

**BAKER UNIVERSITY MAJOR CHECKLIST**

BIOLOGY  
B.A. or B.S

**MAJOR REQUIREMENTS**

- 56-72 credit hours of Biology, Chemistry, and Mathematics required  
(Variation in credit hours is tied to student’s major track selection and course selection)
- Minimum of 15 credit hours of Biology must be upper-college

**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 (30 – 41 additional hrs, depending on Track)**

**TRACK 1: MOLECULAR BIOSCIENCE**

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

**Supporting Coursework**

- CH137 General Chemistry I (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 the B.S. degree) \_\_\_\_\_

**Note: Results in a minor in Chemistry**

**TRACK 3: ECOLOGY AND EVOLUTION**

- BI342 Plant Physiology (4 hrs) UC \_\_\_\_\_
- BI375 Evolution (3 hrs) UC \_\_\_\_\_
- BI377 Population and Community Ecology (4 hrs) UC \_\_\_\_\_
- 2 additional UC bio. crs, 1 must be a lab crs (7-8 hrs) UC \_\_\_\_\_
- UC \_\_\_\_\_

**Supporting Coursework**

- CH137 General Chemistry I (4 hrs) \_\_\_\_\_
- MA321 Statistics II (for the B.S. degree) (3 hrs) UC \_\_\_\_\_

**Note: A minor in the student’s area of interest is required**

**TRACK 2: VERTEBRATE BIOLOGY**

- BI360 Comp Vertebrate Anatomy (4 hrs) UC \_\_\_\_\_
- BI361 Developmental Biology (4 hrs) UC \_\_\_\_\_
- BI382 Comparative Physiology (4 hrs) UC \_\_\_\_\_
- 2 additional UC biology courses (6-8 hrs) UC \_\_\_\_\_
- UC \_\_\_\_\_

**Supporting Coursework**

- CH137 General Chemistry I (4 hrs) \_\_\_\_\_
- CH138 General Chemistry II (3 hrs) \_\_\_\_\_
- MA171 Calculus I OR MA321 Statistics II (for the B.S. degree) \_\_\_\_\_

**Note: A minor in the student’s area of interest is required**

**TRACK 4: TEACHING BIOLOGY SECONDARY LEVEL**

- BI342 Plant Physiology (4 hrs) UC \_\_\_\_\_
- BI360 Comp Vertebrate Anatomy (4 hrs) UC \_\_\_\_\_
- BI375 Evolution (3 hrs) UC \_\_\_\_\_
- BI377 Pop. and Comm. Ecology (4 hrs) UC \_\_\_\_\_
- BI380 Animal Behavior (4 hrs) UC \_\_\_\_\_
- BI382 Comparative Physiology (4 hrs) UC \_\_\_\_\_

**Supporting Coursework**

- CH137 General Chemistry I (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**

**SPECIAL NOTE:** Students majoring in a discipline that requires fewer than 12 hours of supporting coursework must complete a minor area of concentration. Therefore, a minor is required for the Biology major track 2 and track 3. For specific minor requirements, refer to the departmental section of the 2016-2017Catalog.

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

STUDENT NUMBER: \_\_\_\_\_

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