

ADVANCED OUTCOMES IN THE MAJOR AREA

DISCIPLINE: BIOLOGY

Discipline Outcomes	Advanced Level Abilities	
	Primary Focus	Related Focus
1. Accurately interprets the biological basis of phenomena and shows the limitations of scientific analysis.	Analysis	Valuing in Decision Making
2. Demonstrates proficient library, mathematical and computer skills in biological data gathering and analysis.	Analysis Problem Solving	Communication Developing a Global Perspective
3. Designs, conducts and communicates biological experiments.	Analysis Problem Solving	Communication
4. Applies concepts of biology to environmental and societal issues.	Analysis Developing a Global Perspective Valuing in Decision Making	Problem Solving
5. Works as a professional in the community.	Problem Solving	Developing a Global Perspective Valuing in Decision Making

Advanced Level Courses for the Major (taken collectively this set of courses in various combinations contributes to the achievement of the outcomes of the major):

Required

Elective

BI 325 Cellular Biology	BI 338 Physiological Mechanisms of Disease
BI 325L Cellular Biology Laboratory	BI 425 Molecular Biology
BI 361 Genetics	BI 425L Molecular Biology Laboratory
BI 361L Genetics Laboratory	BI 441 Animal Behavior
BI 383	BI 452 Immunology
and / or Internships	
BI 483	
BI 374 Effective Citizenship Assessment	
BI 491 Biology Senior Seminar	