

UNIT REPORT

Mathematics and Statistics, Department of
Assessment Plan Summary

Mathematics and Statistics, Department of

Deliver Current, Rigorous Curricula

Goal Description:

The department will insure that all curricula meet current professional standards and will insure that the rigor of these curricula are monitored and modified appropriately

RELATED ITEMS/ELEMENTS

RELATED ITEM LEVEL 1

State Board Of Educator Certification (SBEC) Standards

Performance Objective Description:

The department will align its curriculum with the SBEC curriculum standards for MATH 3381

RELATED ITEM LEVEL 2

SBEC Standards

KPI Description:

The department will offer MATH 3381 in alignment with the State Board of Educator Standards. There will be a one-to-one correspondence with at least two of the SBEC standards for a mathematics generalist.

RELATED ITEM LEVEL 3

Budget requests

Action Description:

We requested additional funds for furniture (new desks for some faculty), and for additional travel funds for faculty research

Procure Appropriate Resources To Facilitate The Academic Mission Of The Department

Goal Description:

The department will monitor the classroom, laboratory, research, and out-reach (service) needs of the unit. Budget requests will reflect these needs.

RELATED ITEMS/ELEMENTS

RELATED ITEM LEVEL 1

Procurement Of Technology

Performance Objective Description:

The department will procure hardware and software relevant to the research and instructional needs of its faculty.

RELATED ITEM LEVEL 2

Requests For Equipment

KPI Description:

The department will submit budget requests for new technology equipment.

Results Description:

The needs of our department have exceeded the capacity of the computer labs available for our use. We will consider including in the 2017-18 Strategic Plan & Budget a proposal to increase the capacity of our computer labs.

RELATED ITEM LEVEL 3

Budget requests

Action Description:

We requested additional funds for furniture (new desks for some faculty), and for additional travel funds for faculty research

Provide Appropriate Personnel Resources For The Unit

Goal Description:

The department will assess the personnel (staff and faculty) needs of the unit on an annual basis. Annual funding requests will reflect these needs and hiring decisions will be based on these needs. The department office will provide appropriate resources and encourage faculty and staff to participate in development opportunities.

RELATED ITEMS/ELEMENTS

RELATED ITEM LEVEL 1

Procurement Of Personnel

Performance Objective Description:

The department will maintain personnel to effectively manage all three areas: mathematics, mathematics education, and statistics.

RELATED ITEM LEVEL 2

New Hires

KPI Description:

The department will submit Preliminary Budget Request forms requesting hires for the department's personnel needs.

Results Description:

Two new positions were acquired and filled in Fall 2014 and 2015: one mathematician and one statistician. With impending retirements on the horizon, no new positions will be required in our department.

RELATED ITEM LEVEL 3

New hires

Action Description:

No new faculty positions were needed, but we did request approval to hire a new Lecturer to help with demands of calculus and precalculus. In particular, we requested permission to hire a fourth Lecturer to assess the effectiveness of our calculus placement procedure.

Provide Support Of Faculty Activities

Goal Description:

The department will insure that the faculty have sufficient input in issues related to teaching schedules and professional development opportunities.

RELATED ITEMS/ELEMENTS - - - - -

RELATED ITEM LEVEL 1

Faculty Travel

Performance Objective Description:

The Department will closely monitor the amount of money allocated for faculty travel in 2013-14. In particular, a survey of the faculty will be performed, asking if the current amount allocated is sufficient. Adjustments will be made accordingly.

RELATED ITEM LEVEL 2

Travel Allocation

KPI Description:

The Department will increase the amount of money allocated for faculty travel to conferences. Our goal is to raise travel stipends by 20%.

Results Description:

A 20% increase in travel funds was requested in the previous year's strategic plan and budget cycle. We were grateful for an increase of just under 10%. This should result in an additional \$6000 in travel funds for the department.

We will request an additional increase in our 2017-18 Strategic Plan and Budget proposal.

RELATED ITEM LEVEL 3

Budget requests

Action Description:

We requested additional funds for furniture (new desks for some faculty), and for additional travel funds for faculty research

Update to Previous Cycle's Plan for Continuous Improvement

Previous Cycle's Plan For Continuous Improvement (Do Not Modify):

All three of our graduate programs (MS, mathematics; MS statistics; MA mathematics education) and are thriving in spite of increased tuition and fees with no corresponding increase in stipend. We will request in the next budget cycle several new TA positions to meet this increase in demand. Twelve new TA positions (four for each of the three three distinct programs) should meet the demand over the next 12-15 years.

With an increase in qualified, teaching graduate students, the burden on adjunct faculty will be lessened. For example, rather than four of our valued adjuncts being overworked at 6 courses each semester, three or four advanced (second-year) graduate students could teach one or two credit-bearing courses.

This plan will be elaborated upon in the 2015-16 Strategic Plan and Budget proposal.

Update of Progress to the Previous Cycle's PCI:

Additional funds for graduate teaching assistantships was requested in the previous year's budget cycle. Unfortunately, no new funds were allocated. The strategic plan and budget for 2017-18 will include requests for additional funds to assist our graduate student.

Plan for Continuous Improvement

Closing Summary:

A new Lecturer was hired to teach calculus, precalculus, and other courses as well as collect data on the effectiveness of our calculus placement process. For example, are we doing well in MATH 1410 preparing students for MATH 1420 (calculus)? We hope to have, by Fall 2017, and answer to these questions.