

Instructions: All course proposals must be signed by the Chair and Dean and submitted to the Office of the Registrar.

Course Title: Mathematical Modeling
Course Number: 1110
Prerequisites: None
Corequisites: None
Credits: 3

Credit Hours: 3

Lecture/Lab Hours: 3/0
Classroom: 1110
Instructor: Dr. [Name]

Course Description: This course is designed to provide students with a solid foundation in mathematical modeling. It covers topics such as differential equations, matrix algebra, and optimization. The course is intended for students majoring in mathematics or related fields.

Learning Objectives: Students will be able to:
1. Formulate mathematical models for real-world problems.
2. Solve differential equations and matrix problems.
3. Apply optimization techniques to find maximum and minimum values.

Assessment: Students will be assessed through a combination of quizzes, homework assignments, and a final exam.

Approval: Chair: [Signature] Dean: [Signature]

Date: 11/15/2023

Chair Academic Affairs Committee (Signature authorizes Catalog inclusion)

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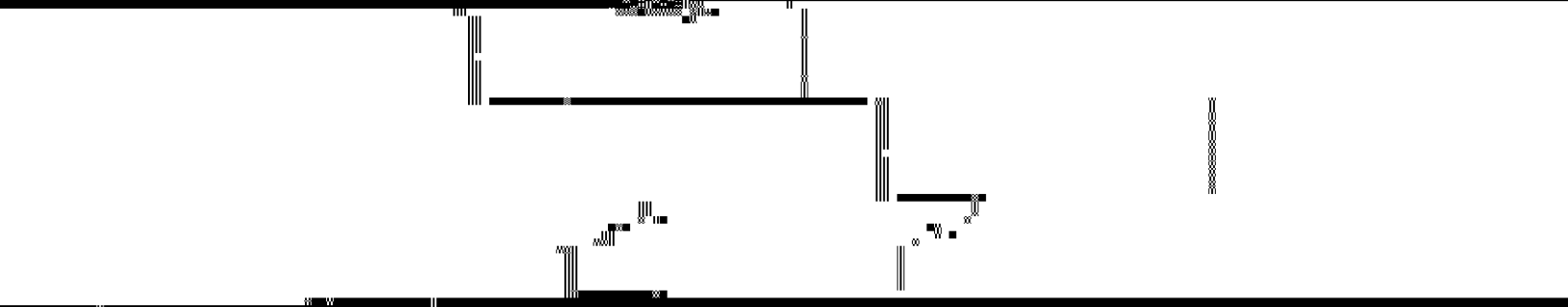
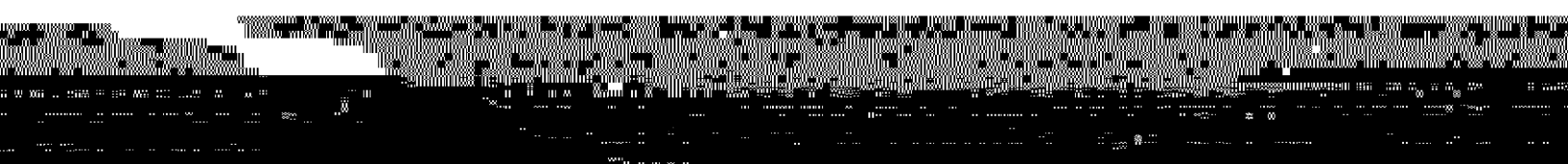
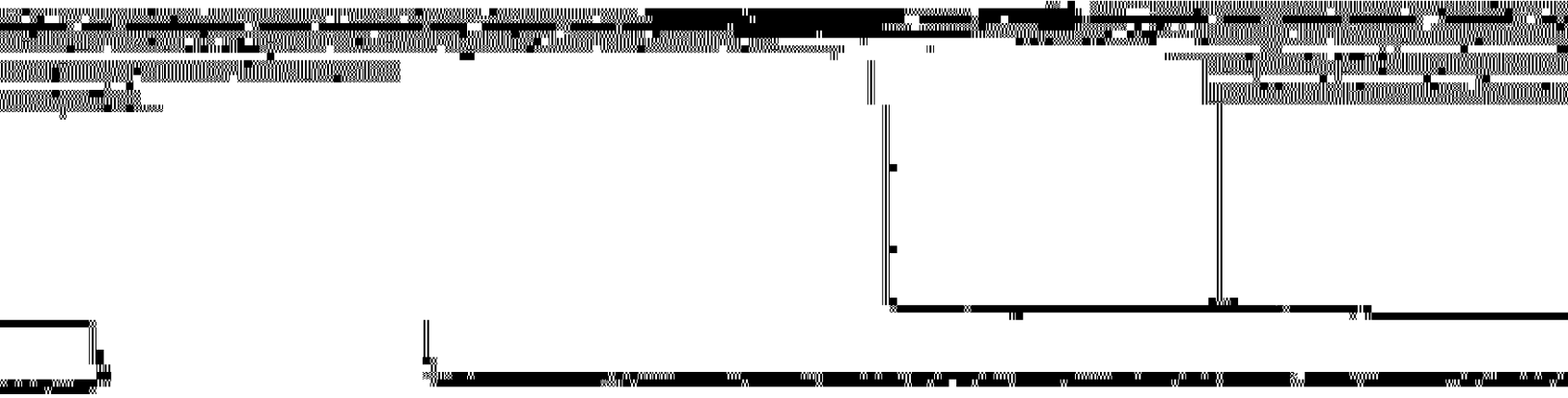
This course is requested to satisfy the following Core Area(s) and/or overlay learning goals (select all that apply)

Area A1 (English): Students will demonstrate college-level competence and critical thinking skills in written forms.

written forms.

Prerequisites: This course will cover the material in the first two chapters of the textbook. As a general course will be held in the context of various topics like... accepted principles of the new mathematics for students with... in the field of mathematics.

This course is an introduction to mathematics for students who have completed the first two chapters of the textbook.



University of California, Berkeley

Explain how this specific course fits into the overall curriculum and how it supports the program's goals.

It is a general education course that provides a broad overview of the field and is required for all students.

If this is a general education course, explain how it supports the program's goals and how it fits into the overall curriculum. Also note that courses relevant to the field: this base course and other courses of the Core.

