

Course Syllabus

CSU Math 435: Projects in Applied Mathematics, Spring 2016

Instructor: Henry Adams

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Office: Weber 125

Lectures: Tuesdays and Thursdays 8:00-9:15am in Engineering E105 or Weber 205¹

Class Webpage: <http://www.math.colostate.edu/~adams/teaching/math435spr2016>

Topic: Open-ended projects with emphasis on problem identification and formulation, team approach, and reporting results. Our first project will be on high-dimensional data analysis. The later projects will largely be on topics of your choosing. One of my goals is that students will become comfortable with coding projects in Matlab (or other software) and with writing reports in LaTeX.

Prerequisites:

CS 156, CS 160, CS 253, or Math 151 (coding experience)

Math 229 or Math 369 (linear algebra)

Math 340 or Math 345 (differential equations)

Textbook: None.

Exams and homework: No exams or weekly homework assignments are planned.

Requirements: Your final grade will be based on the following components:

10% attendance, participation, and engagement,

20% project 1,

25% project 2,

30% final project,

15% poster session.

Academic Policies and Integrity: Students are expected to adhere to the CSU Academic Integrity Policy as found on the Students' Responsibilities page of the [CSU General Catalog](#) and in the [Student Conduct Code](#). For further policies which apply to all math department classes, please see <http://www.math.colostate.edu/programs/undergraduate/policies.shtml>.

You are heavily encouraged to use outside sources (papers, books, software, datasets, etc.) to augment your projects. Please cite the resources you use.

¹On Thursday, January 21, we will meet at 8:00 in Weber 205.