

Principles of Mineralogy Laboratory GLY3200C

Fall 2021 Syllabus

(Williamson Hall, Lab 101)

Class Section # 13820 (3012): Monday 3:00 p.m.–4:55 p.m.

Class Section # 13821 (5117): Tuesday 12:50 p.m.–2:45 p.m.

Teaching Assistants and Office Hours:

- Meredith Miska, meredith.miska@ufl.edu, Office Hours: TBA at first lab
- Peng Jiang, pengjiang@ufl.edu, Office Hours: TBA at first lab

Course Materials: The textbook required for the lecture portion of the course by Nesse must be brought to all lab sessions. Students are also required to maintain a notebook of minerals observed in class (see Canvas for more information on the Mineral Book Project) that must be brought to every class meeting. A personal hand lens is not required, but highly recommended.

Laboratory Objectives:

- Students will be able to describe and identify common rock-forming minerals using physical and optical properties in hand samples and thin sections.
- Students will demonstrate an understanding of the link between minerals and crystal structures, chemistry, and physical properties.
- Students will learn how petrographic microscopes can be used to solve geologic problems.

Attendance Policy:

Attendance to all lab class meetings is mandatory and will be recorded every class period. If you are more than 30 minutes late for a lab, it will be considered an unexcused absence. Students are permitted a maximum of two excused absences. Excused absences require appropriate documentation to be provided to a TA *in advance of the absence*. Unexcused absences will result in a zero for the assignment due and the one that is due the following week, as well as any quizzes/tests given during the unexcused absence.

***If you know that you will be missing a lab session this semester for any reason, including field trips for other geology classes, it is YOUR responsibility to inform one of your TAs as soon as possible in order to request a make-up, otherwise it will be considered an unexcused absence.

Laboratory Assignments:

Each lab exercise will be introduced by one of your TAs during your lab section and you will be given the remainder of the lab period to begin work on it. You may need to spend time outside of the class period on your assignments. The assignment is due at the beginning of the following lab period. **Late work will not be accepted.**

Mineral Notebooks:

A notebook (a three ring binder or a small notebook of your choice) of mineral observations will be compiled throughout the semester based on the observations made in lab. You are expected to maintain this notebook throughout the semester. Notebooks are subject to periodic *and random* checks. These checks will be equivalent to a quiz grade. If you do not bring your notebook to class on the day of the notebook check you will receive a zero for the quiz grade. See Canvas for more information on what should be contained in the notebook.

Quizzes and Tests:

Short group quizzes will be given at the beginning of each lab period to reinforce your knowledge of the material covered. Random notebook checks will count as a quiz grade. The midterm exam will involve the application of materials covered in the first portion of the lab. The final exam will be cumulative.

Grades:

The laboratory grade is worth 25% of the overall class grade earned for Principles of Mineralogy GLY3200C. This percentage is determined as follows:

Assignments	60%
Quizzes	20%
Exams	20%

Academic Honesty:

You may work with lab partners on assignments. However, reporting identical answers as your lab partners on assignments will be considered a violation of the University's academic honesty policy. It is every student's responsibility to understand and adhere to this policy. Cheating, plagiarism, and unauthorized assistance will not be tolerated. Students who violate this policy will receive a failing grade for the class.

<https://sccr.dso.ufl.edu/policies/student-honor-code-student-conduct-code/>

Safety Protocols:

Your teaching assistants will give you instructions on how to safely and appropriately utilize the laboratory, please follow all of their directions. The current university guidance regarding Sars-Cov-2 can be found [here](#). Students are expected to wear masks or face coverings in the lab. If you are experiencing symptoms of a respiratory illness, or any other communicable disease, please contact your teaching assistants before arriving to class.

Students with Disabilities:

Students with disabilities requesting classroom accommodation should first register with the Dean of Students Office to receive the necessary documentation. Please contact your TA as soon as possible to provide this documentation and make arrangements for appropriate accommodations.

Fall 2021 Mineralogy Tentative Laboratory Schedule:

Week	Dates	Topic
1	8/23-8/24	Intro and Syllabus Review
2	8/30-8/31	Physical Properties of Minerals
3	9/6-9/7	No Lab - Labor Day
4	9/13-9/14	Crystallography and Symmetry Part 1
5	9/20-9/21	Crystallography and Symmetry Part 2
6	9/27-9/28	Optics in Plane Polarized Light (PPL)
7	10/4-10/5	No Lab-Study for Midterms
8	10/11-10/12	Optics in Cross Polarized Light (XPL)
9	10/18-10/19	Lab Midterm
10	10/25-11/26	Uniaxial Minerals
11	11/1-11/2	Biaxial Minerals
12	11/8-11/9	Ortho-, Di-, and Ring Silicates
13	11/15-11/16	Chain and Sheet Silicates
14	11/22-11/23	Tectosilicates and others
15	11/29-11/30	Lab Final

DISCLAIMER

This syllabus represents my current plans and objectives. As we go through the semester, those plans may need to change to enhance the class learning experience. Such changes, communicated clearly, are not unusual and should be expected.