Template:
Student Learning Assessment Report (add one “plan item” for each major, degree, and/or certificate offered by dept)

Name of degree/major or credential (example: Psychology BA/BS):
SWoK Student Learning Assessment Report

Assessment Cycle State Date:
3/1/2021

Assessment Cycle End Date:
7/1/2022

Progress:
Section Completed, Waiting for Feedback

Providing Department:
Scientific WOK

Responsible Users:

Assessment Report Contact:
Dean Panttaja

Program Changes in Past Year:
Adjustment at the State level to the Learning Competencies for this disciplinary area of Statewide General Education which required curriculum review through existing syllabi.

Deletion of the Following courses:
No Courses were added or Deleted

Learning Outcomes are Communicated to All Students in Program (check box if true):
true

Learning Outcomes are Communicated to All Faculty (check box if true):
true

Optional: Framework Alignment:
AAC&U VALUES Rubrics

Import Outcomes Data (from Anthology Outcomes):
Outcome #1 - Apply foundational knowledge and models of a natural or physical science to analyze and/or predict phenomena.
Outcome #2 - Understand the scientific method and apply scientific reasoning to critically evaluate arguments.
Outcome #3 - Interpret and communicate scientific information via written, spoken and/or visual representations.
Outcome #4 - Describe the relevance of specific scientific principles to the human experience.

1.
Foundational Knowledge of Natural/Physical Science
The student will be able to apply foundational knowledge and models of a natural or physical science to analyze and/or predict phenomena.

Academic Year 2020-2021: Scientific Ways of Knowing
Term: Overview

Exceeded 31.05% 190
### 2. Scientific Method and Reasoning

The student will be able to understand the scientific method and apply scientific reasoning to critically evaluate arguments.

**Academic Year 2020-2021:** Scientific Ways of Knowing

Term: **Overview**

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### 3. Communicate Scientific Information

The student will be able to interpret and communicate scientific information via written, spoken, and/or visual representations.

**Academic Year 2020-2021:** Scientific Ways of Knowing

Term: **Overview**

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### 4. Scientific Principles

The student will be able to describe the relevance of specific scientific principles to the human experience.

**Academic Year 2020-2021:** Scientific Ways of Knowing

Term: **Overview**

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### 5. Hypothesis Testing

The student will be able to form and test a hypothesis in the laboratory or field using discipline-specific tools and techniques for data collection and/or analysis.

**Academic Year 2020-2021:** Scientific Ways of Knowing

Term: **Overview**

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### Summary of Student Learning:

The number of students reported on in this category is 453.

Students in Outcome 1 met or exceeded the outcome at the 67th percentile (31.11% exceeded and 35.76% met the expectations of the faculty). Students in Outcome 2 met or exceeded the outcome at the 87th percentile (36.84% exceeded and 50.38% met the expectations of the faculty). Students in Outcome 3 met or exceeded the outcome at the 79th percentile (32.3% exceeded and 46.25% met the expectations of the faculty). Students in Outcome 4 met or exceed the outcome at the 91st percentile (30.65% exceeded and 60.54% met the expectations of the faculty). While the last three outcomes are acceptable thresholds, an eye should be kept on Outcome 1 ("Apply foundational knowledge and models of a natural or physical science to analyze and/or predict phenomena") as at the 67th percentile this is problematic.
Summary of Faculty Discussion:
This report was shared with University Committee on General Education prior to the filing of the report. There were no comments or corrections to the Summary Findings.

Summary of Changes/Improvements Being Considered:
It was determined by the University Committee on General Education in consultation with the Director of General Education that a determination of evaluative rotation for learning outcomes should be establish within each GEM area.

Inter-rater Reliability:
Since courses in general education utilize multiple educators, over multiple disciplines, with multiple assessment strategies, a method for inter-reliability outside of singular disciplinary courses with multiple sections (e.g. English 101 & 102) this cannot be established immediately. The University Committee on General Education will explore this topic

Closing the Loop:
As this is the establishment of a baseline in the new assessment system there is nothing to report as a closure in this GEM area. However, all areas are continuing to approve, remove, or adapt curriculum through the University Committee on General Education process and Through the University Curriculum Committee for either efficiency or to align with changing State Competencies for the GEM areas.

Quality Assessment Feedback:

Related Items

No connections made