

**St. Mary's University**  
**BA in Chemistry 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 (36 hours)**

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 <b>two</b> 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	
___ Natural or Physical Sciences	CHEM 1411 or CHEM 1311 and CHEM 1111	
___ 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

**Chemistry Major Courses (54 hours)**

Requirements for this major:	Texas Common Course Equivalency	Hours Required
___ CH 1401 – General Chemistry I	CHEM 1411 or CHEM 1311 and CHEM 1111	4
___ 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
___ CH 3423 – Analytical Chemistry	No equivalent	4

—	CH 3433 – Physical Chemistry I	No equivalent	4
—	CH 3434 – Physical Chemistry II	No equivalent	4
—	CH 3440 – Inorganic Chemistry	No equivalent	4
—	CH 4451 – Biochemistry I	No equivalent	4
—	CH 1100 – Chemistry Seminar I	No equivalent	1
—	CH 3100 – Chemistry Seminar II	No equivalent	1
—	MT 2412 – Calculus I	MATH 2413	4
—	MT 2413 – Calculus II	MATH 2414	4
—	PY 1404 – University Physics I	PHYS 2425 or PHYS 2325 and PHYS 2125	4
—	PY 2404 – University Physics II	PHYS 2426 or PHYS 2426 and PHYS 2126	4

#### Teacher Cert Courses (30 hours)

—	ED 3302 – The American Secondary School	No equivalent	3
—	ED 3321 – Instructional Planning, Assessment and Evaluation	No equivalent	
—	ED 2330 – Teaching Diverse Populations	EDUC 2301	3
—	ED 3355 – Educational Technology	No equivalent	3
—	ED 3361 – Adolescent development in the school setting	No equivalent	3
—	ED 4388 – Professional Development Seminar-Secondary	No equivalent	3
—	ED 4630 – Teacher Residency I	No equivalent	3
—	ED 4635 – Teacher Residency II	No equivalent	3

#### Electives (3 hours)

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**

**Updated 11/19/2025**