

# QUANTITATIVE KNOWLEDGE AND INQUIRY

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**Area Goal:** This Core Area of Inquiry will invite students to explore the major concepts and methods involved in the analysis of quantitative data.

**Area Objectives:** Through these courses, students will explore how one or more fields—mathematics, statistics, computing, and the social sciences—understand and analyze quantitative information. This involves reasoning by symbolic, numerical, or geometrical means, and determining various ways to solve problems while predicting possible consequences.

## CURRICULUM

### Courses (1 course required)

Code	Title	Hours
Choose one of the following:		3
CJC 206	Statistics	
COMP 122 / MUSC 122	Introduction to Digital Music	
COMP 125	Visual Information Processing	
COMP 150	Introduction to Computing	
ISSCM 241	Business Statistics	
MATH 108	Real World Modeling with Mathematics	
STAT 103	Fundamentals of Statistics	

## AREA LEARNING OUTCOMES

After completing the course in this Area, students will be able to:

- represent and interpret quantitative information symbolically, graphically, numerically, verbally, and in written form.
- describe the strengths and limitations of various types of quantitative models.
- describe the utility of quantitative methods for scientific inquiry or technological progress.
- apply quantitative methods to solve problems or model situations arising in scientific, political, social, or personal contexts.