

St. Mary's University
BA in Physics Degree Plan – 120 Hours

The maximum credit transferable from a junior college, or any combination of junior colleges, is 66 semester hours.

St. Mary's Core (47hours)

Requirements	Texas Common Course Equivalency	Hours Required
___ First Year Experience	Not required for transfer students accepted with 30 or more credit hours however a student may need to take three (3) additional hours of elective credits in order to meet the required hours for this degree.	3
___ Freshmen Composition I	ENGL 1301	3
___ Literature	ENGL 1302 or any ENGL 23XX Literature course	3
___ History	Any HIST 13XX or 23xx course	3
___ Social Science	Any two of the following courses: BUSI 1301, CRIJ 1301, ECON 2301, ECON 2302, GOVT 2305, GOVT 2306, PSYC 1301, PSYC 2306, PSYC 2316, PSYC 2314, SOCI 1301, SOCI 1306, SOCI 2319, SPCH 1311, SPCH 1315, SPCH 1321, SPCH 2335	6
___ Mathematics	MATH 2413	4
___ Natural or Physical Sciences	CHEM 1401 or CHEM 1311 and CHEM 1111	4
___ Fine Arts	Any 3-credit hour Fine Arts course from the following: ARTS, MUSI, DRAM	3
___ Foreign Language and International Engagement	Two courses (1411 and 1412) in a language not previously studied or two courses (2311 and 2312) in a language previously studied	6
___ Philosophy – Self	PHIL 1301	3
___ Philosophy – Ethics	PHIL 2306	3
___ Theology	Theology courses from other universities may be transferable with the approval of the Theology Department	3
___ Intermediate Theology	Theology courses from other universities may be transferable with the approval of the Theology Department	3

Physics Major Courses (33 hours)

Requirements for this major:	Texas Common Course Equivalency	Hours Required
___ CH 1402 – General Chemistry II	CHEM 1412 or CHEM 1312 and CHEM 1112	4
___ MT 2303 – Intro to Probability and Statistics	MATH 1342 or MATH 1442	3
___ MT 2413 – Calculus II	MATH 2414	4
___ MT 2414 – Calculus III	MATH 2415	4
___ MT 2317 – Differential Equations	MATH 2320 or MATH 2420	3
___ MT 2318 – Applied Linear Algebra	MATH 2318	3
___ PY 1404 – University Physics I	PHYS 2425 or PHYS 2325 and PHYS 2125	4
___ PY 2404 – University Physics II	PHYS 2426 or PHYS 2326 and PHYS 2126	4
___ PY 3101 – Modern Physics Lab	No equivalent	1

—	PY 3110 – Computational Physics Lab	No equivalent	1
—	PY 3120 – Robotics Lab	No equivalent	1
—	PY 3301 – Modern Physics	No equivalent	3
—	PY 3303 – Mathematical Methods in Physics	No equivalent	3
—	PY 3304 – Thermodynamics	No equivalent	3
—	PY 3307 – Mechanics	No equivalent	3
—	PY 3308 – Quantum Mechanics	No equivalent	3
—	PY 4309 – Electromagnetic Theory	No equivalent	3
Electives (23 hours)			23

An elective can be any course taken from any discipline. Students can use these hours to pursue certificates, minors, or second majors.

Total Semester hours for this degree	120
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