



BAKER UNIVERSITY MAJOR CHECKLIST

BIOLOGY

B.A. or B.S

MAJOR REQUIREMENTS

COURSES COMPLETED OR IN PROGRESS

BIOLOGY CORE REQUIREMENTS: (24 HRS)

NOTE: A grade of "C-" or better is required in ALL biology courses counted toward the major.

BI151 Molecular and Cellular Biology (3 hrs)
 BI151L Molecular and Cellular Biology Laboratory (1 hr)
 BI152 Genetics (4 hrs)
 BI251 Ecology and Evolution (4 hrs)
 BI254 Organismal Diversity (4 hrs)
 BI298 Experimental Design Workshop (2 hr)
 BI397 Biology Professional Development Workshop (1 hr)
 BI398 Current Topics in Biology Seminar (1 hr)
 BI410 Senior Seminar in Biology (2 hrs)
 BI498 Research in Biology (2 hrs) **OR**
 BI 498 Research in Biology (1 hr) and BI 490 Biology Internship (1 hr)

 UC _____
 UC _____
 UC _____
 UC _____

MUST COMPLETE ONE OF THE FOLLOWING FOUR TRACKS (31 – 48 additional hrs, depending on Track)

TRACK 1: GENERAL BIOLOGY

Five upper-level biology courses, four of which must have a lab

UC _____ UC _____
 UC _____ UC _____
 UC _____

Supporting Coursework

MA171 Calc I OR MA321 Statistics II

(Required for B.S. degree)

A minor in the student's area of choosing

TRACK 2: MOLECULAR BIOLOGY

BI383 Adv Cell Biology (3 hrs) UC _____
 BI385 Adv Molecular Biology (3 hrs) UC _____
 BI386 Mth Biochemistry/Molec Bio (3 hrs) UC _____
 2 more UC bio. crs, 1 must be a lab crs (7-8 hr) UC _____
 UC _____

Supporting Coursework

CH137 & CH137L Gen Chem I & Lab (4 hrs) _____
 CH138 General Chemistry II (3 hrs) _____
 CH140 Quantitative Analy Chem (2 hrs) _____
 CH251 & CH251L Org Chem I & Lab (4 hrs) _____
 CH252 & CH252L Org Chem II & Lab (4 hrs) _____
 CH370 Biochemistry (3 hrs) UC _____
 MA171 Calculus I **OR** MA321 Statistics II
 (Required for B.S. degree) _____

Note: Results in a minor in Chemistry

TRACK 3: ECOLOGY

Five of the following courses, four of which must have a lab

BI335, BI344, BI350, BI356, BI370, BI375, BI377,
 BI380, BI392

UC _____ UC _____
 UC _____ UC _____
 UC _____

Supporting Coursework

CH137 & CH137L Gen Chem I & Lab (4 hrs) _____
 EC151 Game Theory (3 hrs) _____
 PH211 Logic and Critical Thinking (3 hrs) _____
 PH320 Hist of Philosophy of Sci (3 hrs) _____
 MA321 Statistics II (Required for B.S. degree) UC _____

TRACK 4: TEACHING BIOLOGY SECONDARY LEVEL

BI340 Plant Form and Function (4 hrs) UC _____
 BI360 Comp Vertebrate Anatomy (4 hrs) UC _____
 BI375 Evolution (3 hrs) UC _____
 BI377 Pop. and Comm. Ecology (4 hrs) UC _____
 BI380 Behavioral Ecology (4 hrs) UC _____
 BI382 Animal Physiology (4 hrs) UC _____

Supporting Coursework

CH137 & CH137L Gen Chem I & Lab (4 hrs) _____
 PC125 Introductory Physics I (4 hrs) _____
 MA171 Calculus I **OR** MA321 Statistics II
 (Required for B.S. degree) _____

Note: A major in Secondary Education is also required



STUDENT NAME: _____

STUDENT ID: _____

DATE: _____

Catalog year: 2023