering Design & Analysis Workshop II	No equivalent	1
—	EG 4101 – Engineering Design & Analysis Workshop III	No equivalent	1
—	EG 4301 – Senior Design Project I	No equivalent	3
—	EG 4302 – Senior Design Project II	No equivalent	3
—	EG 2312 – Data Structures & Algorithms	No equivalent	3
—	EG 3164 – Human Computer Interaction Lab	No equivalent	1
—	EG 3313 – Computer Organization & Architecture	No equivalent	3
—	EG 3360 – Requirements Engineering	No equivalent	3
—	EG 3361 – Software Project Management	No equivalent	3
—	EG 3362 – Software Design and Architecture	No equivalent	3
—	EG 3365 – Software Engineering	No equivalent	3
—	EG 4316 – Computer Networks	No equivalent	3
—	EG 4318 – Parallel Programming	No equivalent	3
—	EG 4361 – Software Quality Assurance	No equivalent	3
—	EG 4364 – Software Maintenance and Evolution	No equivalent	3
—	SET Elective I	BL 1406 or CH 1411 or CH 1412 or MATH 2320 or MATH 2415	3
—	SET Elective II	No equivalent	6

**Total Semester hours for this degree: 128**

**Updated 11/19/2025**