

**St. Mary's University-Alamo Colleges Transfer Guidelines**  
**Bachelor of Science Engineering Science (ES) with a Concentration in Mathematics**  
*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; CRIJ 1301; ECON 2301, 2302; GOVT 2301, 2302, 2305, 2306; HIST 1301, 1302, 2311, 2312; PSYC 1301; 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) – 12 hours</b>		
<b>SSC Courses</b>	<b>Hours</b>	<b>Transfer Equivalencies</b>
Composition	3	ENGL 1301
Foreign Languages	6	SPAN 1411, 1412, 2311, 2312; FREN 1411, 1412, 2311, 2312; ARAB 1411, 1412; GERM 1411, 1412, 2311, 2312; ITAL 1411, 1412, 2311, 2312; JAPN 1411, 1412, 2311, 2312; LATI 1411, 1412, 2311, 2312; CHIN 1411, 1412, 2311, 2312
Fine Arts (EG 1301)	3	ENGR 1304

<b>Engineering Science (ES) Major Courses – 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	Crd
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 (21 hours)</b>			
Speech – EG 4362: Senior Design Project I		No equivalency. Must take Course at St. Mary's	
Rhetoric and Composition		ENGL 1301	3
Foreign Language		Six hours of Foreign Language at an introductory level (1411, 1412) or intermediate level (2311, 2312); Or, 12 hours of CLEP credit for a language previously studied.	6
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>12</b>
<b>BS Engineering Science Major Courses (52 hours)</b>			
CH 1401	General Chemistry I	CHEM 1411	4
CH 1402	General Chemistry II	CHEM 1412	4
EG 1302	Programming for Engineers	ENGR 2304	3
EG 2306	Material Science	No equivalency. Must take Course at St. Mary's	
EG 2307	Engineering Mechanics	ENGR 2302	3
EG 2308	Strength of Materials	No equivalency. Must take Course at St. Mary's	
EG 2309	Fluid Mechanics	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 3335	Optimization	No equivalency. Must take Course at St. Mary's	
EG 3345	Circuits and Systems	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	
PY 1404	University Physics I	PHYS 2425	4
PY 2404	University Physics II	PHYS 2426	4
<b>Total Transferable from Alamo Colleges</b>			<b>30</b>
<b>Mathematics Concentration Courses (25 hours)</b>			
MT 3311	Differential Equations	No equivalency. Must take Course at St. Mary's	
MT 3323	Discrete Math Structures	No equivalency. Must take Course at St. Mary's	
MT 3324	Linear Algebra	No equivalency. Must take Course at St. Mary's	
MT 3372	Mathematical Modeling	No equivalency. Must take Course at St. Mary's	
MT 3392	Elementary Mathematical Analysis	No equivalency. Must take Course at St. Mary's	
MT 3414	Calculus III	No equivalency. Must take Course at St. Mary's	
MT 4311	Complex Variables	No equivalency. Must take Course at St. Mary's	
MT 4332	Probability and Statistics II	No equivalency. Must take Course at St. Mary's	
MT 4351	Numerical Analysis I	No equivalency. Must take Course at St. Mary's	
<b>Total Transferable from Alamo Colleges</b>			<b>0</b>