## St. Mary's University-Alamo Colleges Transfer Guidelines Bachelor of Science Applied Physics (AP) – Engineering Option

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 1303, 1304, 1370, 1371, 1403, 1404; GEOL 1301, 1302, 1303, 1304, 1305, 1345			
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) – 18 hours					
SSC Courses	Courses Hours Transfer Equivalencies				
Composition	3	ENGL 1301			
Foreign	6	SPAN 1411, 1412, 2311, 2312; FREN 1411, 1412, 2311, 2312; ARAB 1411, 1412; GERM 1411,			
Languages		1412, 2311, 2312; ITAL 1411, 1412, 2311, 2312; JAPN 1411, 1412, 2311, 2312; LATI 1411, 1412,			
		2311, 2312; CHIN 1411, 1412, 2311, 2312			
Speech	3	SPCH 1311, 1315, 1318, 1321, 1342			
Social Science	3	BUSI 1301; CRIJ 1301; ECON 2301, 2302; GOVT 2301, 2302, 2305, 2306; HIST 1301, 1302, 2311,			
		2312; PSYC 1301; SOCI 1301			
Fine Arts/	3	ARTS 1311, 1312, 1316, 2316; DRAM 1310, 1322, 1351; MUSI 1306/ENGL 2321, 2322, 2327,			
Literature		2328, 2332, 2333			

Applied Physics (AP) Major Courses – 19 hours					
<b>Major Courses</b>	Hours	Transfer Equivalencies			
CS 1310	3	COSC 1337			
MT 2412	4	MATH 2413			
MT 2413	4	MATH 2414			
PY 1404	4	PHYS 2425			
PY 2404	4	PHYS 2426			

Applied Physics (AP) Major Courses – 16 hours				
Course Hours Transfer Equivalencies				
Gen Elective	1	Please refer to the <u>Transfer Articulation</u> for possible elective credits		

- \* 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		
	St. I	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 1303, 1304, 1370, 1371, 1403, 1404; GEOL 1301, 1302, 1303, 1304, 1305, 1345	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		
31116 4301	capstone seminar	Total Transferable from Alamo Colleges	21	
	School of Science. Engi	neering and Technology Specific Core (21)		
Speech	concer of conciner, ingli	SPCH 1311, 1315, 1318, 1321, 1342	3	
Rhetoric and Com	nnosition	ENGL 1301	3	
Foreign Language	•	Six hours of Foreign Language at an introductory level (1411, 1412) or	3	
TOTCISTI Latiguage		intermediate level (2311, 2312); Or, 12 hours of CLEP credit for a		
		language previously studied.	6	
Social Science		BUSI 1301; CRIJ 1301; ECON 2301, 2302; GOVT 2301, 2302, 2305, 2306;		
		HIST 1301, 1302, 2311, 2312; PSYC 2301; SOCI 1301	3	
Theology		No equivalency. Must take Course at St. Mary's		
Fine Arts/Literatu	ıre	ARTS 1311, 1312, 1316, 2316; DRAM 1310, 1322, 1351; MUSI		
		1306/ENGL 2321, 2322, 2327, 2328, 2332, 2333	3	
		Total Transferable from Alamo Colleges	18	
	BS Applied Physics (AP) E	ngineering Option Major Courses (68 hours)		
CS 1310	Programming I	COCS 1337	3	
EG 2141	Logic Design Lab	No equivalency. Must take Course at St. Mary's		
EG 2341	Logic Design	No equivalency. Must take Course at St. Mary's		
EG 2151	Circuit Analysis I Lab	No equivalency. Must take Course at St. Mary's		
EG 2153	Circuit Analysis II Lab	No equivalency. Must take Course at St. Mary's		
EG 2352	Circuit Analysis I	No equivalency. Must take Course at St. Mary's		
EG 2153	Circuit Analysis II	No equivalency. Must take Course at St. Mary's		
EG 3156	Electronics I Lab	No equivalency. Must take Course at St. Mary's		
EG 3157	Electronic II Lab	No equivalency. Must take Course at St. Mary's		
EG 3356	Electronics I	No equivalency. Must take Course at St. Mary's		
EG 3357	Electronics II	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 3414	Calculus III	No equivalency. Must take Course at St. Mary's		
MT 4351	Numerical Analysis	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	
PY 3101	Atomic Physics Lab	No equivalency. Must take Course at St. Mary's		
PY 3301	Atomic Physics	No equivalency. Must take Course at St. Mary's		
PY 3304	Thermodynamics	No equivalency. Must take Course at St. Mary's		
PY 3307	Classical Mechanics	No equivalency. Must take Course at St. Mary's		
PY 3308	Intro to Quantum Mechanics	No equivalency. Must take Course at St. Mary's		
PY 3309	Electromagnetic Theory	No equivalency. Must take Course at St. Mary's		
-	,	Total Transferable from Alamo Colleges	19	
	Gen	eral Electives (1 hours)		
General Elective		Please refer to the <u>Transfer Articulation</u> for possible elective credi	its	
		Total Transferable from Alamo Colleges	1	
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