Molecular, Cellular, and Integrative Biology
(13.5 units)

8.5 units of Biology

1 unit of Introductory Biology chosen from
- BIOL 110: Human Biology, BIOL 111: Zoology, BIOL 121: Botany, BIOL 141: Microbiology,
  BIOL 151: Marine Biology

4 core courses
- BIOL 217: Evolution
- BIOL 247: Biometrics
- BIOL 289: Genetics
- BIOL 385: Biology Capstone: Advanced Topics or BIOL 387: Biology Capstone: Senior Manuscript

1 unit of Ecology, Evolution, and Behavioral Biology chosen from
- BIOL 206: Environmental Biology, BIOL 210: Paleobiology, BIOL 215: Emerging Diseases, BIOL 291: Topics in
  Capstone: Advanced Topics

3 units of Molecular, Cellular, and Integrative Biology, at least 1 unit of BIOL at the 300 level, chosen from
- BIOL 237: Cell Biology, BIOL 256: Anatomy, BIOL 260: Nutrition and Metabolism: Biochemical Mechanisms,
  BIOL 291: Topics in Biology, BIOL 300: DNA and Protein Biochemistry, BIOL 340: Neuroscience, BIOL 345:
  Molecular Biology, BIOL 357: Human Physiology, BIOL 385: Biology Capstone: Advanced Topics

5 units of Chemistry, Mathematics, and Physics

2 units of Chemistry
- 1 unit chosen from CHEM 117: Chemistry, CHEM 150: Nanochemistry
- 1 unit chosen from CHEM 230: Organic Chemistry I, CHEM 235: Organic Chemistry II

1 unit of Mathematics
- MATH 110: Calculus I

1 unit of Physics
- PHYS 101: General Physics I

1 additional unit of Chemistry, Mathematics, or Physics chosen from
- CHEM 220: Environmental, Analytical and Geochemistry, CHEM 230: Organic Chemistry I, CHEM 235: Organic
  Chemistry II, CHEM 240: Thermodynamics and Kinetics, CHEM 245: Molecular Modeling, Visualization,
  and Computational Chemistry, CHEM 260: Nutrition and Metabolism: Biochemical Mechanisms, CHEM 300:
  DNA and Protein Biochemistry, MATH 115: Calculus II, PHYS 102: General Physics II, PHYS 210: Modern Physics

1. Must be taken as BIOL 210.
2. With approval of advisor (topic must be ecology, evolution, or behavioral biology).
3. May not also fulfill capstone requirement.
4. Must be taken as BIOL 260.
5. With approval of advisor (topic must be molecular, cellular, or integrative biology).
6. Must be taken as BIOL 300.
7. A student with a strong high school background in chemistry should consult with a member of the Chemistry Department
   about beginning coursework in CHEM 150, 220, or 230.

Other: Students intending to apply to graduate school in biology should complete MATH 110, 115; CHEM 220, 230, 235;
PHYS 101, 102. Students anticipating careers in the health professions should complete 2 units of literature and composition;
SOCI 275: Health, Medical Care, and Society and/or PHIL 221: Biomedical Ethics. International study, a research experience,
or an internship is strongly recommended.

Other requirements:
Liberal arts in practice experience (research, internship, field course, or other activity plus reflection):

Expectations:
International experience:
Interdisciplinary, synthetic, connection experience (HEAL, ENVS, CRIS, IDST, etc.):