

## ASSOCIATE IN SCIENCE IN BIOLOGY FOR TRANSFER

Biology is the scientific exploration of life. It allows students to study organisms from the molecular level to the communities in which they live. The program provides a foundation for further study in the life sciences and related fields of study, which includes, but is not limited to, medicine, dentistry, epidemiology, toxicology, genetics, microbiology, bioinformatics, botany, zoology, and ecology. If you are curious about how life works and have a passion for helping and protecting all living things, consider a career in biology. The Associate in Science in Biology for Transfer is designed to prepare students for a seamless transfer into the CSU system to complete a baccalaureate degree in Biology or similar major. Priority admission with junior status to the CSU system will be granted. Students completing this degree are exempt from Mendocino College Institutional Requirements. Students pursuing this degree may follow either the CSU GE for STEM pattern or the IGETC for STEM pattern.

<b>Required Courses – Major:</b>		<b>Units</b>
BIO 250	Cell and Molecular Biology	4
BIO 255	Botany, Plant Diversity, and Ecology	4
BIO 257	Zoology, Animal Diversity and Evolution	4
CHM 250	General Chemistry I	5
CHM 251	General Chemistry II	5
MTH 210	Calculus and Analytic Geometry I	5
or MTH 230	Calculus for Business and Economics	4
PHY 210	General Physics I	4
& PHY 211	General Physics II	4
or		
PHY 220	Physics for Scientists and Engineers I	4
& PHY 221	Physics for Scientists and Engineers II	4
<b>Total Major Units</b>		<b>34 – 35</b>
<b>Total Degree Units</b>		<b>60</b>

### *Program Level Student Learning Outcomes:*

1. Use standard laboratory equipment, modern instrumentation, classical techniques, and appropriate safety protocols to carry out experiments.
2. Analyze major biological concepts and discriminate how these concepts are connected within various areas of the biological and physical sciences.
3. Apply scientific methodology in the form of designing and conducting experiments and evaluating hypotheses.

### *Career Opportunities in BIOLOGY*

Students who complete a baccalaureate degree in Biology or a similar major may be hired in the major or allied fields of medicine, dentistry, epidemiology, toxicology, genetics, microbiology, bioinformatics, botany, zoology, and ecology.

### *Associate Degree for Transfer Requirements:*

- Completion of 60 semester units or 90 quarter units of degree-applicable courses,
- Minimum overall grade point average of 2.0,
- Minimum grade of “C” (or “P”) for each course in the major, and
- Completion of IGETC and/or CSU GE-Breadth