

# GEO 325M/GEO 398M

## Numerical Modeling for Geoscientists

Spring 2022

(27425/27765)

# How many students?

Graduate undergraduate sections :

GEO 325M: 0 + GEO 398M: 7 = Total: 7

Background:

Geo	4
Engineering	1
Maths	2

# Logistics 1

- **Class time:** T/Th 9:30-11:00 am
- **Zoom room:** ID 980 6132 7017 (Passw.: Courant)
- **Course websites:**  
Canvas: <https://utexas.instructure.com/courses/1326622>  
Course website: [https://mhesse.github.io/numerical\\_modeling/](https://mhesse.github.io/numerical_modeling/)  
Piazza: <https://piazza.com/utexas/spring2022/geo325m398m/home>  
Matlab Grader: <https://grader.mathworks.com/courses/67410-geo-325m-398m-numerical-modeling-2022>
- Pre-requisites: Mathematics 427J/427L  
Differential equations with linear algebra  
(Mathematics 408D: Multivariable calculus)

# Logistics 2:

- Instructor: Marc Hesse  
email: [mhesse@jsg.utexas.edu](mailto:mhesse@jsg.utexas.edu)

office hours: TBD

Please fill out poll for office hours

<https://www.when2meet.com/?10741547-Ta4Mj>

# Grading

- Regular homeworks.
- No exams.
- No extra credit shenanigans.

Total grade =  
90% HW + 10% Participation



# Grading scheme

		77% - 80%	C+
94% - 100%	A	74% - 77%	C
90% - 94%	A-	70% - 74%	C-
87% - 90%	B+	67% - 70%	D+
84% - 87%	B	64% - 67%	D
80% - 84%	B-	60% - 64%	D-
0% – 60% F			

# Student feedback I

## Comments

In many ways your written comments can be the most important part of your evaluation of the course and instructor. In the space provided, please indicate what aspects of the course content and instruction were best, how the instructor could improve his or her teaching, and how the content of the course might be improved. The instructor will receive this form after the semester is over.

I strongly disliked that you would change the due dates for the HW assignments at the LAST minute. I don't think its fair for those who turn it in on time.

You may continue comments on the other side.

# Student feedback II

## Comments

In many ways your written comments can be the most important part of your evaluation of the course and instructor. In the space provided, please indicate what aspects of the course content and instruction were best, how the instructor could improve his or her teaching, and how the content of the course might be improved. The instructor will receive this form after the semester is over.

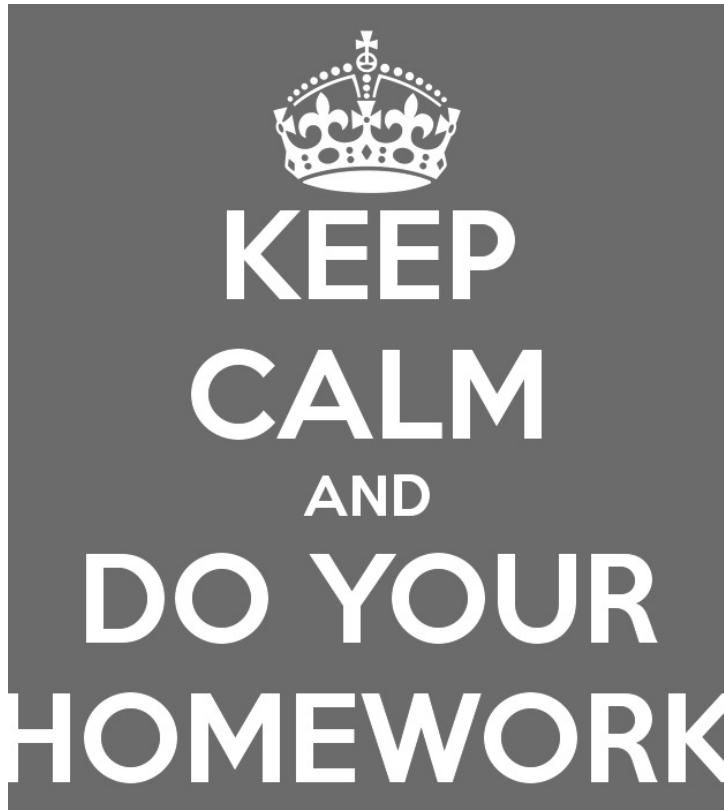
Lectures were taught very well - liked that everything was written out instead of just standing at the front talking. My only complaint is in regards to homework-due dates were pushed back if too many students complained - he gave extra 'free' days while the students who did it on time had already submitted it, not giving them a chance to have/spend extra time

You may continue comments on the other side.

# Student feedback III

While you of course have no obligation to do so, I really do think the way you evaluated this class was very unfair. You constantly **extended homework's at the last minute**, giving those who would not have turned it in on time a second chance. **You only took off 10% for late assignments** and dropped the lowest homework grade. This just rewards those who did not complete their assignments on time while not rewarding those of us who did.

# No gratuitous homework extensions



- Due Thursday 9:30am
- Submitted on Canvas
  - single pdf
  - zip-file for Matlab files
- Late penalty is 20%

You can discuss the homework, but you have to write up the answers by yourself. Do not copy and paste code from other people.

# PROGRAMMING LANGUAGE IS MATLAB

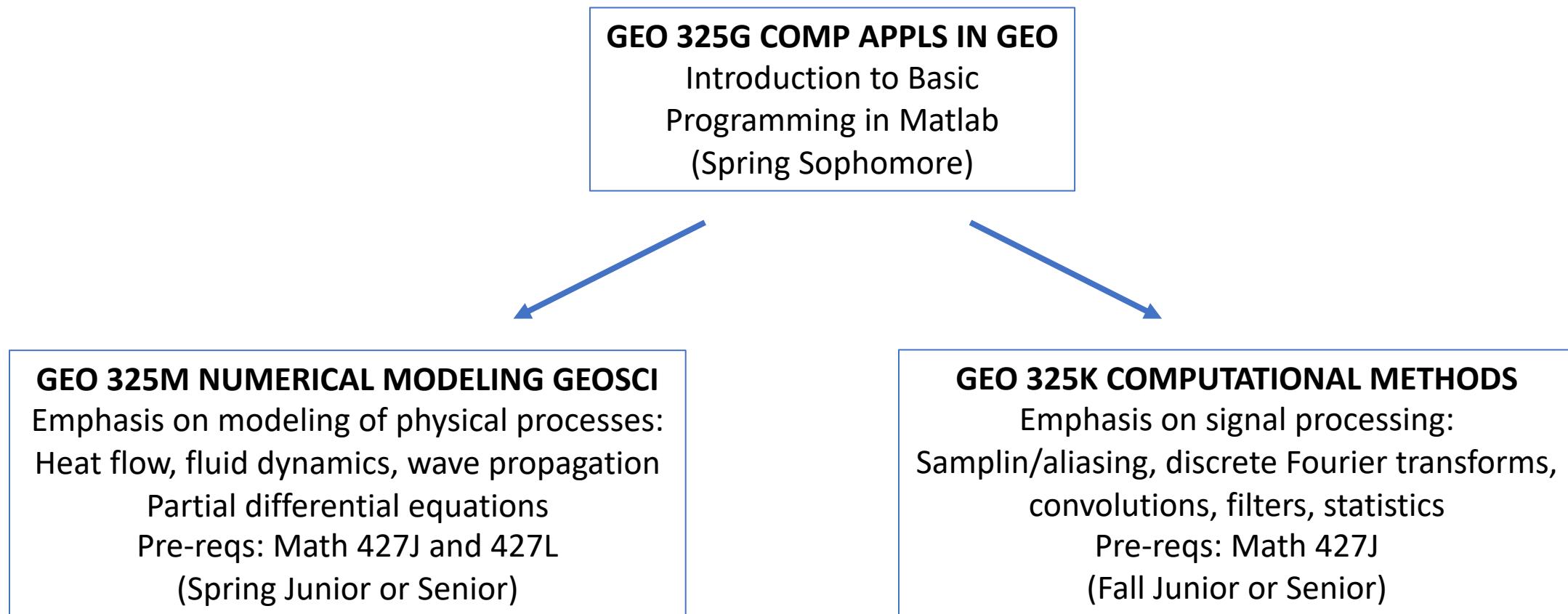


Please download the newest  
version of Matlab here:  
[Click here for Matlab](#)

Computer rooms accessible to you:  
JGB 3.326, JGB 4.202, EPS 2.103

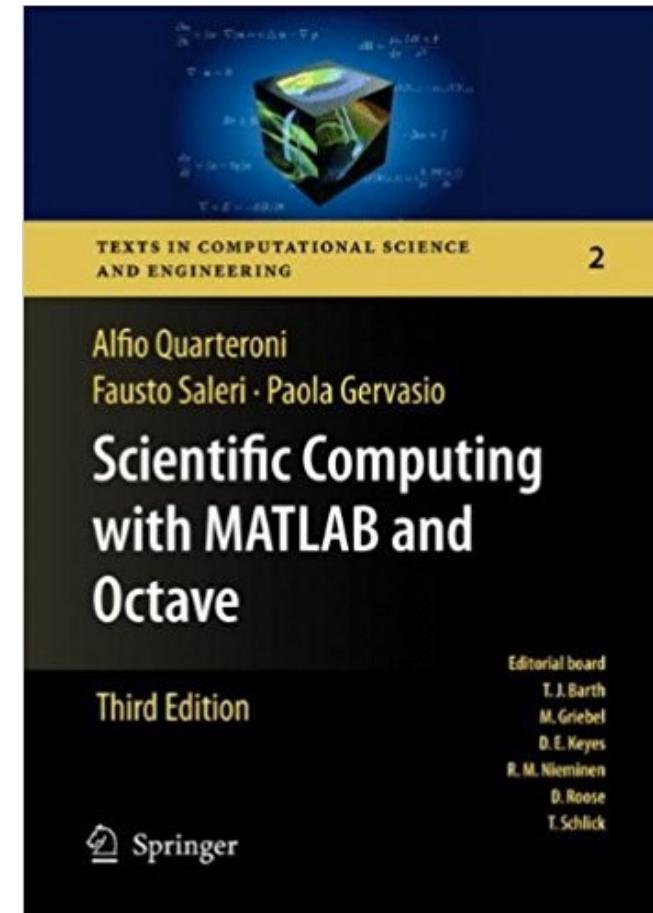
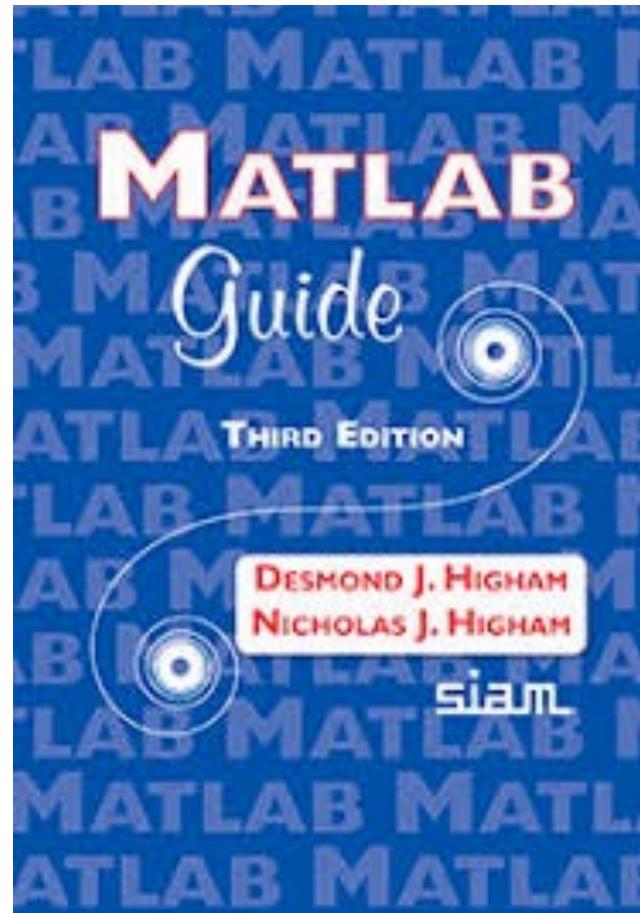
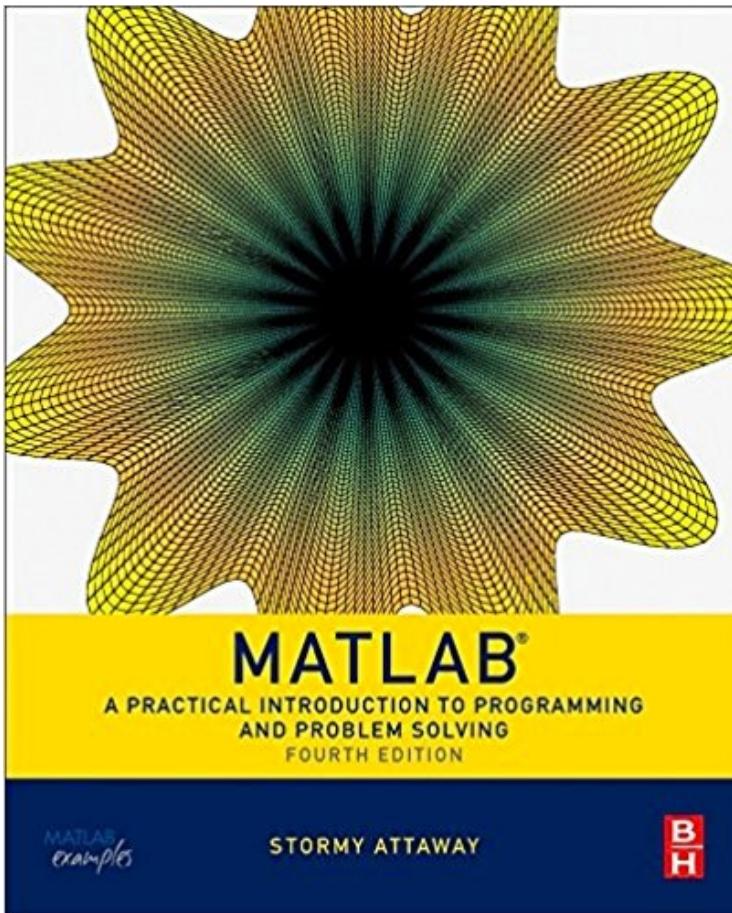
What is your Matlab background?  
Confident:  
Occasional:  
Never used it:

# Overview of Geophysics Computing sequence

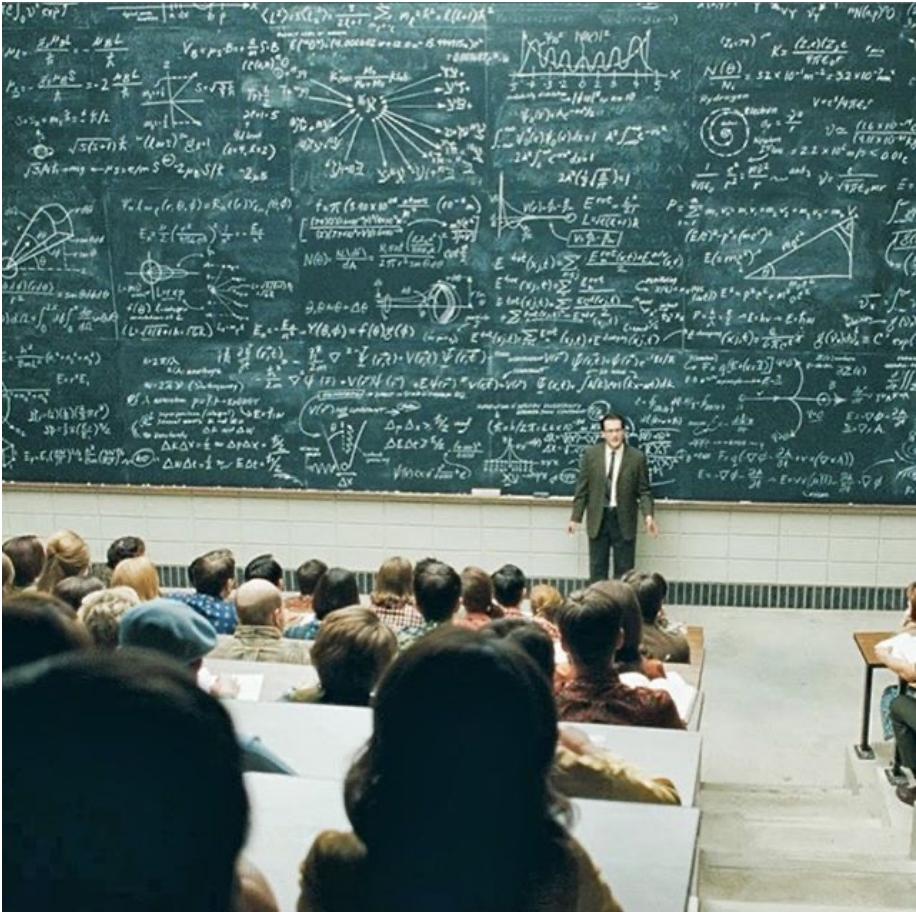


# Textbooks

I am not following a textbook, but the following may be useful



# Vintage lecturing style



For physics and math parts I will teach on the board, so it will be useful to have paper, pencil and eraser!

For Matlab we will use the new Live Script format. This is why you need the newest Matlab version.