Fall, 2023

Sections 13272 (Section 13H4)

Meeting Time: Lecture meets Tuesdays per 4-5 (Wm202) and Lab meets Th per 4-5 (Class # 13524) in Wm 101.

Contact:

Name:	Office:	Email:	Phone :	Office Hours:
Dr. Matthew Smith	Wm269	mcsmith@ufl.edu Zoom join URL: https://ufl.zoom.us/j/4902865705	352- 392- 2106	MWF 12:30-1:30; T1:30-2:30 or by appt.
Teaching Assistant				
Hee Jun Cheong	Wm374	heejuncheong@ufl.edu		ТВА

Office Hours: Scheduled office hours will be held in Wm269 (my office) and via zoom (zoom link below. TA's hours in the offices/zoom links listed above. Hours are on a first come, first served basis (zoom waiting room function enabled). If you are unable to meet during scheduled hours, individual meetings can be set up via email. However, you should NOT HESITATE to seek us out for help when you need it (during office hours or otherwise). Learning to identify and interpret rocks and minerals is an experiential skill that is developed over time. We understand and anticipate that you will need help in developing these skills.

Course Website: Maintained in Canvas. Accessed via http://elearning.ufl.edu

Course Communications: For any class-related questions, students should use the *Course Questions Discussion Forum*. This will benefit all students that might have similar questions. The instructor will regularly answer all questions and participate in this forum. Students should check if the question they have has already been answered in the forum before posting. Private questions should be sent to the instructor through the course management system, or to her personal e-mail address (this would include questions about grades, late work, etc.). Communications/questions should be responded to within 24 hours during weekdays and 48 hours on weekends.

Required Course Materials:

- 1. Earth Materials: Introduction to Mineralogy and Petrology by Klein and Philpotts 2nd Ed (ISBN: 978-1-316-60885-2)
- 2. Hand Lens, 10X Triplet Loupe (many options available, just be sure it's a decent one. More info is provided on the course canvas page.)

Recommended Course Materials: You will have need of additional reference materials in the lab, however, I provide several copies of relevant texts in the lab (they must stay there), so no additional references are required. You may desire to have your own references in which case I recommend an optical mineralogy textbook (I prefer Nesse, but there are several) or other petrography reference like *Minerals in Thin Section* by Perkins and Henke. Additionally, many online references exist and links to a select subset will be provided on the course webpage.

Course Fees: \$58.98 additional fee (total) for Materials and Supplies and Equipment Use and Maintenance.

Course Description and Objectives: The goal of this course is for students to gain familiarity with the most common minerals and rocks and their identification, classification, association and environments of formation on Earth. The course is intended to provide a fundamental understanding of rocks and minerals in preparation for field work and further studies in sedimentology and petrology. Note that this course does not go into great detail regarding either water or soils (both important earth materials) which are the subjects of other dedicated coursework. Students that successfully complete this course should be able to:

- 1. Recall the most common rock-forming minerals, their chemical formulae and physical properties
- 2. Understand how composition and structure control mineral physical properties and understand the criteria by which minerals and rocks are classified.
- 3. Identify, describe and classify the most common rock-forming minerals in hand sample and thin section and associate these minerals with their common rock occurrences
- 4. Identify, describe and classify the most common igneous, sedimentary and metamorphic rocks
- 5. Associate rock characteristics (textures, composition) with rock-forming processes interpreted to be responsible for their occurrence.
- 6. Associate different rock-forming environments on Earth with the rock associations that have been observed to occur in each.

Course Design:

Your instructor will be using a Team Based Learning approach to teach this course. During the first class you will be placed in small teams that will be permanent for the semester. Course content will be broken into topical "modules" that comprise 1-2 chapters in the textbook. Each module has assigned readings and will start with an assigned pre-reading and/or video lecture that must be completed prior to the first day of that module. The first day of the module will

consist of an Individual Readiness Assurance Test (I-RAT) and Team Readiness Assurance Test (T-RAT) based on the reading. These tests will be short and multiple-choice. Length will vary with each module from 5-15 questions. Please see the class schedule. The same test will be completed individually and as a team. Pre-readings are designed to provide you with the base knowledge to understand each topic. Class activities will then focus on conceptual understanding and application of the content through discussion and teamwork. Aspects of the application activities will be handed in for individual and team grading. All teamwork will be completed in class except in cases where the teams may opt to meet outside of class.

Class Participation:

Class participation is very important – you should be actively engaged in answering questions and listening to other answers given. You are also expected to ask questions during class about topics you do not understand. There will always be several other students who will benefit from you asking a question. The more engaged you are, the more you will get out of this class. There will be team-based class activities and peer review will form a portion of your grade. With regards to class discussions, this is a **judgment free-zone** where getting answers wrong is equally, if not more valuable, to your learning than getting answers right.

Peer Review:

There will be 2-3 periods of anonymous peer evaluation that will form part of your "quiz" grade. Each individual will evaluate the contributions of all the other team members by assigning an average of 10 points to the other team members. For example, a member of a 6-person team will have 50 points to distribute to the other members of their team. Limitations are that you must differentiate between your point assignments. You must give at least one score of 11 or higher (max. 15) and at least one score of 9 or lower. Individual peer review scores will be the average of points awarded by all the other team members. Your peer review score will be used to moderate your team RAT score. For example, if you were awarded 10, 10, 11, 9, 9 by your 5 team mates your average score would be 49/5 = 9.8 or 98%. As long as you score 95% or higher on peer review your team RAT score will not be affected. If you score less than 95% on peer review your team RAT average will be reduced by 1% for each percent below 95% on your peer review. Eg. If your peer review was a 90% your TRAT average would be multiplied by 0.95, if the peer review was 85% the TRAT average would be multiplied by 0.9, etc.

General education: GLY3202C, Earth Materials is NOT a GenEd physical science (P) course. This course is an upper division course intended for students majoring (or getting a minor) in the Dept. of Geological Sciences or other closely related fields.

Prerequisite Knowledge and Skills: This course presumes that students have had at least one basic introductory geology course that addressed the subject of Earth materials (particularly

minerals and rocks). Some review materials are provided to refresh students on the basics that are addressed in courses of this type.

Attendance and Make-Up Policy: Requirements for class attendance and makeup exams, assignments, and other work in this course are consistent with UF attendance policy which can be found at: https://catalog.ufl.edu/UGRD/academic-regulations/attendance-policies/.

Attendance is required and although it may not be recorded on a daily basis missing class can be detrimental to your progress and grades. In lab you are expected to stay for the full lab period (~2 hr lab) unless you have a legitimate reason for leaving early and you discuss it with your TA in advance. Labs take a substantial amount of time outside of the scheduled lab period to complete, so it is expected that you will make the most of the in-class time that is available.

All absences are treated the same in that it is the responsibility of the student to come during office hours (or email for an appointment) in order to discuss recuperation of material missed and the completion of missed assignments. Missed exams and quizzes can only be made up with an excused absence. Missing a quiz due to an unexcused absence will count towards your drop (See below). Similarly, missing a lab deadline without an excused absence can induce a percentage deduction (See below). An exemplary list of generally acceptable reasons for an excused absence are detailed in the UF attendance policy linked above. Since absences are circumstantial, determination of what beyond this list constitutes an excused absence is subject to the discretion of the instructor. In general, notifying the instructor about potential conflicts as soon as possible can mitigate problems and allow for planned recuperation. Medical notes, receipts, or any other evidence of an emergency can help in a similar manner.

Grading: Information regarding UF grading policies and grape point assignment can be found at: https://catalog.ufl.edu/UGRD/academic-regulations/grades-grading-policies/

Breakdown of grade distribution comprising your final semester grade is as follows: Labs and Take Home Assignments 30%, Quizzes 15% (IRAT-4%, TRAT6% and lab quizzes 5%), Low lab practical 10%, High lab practical 15%, hourly exams 30% (3 at 10% each).

$$A=93\%$$
, $A=90-92\%$, $B=87-89\%$, $B=83-86\%$, $B=80-82\%$, $C+=77-79\%$, $C=73-76$ $C=70-72$ $D+=67-69\%$, $D=63-66\%$, $D=60-62\%$, $E=<59\%$

Labs/Take Home Assignments: Labs are issued on Thursdays and are due the following Thursday unless otherwise specified in class. Take home assignments can be assigned on any meeting day and will have due dates specified in the instructions. Labs comprise much of the classroom experience and require a lot of time both inside and outside of class to complete. Time management is imperative, especially when it comes time to use microscopes. Several classes utilize this lab (and therefor the scope to which you are assigned), so if necessity call for it, specific scheduling/sign up for usage will be implemented for your usage outside of normal class hours.

Late Work Submission Policy:

Any late individual assignments will incur a late penalty. I will accept late work up to five working days (M-F) after the original deadline with a deduction of 10% (of the total points) for each working day i.e. if your work is graded at 90% and it is 3 working days late you will received a grade of 60%. No penalties are accrued on the weekend. After this, NO late work will be accepted. If you have a written excuse from a doctor (for illness) or family member (for a family emergency) AND let the instructor know within a week of the assignment being due, you will not be penalized for late work as long as it is handed in by a re-scheduled date. If you have a preexisting conflict with one of the scheduled exams, an alternative meeting with the instructor must be made at least one week prior to the exam. In case of sudden illness or family emergency, please notify the instructor as soon as possible (within no more than 1 week). Appropriate documentation may be required. No make-ups will be permitted for other, unexcused absences.

Assessments: You will have 3 hourly assessments in lecture and two lab practicals. Dates for the assessments are detailed in the course schedule. Weighting for each is described above. Quizzes occur periodically during class meetings or online via canvas and during lab meetings. Quizzes can be written or practical. All quizzes are announced in advance and short in nature. You are allowed two (2) drops for your lowest scoring quizzes. One from the IRAT category and one from lab.

Important Dates: 9/26-Hourly Exam 1, 10/19-Midterm Lab Practical, 10/31-Hourly Exam 2, 12/5-Hourly Exam 3, Final Lab Practical -TBA during Final Exam Week- scheduled by section meeting time according to the posted final exam schedule.

UF POLICIES:

Disclaimer regarding recording of live sessions:

Students are allowed to record video or audio of class lectures. However, the purposes for which these recordings may be used are strictly controlled. The only allowable purposes are (1) for personal educational use, (2) in connection with a complaint to the university, or (3) as evidence in, or in preparation for, a criminal or civil proceeding. All other purposes are prohibited. Specifically, students may not publish recorded lectures without the written consent of the instructor.

A "class lecture" is an educational presentation intended to inform or teach enrolled students about a particular subject, including any instructor-led discussions that form part of the presentation, and delivered by any instructor hired or appointed by the University, or by a guest instructor, as part of a University of Florida course. A class lecture does not include lab sessions, student presentations, clinical presentations such as patient history, academic exercises involving solely student participation, assessments (quizzes, tests, exams), field trips, private conversations between students in the class or between a student and the faculty or lecturer during a class session.

Publication without permission of the instructor is prohibited. To "publish" means to share, transmit, circulate, distribute, or provide access to a recording, regardless of format or medium, to another person (or persons), including but not limited to another student within the same class section. Additionally, a recording, or transcript of a recording, is considered published if it is posted on or

uploaded to, in whole or in part, any media platform, including but not limited to social media, book, magazine, newspaper, leaflet, or third party note/tutoring services. A student who publishes a recording without written consent may be subject to a civil cause of action instituted by a person injured by the publication and/or discipline under UF Regulation 4.040 Student

Note: In the event of Zoom meetings (for example, an evening review session), these may be audio visually recorded by your instructor for students in the class to refer back and for enrolled students who are unable to attend live. Students who participate with their camera engaged or utilize a profile image are agreeing to have their video or image recorded. If you are unwilling to consent to have your profile or video image recorded, be sure to keep your camera off and do not use a profile image. Likewise, students who un-mute during class and participate orally are agreeing to have their voices recorded. If you are not willing to consent to have your voice recorded during class, you will need to keep your mute button activated and communicate exclusively using the "chat" feature, which allows students to type questions and comments live. The chat will not be recorded or shared.

University Policy on Accommodating Students with Disabilities: Students with disabilities who experience learning barriers and would like to request academic accommodations should connect with the disability Resource Center. Click here to get started with the Disability Resource Center. It is important for students to share their accommodation letter with their instructor and discuss their access needs, as early as possible in the semester. You must submit this documentation prior to submitting assignments or taking the quizzes or exams. Accommodations are not retroactive; therefore, students should contact the office as soon as possible in the term for which they are seeking accommodations.

Student Evaluation of Course and Instructor: Students are expected to provide professional and respectful feedback on the quality of instruction in this course by completing course evaluations online via GatorEvals. Guidance on how to give feedback in a professional and respectful manner is available at gatorevals.aa.ufl.edu/students/. Students will be notified when the evaluation period opens, and can complete evaluations through the email they receive from GatorEvals, in their Canvas course menu under GatorEvals, or via ufl.bluera.com/ufl/. Summaries of course evaluation results are available to students at gatorevals.aa.ufl.edu/public-results/.

Academic Honesty: By enrolling in this course, you agree to the University's Honor Code: https://sccr.dso.ufl.edu/policies/student-honor-code-student-conduct-code/

UF students are bound by The Honor Pledge which states, "We, the members of the University of Florida community, pledge to hold ourselves and our peers to the highest standards of honor and integrity by abiding by the Honor Code. On all work submitted for credit by students at the University of Florida, the following pledge is either required or implied: "On my honor, I have neither given nor received unauthorized aid in doing this assignment." The Conduct Code specifies a number of behaviors that are in violation of this code and the possible sanctions.

Click <u>here</u> to read the Conduct Code. If you have any questions or concerns, please consult with the instructor or TAs in this class.

Failure to comply with this code will result in a failing (E) grade in this course. If you are unsure if what you are doing would constitute breaking the code, contact the instructor. For example, working as a group in lab is a good way to bounce ideas and learn from each other. However, each student still needs to turn in their own individual work and come to their own justifiable conclusions.

NETIQUETTE: COMMUNICATION COURTESY: All members of the class are expected to follow rules of common courtesy in all email messages, threaded discussions and chats. http://teach.ufl.edu/docs/NetiquetteGuideforOnlineCourses.pdf

UF ONLINE HANDBOOK: Additional information can be found on http://handbook.ufonline.ufl.edu/

Campus Resources:

Health and Wellness

U Matter, We Care: If you or someone you know is in distress, please contact <u>umatter@ufl.edu</u>, 352-392-1575, or visit <u>U Matter, We Care website</u> to refer or report aconcern and a team member will reach out to the student in distress.

Counseling and Wellness Center: <u>Visit the Counseling and Wellness Center website</u> or call 352-392-1575 for information on crisis services as well as non-crisis services.

Student Health Care Center: Call 352-392-1161 for 24/7 information to help you find the care you need, or visit the Student Health Care Center website.

University Police Department: <u>Visit UF Police Department website</u> orcall 352-392-1111 (or 9-1-1 for emergencies).

UF Health Shands Emergency Room / Trauma Center: For immediate medical care call352-733-0111 or go to the emergency room at 1515 SW Archer Road,

Gainesville, FL 32608; Visit the UF Health Emergency Room and Trauma Center website.

Academic Resources

E-learning technical support: Contact the <u>UF Computing Help Desk</u> at 352-392-4357 orvia e-mail at helpdesk@ufl.edu.

<u>Career Connections Center</u>: Reitz Union Suite 1300, 352-392-1601. Career assistanceand counseling services.

<u>Library Support</u>: Various ways to receive assistance with respect to using the libraries or finding resources.

<u>Teaching Center</u>: Broward Hall, 352-392-2010 or to make an appointment 352-392-6420. General study skills and tutoring.

<u>Writing Studio</u>: 2215 Turlington Hall, 352-846-1138. Help brainstorming, formatting, and writing papers.

Student Complaints On-Campus: <u>Visit the Student Honor Code and Student Conduct</u> Code webpage for more information.

On-Line Students Complaints: View the Distance Learning Student Complaint Process.

Getting Help:

For issues with technical difficulties for E-learning, please contact the UF Help Desk at:

- helpdesk@ufl.edu
- (352) 392-HELP select option 2
- http://helpdesk.ufl.edu/

Any requests for make-ups due to technical issues MUST be accompanied by the ticket number received from The Help Desk when the problem was reported to them. The ticket number will document the time and date of the problem. You MUST e-mail your instructor within 24 hours of the technical difficulty if you wish to request a make-up.

Other resources are available at http://www.distance.ufl.edu/getting-help for:

- Counseling and Wellness resources
- Disability resources
- Resources for handling student concerns and complaints
- Library Help Desk support