HISTORICAL GEOLOGY

Geology 104
George Mason University
Summer 2021
Section: 2C1

Meeting time: TWT 10:30am-1:10pm
Instructor: Abby Glass
E-mail: aglass5@masonlive.gmu.edu
Office Hours: Tuesdays & Wednesdays 9:30am-10:30am
Office Hours Link:
https://gmu.zoom.us/j/91988467577?pwd=UlZId2d0QnhkdG45NGRvUWo3eWZuUT09

Mandatory Lab Material:

- Historical Geology Workbook, *Verardo and Kysar-Mattietti*, 5th edition, 2018, ISBN: 9781792430756
  https://he.kendallhunt.com/product/historical-geology-workbook

  Choose either e-book **or** printed copy:

  If the student purchases the e-book, they will receive from the publisher **TWO codes:** One for access to the online interactive PDF version on KendallHunt through which lab assignments are submitted **and** one for the online VitalSource read only lab book. Both are necessary to complete the course.

  If the student purchases the printed hard copy, they may receive **ONE code** for access to the online interactive PDF version on KendallHunt through which lab assignments are submitted **OR** the student may choose to complete labs by hand in the workbook and submit images of the assigned lab pages.
- Lab fees have been reduced to $30.00 (because of COVID-19). You must purchase your own lab set of fossils from any of these providers: NASCO, Home science tools, or Amazon.

Links for the fossil set:
NASCO https://www.enasco.com/p/Advanced-Fossil-Collection+SB10963

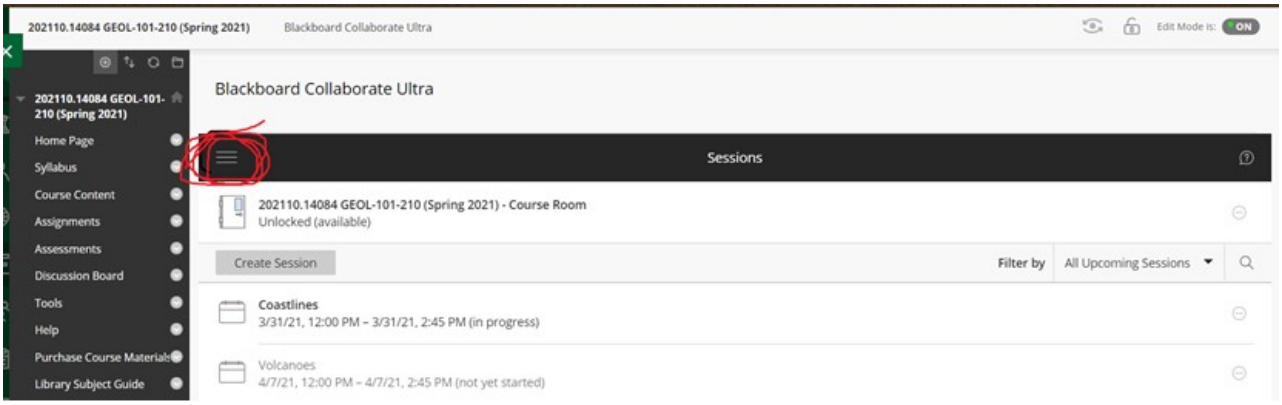
Home Science Tools; https://www.homesciencetools.com/product/fossil-deluxe-collection-30-specimens/

School Specialty https://www.schoolspecialty.com/scott-resources-advanced-fossil-collection-set-of-30-specimens-563924

Amazon https://www.amazon.com/American-Educational-Advanced-Fossil-Collection/dp/B005QDTDZO/ref=sr_1_25?dchild=1&keywords=fossil+collection&qid=1588952825&sr=8-25

General information and lab policies

- All GEOL 102 lab sections are offered EXCLUSIVELY ONLINE, in SYNCHRONOUS mode through Blackboard Collaborate only. Student help of blackboard collaborate can be found at: https://its.gmu.edu/article-categories/tl-s/
- It is the student's responsibility to verify his/her enrollment status in this lab section.
- The laboratory course consists of 11 lab sessions (see attached table with dates and lab topics). Lab session is scheduled for the duration of 2 hours 40 minutes. Expect to spend that amount of time in lab!
- There will be TWO exams to test your requisite knowledge of the material.
- Attendance to the lab is mandatory. Failure to show up to a lab session will result in losing two points from your participation grade. Exams will be based on the lab material.
- Missing a lab can be detrimental to your overall lab grade as you will not be taught the information that will be on the exams.
- Recordings of lab lectures will be available to you on Blackboard Collaborate Ultra under the "menu" tab, circled in red below. You are strongly encouraged to use these recordings to your advantage if you missed a session or if you missed some information the first time.



- All lab exercises are due by 11:59pm on the day of the lab. Failure to turn in the lab by the due date will result in losing one point per day late until the lab is turned in.
- Each lab is worth 15 points.
- All lab exams will require the use of lockdown browser, but a webcam will **not** be required. It is the student's responsibility to make sure lockdown browser is working on their computer and to notify the lab instructor of any issues prior to the scheduled exam.
- Students are encouraged to participate actively in the lab activities and to collaborate at the solution of the problems presented during the session.
- Students take responsibility for their actions during GEOL 104 lab time. The Blackboard Collaborate Classroom is a GMU space. Students participating are bound by all University Policies and uphold the GMU Honor Code.
- The lab fulfills the requirements for the GMU Core courses in the natural science, specifically, learning outcome 5: students will participate in scientific inquiry and communicate the elements of the process, including: a) making careful and systematic observations, b) developing and testing a hypothesis, c) analyzing evidence, and d) Interpreting results.

- The Geology 104 lab will generate its own grade and may be taken alongside courses such as GEOL 102, GEOL 134 and some Biology courses.
- **Grading scale**

A+	97-100
A	93-96
A-	90-92
B+	86-89
B	83-85
B-	80-82
C+	76-79
C	73-75
C-	70-72
D	60-69
F	< 60

- Lab grading distribution is as follows: Exams=50%, Lab Assignments=42%, Participation= 8%
- Students are encouraged to work together but are expected to submit their own work in lab. There will be **NO** copying of another student's labs. If working in groups, having a google doc and submitting the same document for the group is **NOT** acceptable. If two or more students submit labs that are identical, they will each lose half the points for that lab for the first offense. Any second offense will result in a zero on that lab.

All GMU Policies apply to this course:

- Academic Integrity It is expected that students adhere to the George Mason University Honor Code as it relates to integrity regarding coursework and grades. The Honor Code reads as follows: "Student members of the George Mason University community pledge not to cheat, plagiarize, steal and/or lie in matters related to academic work." More information about the Honor Code, including definit ions of cheating, lying, and plagiarism, can be found at the Office of Academic Integrity website at pdf of the honor code

- Disability Accommodation. If you need special accommodations/arrangement for the class an d the exams, you must first file with the Office of Disability Services(ext: 993-2474)

- Diversity and Inclusion: Faculty, staff and students in this course welcome and value individuals and their differences including race, economic status, gender expression and identity, sex, sexual orientation, ethnicity, national origin, first language, religion, age, and disability.

- As a faculty member I am required to report all disclosures of sexual assault, interpersonal violence, and stalking to Mason's Title IX Coordinator per university policy 1412. If you wish to speak with someone confidentially, please contact the Student Support and Advocacy Center (703-380-1434) or Counseling and Psychological Services (703-993-2380) and Mason's Title IX Coordinator (703-993-8730; titleix@gmu.edu)

- Privacy: Student privacy is governed by the Family Educational Rights and Privacy Act (FERPA) and is an essential aspect of this course. Students must use their MasonLive email account to receive important University information, including communications related to this class. In accordance with FERPA regulation, I will not respond to messages sent from or send messages to a non-Mason email address.

GEOL104 LABORATORY calendar – Summer 2021

Lab Session	Topic *	Date
1	Sedimentary rocks, sedimentary environments and structures	6/22
2	Sediments under the microscope - microfossils	6/23
3	Stratigraphy rules, unconformities and correlations – Relative dating	6/24
4	Radiometric dating and the geologic time scale	6/29
5	Lithostratigraphic Correlations -The geologic time scale	6/30
6	**Exam 1**	**7/1**
7	Modes of fossilization Reef builders: Sponges, Corals, Bryozoans and Brachiopods	7/6
8	Mollusks, Arthropods and Echinoderms	7/7
9	Pollen in the fossil record	7/8
10	Geology of Virginia and Fairfax	7/13
11	Dinosaur Biomechanics	7/14
12	Evolution in the fossil record – Human evolution	7/15
13	**Exam 2**	**7/20**

*unforeseen circumstances might result in a change/rearrangement of the lab topics.