

**St. Mary's University-Alamo Colleges Transfer Guidelines
Bachelor of Science Industrial Engineering (IE)**

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

Select a combination of the courses listed below.

St. Mary's University Core (SMC) – 21 hours		
SMC Courses	Hours	Transfer Equivalencies
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; CHEM 1412; GEOL 1301, 1304, 1305, 1345, 1401, 1404
SMC 1313	3	BUSI 1301; CRIJ 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

School of Science, Engineering, and Technology School Specific Core (SSC) – 6 hours		
SSC Courses	Hours	Transfer Equivalencies
Composition	3	ENGL 1301
Fine Arts (EG 1301)	3	ENGR 1304

Industrial Engineering (IE) – 26 hours		
Major Courses	Hours	Transfer Equivalencies
CH 1401	4	CHEM 1411
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, Science, 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	
St. Mary's Core (30 hours)			
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; CHE< 1412; 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	
Total Transferable from Alamo Colleges			21
School of Science, Engineering and Technology Specific Core (21)			
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
Total Transferable from Alamo Colleges			6
BS Industrial Engineering Major Courses (79 hours)			
CH 1401	General Chemistry I	CHEM 1411	4
EG 1302	Engineering Programming	ENGR 2304	3
EG 2306	Principles of Materials Science	No equivalency. Must take Course at St. Mary's	
EG 2307	Engineering Mechanics	ENGR 2302	3
EG 2322	Work Design & Productivity Management	No equivalency. Must take Course at St. Mary's	
EG 2325	Industrial Automation & Control	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 3316	Human Factors	No equivalency. Must take Course at St. Mary's	
EG 3333	Lean Production Systems	No equivalency. Must take Course at St. Mary's	
EG 3335	Operations Research I	No equivalency. Must take Course at St. Mary's	
EG 3336	Operations Research II	No equivalency. Must take Course at St. Mary's	
EG 3337	Supply Chain Management	No equivalency. Must take Course at St. Mary's	
EG 3345	Circuits & Systems I	No equivalency. Must take Course at St. Mary's	
EG 4132	CAM and Robotics Lab	No equivalency. Must take Course at St. Mary's	
EG 4330	Quality Control and Reliability	No equivalency. Must take Course at St. Mary's	
EG 4331	Manufacturing Processes	No equivalency. Must take Course at St. Mary's	
EG 4332	CAM and Robotics	No equivalency. Must take Course at St. Mary's	
EG 4337	Simulation	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 4331	Probability and Statistics I	No equivalency. Must take Course at St. Mary's	
MT 4332	Probability and Statistics II	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 (EG 2308 or EG 2309)		No equivalency. Must take Course at St. Mary's	
Total Transferable from Alamo Colleges			26