

SIO 152: Introduction to Petrology and Petrography

Lecture: M/W 9:30 AM – 10.50 AM (Ritter 229)
Laboratory: M/W 10:50 AM – 12.50 PM (Ritter 229)

Instructor- Dr. James Day
Office- Vaughan 306
Phone- 534-5431
Email- jmdday@ucsd.edu
Office Hours- Monday 3-4 pm, or by appointment

Lab Instructor - Kate Durkin
Office- Sverdrup Hall
Email- kdurkin@ucsd.edu
Office Hours- Tuesday 10:00-12:00, or by appointment

General Note

This syllabus is an outline of proposed events. It is subject to change; however, never without notification, and never to advance the due dates of assignments.

Class Organization

- The lecture portion of class will be worth 40% of your overall grade. It will consist of one midterm exam worth 110 points, and a final exam worth 200 pts. In addition, there will be three homework assignments totaling to 90 points.
- The lab portion of the class will be worth 60% of your grade and will consist of three lab exams and regular lab exercises that will be due weekly, totaling 600 pts.

The lecture text is *Petrology*, by Blatt, Tracy and Owens (3rd edition). The suggested laboratory text is *Petrography of Igneous and Metamorphic Rocks*, by Philpotts. You are responsible for reading the chapters assigned, and the exams will include material covered in the text. Please note, however, that there will be information covered in class that is not covered in the book.

Absences and Missed Work

There will be no make-up examinations. In the cases of legitimate conflicts, notification is required at least one week before the regularly scheduled examination. In the case of deaths, accidents, or sickness, notification is appreciated as soon as possible and is required within one week of the regularly scheduled examination time. *All excuses must be in writing.*

Classroom Conduct

Disruptions during lecture will not be tolerated. Disruptive behavior including talking, excessive noise, poor behavior towards other students or instructors/TAs, arriving late/leaving early, reading newspapers in class, inappropriate language/comments in lecture/lab or on-line, or ringing cell phones will result in your being asked to leave the class. **Use of cell phones during class is not appropriate.** Continued disruption will result in failing grade and denial of re-enrollment. It is to your benefit to arrive on time because most announcements and assignments occur at the beginning of lecture/laboratory.

Accommodations for Documented Disabilities

Any student with a documented disability is welcome to contact me as early in the semester as possible so that we may arrange reasonable accommodations. As part of this process, please be in touch with the UCSD Office of Disability Resources (<http://disabilities.ucsd.edu/>).

Academic Integrity

Academic dishonesty includes failure to do your **own** work on any assignment (not just exams)! University policies, regulations, and standards of conduct can be found at:

http://www.ucsd.edu/current-students/_organizations/academic-integrity-office/

SIO 152 Schedule (subject to change, as necessary)

	Lecture	Lab
<i>Week 1 M (3 Apr)</i> <i>W (5 Apr)</i>	<i>Intro to Petrology</i> <i>Sedimentary Rocks</i>	<i>Beach walk/Sediments lab</i> <i>Sediments lab</i>
<i>Week 2 M (10 Apr)</i> <i>W (12 Apr)</i>	<i>Intro to Igneous Rocks</i> <i>Melting and the mantle</i>	<i>Mantle rocks lab</i> <i>Mantle rocks lab</i>
<i>Week 3 M (17 Apr)</i> <i>W (19 Apr)</i>	<i>Magmatic processes</i> <i>Phase Diagrams – the basics</i>	<i>Mantle rocks lab</i> <i>Mantle rocks lab</i>
<i>Week 4 M (24 Apr)</i> <i>W (26 Apr)</i>	<i>Intrusive igneous rocks</i> <i>More advanced phase diagrams</i>	<i>Intrusive igneous lab</i> <i>Intrusive igneous lab</i>
<i>Week 5 M (1 May)</i> <i>W (3 May)</i>	<i>Granite to gabbro</i> <i>Volcanism and extrusive rocks</i>	<i>Intrusive igneous lab</i> <i>Intrusive igneous lab</i>
<i>Week 6 M (8 May)</i> <i>W (10 May)</i>	<i>Mid-term examination</i> <i>Intro to Metamorphism</i>	<i>Mid-term examination</i> <i>Metamorphism lab</i>
<i>Week 7 M (15 May)</i> <i>W (17 May)</i>	<i>Types of Metamorphism</i> <i>Metamorphic minerals</i>	<i>Metamorphism lab</i> <i>Metamorphism lab</i>
<i>Week 8 M (22 May)</i> <i>W (24 May)</i>	<i>Metamorphic Reactions</i> <i>Tying it all together – the rock cycle</i>	<i>Metamorphism lab</i> <i>Class lab project</i>
<i>Week 9 M (29 May)</i> <i>W (31 May)</i>	<i>NO CLASS – MEMORIAL DAY OBSERVED</i> <i>Case-study environments - global</i>	<i>Class lab project</i>
<i>Wk. 10 M (5 Jun)</i> <i>W (7 Jun)</i>	<i>Case-study environments – local</i> <i>Overview of petrology</i>	<i>Class lab project</i> <i>Class lab project</i>
<i>Wk. 11 W (14 Jun)</i>	<i>Final Exam!</i>	