

Cover Sheet for Activities

Title: Developing Ethical Reasoning Skills as a Mathematics Student

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Type/Size of Institution(s): any institution with a math major

Class Size(s): small enough to make small-group discussions feasible

Mathematical Content: No prerequisite math knowledge

Learning Objective(s): Development of their students' ethical reasoning skills. *Being You in Mathematics* is a one-hour, weekly seminar course aimed at first and second-year mathematics majors to equip students to have a more enjoyable experience as a mathematics major. Recognizing the need for our mathematics majors to become ethical practitioners, we specifically developed experiences in this course that would guide the students to develop ethical reasoning, effective thinking, and communication skills applicable to mathematics and beyond mathematics.

Time Required & Courses: tested in year-long, one-hour seminar for entry-level mathematics majors

Grading and Assessment Recommendations: Provided in each activity.

Required resources and technology: none

Brief Description/Abstract:

We will share three mini-lessons for guiding mathematics majors to develop ethical reasoning skills. These activities have been tested, evaluated, and revised in a one-hour seminar for entry-level mathematics majors over two recent offerings of this course. In the first activity, students collaboratively develop a set of Ethical Guidelines for Mathematics Majors. Then, in the second activity, students apply these guidelines to analyze vignettes posing an ethical challenge linked to being an undergraduate math major. Finally, in the third activity, students reflect on their experiences through the lens of the collaboratively developed Ethical Guidelines for Mathematics Majors.