

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.