

Course Planning Specifics: Biology and Biotechnology

The introductory sequence for Biology & Biotechnology majors includes *Biotechnology* (BB 1035, A & C terms), *Biodiversity* (BB 1045, C term) and *Human Biology* (BB 1025, B and D terms). Students who successfully complete *Biotechnology* in A term may choose to take *Molecular Biology* (BB 2950) in B term, keeping in mind that eventually you will need to take a minimum of two of the three introductory sequence courses. For students hoping to get started in the laboratory, BB 2915, *Searching for Solutions in Soil* is an entry level lab that is worth 1/3 unit taught in B term.

In addition to these, during the first year, BB majors should consider taking general chemistry and perhaps some mathematics. Click [here](#) to see the degree requirements for Biology and Biotechnology majors.

BB majors and all students planning careers in the health professions should complete the introductory chemistry sequence through CH 1030: (CH Chemical Properties, Bonding, and Forces (1010), Chemical Reactions (CH 1020) and Kinetics, Equilibrium and Thermodynamics (CH 1030).

Mathematics for biology majors should include Calculus I (MA 1021) and II (MA 1022). After completing or receiving credit for Calculus I and II, students may elect to take statistics, an area of mathematics essential to biological data analysis. Statistics courses include Applied Statistics for the Life Sciences (MA 2610) and Applied Statistics I and II (MA 2611 and 2612). If you received AP credit for courses early in the CH or MA sequence, you can start at the next course in the sequence.

A well-balanced schedule should also include courses in the Humanities and Arts and Social Science and Policy Studies. Students planning careers in the health professions may choose to take courses in the social sciences to include PSY 1400, *Introduction to Psychological Science* (B term) and SOC 1202 *Introduction to Sociology and Cultural Diversity* (C term).

Biology & Biotechnology majors may also be interested in the Great Problems Seminars. Topics of particular interest may include the seminars related to global health and nutrition.

Example of a typical course schedule for your first two terms

A term	B term
BB1035	BB (1025, 2950)
CH1010	CH1020
GPS/HU/MA	GPS/HU/MA
PE (optional)	PE (optional)

Course Planning Worksheet: Biology and Biotechnology

Math Placement Test Result: _____ AP/IB/Transfer Credit: _____

Abbreviation Key for Course Planning Tracker:

- **GPS** = Great Problems Seminar
- **HU** = Humanities Course (includes AB, AR, CN, EN, GN, HI, HU, INTL, ISE, MU, PY, RE, SP, TH, WR)
- **SS** = Social Science Course (includes ECON, ENV, GOV, PSY, SD, SOC, SS)
- **BB** = Biology Course
- **PH** = Physics Course
- **CH** = Chemistry Course

Any courses marked with an asterisk (*) are optional programs, and can be taken in addition to the three courses.

Please Note: The Great Problems Seminars are a two term sequence course. They are also **linked**. This means that when registering for a GPS course in A term, you must register for its second half in B term.

A Term Selections		B Term Selections	
<u>(Include CRN)</u>		<u>(Include CRN)</u>	
BB 1035		BB (1025 or 2950)	
CH 1010		CH 1020	
GPS, HU, MA		GPS, HU, MA	
*Physical Education (1/12 credit unit)		*Physical Education (1/12 credit unit)	
*Military Science (Must be affiliated with an ROTC unit)		*Military Science (Must be affiliated with an ROTC unit)	
Back-ups		Back-ups	