**Principles of Mineralogy- GLY3200**

**Fall Semester, 2019**

**Instructor:** Dr. Jon Martin

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**Office Hours:**  2-3 PM Mon./Wed. or by appointment (call or email first)

**Meeting Place:** 202 Williamson Hall

**Meeting Time:** M W F, 3rd period (9:35 – 10:25 AM)

**Required Text:** Nesse: *Introduction to Mineralogy, 3rd edition.* You may purchase the 1st or 2nd edition, but they differs slightly from the 2nd edition, especially in page and figure numbering and in the addition of new figures.

**Useful Text:** Deer, Howie, and Zussman:  *An Introduction to the Rock Forming Minerals*

Klein and Hurlbut, *Manual of Mineralogy, 21st edition revised*

Nesse: *Introduction to Optical Mineralogy*

**TAs:** Meridith Miska; Peng Jiang; Christian Anderkin

**Lab times (section)** M, 10-11 (3012); T, 4-5 (5117);

**Course objectives:**

1) Introduce crystallography, crystal chemistry, and systematic mineralogy;

2) Relate the physical properties of minerals to their chemical compositions and crystal structures;

3) Introduce analytical methods used in mineralogy, particularly the polarizing microscope and X-ray diffractometer.

4) Learn mineral classification schemes, and how to identify the important (i.e. most common) rock-forming minerals in hand sample and thin section;

**Pertinent information and helpful hints:**

1) Do not fall behind in your work – it will be impossible to catch up. For this reason:

**NO LATE WORK WILL BE ACCEPTED**

2) Make up exams are highly discouraged, but will be granted if a written excuse is brought from a doctor (for illness) or mortician (for a death in the family).

3) I will be posting various bits of information on Canvas website. More information to come

4) Attend all classes – much test material will come from in-class activities and lectures (which I hope to keep to a minimum). Most, but not all, material will come from the text, but you will not be able to learn the non-text material without attending class. Attendance will count for 5% of your grade and role will be taken at random times during the semester. If you miss a class when role was taken, you may be given credit with a written excuse from a doctor (for illness) or mortician (for a death in the family).

5) Students requesting classroom accommodation must first register with the Dean of Students Office. The Dean of Students Office will provide documentation to the student who must then provide this documentation to the Instructor when requesting accommodation.

6) I expect professional behavior in the class at all times. Please show up for class on time and turn off cell phones. Discussion is welcome, but you must speak loudly enough for all in the class to hear your questions and/or comments. Whispering to your friends will not be tolerated. If you whisper to your friends, I may ask you to speak up so we can all hear.

7) All students are expected to follow the University honor code: neither give nor receive unauthorized aid in doing any assignment. Not adhering to this policy will result in a failing grade for the class.

8) 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 <https://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 [https://ufl.bluera.com/ufl/](https://urldefense.proofpoint.com/v2/url?u=https-3A__ufl.bluera.com_ufl_&d=DwMFAg&c=sJ6xIWYx-zLMB3EPkvcnVg&r=y2HjEMjRMHJhfdvLrqJZlYczRsfp5e4TfQjHuc5rVHg&m=WXko6OK_Ha6T00ZVAsEaSh99qRXHOgMNFRywCoehRho&s=itVU46DDJjnIg4CW6efJOOLgPjdzsPvCghyfzJoFONs&e=). Summaries of course evaluation results are available to students at <https://gatorevals.aa.ufl.edu/public-results/>.

**Grading policy and scale:**

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| --- | --- | --- |
| **Work Required** | **Value (%)** | **Total Value (%)** |
| Attendance | 5 | 5 |
| Laboratory | 30 | 30 |
| Take home/in class exercises | 5 | 5 |
| individual Readiness Assurance Tests (iRAT) | 3 | 3 |
| team Readiness Assurance Tests (tRAT) | 12 | 12 |
| Summative Peer reviews | 5 | 5 |
| Two in-class exams | 10 (each) | 20 |
| Final | 20 | 20 |
| **Total** |  | **100** |

**Grading scale:** >93 = A; 90-92 = A-; 87-89 = B+; 83-86 = B; 80-82 = B-, 77-79 C+, 73-76 C, 72-70, C-, 67-69, D+, 63-66, D, < 63 E. Values will be rounded to nearest whole numbers