

Report: Summary of the Assessment Cycle Results in : 2018-2019 Assessment Cycle: Assessment Plan and Assessment Findings

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Workspace: Academic Program Assessment and Planning Workspace

Assessment Plan Template : IU Kokomo Academic Assessment Template [

Report Generated : Thursday, May 02, 2019

Organizational Area	Summary Results																					
<p>Indiana University System AMS » Indiana University: Kokomo » Academic Affairs » School of Sciences</p> <p>Biology</p>	<p>Overall Statistics</p> <ul style="list-style-type: none"> • 17% (2/12) outcomes were included • 100% (2/2) of outcomes included have at least one measure specified • 100% (2/2) of outcomes included have measures with findings specified <table border="1" data-bbox="690 561 2022 1081"> <thead> <tr> <th colspan="2" data-bbox="690 561 1356 659">4 Total Measures (Includes measures that do not have findings)</th> <th colspan="2" data-bbox="1356 561 2022 659">4 Total Measures with Findings</th> </tr> <tr> <th data-bbox="690 659 1024 1081">Measure Type/Method</th> <th data-bbox="1024 659 1356 1081">Measure Level</th> <th colspan="2" data-bbox="1356 659 2022 1081">Acceptable Target Achievement</th> </tr> </thead> <tbody> <tr> <td data-bbox="690 711 1024 829"> Student Artifact 1 (25%) Exam 3 (75%) Portfolio 0 (0%) Other 0 (0%) <hr/> Total Direct 4 (100%) </td> <td data-bbox="1024 711 1356 829"> Course 4 (100%) Program 0 (0%) Institution 0 (0%) Other 0 (0%) Unspecified 0 (0%) </td> <td colspan="2" data-bbox="1356 711 2022 829"> Not Met 1 (25%) Met 2 (50%) Exceeded 0 (0%) Unspecified 1 (25%) </td> </tr> <tr> <td data-bbox="690 881 1024 979"> Survey 0 (0%) Focus Group 0 (0%) Interview 0 (0%) Other 0 (0%) <hr/> Total Indirect 0 (0%) </td> <td colspan="3"></td> </tr> <tr> <td data-bbox="690 1031 1024 1081"> Unspecified 0 (0%) </td> <td colspan="3"></td> </tr> </tbody> </table>		4 Total Measures (Includes measures that do not have findings)		4 Total Measures with Findings		Measure Type/Method	Measure Level	Acceptable Target Achievement		Student Artifact 1 (25%) Exam 3 (75%) Portfolio 0 (0%) Other 0 (0%) <hr/> Total Direct 4 (100%)	Course 4 (100%) Program 0 (0%) Institution 0 (0%) Other 0 (0%) Unspecified 0 (0%)	Not Met 1 (25%) Met 2 (50%) Exceeded 0 (0%) Unspecified 1 (25%)		Survey 0 (0%) Focus Group 0 (0%) Interview 0 (0%) Other 0 (0%) <hr/> Total Indirect 0 (0%)				Unspecified 0 (0%)			
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Report : Assessment Cycle Details for : Biology

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Measures and Findings

Biology Program Goals and Outcomes

❖ Outcome

Goal 2 (Methodology) 1:
Students will apply the methods biologists use to explore living organisms.

Components: observation, hypothesis development, measurement and data collection, experimentation, evaluation of evidence, employment of mathematical analysis.

Mapped to:

No Mapping

Measure

BIOL-L 474 Ecology - long-term project/experiment

COURSE LEVEL; DIRECT - STUDENT ARTIFACT

Details/Description:

Students performed a several month experiment on the effects of nutrient addition and competition on plant growth. As part of their final assignment for the project, they analyzed 4 of the variables from their data using 2-way ANOVAs using the SPSS statistical software. The analysis included not just the statistical test, but also required student to visualize their data and interpret the results.

Acceptable Target:

The benchmark is 70%

Implementation Plan (timeline):

Key/Responsible Personnel:

Biology faculty

Supporting Attachments:

Findings

for BIOL-L 474 Ecology - long-term project/experiment

Summary of Findings:

The average score on the assignment was 45.6 / 50 (91%) with n = 15.

Acceptable Target Achievement:

Met

Reflections/Notes:

Substantiating Evidence:

Goal 2 (Methodology) 2. Students will evaluate the outcomes of scientific experiments.

*Components: observation,
hypothesis development,
measurement and data collection,
experimentation, evaluation of
evidence, employment of
mathematical analysis.*

Mapped to:

No Mapping

Measure

BIOL-L 474 Ecology - exam question 1

COURSE LEVEL; DIRECT - EXAM

Details/Description:

Students were asked to interpret data (presented graphically) related to the use of stable-isotope analysis to determine an animal's feeding habits based on hair samples on an exam. Correct answers explained not only the results, but how the results explained the animal's diet over time.

Acceptable Target:

The benchmark is 70%

Implementation Plan (timeline):

Key/Responsible Personnel:

Biology faculty

Supporting Attachments:

Findings

for BIOL-L 474 Ecology - exam question 1

Summary of Findings:

The average score on the exam question was 7.4 (92%) with n = 23.

Acceptable Target Achievement:

Reflections/Notes:

Substantiating Evidence:

Measure

BIOL-L 474 Ecology - exam question 2

COURSE LEVEL; DIRECT - EXAM

Details/Description:

Students were asked to interpret a simulated data (based on an actual dataset we studied in class) related to how the actual number of species compares to the cumulative number of species compare overtime on an island post-volcanic eruption. Correct answers explained how this data informs our understanding of ecological succession.

Acceptable Target:

The benchmark is 70%

Implementation Plan (timeline):

Key/Responsible Personnel:

Biology faculty

Supporting Attachments:

Findings

for BIOL-L 474 Ecology - exam question 2

Summary of Findings:

The average score on the exam question was 1.6 / 6 (26%) with n = 23.

Acceptable Target Achievement:

Not Met

Reflections/Notes:

Students clearly struggled with this question. Based on their answers, the confusion came from 2 sources: 1) understanding what the cumulative species curve represented, and 2) understanding that pioneer species are often driven out of communities as better competitors establish themselves. These concepts will be introduced in BIOL-L 105 and reinforced in future offerings of BIOL-L 474.

Substantiating Evidence:

Measure

BIOL-L 474 Ecology - exam question 3

COURSE LEVEL; DIRECT - EXAM

Details/Description:

Students were asked to interpret data correlated the date yellow-bellied marmots ended their hibernation with the year. Correct answers not only described the relationship between the variables, but also described how the results could be interpreted to support the hypothesis that the climate is warming.

Acceptable Target:

The benchmark is 70%

Implementation Plan (timeline):

Key/Responsible Personnel:

Biology faculty

Supporting Attachments:

Findings

for BIOL-L 474 Ecology - exam question 3

Summary of Findings:

The average score on the exam question was 5.7 / 6 (96%) with n = 23.

Acceptable Target Achievement:

Met

Reflections/Notes:

Substantiating Evidence: