

St. Mary's University

BS in Physics with Biophysics Option 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 (66 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
___ CH 2411 – Organic Chemistry I	CHEM 2423 or CHEM 2323 and CHEM 2123	4
___ CH 2412 – Organic Chemistry II	CHEM 2425 or CHEM 2325 and CHEM 2125	4
___ BL 1401 – General Biology for Majors I	BIOL 1406	4
___ BL 1402 – General Biology for Majors II	BIOL 1407	4
___ BL 2233 – Cell & Molecular Methods	No equivalent	2
___ BL 2330 – Genetic Principles	BIOL 2416	3
___ BL 2332 – Cell Biology	No equivalent	3
___ MT 2413 – Calculus II	MATH 2414	4
___ MT 2317 – Differential Equations	MATH 2320 or MATH 2420	3

—	MT 3324 – Linear Algebra	No equivalent	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 3301 – Modern Physics	No equivalent	3
—	PY 3303 – Mathematical Methods in Physics	No equivalent	3
—	PY 3304 – Thermodynamics	No equivalent	3
—	PY 3308 – Quantum Mechanics	No equivalent	3
—	PY 3350 – Biophysics	No equivalent	3
—	PY 4309 – Electromagnetic Theory	No equivalent	3
Electives (7hours)			7

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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