

University of Saint Francis
Bachelor of Science in Chemistry

Effective Date: 8-07

Name: _____ ID# _____

Advisor: _____ Expected Graduation Date _____

Evaluation Date:

Evaluation Update:

PT=WORK IN PROGRESS CURRENTLY PENDING TRANSFER

By Placement Courses: 0-10 credit hours

| GE Outcome | GE Approved Courses | CR | Plan to Take | Date Taken or Transferred | Repeat | Final Grade |
|----------------------------|--|-----|--------------|---------------------------|--------|-------------|
| Computer Literacy LO 13 | CIS 101, 102, 103 By Placement (no credit toward degree) | 0-3 | | | | |
| English | ENGL 100 By Placement (no credit toward degree) | 0-2 | | | | |
| Reading LO 8 | READ 101, 119, 120, 121 By Placement (no credit toward degree for READ 101) | 0-2 | | | | |
| Math | MATH 120 By Placement | 0-3 | | | | |

General Education Courses - Common Content: 9 credit hours

| GE Outcomes | GE Approved Courses | CR | Plan to Take | Date Taken or Transferred | Repeat | Final Grade |
|---|---|----|--------------|---------------------------|--------|-------------|
| iConnect LO 2, 3, 4, 5, 6, 27, 29 | ICON 100 | 3 | | | | |
| English Composition LO 9, 14, 18, 20 | ENGL 101 English Composition I or ENGL 103 College Writing (only 3 credits towards a degree) | 3 | | | | |
| Speech LO 10, 11, 12 | COMM 121 Speech | 3 | | | | |

General Education Courses: 34-36 credit hours

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|--|--|---|--|--|--|--|
| History LO 1 | | 3 | | | | |
| Society and Environment LO 3 | | 3 | | | | |
| Social Responsibility and Leadership LO 4, 5, 6, 7 | | 3 | | | | |

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| Writing Intensive LO 9, 14 | | 0 | | | | |
| Technology Application LO 15 | | 0 | | | | |
| Physical Education LO 16, 17 | | 2-3 | | | | |
| Philosophical Ethics LO 18, 19, 20 | | 3 | | | | |
| Math LO 22 | MATH 223 | 3 | | | | |
| Science LO 23 | SCIE 257 | 0 | | | | |
| Social Sciences LO 24 | | 3 | | | | |
| Creative Expression - Fine Arts LO 25, 26 | | 2-3 | | | | |
| Creative Expression - Literature LO 25, 26 | | 3 | | | | |
| Theology LO 29, 30 | | 3 | | | | |
| Religion LO 29, 31 | | 3 | | | | |
| Senior Capstone LO 9, 21, 27, 28 | Capstone course in major or GE | 3 | | | | |

Total General Education Requirements: 43-46 credit hours

Program-Specific General Education Courses

| GE Learning Outcome | Program-Specific GE Approved Courses | CR | Plan to Take | Date Taken or Transferred | Repeat | Final Grade |
|---------------------|---|----|--------------------|---------------------------------|--------|----------------|
| LO# 22 | MATH 223 | | | | | |
| LO# 23 | SCIE 257 | | | | | |
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Major Required Courses: credit hours

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|----------|----------------------------|---|--|--|--|--|
| CHEM 141 | Principles of Chemistry I | 4 | | | | |
| CHEM 142 | Principles of Chemistry II | 4 | | | | |
| CHEM 241 | Organic Chemistry I | 4 | | | | |

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|----------------------------|---|--------|--|--|--|--|
| CHEM 242 | Organic Chemistry II | 4 | | | | |
| CHEM 344 | Inorganic Chemistry | 3 | | | | |
| CHEM 345 | Analytical Chemistry | 4 | | | | |
| CHEM 348 or CHEM 448 | Advanced Organic Chemistry or Physical Chemistry II | 3 4 | | | | |
| CHEM 480 | Chemistry Seminar (7 semesters) | CR | | | | |
| CHEM 481 | Chemistry Seminar | 1 | | | | |
| CHEM 496 | Chemical Research | 2-3 | | | | |

Choose One Concentration

Biochemical: 19 credit hours

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|----------|--------------------------|---|--|--|--|--|
| BIOL 190 | Principles of Biology I | 4 | | | | |
| BIOL 191 | Principles of Biology II | 4 | | | | |
| BIOL 295 | Genetics | 4 | | | | |
| BIOL 440 | Molecular Biology | 3 | | | | |
| CHEM 333 | Biochemistry | 3 | | | | |
| CHEM 367 | Biotechnology Laboratory | 1 | | | | |

Quantitative: 19 credit hours

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|----------|-------------------------|---|--|--|--|--|
| CHEM 343 | Environmental Chemistry | 3 | | | | |
| CHEM 448 | Physical Chemistry II | 4 | | | | |
| CHEM 449 | Instrumental Analysis | 3 | | | | |

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| MATH 302 | Statistics | 3 | | | | |
| MATH 224 | Calculus II | 3 | | | | |
| MATH 315 | Differential Equations | 3 | | | | |

Electives: 18-22 credit hours (electives from any discipline to complete a minimum of 128 credit hours).

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Total Transfer Credit Hours Completed:
 Total USF Credit Hours Completed:
 Total Degree Requirements: 128 credit hours