

Biology Curriculum, Outcomes and Assessment Diagram

Institutional Learning Outcome	Department Learning Outcomes	Program Learning Outcomes	Introduced	Reinforced	Mastery	Measure
<p><i>Learning: Informed by our Christian Faith:</i> Members of the PLNU community will display openness to and mastery of foundational knowledge and perspectives; think critically, analytically, and creatively; and communicate effectively.</p>	<p>Students will demonstrate an understanding of the process of science, and of the concepts and theories of biology across a broad range of organizational levels: molecular, cellular, organismal, and ecological.</p> <p>(Learning/Teach)</p>	<p>Students will demonstrate an understanding of the process of science, and of the concepts and theories of biology across a broad range of organizational levels: molecular, cellular, organismal, and ecological.</p>	<p>BIO210 BIO211 BIO212</p>	<p>BIO345 BIO380 BIO310 BIO420 BIO360</p>	<p><u>Electives:</u> Students take three to four of these courses:</p> <p>BIO315, 320, 325, 330, 340, 350, 370, 390, 400, 410, 430, 450, 470</p>	<p>Students will take the ETS Major Fields Test in Biology as part of the capstone course in biology, BIO 497. The overall group mean on the ETS exam will be ≥ 75th percentile and at least 50% of our students will have an overall score ≥ 60th percentile. Additionally, the same criteria established for the overall ETS score will be applied to each of the 4 sub-disciplines, which are Cell, Genetic & Molecular, Organismal, and Population, Ecological, & Evolutionary Biology. (Every year)</p>
		<p>Students will participate in the life of the department in Biology/Chemistry clubs or in various positions of responsibility such as graders, tutors, and teaching assistants.</p>	<p>This occurs in the sophomore, junior, and senior years.</p>	<p>Student participation in Biology/Chemistry clubs and in positions of responsibility will be tracked and recorded. At least 80% of our students will participate in one of these positions during their time at PLNU. (Every year)</p>		
<p><i>Growing: In a Christian Faith Community:</i> Members of the PLNU community will demonstrate God-inspired development and understanding self and others and live hospitably within complex professional, environmental and social contexts.</p>	<p>Students will develop career goals and define a path by which to achieve these goals. Students will develop a rationally defensible integration of science and faith.</p> <p>(Growing/Shape)</p>	<p>Students will develop career goals and define a path by which to achieve these goals.</p>	<p>This occurs via faculty advising throughout the student's education.</p>	<p>In order to be cleared for course registration each semester, students will answer a questionnaire regarding their career goals and their plan by which to achieve those goals and then discuss the questionnaire with their faculty advisor. (Every semester)</p>		

		Students will develop a rationally defensible integration of science and faith.	BIO210 BIO211	BIO345 BIO360	BIO497	During their senior year, students will defend the integration of their faith with various scientific topics via written and oral presentations. (Every year)
<i>Serving: In a Context of Christian Faith:</i> Members of the PLNU community will engage in actions that reflect Christian discipleship in a context of communal service and collective responsibility, serve both locally and globally in a vocational and social setting.	Students will gain entry to professional or graduate schools, or to science-related careers. (Serving/Send)	Students will gain entry to professional or graduate schools, or to science-related careers.	Preparation for future careers occurs throughout the curriculum in every class.		After graduation, alumni will be tracked and data regarding their postgraduate education and profession will be recorded. Success rates for alumni who apply for graduate or professional schools will be > 75% and the percentage of graduates who obtain jobs in science-related occupations will be >70%. (Every 5 years)	