St. Mary's University
BS in Computer 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

Computer Engineering Major Courses (87 hours)

	Requirements for this major:	Texas Common Course Equivalency	Hours Required
__	SET Elective	BIOL 1406, CHEM 1411, MT 2415, PHYS 2426	3
__	PY 2404 – University Physics II	PHYS 2426 or PHYS 2326 and PHYS 2126	4
__	MT 2317 – Differential Equations	MATH 2320	3
__	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
__	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 2121 – Circuit Analysis Lab	ENGR 2405 or ENGR 2105	1
__	EG 2321 – Circuit Analysis I	ENGR 2405 or ENGR 2305	3
__	EG 2324 – Statics	ENGR 2301	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 1316 – Object-Oriented Programming & Design	COSC 1337 or COSC 1437	3
__	EG 2113 – Logic Design Lab	ENGR 2106	1
__	EG 2313 – Fundamentals of Logic Design	ENGR 2306	3
__	EG 2312 – Data Structures & Algorithms	No equivalent	3
__	EG 2126 – Electronics I Lab	No equivalent	1
__	EG 2324 – Circuits Analysis II	No equivalent	3
__	EG 3323 – Microprocessors I	No equivalent	3
__	EG 3313 – Computer Organization & Architecture	No equivalent	3
__	EG 3365 – Software Engineering	No equivalent	3
__	EG 3324 – Microprocessors II	No equivalent	3
__	EG 3112 – Digital System Design Lab	No equivalent	1
__	EG 3312 – Digital Systems Design	No equivalent	3
__	EG 4315 – Cryptography Principles	No equivalent	3
__	EG 4318 – Parallel Programming	No equivalent	3
__	CS 3350 – Operating Systems	No equivalent	3
Total Semester hours for this degree: 128			

Updated 11/19/2025