Biology Major Requirements

B.S. Degree (52 units)

36 Upper Division units

BCH 100 or 110A – Required (4 units)
BIOL 102 – Required (4 units)

Any Biology courses numbered 100-178 and 191
Biochemistry 110B

16 Related units

STAT 100A - Required (5 units)

Biochemistry 101, 102, 110A (if not applied to upper division area), 110C, 120, 183, 184
Biology 194, 197, 199 (maximum 9 units)
Botany & Plant Sciences 135, 146
Cell Biology & Neuroscience 116, 120, 120L, 121, 124, 125, 126, 127
Chemistry 5*, 109, 110A, 110B, 111, 113, 125, 150A, 150B, 166
Computer Science 10*, 12*, 14*, 61*
Entomology 109, 114, 126
Environmental Sciences 100, 120 (cross-listed with NEM 120)
Environmental Toxicology 101, 154
Geosciences 151, 153, 167, 168, 169
Mathematics 9C*, 10A*, 10B*, 46*, 149A, 149B, 149C
Nematology 120 (cross-listed with ENSC 120)
Physics: All upper division courses numbered 111-177.
Psychology 120, 120L, 121, 124, 125, 126, 127 (all are cross-listed with Cell Biology & Neuroscience)

Psychology 110 is not acceptable.
Statistics 100B, 110, 147, 155, 157

* A lower division transfer course with a minimum grade of “C” will satisfy the same number of units in the related area as the equivalent UCR course.

B.A. Degree (48-64 units)

36 Upper Division units

BCH 100 or 110A – Required (4 units)
BIOL 102 – Required (4 units)

Any Biology courses numbered 100-178, 191, and 199 (maximum of 4 units may be applied)
Biochemistry 110B

12-28 Additional breadth units

Two additional humanities courses
One additional social science course
Completion of level 4 in one foreign language from the following list:
  o Arabic
  o Chinese*
  o Japanese
  o Korean
  o Tagalog
  o Vietnamese
  o Greek*
  o Latin
  o French
  o German
  o Italian
  o Russian
  o Spanish

*Consult advisor if you want to satisfy the foreign language proficiency with Chinese or Greek.
More information on the related area:

1. **Purpose:** Students who elect to obtain a B.S. degree complete an additional 16 units in upper division biology courses and/or substantive courses in a field or fields related to the major. The purpose of this related area is to add strength and breadth to the major and to meet specific requirements for postgraduate study or a chosen career. Please see the approved list of “related” courses.

2. **Course Selection:** These courses should be selected with the assistance of a faculty advisor. The substantive courses in fields related to the major may be lower or upper division, but they usually have science or mathematics prerequisites. For example, Chemistry 5 and Mathematics 9C are acceptable as courses related to the major. Excluded are lower division introductory courses and survey or general interest courses. **Excess upper division units (units beyond the required 36) are automatically counted in the related area.**

3. **Grade:** Courses applied to the related category must be taken for a letter grade if letter grades are offered for the course being considered. However, some courses such as Biology 194, 197, and 199 are graded only on an S/NC basis. In these cases a “Satisfactory” is acceptable, and a maximum of 9 units in these courses will be applied to the related area.

4. **190 to 199 Series Courses:** No more than 9 total units from Biology 194, 197 and 199 may be applied to the related area. **With prior approval of the lead Biology faculty advisor,** courses equivalent to Biology 199 (Junior/Senior Research) from other departments are acceptable in the related area. However, students must meet the requirements for the cognate course as specified by the Department of Biology (i.e., the written proposal and submission of a final paper).

5. **Transfer Courses:** Scientifically-oriented, upper-division courses from four-year colleges are acceptable as related if the lead faculty advisor considers them substantive and related to the major. Other than calculus, computer science, and quantitative analysis, courses completed at a community college are not acceptable. For example, a calculus course with a minimum grade of “C” equivalent to MATH 9C, 10A, 10B at UCR will each satisfy a maximum of 4 units of the related areas requirement.

6. **Courses not on the list above:** The Department of Biology selected the courses above as most appropriate for the related area of the Biology major. Exceptions (lead faculty advisor’s approval required) are rare and are restricted to the science and mathematics courses in CNAS and the computer science courses in the College of Engineering.