

Assessment: Annual Report



Program (SCI) - BS- Biological Sciences

Unit Mission: The mission of the BS in Biological Sciences is to provide a high-quality student-centered bachelors program in the sciences to rural Nevada that 1) relates to the economic need within and outside our region for professionals in the biological sciences, 2) relates to the economic need within and outside our region for rural health and medical professionals through university transfer to medical and other professional programs, and 3) relates to the aspect of the GBC mission on university transfer by providing a biological sciences undergraduate degree for transfer to graduate school in biological sciences and related disciplines.

<i>Outcomes</i>	<i>Assessment Measures</i>	<i>Results</i>	<i>Actions</i>
<p>Communicate the nature of scientific knowledge and the scientific method - Communicate the nature of scientific knowledge and the scientific method and how they were developed.</p> <p>Outcome Status: Active Assessment Year: 2017-2018, 2019-2020, 2020-2021 Start Date: 01/30/2017</p>	<p>Assignment - Project - This will be assessed using a project or paper in the capstone, BIOL 415 - Evolution. Only students who are declared BIOL-BS will be included.</p> <p>Criterion: Average of C or greater on assignment Notes: Grade on assignment will be provided directly from instructor to program supervisor.</p>	<p>Reporting Period: 2016-2017 Criterion Met: Yes The average was 86% = B (06/20/2017)</p>	<p>Action: Continue doing what we are doing. (06/20/2017)</p>
<p>Association between biological structure and function - Associate biological structure and function.</p> <p>Outcome Status: Active Assessment Year: 2016-2017 Start Date: 09/05/2016</p>	<p>Internal Tracking - This will be assessed using the course grades in: BIOL 410 - Plant Physiology BIOL 447 - Advanced Comparative Animal Physiology Only students who are declared BIOL-BS will be included.</p> <p>Criterion: C or better grade in course. Notes: Grades will be collected from official grade rosters or other</p>	<p>Reporting Period: 2016-2017 Criterion Met: Yes 3.5GPA = B+/A- (06/20/2017)</p>	

Outcomes	Assessment Measures	Results	Actions
	<p>appropriate official student records. Justification: 100% of the course content and all graded assessments in these courses is relevant to biological structure and function. There are no formative assessments in these courses.</p>		
<p>Communicate the genetic relationships and evolution of organisms. - Communicate the genetic relationships and evolution of organisms. Outcome Status: Active Assessment Year: 2017-2018 Start Date: 01/30/2017</p>	<p>Internal Tracking - This will be assessed using the course grade in BIOL 415 - Evolution. Only students who are declared BIOL-BS will be included.</p> <p>Criterion: C or better grade in course. Notes: Grades will be collected from official grade rosters or other appropriate official student records. Justification: 100% of the course content and all graded assessments in this course are relevant to how organisms are genetically related, have evolved, and are evolving. There are no formative assessments in this course.</p>	<p>Reporting Period: 2016-2017 Criterion Met: Yes 2.0GPA = C (06/20/2017)</p>	
<p>Integrate the complexity of the metabolism of cells and organisms. - Integrate the complexity of the metabolism of cells and organisms. Outcome Status: Active Assessment Year: 2016-2017 Start Date: 09/12/2016</p>	<p>Internal Tracking - This will be assessed using the course grade in BCH 400 - Introductory Biochemistry. Only students who are declared BIOL-BS will be included.</p> <p>Criterion: C or better grade in course. Notes: Grades will be collected from official grade rosters or other appropriate official student records. Only students who are declared BIOL-BS will be included.</p>	<p>Reporting Period: 2016-2017 Criterion Met: Yes 2.5GPA = C+/B- (06/20/2017)</p>	

Outcomes	Assessment Measures	Results	Actions
	<p>Justification: 100% of the course content and all graded assessments in these courses are relevant to the complex interplay of how organisms and populations respond to and interact with each other and their environment. There are no formative assessments in these courses.</p>		
<p>Analyze the Organisms and populations respond to and interact - Analyze the complex interplay of how organisms and populations respond to and interact with each other and their environment. Outcome Status: Active Assessment Year: 2016-2017 Start Date: 07/01/2016</p>	<p>Internal Tracking - This will be assessed using the course grades in: BIOL 341 - Principles of Ecology BIOL 394 - Laboratory in Ecology and Population Biology (no BIOL-BS students were enrolled in this course this semester) Only students who are declared BIOL-BS will be included. Criterion: C or better grade in course.</p>	<p>Reporting Period: 2016-2017 Criterion Met: Yes 2.0GPA (06/20/2017)</p>	
<p>Communication effectively - Communicate effectively with regards to complex biological concepts, orally and in writing. Outcome Status: Active Assessment Year: 2017-2018, 2019-2020, 2020-2021 Start Date: 01/30/2017</p>	<p>Assignment - Project - This will be assessed using a project or paper, and an oral presentation in the capstone, BIOL 415 - Evolution. Only students who are declared BIOL-BS will be included. Criterion: Average of C or greater on assignment. Notes: Grade on assignment will be provided directly from instructor to program supervisor. This course is not developed yet so details are not being provided. Only students who are declared BIOL-BS will be included.</p>	<p>Reporting Period: 2016-2017 Criterion Met: No 86% (written) 89% (oral presentation) (06/20/2017)</p>	