

St. Mary's University-Alamo Colleges Transfer Guidelines
B.S. Engineering Science (ES) with a Concentration in Chemistry (CH)

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 | | |
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| 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; 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 |

| School of Science, Engineering, and Technology School Specific Core (SSC) – 12 hours | | |
|---|--------------|--|
| SSC Courses | Hours | Transfer Equivalencies |
| 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 |

| Engineering Science (ES) Major Courses – 30 hours | | |
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| Major Courses | Hours | Transfer Equivalencies |
| CH 1401 | 4 | CHEM 1411 |
| CH 1402 | 4 | CHEM 1412 |
| EG 1302 | 4 | ENGR 2304 |
| EG 2307 | 4 | ENGR 2302 |
| MT 2412 | 4 | MATH 2413 |
| MT 2413 | 3 | 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.

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| St. Mary's Courses | Alamo Colleges |
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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; 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)

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| Speech (EG 4362) | 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) | No equivalency. Must take Course at St. Mary's | | |
| Theology | No equivalency. Must take Course at St. Mary's | | |
| Fine Arts/Literature | ENGR 1304 | | 3 |
| Total Transferable from Alamo Colleges | | | 12 |

B.S. Engineering Science Major Courses (52 hours)

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| 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 | Materials 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 |
| Total Transferable from Alamo Colleges | | | 30 |

Chemistry Concentration Courses (24 hours)

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| CH 3411 | Organic Chemistry I | No equivalency. Must take Course at St. Mary's | |
| CH 3412 | Organic Chemistry II | No equivalency. Must take Course at St. Mary's | |
| CH 3423 | Analytical Chemistry | No equivalency. Must take Course at St. Mary's | |
| CH 3424 | Instrumental Analysis | No equivalency. Must take Course at St. Mary's | |
| CH 3433 | Physical Chemistry I | No equivalency. Must take Course at St. Mary's | |
| CH 3434 | Physical Chemistry II | No equivalency. Must take Course at St. Mary's | |
| Total Transferable from Alamo Colleges | | | 0 |