Instructional Program Review Update

Directions: Enter your narrative responses after the questions. Upload report(s) that you reference in each narrative.

Submitter: David   Submission Date: 11/15/2021

DIVISION: Science, Technology, Engineering, and Mathematics   PROGRAM NAME: Math

1.A.   STATUS OF PRIOR GOAL – Goal # 1

Complete the section of questions for each goal, for instance 1.A. for the first goal, 1.B. for the second, and so on. If there are more than five goals, please contact the Office of Planning, Research, and Institutional Effectiveness (PRIE) to add sections.

GOAL, YEAR INITIATED, AND MEASURE OF SUCCESS IF NOT REFERENCED IN GOAL

In Fall 2019, the department envisioned a future in which our students have the technological resources they need to succeed in 21st century mathematics. This can be assessed through a student resource satisfaction survey of all our math students.

STATUS: ☒ Ongoing ☐ Revised for this cycle ☐ New ☐ Completed ☐ Discontinued

SUPPORTING NARRATIVE FOR EACH GOAL'S STATUS (*Recommend length: not to exceed 250 words*)

- Ongoing
    a) Roughly how much of the goal has been implemented – 25/50/75%?
    b) What has been accomplished thus far?
    c) What has been the impact of resources that were provided? ☐ Not Applicable
    d) What are challenges not already documented? ☐ Not Applicable
- Revised – Explain how and why the goal has been revised: implementation plan? timelines? measures of success?
- New – Briefly explain the need for the goal, and how it aligns with the College Values.
- Completed – Note the accomplishments and to what extent the measure of success was met.
- Discontinued – Explain why.

25% of the goal has been implemented but we still need to begin a student resource satisfaction survey cycle. We need a computer lab devoted to using cloud based mathematical software for both the B-STEM and SLAM pathways. So far, we received 30 laptops

IMPLEMENTATION STEP(S) AND TIMELINE – FOR ONLY *ONGOING*, *REVISED*, & *NEW* GOAL(S)

List *remaining* and/or *new* implementation steps and timelines for ongoing and/or revised goals.

List implementation step(s) to achieve new goals, which can include intended changes, professional development, and/or further inquiry.

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By Fall 2022, we need a laptop cart in classrooms with reliable wifi for a maxed out class-cap.   Alternatively, we need an ethernet math computer lab with class caps matched to the number of   computers in the lab.

GOAL ALIGNMENT WITH COLLEGE VALUE(S) – FOR ONLY *NEW* GOAL(S)

☒ Social Justice

☒ Campus Climate

☒ Open Access

☒ Student Success and Equity

☒ Academic Excellence

☐ Community Partnership

☐ Participatory Governance

☒ Sustainability

RESOURCE REQUEST RATIONALES FOR *ONGOING*, *REVISED*, & *NEW* GOALS
(*Recommended length: not to exceed 150 words for each goal*)

☐ No Resource Request Needed

Which additional resources are needed (e.g., services from or partnerships with other areas of campus, instructional equipment, facilities, personnel, etc.)? How will they help to support the goal?

Note: Referencing the goal and implementation step(s), submit the request(s) that require funding to your dean by November 15.

By Fall 2022, we need a laptop cart in classrooms with reliable wifi for a maxed out class-cap.   Alternatively, we need an ethernet math computer lab with class caps matched to the number of   computers in the lab.

1.B.   STATUS OF PRIOR GOAL – Goal # 2

GOAL, YEAR INITIATED, AND MEASURE OF SUCCESS IF NOT REFERENCED IN GOAL

In Fall 2019, the department envisioned a future in which our students have a SLAM pathway that leads Society & Education as well as Arts, Language, & Communication Meta Majors into Data Science. We're looking to see an increase in first year transfer le

STATUS: ☒ Ongoing ☐ Revised for this cycle ☐ New ☐ Completed ☐ Discontinued

SUPPORTING NARRATIVE FOR EACH GOALS' STATUS (*Recommend length: not to exceed 250 words*)

- Ongoing
    a) Roughly how much of the goal has been implemented – 25/50/75%?
    b) What has been accomplished thus far?
    c) What has been the impact of resources that were provided? ☐ Not Applicable
    d) What are challenges not already documented? ☐ Not Applicable
- Revised – Explain how and why the goal has been revised: implementation plan? timelines? measures of success?
- New – Briefly explain the need for the goal, and how it aligns with the College Values.
- Completed – Note the accomplishments and to what extent the measure of success was met.
- Discontinued – Explain why.

50% of the goal has been implemented but we still need to analyze first year transfer level math completion longitudinally.

IMPLEMENTATION STEP(S) AND TIMELINE

In Fall 2020, the department was awarded an NSF IUSE grant to implement project-based learning in Math 200: Introduction to Statistics. The goal of this project is to have students work with real data and statistical software to inspire students to want t

GOAL ALIGNMENT WITH COLLEGE VALUE(S) – FOR ONLY *NEW* GOAL(S)

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☒ Academic Excellence

☐ Community Partnership

☐ Participatory Governance

☒ Sustainability

RESOURCE REQUEST RATIONALES FOR *ONGOING*, *REVISED*, & *NEW* GOALS
(*Recommended length: not to exceed 150 words for each goal*)

☐ No Resource Request Needed

Which additional resources are needed (e.g., services from or partnerships with other areas of campus, instructional equipment, facilities, personnel, etc.)? How will they help to support the goal?

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Note: Referencing the goal and implementation step(s), submit the request(s) that require funding to your dean by November 15.

We need continued 2.0 FTE allocation for SLAM coordination and a designated computer lab or laptop cart classroom with reliable wifi for maxed out class cap.

1.C. STATUS OF PRIOR GOAL – Goal # 3

GOAL, YEAR INITIATED, AND MEASURE OF SUCCESS IF NOT REFERENCED IN GOAL

In Fall 2019, the department envisioned a future in which our students have a B-STEM pathway that leads Science, Technology, & Health as well as Business, Entrepreneurship, & Management Meta Majors through Calculus and into Career Success. We're looking

STATUS: ☒ Ongoing ☐ Revised for this cycle ☐ New ☐ Completed ☐ Discontinued

SUPPORTING NARRATIVE FOR EACH GOALS' STATUS (*Recommend length: not to exceed 250 words*)

- Ongoing
  a) Roughly how much of the goal has been implemented – 25/50/75%?
  b) What has been accomplished thus far?
  c) What has been the impact of resources that were provided? ☐ Not Applicable
  d) What are challenges not already documented? ☐ Not Applicable
- Revised – Explain how and why the goal has been revised: implementation plan? timelines? measures of success?
- New – Briefly explain the need for the goal, and how it aligns with the College Values.
- Completed – Note the accomplishments and to what extent the measure of success was met.
- Discontinued – Explain why.

25% of the goal has been completed but we still need to analyze first year transfer level math completion longitudinally. Rick Hough and David Hasson have worked together to create a ZTC hyflex Math 120 Intermediate Algebra curriculum using Canvas, Khan

IMPLEMENTATION STEP(S) AND TIMELINE

In Spring 2022, David Hasson will pilot the ZTC hyflex curriculum for Math 225. In Fall 2022, he will form a community of practice in the hopes of scaling its adoption.

GOAL ALIGNMENT WITH COLLEGE VALUE(S) – FOR ONLY *NEW* GOAL(S)

☒ Social Justice

☒ Campus Climate

☒ Open Access

☒ Student Success and Equity

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☒ Academic Excellence

☐ Community Partnership

☐ Participatory Governance

☒ Sustainability

RESOURCE REQUEST RATIONALES FOR *ONGOING*, *REVISED*, & *NEW* GOALS
(*Recommended length: not to exceed 150 words for each goal*)

☐ No Resource Request Needed

Which additional resources are needed (e.g., services from or partnerships with other areas of campus, instructional equipment, facilities, personnel, etc.)? How will they help to support the goal?

Note: Referencing the goal and implementation step(s), submit the request(s) that require funding to your dean by November 15.

> We need continued 2.0 FTE allocation for B-STEM coordination and a designated computer lab or laptop cart classroom with reliable wifi for maxed out class cap.

2. COURSE SLO RESULTS

We have no SLO data due to a lapse of assessment during the pandemic. We will begin assessing again in Spring 2022.

3.   INSTITUTIONAL SLO RESULTS

When possible, concurrently assess course SLOs and ISLOs.

Report on the last three years of ISLO results which you'll receive from PRIE. Indicate if the results met the benchmark or were inconclusive. Additional commentary is optional.

ISLO	YEAR(S) ASSESSED	COURSE(S) TO ASSESS THE ISLO	RESULTS
CITIZENSHIP	2022	200	
CRITICAL THINKING	2022	all	
EFFECTIVE COMMUNICATION	2022	200	
INFORMATION LITERACY	2022	200	
LIFELONG WELLNESS	2022	120/222	

Drawing from 2 and 3, what notable conclusions were drawn from the assessment results? If available, note any differences in assessment results by key disaggregations (e.g. modality,

learning communities, etc.). What have been the implications for the program? Which course results led to action(s) that were planned or taken, if any? What efforts, if any, have been made to enhance student learning in those courses (e.g., curricular and pedagogical changes to the course; course sequencing, including complementary general education courses; adoption of OER/ZTC texts; assessment design; collaborations with other areas of campus, etc.)? (*Recommended length: not to exceed 250 words*).

No conclusions yet.

4. **CURRICULUM**

   Please check the boxes to indicate that the following tasks have been completed:

   ☐ Submitted a current assessment calendar with all active courses to the Office of Planning, Research, and Institutional Effectiveness

   ☐ Updated *Improve* with new or changed SLOs, and requested from PRIE the addition of new courses in order to input SLOs

   ☒ Not Applicable

   ☐ Updated new or changed PSLOs on the program website after they are published in the College Catalog

   ☒ Not Applicable

   ☐ Reviewed, updated (as needed), and submitted degree and certificate maps to the Curriculum Committee

   ☒ Not Applicable

5. **ADDITIONAL INFORMATION**

   ☒ Not Applicable

   Please note anything else that has not been captured above that is relevant to program accomplishments, challenges, and resource needs. Explain and document your response as needed.

APPROVAL AND SIGNATURE

This document has been reviewed and approved by: Click or tap here to enter text. on Click or tap to enter a date..