

# 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.

*If you do not yet have a Biology faculty member as your primary advisor, you need to request a change of advisor on 1600grand.*

Biology Academic Advisor: \_\_\_\_\_ Date: \_\_\_\_\_  
Signature

Signature Department Chair: \_\_\_\_\_ Date: \_\_\_\_\_  
Signature

**Approved biochemistry elective courses:**

BIOL 312: Microbiology  
BIOL 316: Cellular and Molecular Neuroscience  
BIOL 322: Advanced Genetics  
BIOL 357: Immunology  
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  
CHEM 311: Thermodynamics and Kinetics  
CHEM 361: Advanced Organic Chemistry  
CHEM 411: Advanced Inorganic Chemistry

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