**Macalester Biology Major + Emphasis in Biochemistry Plan**

Student Name (print): \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

ID#: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ Expected Graduation Date: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

**Dept /Course# Course Title Semester Taken or Planned**

**Core courses** (must be completed before studying abroad & before end of junior year, preferably earlier)

|  |  |  |
| --- | --- | --- |
| BIOL 170 | Ecology & the Environment (w/ Lab) |  |
| BIOL 180 | Biodiversity & Evolution (w/ Lab) |  |
| BIOL 190 | Genetics (w/ Lab) |  |
| BIOL 200 | Cell Biology |  |

**Supporting courses**

|  |  |  |
| --- | --- | --- |
| STAT 155 | Intro to Statistical Modeling |  |
| CHEM 112 or 115 | General Chemistry II (Chem 111 prereq) or Accelerated General Chemistry |  |
| CHEM 211 | Organic Chemistry I |  |
| CHEM 212 | Organic Chemistry II |  |

**Upper level elective courses** (4 total at the 300, 400, and/or 600-level, at least 2 with lab)

|  |  |  |
| --- | --- | --- |
| BIOL 351 | Biochemistry I (w/ Lab) |  |
| BIOL 352 | Biochemistry II  |  |
|  |  |  |
|  |  |  |

*Beyond Biochemistry I and Biochemistry II, students must take two additional upper-level courses, one of which must be a BIOL course and one of which must be an approved biochemistry elective (see next page).*

**Capstone Requirement**

The capstone consists of a public presentation of work: either a talk or a poster: delivered during the spring of senior year. Details about capstone expectations will be shared with majors in fall of senior year. December graduates should contact the Department Chair in Spring of junior year to discuss the timeline.

 I grant the Biology Department permission to include my photo in departmental media.

**Biology Academic Advisor:** \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_Date:\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

 *Signature*

**Signature Department Chair:** \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_Date:\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

 *Signature*

**Approved biochemistry elective courses:**

CHEM 222: Analytical Chemistry

CHEM 311: Thermodynamics and Kinetics

CHEM 361: Advanced Organic Chemistry

CHEM 411: Advanced Inorganic Chemistry

BIOL 312: Microbiology

BIOL 316: Cellular and Molecular Neuroscience

BIOL 322: Advanced Genetics

BIOL 357: Immunology

BIOL 364: Neuroimmunology

BIOL 366: Plant Ecophysiology

BIOL 400: Seminar in Neuropharmacology

BIOL 404: Seminar in Genome Editing

BIOL 406: Seminar in Immunology

BIOL 410: Seminar in Stem Cell Biology

BIOL 412: Seminar in Cancer Biology

BIOL 473: Research in Immunology

BIOL 472: Research in Molecular Biology

BIOL/COMP 320: Computational Biology

BIOL/CHEM 353: Molecular Medicine

BIOL/CHEM 354: Chemical Biology

BIOL/CHEM 474: Research in Biochemistry

*Other biochemistry elective courses may be proposed and approved by the chair of the Biology Department.*