



**HISTORICAL GEOLOGY**  
**GEOLOGY 102, section 001**  
Spring, 2021

**Instructor:** Dr. Stacey Verardo  
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**Office Hour:** Thursdays, 10:30am-11:30am

**Class hours:** Tuesdays and Thursdays 1:30-2:45pm

**Classroom:** THIS IS A SYNCHRONOUS ONLINE CLASS

During this semester, you will:

- Learn to understand how scientific inquiry is based on investigation of evidence from the natural world, and that scientific knowledge and understanding evolves based on new evidence, and differs from personal and cultural belief
- Recognize and articulate the relationship between the natural sciences and society and the application of science to societal challenges (e.g., health, conversation, sustainability, energy, natural disasters, etc.)
- Evaluate scientific information (i.e., distinguish primary and secondary sources, assess credibility and validity of information)
- Participate in scientific inquiry and communicate the elements of the process, including:
  - Making careful and systematic observations
  - Developing and testing a hypothesis
  - Analyzing evidence
  - Interpreting results

**Lecture Textbook:** The Earth through Time, Levin, *11<sup>th</sup> ed*, Wiley  
You may get a hard copy or an electronic copy of the book

**IF you have enrolled in GEOL 104**, you'll need to purchase the Geology 104 lab workbook, *Verardo & Mattiotti-Kysar*, Kendall Hunt, *5<sup>th</sup> ed* online version

You may get a hard copy or an electronic copy of the workbook

<https://he.kendallhunt.com/product/historical-geology>

## LECTURES

Dates	Lecture Topic	Chapters
January 26	Introduction/current events	1
January 28	Principles & Time	2,3
February 2	Rocks & Minerals	4
February 4	Sedimentary Archives	5
February 9	Plate Tectonics	7
February 11	<b>Geologic time Scale Quiz &amp; Review</b>	
February 16	<b>EXAM</b>	
February 18	Life on Earth	6
February 23	Life on Earth	
February 25	Archean	8
March 2	Proterozoic	9
March 4	Early Paleozoic History	10
March 9	Late Paleozoic	11
March 11	Paleozoic	
March 16	Welcome to online and Paleozoic Life	12
March 18	Paleozoic Life	12
March 23	Review	
March 25	<b>EXAM</b>	
March 30	Mesozoic Tectonics	13
April 1	Middle Mesozoic	14
April 6	Late Mesozoic	
April 8	Cenozoic Tectonics	15
April 13	Cenozoic Life	16
April 15	Human Evolution	17
April 20	Pleistocene	
April 22	Climate Change and Humans	
April 27	Review	
April 29	Wrap up	
May 4	<b>FINAL EXAM 1:30-4:00pm</b>	

## COURSE INFORMATION

**Grading:** There will be three (3). Each will be equally weighted

You **MUST** download the LockDown Browser from My Mason.

Instructions can be found in the Respondus Tools module located in the Courses tab on the myMason website.

If students take a test in the Testing Center, they do not need to download the LockDown Browser as it is already installed.

Make up exams will NOT be given.

All exams will emphasize material presented in the lectures.

Students are responsible for all material in the textbook readings.

Exams are closed book.

The final grade will be determined by lecture exams, laboratory exams, assignments and a field trip.

Attendance at all scheduled lecture and laboratory sections is required to achieve the requisite level of knowledge in this course.

### **GMU POLICY GUIDELINES**

These university and class policies are important to understand:

- *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) at 703-993-2474 or <http://ods.gmu.edu>. All academic accommodations must be arranged through the ODS.*
- *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.*
- *Electronics: Please be respectful of our time together and do not engage in activities that are unrelated to class. Cell phones may be left on but muted and used for emergencies only.*