

**BAKER UNIVERSITY MAJOR CHECKLIST**

**BIOLOGY**  
B.A. or B.S

**MAJOR REQUIREMENTS**

**COURSES COMPLETED OR IN PROGRESS**

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

**BIOLOGY CORE REQUIREMENTS: (21 HRS)**

- BI151& BI151L Molecular and Cellular Biology & Lab (4 hrs)
- BI152 Genetics (4 hrs)
- BI251 Ecology and Evolution (4 hrs)
- BI254 Organismal Diversity (4 hrs)
- BI298 Experimental Design Workshop (1 hr)
- BI410 Senior Seminar in Biology (2 hrs)
- BI498 Research in Biology (2 hrs)

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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**

- MA321 Statistics II OR MA171 Calc I \_\_\_\_\_  
*(for only for the 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 Organic Chemistry I (4 hrs) \_\_\_\_\_
- CH252 Organic Chemistry II (4 hrs) \_\_\_\_\_
- CH370 Biochemistry (3 hrs) UC \_\_\_\_\_
- MA171 Calculus I OR MA321 Statistics II \_\_\_\_\_  
*(for only the 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

- BI340, BI344, BI356, BI360, BI361, BI375, BI377, BI380, BI382, 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 *(for the 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 \_\_\_\_\_  
*(for the B.S. degree)*

**Note: A major in Secondary Education is also required**

STUDENT NAME: \_\_\_\_\_

STUDENT ID: \_\_\_\_\_

DATE: \_\_\_\_\_