

• Quantitative Reasoning Requirement

To increase her proficiency in using and analyzing quantitative information, a student is required to pass two courses (6 credit hours) from different departments in which quantitative reasoning is itself a focus of the class. A significant amount of classroom instruction should be devoted to the training and practice of quantitative reasoning. While mathematics is an important part of quantitative reasoning, a course that targets quantitative reasoning is not a class in remedial mathematics.

Quantitative reasoning includes the development of quantitative ability (arithmetic and data analysis), problem solving and logical reasoning. A course that fulfills the quantitative reasoning requirement will include at least **two** of the following:

- Arithmetic Analysis includes arithmetic operations (addition, subtraction, multiplication, division, and powers) on real numbers, roots, estimation, percent, absolute value, properties of numbers.
- Data Analysis includes basic descriptive statistics (such as mean, median, mode, range, standard deviation, and percentiles), interpretation of data given in graphs and tables, elementary probability, and the ability to synthesize information.
- Problem Solving uses arithmetic and data analysis to make correct inferences about data to select appropriate data for answering a question, and to determine whether or not the data provided are sufficient to answer a given question.
- Logical Reasoning is the ability to understand, analyze, and evaluate arguments. No knowledge of the terminology of formal logic is required.
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A quantitative reasoning diagnostic test is available for students to take on a voluntary basis. The purpose of the test is to help the student assess her quantitative reasoning skills so that she and her advisor can make more informed choices in planning her course of study. Based on this test or on other diagnostic methods, tutoring will be made available for a student at risk in a specific quantitative reasoning course.