


Math 1901
Freshman Seminar
Mathematical Climate Models

Fall 2024
1:00 - 2:15 Mondays and Wednesdays
Vincent Hall 213


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course website
<https://www-users.cse.umn.edu/~mcgehee/Course/Math1901/>


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Introductions


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Freshman Seminars

Freshman Seminars are designed specifically to enhance the first-year experience, and a great way for new students to start their university career. Each seminar is taught by a faculty member and is limited to 20 students. Freshman Seminars allow first-year students to interact in a smaller setting, connect with a faculty member, and become involved in a unique area of study.


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Syllabus


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Will the grades be "on a curve"?

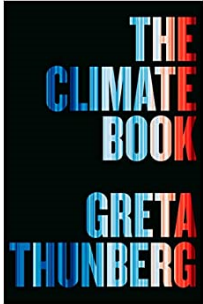
No!
 Your grade will be determined by how much you learn.
 You will get lots of feedback.


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Math 1901
Textbook



Greta Thunberg
The Climate Book
 Penguin Press 2023



<https://www.penguinrandomhouse.com/books/709837/the-climate-book-by-greta-thunberg/>


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Greta Thunberg



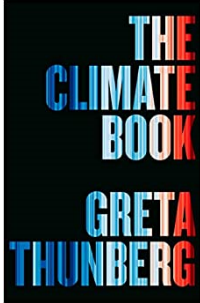
2018



2023

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*What can you do as an individual?
Educate yourself.
The moment you understand the full extent of the situation, then you will know what to do. Start study groups and share your knowledge with your friends and colleagues -- use books, articles and movies and share them widely.*

Greta Thunberg,
The Climate Book, p. 433.

<https://www.penguinrandomhouse.com/books/709837/the-climate-book-by-greta-thunberg/>

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Greta Thunberg



Greta Thunberg, Person of the Year 2019

People are suffering. People are dying. Entire ecosystems are collapsing. We are in the beginning of a mass extinction, and all you can talk about is money and fairy tales of eternal economic growth.

Greta Thunberg, UN speech, September 23, 2019

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What is the difference between weather and climate?

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What is the difference between weather and climate?


Answer the question on a Google doc.
Share the doc with mcgehee@umn.edu.

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Give examples of weather emergencies.


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Give examples of weather emergencies.

Prepare a Google slide with an image of a weather emergency.
Share the slide with mcgehee@umn.edu.




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Give an example of a climate-related problem that is not weather.




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Is an optimist or a pessimist better equipped to help solve the climate crisis?




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Is an optimist or a pessimist better equipped to help solve the climate crisis?

Is there something in between?



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