



Biology - B.A.

College of Arts and Sciences

To address the breadth and depth essential to educating biologists, the biology major is structured to include both a broad foundation through core courses and opportunity for specialization within a biological subfield through biology electives.

128 hours (minimum)

Any student earning a Bachelor of Arts (BA) degree must complete a minimum of 39 hours at the 300+ level. These hours are generally completed by the major requirements.

University Studies Program Requirements

- I. Math (completed by Premajor Requirement)
II. Foreign Language (placement exam recommended)
III. Inference-Logic (completed by Premajor Requirement)
IV. Written Communication
V. Oral Communication
VI. Natural Sciences (completed by Premajor Requirements)
VII. Social Sciences
VIII. Humanities
IX. Cross-Cultural (choose a Humanities course)
X. Electives (choose 2 Social Science courses)

USP hours: 27-38

College Requirements

- I. Foreign Language (placement exam recommended)
II. Disciplinary Requirements
a. Natural Science (completed by Premajor Requirements)
b. Social Science (completed by USP Elective Requirement)
c. Humanities (partially completed by USP Cross-Cultural Requirement)
III. Laboratory or Field Work (completed by Premajor Requirement)
IV. Electives

College Required Hours: 9-17

Premajor Requirements

- *MA 123 Elementary Calculus and its Applications
or
*MA 113 Calculus I
*CHE 105 General Chemistry I
*CHE 107 General Chemistry II
*CHE 115 General Chemistry Laboratory
*BIO 150 Principles of Biology I
BIO 151 Principles of Biology Laboratory I
BIO 152 Principles of Biology II
BIO 153 Principles of Biology Laboratory II

Premajor hours: 22-23

Major Requirements

Major Core Requirements

- BIO 304 Principles of Genetics
BIO 315 Introduction to Cell Biology
BIO 325 Introductory Ecology
^BIO 350 Animal Physiology
BIO 425 Biology Seminar or
BIO 499 Biology Research Seminar

^Students with a strong interest in plants may substitute BIO 430G OR BIO 476G for BIO 350 with the approval of faculty advisor.

Major Core hours: 16

Other Course Work Required for the Major

From the Major Department:

To be chosen from 200+ level BIO courses (excluding BIO 208) or the list below. Two courses must contain a laboratory component. Six hours of Independent Research (395) from biological sciences departments may be counted here; however, only BIO 395 is accepted for honors in biology.

- A&S 300, 500 (when offered by the School of Biological Sciences)
ABT 201, 395, 401, 460, 461, 495
ANA 395, 511, 512, 513, 529
ANT 332, 551
ASC 364, 378, 395, 580
BCH 395, 401G, 501, 502, 503, 517
BIO - all 200+ level courses except BIO 208
CHE 226, 233, 395, 440G, 441G, 442G, 446G, 532, 533, 550, 552, 553, 558
ENT 300, 310, 320, 395, 402, 460, 461, 561, 562, 564, 568
FOR 219, 221, 315, 340, 375, 402, 410, 564
FSC 530
GLY 401G
MI 494G, 595, 598
NRC 320, 395, 420G, 450G, 455G
PGY 412G, 502, 560, 590
PLS 220, 320, 330, 332, 366, 367, 444, 450G, 502, 564, 566, 567
PPA 395, 400G, 503
PSY 312, 456, 459, 552, 558, 565
STA 281, 291, 292, 503, 570
TOX 508, 509, 560
VS 395

From Outside the Major Department

- Choose either CHE 230/231/232
or
CHE 226/231 and BCH 401G
Choose either PHY 211/213
or
PHY 231/232/241/242

Other Major hours: 34

Total Minimum Hours Required for Degree 128

*Course used towards completion of a USP or College Requirement.