PALEOCLIMATOLOGY
GEO 332 001
BIO 417 003
GEO 532 001
Fall 2022

Instructor: Dr. Stacey Verardo
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Class hours: Tuesdays and Thursdays, 9:00–10:15am
Office Hour: Thursdays, Noon -1pm

Goals and Objectives: This course will explore the natural evolution of Earth's climate with the goal of providing a baseline for understanding present climate variability and future trends through increased knowledge of the physical, chemical, and biological processes that influence climate over the long-term.

Text: Earth’s Climate, Past and Future, Ruddiman, 2011 3rd ed

To be successful in this (and any) class
1) Keep up with the textbook readings. Do NOT binge study the night before the exams!
2) Attend EACH class.
3) Rewrite/retype your notes after EACH class. If something needs clarification, contact me!
4) Each hour in class should equal out to about an hour studying away from the classroom

General information and Laboratory Policies:
• You MUST abide by the University COVID policy https://www2.gmu.edu/safe-return-campus This means Mason will require all students, faculty, and staff to get a COVID-19 vaccine to work, study, and live on campus when fall semester as well as using of masks in public spaces.

LECTURES

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<tr>
<th>Dates</th>
<th>Lecture Topic</th>
<th>Chapters</th>
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<tr>
<td>August 23</td>
<td>Overview of Climate Science</td>
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<tr>
<td>August 25</td>
<td>Earth’s Climate System Today</td>
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<td>August 30</td>
<td>Climate Archives</td>
<td>3</td>
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<td>September 1</td>
<td>Carbon Dioxide and Phosphorous</td>
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In addition, there will be readings from current material

COURSE INFORMATION
This is a three (3) credit course.

Grading:
• Exams will be ONLINE. They will be held during the regularly scheduled class time.
• Three equally weighted exams. Make up exams will NOT be given.
• The undergraduate and graduate exams will NOT be the same. All exams will emphasize material presented in the lectures and textbook readings.
• Exams are closed book.
• For the graduate level students (GEOL 532) –EACH of you will work on ONE 20-minute presentation (~30 slides) relating to one of the text chapters, OR a related topic.
• Presentation topic is due by Thursday, September 9, 2021

Attendance at all scheduled lecture classes is required to achieve the requisite level of knowledge in this course.
Integrity: GMU has an Honor Code with guidelines regarding academic integrity; please see http://oai.gmu.edu for more information.

Disability: If you are a student with a disability and you need academic accommodations, please see me and also contact the Office of Disability Services (ODS) http://ods.gmu.edu. All academic accommodations must be arranged through the ODS. You will need to contact this office prior to any special accommodation.

Diversity: Diversity is a core value at GMU; please see http://ctfe.gmu.edu/professional-development/mason-diversity-statement for more information.

Privacy: Students must use their MasonLive email account to receive important University information, including messages related to this class. Please see http://masonlive.gmu.edu for more information.