

Climate and Space 590 — Section 52
Space Systems Projects
Winter 2024

Instructor: Enrico Landi (elandi@umich.edu)
Credits: 1
Lecture: Tuesdays 9:30am-10:30am — 2424 CSRB
Office Hours: Anytime by appointment via Zoom:

<https://umich.zoom.us/j/94200603803>
Meeting ID: 942 0060 3803
Passcode: 135564

COURSE DESCRIPTION:

This course is a mandatory component of the 590 project course. Each student needs to register to section 52 of 590 for 1 credit (this course), and request an override to Claire Miller (ccdewitt@umich.edu) to register for 3 credits to the 590 section of the faculty they will be working with.

The goals of 590-52 (this course) are:

- A. Provide independent supervision to each student's work with their advisor on a 590 project;
- B. Advise the student should any issues arise;
- C. Have students practice delivering structured talks about their project (goals, methodologies, relevance, societal benefits etc);
- D. Have students write detailed progress reports on their projects (midterm and final report)
- E. Have students practice delivering project updates on their projects

PREREQUISITES:

Having already a project with a faculty (which is *not* the instructor).

REQUIREMENTS:

Lectures: The lectures are an indispensable part of the course. They will begin promptly at 9:30am. Please **arrive on time and do not leave before the end**, because both behaviors will disrupt others, especially while delivering a talk.

Oral presentations: The pdf file of each presentation needs to be sent to the instructor **by 5:00pm of the day before the talk is scheduled** (earlier submissions are welcome). **If you have to miss a class for any reason, send an email to the instructor before missing that class.**

Written presentations: The Midterm and Final reports need to be 5 pages minimum and focus on:

- A. Project goals, scientific and societal relevance
- B. Methodology, data and instrumentation (if any)
- C. Progress so far
- D. Problems and roadblocks, strategies to overcome them
- E. Midterm report: Future steps for this project
- F. Final report: Future steps for research after this project

Honor code: We will follow all policies of the Honor Code, which can be found at

<http://www.engin.umich.edu/students/honorcode>.

REQUIRED BOOKS

None

ASSESSMENT

This course is graded, and there will be two grades: one for this 590-52 section, and one for the 590 section corresponding to your faculty advisor, given independently. To complete this course (590-52) and get a grade, students must have:

1. Successfully delivered their progress talks
2. Successfully delivered the midterm and final project presentations
3. Written the midterm and final project reports

SCHEDULE OF LECTURES AND ASSIGNMENTS

(BLACK: LECTURE; BLUE: ASSIGNMENT)

WEEK 1

JAN 16 TUE 9:30AM - COURSE PRESENTATION

WEEK 2

JAN 22 MON 5:00PM: STUDENT PRESENTATION PDF FILES DUE — A
JAN 23 MON 9:30AM: STUDENT PROJECT PRESENTATIONS — A

WEEK 3

JAN 29 MON 5:00PM: STUDENT PRESENTATION PDF FILES DUE — B
JAN 30 TUE 9:30AM: STUDENT PROJECT PRESENTATIONS — B

WEEK 4

FEB 5 MON 5:00PM: STUDENT REPORT PDF FILES DUE — A
FEB 6 TUE 9:30AM: STUDENT PROJECT REPORTS — A

WEEK 5

FEB 12 MON 5:00PM: STUDENT REPORT PDF FILES DUE — B
FEB 13 TUE 9:30AM: STUDENT PROJECT REPORTS — B

WEEK 6

FEB 19 MON 5:00PM: STUDENT REPORT PDF FILES DUE — A
FEB 20 TUE 9:30AM: STUDENT PROJECT REPORTS — A

WEEK 7

FEB 27 TUE NO CLASS (SPRING BREAK!)

WEEK 8

MAR 4 MON 5:00PM: STUDENT REPORT PDF FILES DUE — B
MAR 5 TUE 9:30AM: STUDENT PROJECT REPORTS — B

WEEK 9

MAR 12 TUE NO CLASS (REPORT WRITING WEEK)
MAR 15 FRI 5:00PM: STUDENT WRITTEN MIDTERM PROJECT REPORT DUE

WEEK 10

MAR 18 MON 5:00PM: STUDENT REPORT PDF FILES DUE — A
MAR 19 TUE 9:30AM: STUDENT PROJECT REPORTS — A

WEEK 11

MAR 26 TUE NO CLASS (INSTRUCTOR'S TRAVEL)

WEEK 12

APR 2 TUE NO CLASS (INSTRUCTOR'S TRAVEL)

WEEK 13

APR 8 MON 5:00PM: STUDENT REPORT PDF FILES DUE — B
APR 9 TUE 9:30AM: STUDENT PROJECT REPORTS — B

WEEK 14

APR 15 MON 5:00PM: STUDENT FINAL PROJECT PRESENTATION PDF FILES DUE — A
APR 16 TUE 9:30AM: STUDENT FINAL PROJECT PRESENTATIONS — A

WEEK 15

APR 22 MON 5:00PM: STUDENT FINAL PROJECT PRESENTATION PDF FILES DUE — B
APR 23 TUE 9:30AM: STUDENT FINAL PROJECT PRESENTATIONS — B

APR 26 FRI 5:00PM: STUDENT WRITTEN FINAL PROJECT REPORT DUE

NOTES:

1 - ALL ASSIGNMENTS (TALKS AND WRITTEN REPORTS) IN PDF FORMAT