

LEARNING OUTCOMES: HONORS INTEGRATIVE BIOLOGY, BSLAS

Learning Outcomes for the degree of Bachelor of Arts in Liberal Arts & Sciences Major in Integrative Biology, Honors Integrative Biology Concentration

By graduation we want all Integrative Biology Honors students to have acquired:

Content-related understandings

1. Possess a significant knowledge base in Integrative Biology and Chemical Sciences, including but not limited to:
 - a. Molecular genetics and biology
 - b. Diversity and structures and physiological functions of plants and animals
 - c. Ecology and evolution
 - d. Biochemical and chemical bases of life and/or systems
 - e. Statistical inference and modeling of systems
2. Understand that biology is integrative and multidisciplinary
3. Show curiosity and caring about biology, and an awareness of and appreciation for the diversity of life
4. Understand how paradigms of biology relate to society and policy as well as their own lives

Competencies

1. Carry out the process of scientific inquiry
2. Use critical thinking skills and solve problems
3. Use quantitative reasoning and computation skills
4. Apply models (equations/math) to biological phenomena
5. Gain proficiency in scientific writing and speaking
6. Read and evaluate primary scientific literature
7. Critically evaluate science-related news and information
8. Work collaboratively