

## **Quantitative Studies: Proposal**

### **Quantitative Studies (QS):**

The main purpose of a QS course is the acquisition of quantitative skills that result in proficiency in an area of mathematics, statistical science, computer science, or other explicitly quantitative discipline. “Quantitative skill” may be a skill that includes one or both of analysis and synthesis in areas of mathematics, statistical science, or computer science. Students, upon successful completion of a quantitative studies course, will be able to solve and analyze quantitative problems including those from a wide array of disciplines, authentic contexts, and everyday life situations.

Students must successfully complete two courses in Quantitative Studies one of which is in the Mathematics, Statistics or Computer Science departments.

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For a course to be labeled QS, evidence must be provided that successful completion of the course will enable students to achieve each of the following three student learning outcomes:

- (1) Demonstrate conceptual understanding of and proficiency with a quantitative skill.
- (2) Identify the assumptions used in solving a quantitative problem as well as the limitations of any conclusions resulting from application of a quantitative skill in solving the problem. Where appropriate, interpret quantitative evidence and draw appropriate inferences and conclusions.
- (3) Effectively present the results of the application of a quantitative skill in solving a problem. Where appropriate, this justification should include a discussion of the implications and importance of the quantitative problem in its larger social, scientific, political, technical or cultural context.