

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 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 | |
| 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 |

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| — | 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)

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|---|---|---------------|---|
| — | 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