

**St. Mary's University-Alamo Colleges Transfer Guidelines**  
**Bachelor of Science Mechanical Engineering (MEG) degree Plan**

*Students can transfer to St. Mary's a maximum of 66 hours from the Alamo Colleges.*

*Select a combination of the courses listed below.*

<b>St. Mary's University Core (SMC) – 21 hours</b>		
<b>SMC Courses</b>	<b>Hours</b>	<b>Transfer Equivalencies</b>
SMC 1301	3	HIST 1301 , 1302, 2311, 2312
SMC 1311	3	PHIL 1301
SMC 1312	3	ASTR 1301, 1303, 1304, 1370; BIOL 1308, 1309, 1322, 1333, 1406, 1407, 1408, 1409; GEOL 1301, 1304, 1305, 1345, 1401, 1404
SMC 1313	3	BUSI 1301; CRJ 1301; ECON 2301, 2302; GOVT 2301, 2302, 2305, 2306; HIST 1301, 1302, 2311, 2312; PSYC 2301; SOCI 1301
SMC 2301	3	PHIL 2306
SMC 2303	3	ARTS 1311, 1312, 1316, 2316; DRAM 1310, 1322, 1351; MUSI 1306
SMC 2304	3	ENGL 2321, 2322, 2327, 2328, 2332, 2333

<b>School of Science, Engineering, and Technology School Specific Core (SSC) – 18 hours</b>		
<b>SSC Courses</b>	<b>Hours</b>	<b>Transfer Equivalencies</b>
Composition	3	ENGL 1301
Fine Arts (EG 1301)	3	ENGR 1304

<b>B.S. Mechanical Engineering (MEG) – 30 hours</b>		
<b>Major Courses</b>	<b>Hours</b>	<b>Transfer Equivalencies</b>
CH 1401	4	CHEM 1411
CH 1402	4	CHEM 1412
EG 1302	3	ENGR 2304
EG 2307	3	ENGR 2302
MT 2412	4	MATH 2413
MT 2413	4	MATH 2414
PY 1404	4	PHYS 2425
PY 2404	4	PHYS 2426

- \* Transfer courses must be completed with a "C" or better. Transfer work will not be posted until an official transcript is received. Courses transfer only as lower division courses (1XXX, 2XXX) not as advanced courses (3XXX or higher).
- \* A course will first fulfill the School Specific Core (SSC) requirements before fulfilling the St. Mary's Core (SMC) requirements
- \* A course can only fulfill one course requirement.
- \* Once a student has matriculated to St. Mary's University, Math, Philosophy, Theology, and SMC 1301, 1311, 1314, 2301 2302, and 4301 may no longer be transferred to St. Mary's University.

St. Mary's Courses		Alamo Colleges	
<b>St. Mary's Core (30 hours)</b>			
Course Number	Title	Course Number	Hrs
SMC 1301	Foundation of Civilization	HIST 1301, 1302, 2311, 2312	3
SMC 1311	Foundation of Reflection: Self	PHIL 1301	3
SMC 1312	Foundation of Reflection: Nature	ASTR 1301, 1303, 1304, 1370; BIOL 1308, 1309, 1322, 1333, 1406, 1407, 1408, 1409; GEOL 1301, 1304, 1305, 1345, 1401, 1404	3
SMC 1313	Foundation of Reflection: Other	BUSI 1301; CRIJ 1301; ECON 2301, 2302; GOVT 2301, 2302, 2305, 2306; HIST 1301, 1302, 2311, 2312; PSYC 2301; SOCI 1301	3
SMC 1314	Foundation of Reflection: God	No equivalency. Must take Course at St. Mary's	
SMC 2301	Foundation of Practice: Ethics	PHIL 2306	3
SMC 2302	Foundation of Practice: Civic Engmt	No equivalency. Must take Course at St. Mary's	
SMC 2303	Foundation of Practice: Fine Arts	ARTS 1311, 1312, 1316, 2316; DRAM 1310, 1322, 1351; MUSI 1306	3
SMC 2304	Foundation of Practice: Literature	ENGL 2321, 2322, 2327, 2328, 2332, 2333	3
SMC 4301	Capstone Seminar	No equivalency. Must take Course at St. Mary's	
<b>Total Transferable from Alamo Colleges</b>			<b>21</b>
<b>School of Science, Engineering and Technology Specific Core (15 hours)</b>			
Speech (EG 4362: Senior Design Project I)		No equivalency. Must take Course at St. Mary's	
Rhetoric and Composition		ENGL 1301	3
Social Science (EG 3334: Engineering Economics)		No equivalency. Must take Course at St. Mary's	
Theology		No equivalency. Must take Course at St. Mary's	
Fine Arts (EG 1301: Graphic Design)		ENGR 1304	3
<b>Total Transferable from Alamo Colleges</b>			<b>6</b>
<b>B.S. Mechanical Engineering Major Courses (83 hours)</b>			
CH 1401	General Chemistry I	CHEM 1411	4
CH 1402	General Chemistry II	CHEM 1412	4
EG 1180	Intro to Mechanical Engineering	No equivalency. Must take Course at St. Mary's	
EG 1302	Programing for Engineering	ENGR 2304	3
EG 2306	Principles of Materials Sciences	No equivalency. Must take Course at St. Mary's	
EG 2307	Engineering Mechanics (Statics)	ENGR 2302	3
EG 2308	Strengths of Materials	No equivalency. Must take Course at St. Mary's	
EG 2309	Fluid Materials	No equivalency. Must take Course at St. Mary's	
EG 2385	Dynamics	No equivalency. Must take Course at St. Mary's	
EG2386	Engineering Thermodynamics I	No equivalency. Must take Course at St. Mary's	
EG 3145	Circuits and Systems Lab	No equivalency. Must take Course at St. Mary's	
EG 3345	Circuits & Systems I	No equivalency. Must take Course at St. Mary's	
EG 3380	Mechanical Design I	No equivalency. Must take Course at St. Mary's	
EG 3381	Numerical Methods	No equivalency. Must take Course at St. Mary's	
EG 3382	Heat Transfer	No equivalency. Must take Course at St. Mary's	
EG 3383	Experimental Methods	No equivalency. Must take Course at St. Mary's	
EG 4331	Manufacturing Processes	No equivalency. Must take Course at St. Mary's	
MT 2412	Calculus I	MATH 2413	4
MT 2413	Calculus II	MATH 2414	4
MT 3311	Differential Equations	No equivalency. Must take Course at St. Mary's	
MT 3312	Advance Math for Engineers	No equivalency. Must take Course at St. Mary's	
MT 4331	Probability and Statistics I	No equivalency. Must take Course at St. Mary's	
PY 1404	University Physics I	PHYS 2425	4
PY 2404	University Physics II	PHYS 2426	4
Technical Elective		No equivalency. Must take Course at St. Mary's	
Technical Elective		No equivalency. Must take Course at St. Mary's	
Technical Elective		No equivalency. Must take Course at St. Mary's	
<b>Total Transferable from Alamo Colleges</b>			<b>30</b>