# MATH 2100

**Division:** Natural Science and Mathematics
**Department:** Mathematics
**Course:** MATH 2100
**Title:** Honors Math
**Catalog Description:**
This course provides an historical approach to the philosophy of scientific thought with mathematics as the driving force. The course begins with the Greek influence in the Age of Reason and continues to contemporary mathematical topics.
**General Education Requirements:** Individual Choice
**Semesters Offered:** Fall
**Credit/Time Requirement:** Credit: 2; Lecture: 2; Lab: 0
**Clock/Hour Requirements:** 0
**Offered for Non-Credit:** No
**Prerequisites:** Math 1010 or equivalent

**Corequisites:** N/A

**Justification:**
This course is part of the Snow College Honors Program. It is also strongly recommended for mathematics and mathematics education majors.

**Student Learning Outcomes:**

Upon successful completion of this course, the student will:

- understand the role and influence of mathematics in philosophical and scientific thought through the ages
- understand the historical and logical evolution of the system of real and complex numbers
- gain experience in doing individual research and present findings to the class

**Content:**

This course will include:

- the Greek period
- the Renaissance
- the mathematization of science
- the withering of truth
- the search for foundations
- the morass of analysis
- formal logic

- contemporary mathematics.

**General Education Outcomes:**

6) Apply computational skills to a variety of contexts.
In this course students are taught how to perform some quantitative calculations. Homework exercises and exam problems assess the competency of student skills in a variety of theoretical and applied situations.

**Key Performance Indicators:**

Student learning will be evaluated primarily through daily homework assignments, quizzes, and periodic examinations. Additional assessment may be achieved through other activities such as group or class activities, classroom participation, etc.

The point/percentage breakdown for computing the final grade will be:
Exams (midterms and final): 40 - 70%
Homework: 10 - 30%
Presentation: 5 - 15%
Quizzes: 0 - 10%
Other activities: 0 - 10%

**Representative Text and/or Supplies:**

- Kline, Morris, *Mathematics: The Loss of Certainty*, 1982, Oxford University.

**Optimum Class Size:** 20
**Maximum Class Size:** 30

**Signatures:**

I hereby submit this course syllabus:

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Kari Arnoldsen, PhD, Professor

I hereby find this course consistent with the goals and resources of the Mathematics Department:

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Kari Arnoldsen, PhD, Professor, Chair

I hereby find this course consistent with the goals and resources of the Natural Science and Mathematics Division:

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Dan Black, EdD, Associate Professor, Dean

I have discussed the need for library resources related to this class with the person submitting the syllabus:

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Lynn Anderson, MLIS, Technical Services Librarian (Main Campus)

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Michelle Olsen, MLS, Campus Librarian (Richfield Campus)