

Q-core Assessment Report

Course: M172

Semester: Spring 2016

Instructor(s) and/or supervisor: Mark Pernarowski

Assessment done by: Mark Pernarowski and Corinne Casolara

Number of students in course: 516

Number of students assessed: 446

Description of assignment, problems, and/or questions used for assessment:

All final exams from the 13 total sections were assessed. The problems used to assess Learning Outcomes were problem 9 for outcome 1, problem 8 for outcome 2, and problem 4 for outcome 3.

-Problem 9 required students to use a formula to find the length of a curve in the plane.

-Problem 8 required students to graph two curves in the polar plane and then find the enclosed area.

-Problem 4 required students to use algebraic partial fraction expansion to evaluate an integral.

Learning Outcome 1: Interpret and draw inferences from mathematical or statistical models represented as formulas, graphs, or tables.

- Total number of assignments assessed: 446
- Number of student assignments demonstrating the learning outcome at an acceptable level, as defined in the Q-core Rationale and Assessment Plan: 355
- Proportion of assignments rated as “acceptable”: 80%
- Is this over the specified threshold of 2/3? Yes
- Comments and ideas for better aligning the course or the assignments with the Q-core rationale: None
- Comments and ideas for improving the process of assessment: Redefine learning outcomes to be course specific.

Learning Outcome 2: represent mathematical or statistical information numerically and visually.

- Total number of assignments assessed: 446
- Number of student assignments demonstrating the learning outcome at an acceptable level, as defined in the Q-core Rationale and Assessment Plan: 383
- Proportion of assignments rated as “acceptable”: 86%
- Is this over the specified threshold of 2/3? Yes
- Comments and ideas for better aligning the course or the assignments with the Q-core rationale: None
- Comments and ideas for improving the process of assessment: Redefine learning outcomes to be course specific.

Learning Outcome 3: Employ quantitative methods such as arithmetic, algebra, geometry, or statistical inference to solve problems.

- Total number of assignments assessed: 446
- Number of student assignments demonstrating the learning outcome at an acceptable level, as defined in the Q-core Rationale and Assessment Plan: 310
- Proportion of assignments rated as “acceptable”: 70%
- Is this over the specified threshold of 2/3? Yes
- Comments and ideas for better aligning the course or the assignments with the Q-core rationale: None
- Comments and ideas for improving the process of assessment: Redefine learning outcomes to be course specific.