

University of Saint Francis  
Bachelor of Science in Biology-Pre-Medicine

Effective Date: 8-08 (Catalog Year 2009)

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<br>LO 13 | CIS 101, 102, 103<br>By Placement<br>(no credit toward degree)                       | 0-3 |              |                           |        |             |
| English                    | ENGL 100<br>By Placement<br>(no credit toward degree)                                | 0-2 |              |                           |        |             |
| Reading<br>LO 8            | READ 101, 119, 120, 121<br>By Placement<br>(no credit toward degree for<br>READ 101) | 0-2 |              |                           |        |             |
| Math                       | MATH 120<br>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<br>LO 2, 3, 4, 5, 6, 27, 29    | ICON 100  | 3  |              |                           |        |             |
| English Composition<br>LO 9, 14, 18, 20 | ENGL 101 English Composition I<br>or<br>ENGL 103 College Writing<br>(only 3 credits towards a degree) | 3  |              |                           |        |             |
| Speech<br>LO 10, 11, 12                 | COMM 121 Fundamental of<br>Public Communication   | 3  |              |                           |        |             |

**General Education Courses: 34-36 credit hours**

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

|   |                                 |     |  |  |  |  |
|---|---------------------------------|-----|--|--|--|--|
| Writing Intensive<br>LO 9, 14                 |                                 | 0   |  |  |  |  |
| Technology Application<br>LO 15               |                                 | 0   |  |  |  |  |
| Physical Education<br>LO 16, 17               |                                 | 2-3 |  |  |  |  |
| Philosophical Ethics<br>LO 18, 19, 20         |                                 | 3   |  |  |  |  |
| Math<br>LO 22                                 | MATH 122 or higher              | 3   |  |  |  |  |
| Science<br>LO 23                              | BIOL 190 or BIOL 191(see major) | (4) |  |  |  |  |
| Social Sciences<br>LO 24                      |                                 | 3   |  |  |  |  |
| Creative Expression – Fine Arts<br>LO 25, 26  |                                 | 2-3 |  |  |  |  |
| Creative Expression – Literature<br>LO 25, 26 |                                 | 3   |  |  |  |  |
| Theology<br>LO 29, 30                         |                                 | 3   |  |  |  |  |
| Religion<br>LO 29, 31                         |                                 | 3   |  |  |  |  |
| Senior Capstone<br>LO 9, 21, 27, 28           | Capstone course in major or GE  | 3   |  |  |  |  |

**Total General Education Requirements: 43-46 credit hours**

**Major Required Courses: 55 credit hours**

|          |                          |   |  |  |  |  |
|----------|--------------------------|---|--|--|--|--|
| BIOL 190 | Principles of Biology I  | 4 |  |  |  |  |
| BIOL 191 | Principles of Biology II | 4 |  |  |  |  |
| BIOL 226 | Microbiology             | 4 |  |  |  |  |
| BIOL 295 | Genetics                 | 4 |  |  |  |  |
| BIOL 296 | Ecology and Diversity    | 4 |  |  |  |  |
| BIOL 350 | Cell Biology             | 3 |  |  |  |  |

|               |                               |    |  |  |  |  |
|---------------|-------------------------------|----|--|--|--|--|
| BIOL/CHEM 367 | Biotechnology Laboratory      | 1  |  |  |  |  |
| BIOL 440      | Molecular Biology             | 3  |  |  |  |  |
| BIOL 480      | Biology Seminar (7 semesters) | CR |  |  |  |  |
| BIOL 481      | Biology Seminar               | 1  |  |  |  |  |
| CHEM 141      | Principles of Chemistry I     | 4  |  |  |  |  |
| CHEM 142      | Principles of Chemistry II    | 4  |  |  |  |  |
| CHEM 241      | Organic Chemistry I           | 4  |  |  |  |  |
| CHEM 242      | Organic Chemistry II          | 4  |  |  |  |  |
| CHEM 333      | Biochemistry                  | 3  |  |  |  |  |
| SCIE 257      | Physics I                     | 4  |  |  |  |  |
| SCIE 258      | Physics II                    | 4  |  |  |  |  |

**Major: Directed Electives-Choose a minimum of 9 credit hours.**

|                                  |   |   |  |  |  |  |
|----------------------------------|---|---|--|--|--|--|
| BIOL 227                         | Marine Biology  | 3 |  |  |  |  |
| BIOL 261<br>or<br>BIOL 290       | Advanced Anatomy &<br>Physiology I<br>or<br>Comparative Anatomy             | 4 |  |  |  |  |
| BIOL 262<br>or<br>BIOL 349       | Advanced Anatomy &<br>Physiology II<br>or<br>Vertebrate Physiology          | 4 |  |  |  |  |
| BIOL 344                         | Developmental Biology   | 3 |  |  |  |  |
| BIOL 355 or 356 or 360 or<br>361 | Southwestern/Southern<br>Appalachian<br>Bahamian Field Studies/<br>Research | 3 |  |  |  |  |

|                                     |  |   |  |  |  |  |
|-------------------------------------|--|---|--|--|--|--|
| BIOL 366                            | Experimental Design and Research Methods | 3 |  |  |  |  |
| BIOL 421                            | Ecology                                  | 4 |  |  |  |  |
| BIOL 438                            | Evolution                                | 3 |  |  |  |  |
| BIOL 439                            | Introduction to Ornithology              | 3 |  |  |  |  |
| BIOL 448                            | Taxonomy of Flowering Plants             | 3 |  |  |  |  |
| BIOL 465                            | Advanced Physiology/Pathophysiology      | 3 |  |  |  |  |
| BIOL 471                            | Immunology                               | 3 |  |  |  |  |
| BIOL 474                            | Virology                                 | 3 |  |  |  |  |
| BIOL 496<br>or 497 or<br>498 or 499 | Special Problems in Biology              | 3 |  |  |  |  |

**Electives: 18-21 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