St. Mary's University

BS in Mechanical Engineering 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 (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	6
__	Mathematics	Satisfied by MATH 1342 in the courses required for this major	4
__	Natural or Physical Sciences	Satisfied by PHYS 1101 and PHYS 1301 in the courses required for this major	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

Biology Major Courses (78 hours)

Requirements for this major:		Texas Common Course Equivalency	Hours Required
___	CH 1401 – General Chemistry I	CHEM 1111 and CHEM 1311	4
___	EG 1141 – Mechanical Eng. Fund. Lab	No equivalency.	1
___	EG 1194 – Python Programming for EG Lab	ENGR 2304 fulfills this requirement and the course.	1
___	EG 1294 – Python Programming for EG	ENGR 2304 fulfills this requirement and the lab.	2
___	EG 2123 – Circuits & Systems Lab	ENGR 2105	1
___	EG 2143 – Machining & Prototyping Lab	No equivalency.	1
___	EG 2323 – Circuits & Systems	ENGR 2305	3
___	EG 2343 – Statics	ENGR 2301	3
___	EG 2344 – Dynamics	ENGR 2302	3
___	EG 2346 – Strength Material	ENGR 2332	3
___	EG 3101 – Eng. Design & Analysis Workshop I	No equivalency.	1
___	EG 3102 – Eng. Design & Analysis Workshop II	No equivalency.	1
___	EG 3141 – Materials Laboratory	No equivalency.	1
___	EG 3142 – Thermodynamic & Fluids Lab	No equivalency.	1
___	EG 3341 – Materials Engineering	No equivalency.	3
___	EG 3342 – Engineering Thermodynamics I	No equivalency.	3
___	EG 3343 – Fluid Mechanics	No equivalency.	3
___	EG 3346 – Dynamics & Controls	No equivalency.	3
___	EG 3347 – Mechanical Design I	No equivalency.	3

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___	EG 3348 – Mechanical Design II	No equivalency.	3
___	EG 3349 – Computational Methods for Engineering	No equivalency.	3
___	EG 3395 – Industrial Statistics and Design of Experiments	No equivalency.	3
___	EG 4101 – Eng. Design & Analysis Workshop III	No equivalency.	1
___	EG 4141 – Measurements and Instrumental Laboratory	No equivalency.	1
___	EG 4191 – Manufacturing Process Laboratory	No equivalency.	1
___	EG 4291 – Manufacturing Processes	No equivalency.	2
___	EG 4301 – Senior Design Project I	No equivalency.	3
___	EG 4302 – Senior Design Project II	No equivalency.	3
___	EG 4342 – Heat Transfer	No equivalency.	3
___	MT 2332 – Advanced Math for Engineers I	No equivalency.	3
___	MT 2333 – Advanced Math for Engineers II	No equivalency.	3
___	MT 2413 – Calculus II	MATH 2414	4
___	PY 2404 – University Physics II	PHYS 2426	4
___	3 hours of major electives	BIOL 1406, CHEM 1312 with CHEM 1112	3
___	6 hours of major electives	No equivalency.	6
Please note: Some courses may transfer to fulfill major course requirements or as elective hours. Students should consult with the department chair, Gopalakrishnan Easwaran, Ph.D. at geaswaran@stmarytx.edu			
Total Semester hours for this degree			**120**

For questions regarding other transfer courses not listed, contact the Office of the Registrar at registrar@stmarytx.edu.