

## Bachelor of Science in Biology, Cochran

Semester reporting: Spring Semester 2021

Reporting cycle: Annual Reporting Cycle

### Academic Program Assessment by Concentration Report Information

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In which school is this program located?	Health and Natural Sciences
Program Type:	Undergraduate
Approximately how many students are in this program at this location? Break out by concentrations.	66

## Student Learning Outcomes

### SLO1

7. SLO 1: What is the first Student Learning Outcome for this academic program? Student Learning Outcomes should be stated in measurable terms (i.e. students will be able to.....)	Biology majors should be able to demonstrate knowledge of the processes of evolution.
8. SLO 1: What instrument (assessment type) was used to measure student's ability to demonstrate mastery of this learning outcome? (i.e. exam, assignment with rubric, speech, demonstration of ability, lab assignment)	Exam
9. SLO 1: What target performance level would a student need to achieve on the assessment instrument to demonstrate mastery of this learning outcome? (i.e. 80% of all students will earn an average grade of 75% or better on....)	70% students will correctly answer 5 exam questions.
10. SLO 1: During this assessment cycle, what percent of the students who participated in this assessment met the target performance level and demonstrated mastery of this learning outcome. Report data differentiated by program concentrations. (Example: BA Contemporary Musicianship - 84%, BA Contemporary Musicianship Classical - 77%, BA Contemporary Musicianship Commercial - 63%)	80%
11. SLO 1: Evidence of changes based on an analysis of the results: What changes were implemented based on an analysis of the students' performance on this Student Learning Outcome?	No changes are necessary at this time. We are satisfied with the SLO's results for past and future evaluation outcomes.

## Student Learning Outcomes

### SLO2

12. SLO 2: What is the second Student Learning Outcome for this academic program? Student Learning Outcomes should be stated in measurable terms (i.e. students will be able to.....)	Biology majors should be able to demonstrate knowledge of the differences and commonalities between prokaryotic and eukaryotic cells.
13. SLO 2: What instrument (assessment type) was used to measure student's ability to demonstrate mastery of this learning outcome? (i.e. exam, assignment with rubric, speech, demonstration of ability, lab assignment)	Exam
14. SLO 2: What target performance level would a student need to achieve on the assessment instrument to demonstrate mastery of this learning outcome? (i.e. 80% of all students will earn an average grade of 75% or better on.....).	70% of students will correctly answer 5 questions on the BIOL 3104K Cell Biology final exam.
15. SLO 2: During this assessment cycle, what percent of the students who participated in this assessment met the target performance level and demonstrated mastery of this learning outcome. Report data differentiated by program concentrations. (Example: BA Contemporary Musicianship - 84%, BA Contemporary Musicianship Classical - 77%, BA Contemporary Musicianship Commercial - 63%)	86%
16. SLO 2: Evidence of changes based on an analysis of the results: What changes were implemented based on an analysis of the students' performance on this Student Learning Outcome?	No changes are necessary at this time. We are satisfied with the SLO's results for past and future evaluation outcomes.

## Student Learning Outcomes

### SLO3

17. SLO 3: What is the third Student Learning Outcome for this academic program? Student Learning Outcomes should be stated in measurable terms (i.e. students will be able to.....)	Students will correctly answer 5 questions on the BIOL 4110K Genetics final exam.
18. SLO 3: What instrument (assessment type) was used to measure student's ability to demonstrate mastery of this learning outcome? (i.e. exam, assignment with rubric, speech, demonstration of ability, lab assignment)	Exam
19. SLO 3: What target performance level would a student need to achieve on the assessment instrument to demonstrate mastery of this learning outcome? (i.e. 80% of all students will earn an average grade of 75% or better on.....).	70% of students will correctly answer 5 questions on the BIOL 4110 Genetics Exam
20. SLO 3: During this assessment cycle, what percent of the students who participated in this assessment met the target performance level and demonstrated mastery of this learning outcome. Report data differentiated by program concentrations. (Example: BA Contemporary Musicianship - 84%, BA Contemporary Musicianship Classical - 77%, BA Contemporary Musicianship Commercial - 63%)	72%
21. SLO 3: Evidence of changes based on an analysis of the results: What changes were implemented based on an analysis of the students' performance on this Student Learning Outcome?	No changes are necessary at this time. We are satisfied with the SLO's results for past and future evaluation outcomes.

## Student Learning Outcomes

### SLO4

22. SLO 4: What is the fourth Student Learning Outcome for this academic program? Student Learning Outcomes should be stated in measurable terms (i.e. students will be able to.....)	Biology majors should be able to demonstrate knowledge of diversity and speciation of living things.
23. SLO 4: What instrument (assessment type) was used to measure student's ability to demonstrate mastery of this learning outcome? (i.e. exam, assignment with rubric, speech, demonstration of ability, lab assignment)	Exam
24. SLO 4: What target performance level would a student need to achieve on the assessment instrument to demonstrate mastery of this learning outcome? (i.e. 80% of all students will earn an average grade of 75% or better on.....)	70% of students will correctly answer 5 final exam questions in one of the following courses BIOL 3510 Invertebrate Zoology or BIOL 3520 Vertebrate Zoology or BIOL 3360 Plant Biology.
25. SLO 4: During this assessment cycle, what percent of the students who participated in this assessment met the target performance level and demonstrated mastery of this learning outcome. Report data differentiated by program concentrations. (Example: BA Contemporary Musicianship - 84%, BA Contemporary Musicianship Classical - 77%, BA Contemporary Musicianship Commercial - 63%)	BIOL 3360, 73% BIOL 3520, 71%
26. SLO 4: Evidence of changes based on an analysis of the results: What changes were implemented based on an analysis of the students' performance on this Student Learning Outcome?	No changes are necessary at this time. We are satisfied with the SLO's results for past and future evaluation outcomes.

## Sampling

27. How many students participated in the assessment of these learning outcomes, in this program, for this assessment cycle at this location? (Provide Number and by Concentration)	56
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## Open Box for Assessment Comments

28. Overall Use of Assessment Results for Continuous Improvement and Open Text Box For Assessment Comments:	<p>The B.S. Biology Program has 5 Outcomes. This Google Doc Only Allows for four.</p> <p>SLO 5: Biology majors should be able to communicate scientific information both written and orally. This is assessed with a written, oral or research project.</p> <p>Students should score 70% or higher on this project.</p> <p>BIOL 4120: Score 71%.</p> <p>BIOL 4894: Score 90%.</p> <p>Outcome was met.</p>
29. If the COVID-19 pandemic impacted this assessment cycle, please provide specific details below.	N/A