

Mathematical Science Undergraduate Educational Aims

1. Intellectual Excellence

- a. appreciation of and passion for intellectual endeavor and the life of the mind
- b. appreciation of and grounding in the liberal arts and sciences
- c. excellence in a discipline, including understanding of the relationship between one's discipline and other disciplines; understanding the interconnectedness of all knowledge
- d. habits of intellectual curiosity, honesty, humility, and persistence

2. Critical Understanding: Thinking, Reading, and Analyzing

- a. the ability to evaluate a claim based on documentation, plausibility, and logical coherence
- b. the ability to analyze and solve problems using appropriate tools
- e. the ability to use mathematical concepts and procedures competently, and to evaluate claims made in numeric terms
- g. the ability to use information technology in research and problem solving, with an appreciation of its advantages and limitations

3. Eloquentia Perfecta

- a. the ability to use speech and writing effectively, logically, gracefully, persuasively, and responsibly

8. Diversity

- a. recognition of the inherent value and dignity of each person, and therefore an awareness of, sensitivity toward, and respect for the differences of race, gender, ethnicity, national origin, culture, sexual orientation, religion, age, and disabilities