

Year Year 1

1. Identify the PLO your program assessed this academic year

7). Demonstrate college-level knowledge in fields related to mathematics

2. Identify the artifact(s) (i.e. student work) that you used to assess the PLO.

[Papers, presentations, portfolios, test items, specific assignments, capstone

Rubrics--The portfolios are collections of the students' final grades in the relevant courses of CMPS 134, CMPS 144 and three cognate electives.

3. Identify the tools (e.g. rubrics, surveys, performance on standardized test questions) used to assess the artifact(s) (i.e. student work

Rubrics-

4. Explain the results of the assessment activities

The four applied mathematics majors in the class of 2016 displayed a high level of achievement in demonstrating college-level knowledge in fields related to mathematics. Their GPAs in the relevant courses of CMPS 134 and CMPS 144 were 3.08 and 2.82, respectively. Half the students elected ECO 153, while half elected PHYS 140/140L. Their GPA in these courses was 3.74. Similarly, half the students elected ECO 154, while half elected PHYS 141/141L. Their GPA in these courses was 3.26. The four students chose ECO 351, ECO 362, CMPS 240 and PHYS 270/270L for the last cognate elective. Their GPA in these courses was 3.3.

5. Where applicable, outline the steps you will take to make improvements to the program based on the results of assessment activities identified in #3.

We will strive to sustain these results.

6. Are there any new resources needed to make program improvements? If so, please include the resources and provide justification for each in the Budget section of the Annual Report.

No.

Year Year 1

1. Identify the PLO your program assessed this academic year

2). Demonstrate college-level knowledge in applied mathematics

2. Identify the artifact(s) (i.e. student work) that you used to assess the PLO.

[Papers, presentations, portfolios, test items, specific assignments, capstone

Rubrics--The portfolios are collections of results from our in house exit examination for applied mathematics, samples of the students' work and final grades. The results from the exit examination are with respect to the relevant courses of MATH 310, MATH 341, MATH 361 and MATH 371. The samples of the students' work and final grades are with respect to MATH 310, MATH 341, MATH 361, MATH 371 and (MATH 320 or MATH 410).

3. Identify the tools (e.g. rubrics, surveys, performance on standardized test questions) used to assess the artifact(s) (i.e. student work

Rubrics-

4. Explain the results of the assessment activities

The four applied mathematics majors in the class of 2016 displayed achievement in demonstrating college-level knowledge in applied mathematics. On our multiple choice in house applied mathematics exit examination, the four students correctly answered more than 35% of the questions from MATH 310, MATH 341, MATH 361 and MATH 371. Their GPAs for the relevant courses of MATH 310, MATH 341, MATH 361, MATH 371 and (MATH 320 or MATH 410) were 3.08, 2.41, 2.41, 3.16 and 3.41, respectively. Moreover, thirty three samples of the students' work from these courses were reviewed. These samples were homework assignments, exams, final exams and final projects. They corroborated the grades the students earned in these courses.

5. Where applicable, outline the steps you will take to make improvements to the program based on the results of assessment activities identified in #3.

This was the first graduating class for the applied mathematics major, and all four of the graduates spent less than half of their time at Scranton as applied mathematics majors. Looking forward to the next three graduating classes for the program, it is

6. Are there any new resources needed to make program improvements? If so, please include the resources and provide justification for each in the Budget section of the Annual Report.

No.

Year Year 1

1. Identify the PLO your program assessed this academic year

1). Demonstrate college-level knowledge in foundational mathematics

2. Identify the artifact(s) (i.e. student work) that you used to assess the PLO.

[Papers, presentations, portfolios, test items, specific assignments, capstone

Rubrics--The portfolios are collections of results from our in house exit examination for applied mathematics, samples of the students' work and final grades. All three of these are with respect to the relevant courses of MATH 114, MATH 221, MATH 222 and MATH 351.

3. Identify the tools (e.g. rubrics, surveys, performance on standardized test questions) used to assess the artifact(s) (i.e. student work

Rubrics-

4. Explain the results of the assessment activities

The four applied mathematics majors in the class of 2016 displayed an acceptable level of achievement in demonstrating college-level knowledge in foundational mathematics. On our multiple choice in house applied mathematics exit examination, the four students correctly answered more than 53% of the questions from MATH 114, MATH 221, MATH 222 and MATH 351. Their GPAs for the relevant courses of MATH 114, MATH 221, MATH 222 and MATH 351 were 3.66, 2.83, 2.91 and 2.91, respectively. Moreover, nine samples of the students' work from these courses were reviewed. These samples were final exams and corroborated the grades the students earned in these courses.

5. Where applicable, outline the steps you will take to make improvements to the program based on the results of assessment activities identified in #3.

This was the first graduating class for the applied mathematics major, and all four of the graduates spent less than half of their time at Scranton as applied mathematics majors. Looking forward to the next three graduating classes for the program, it is

6. Are there any new resources needed to make program improvements? If so, please include the resources and provide justification for each in the Budget section of the Annual Report.

No.