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Viewing our students as ambassadors of our discipline: a new approach to the mathematics senior seminar.

The capstone course is traditionally an opportunity for students to delve deeper into the mathematical discipline. This talk outlines the rationale and details of designing a senior seminar course on the theme of the relevance of mathematics to society. Viewing students as ambassadors of the discipline provides the flexibility to accommodate math majors, preservice teachers with a math concentration and actuarial science majors within a single section of the course. More importantly it provides a venue for students to articulate their personal philosophy on the significance of mathematics and grapple with ethical ramifications of the discipline on our society. By the end they are cognizant of the need to consider not only if they are capable of crafting an effective solution to any given problem but also the implicit duty to avoid causing harm with their mathematical knowledge.