

## **Petrography - GEOL 525**

Spring - 2004

*Dr. Vic Camp*  
GMCS - 228K  
[vcamp@geology.sdsu.edu](mailto:vcamp@geology.sdsu.edu)

*Lecture:* MF (1300-1350), CSL-425  
*Lab:* W (1400-1640), CSL-425  
*Office:* GMCS-228K  
*Office Hours:* Anytime - but you are most likely to find me after class, or TTH 11-12:15

***Course Notes:*** Available at Aztec Shops (Camp, 2004)

### ***Grading:***

Two igneous lecture exams (75 pts. each):	150 pts
Metamorphic lecture exam:	100
Igneous lab exam:	100
Metamorphic lab exam:	100

### ***Lecture Schedule:***

#### *Igneous Systems*

Review (as needed)  
Nature of the upper mantle  
Ternary phase diagrams  
Processes in igneous systems and their recognition  
**Igneous lecture exam #1 (date to be announced in class)**  
Origin of basalt  
Stratiform gabbroic complexes  
Origin of andesite/volcanic arcs, calc-alkaline batholiths  
Rhyolite  
**Igneous lecture exam #2 (date to be announced in class)**

#### *Metamorphic Systems*

Controls on metamorphism  
Crystal growth in the solid state  
Metamorphic facies and their recognition  
P-T determinations  
Metamorphism and plate tectonics  
**Metamorphic lecture exam (April 30 - 1300)**

***Lab Schedule:***

*Igneous Systems*

Jan. 12	Mineral review
Jan. 26 - Feb. 2	Petrography of granites
Feb. 9 - Feb. 16	Petrography of mafic and ultramafic plutonic rocks
Feb. 23	XRF lab
March 1	Petrography of volcanic rocks
March 8	Geochemistry lab - computer applications (IGPET)
March 22	Review
March 29	<b>Lab exam on igneous rocks</b>

*Metamorphic Systems*

April 5 - April 12	Petrography of metamorphic rocks #1 and #2
April 19 - April 26	Petrography of metamorphic rocks #3 and #4
May 3	<b>Lab exam on metamorphic rocks</b>

***Good Web Site for Petrography Reference:***

<http://www.geolab.unc.edu/Petunia/IgMetAtlas/mainmenu.html>

This site covers minerals and textures in both igneous and metamorphic rocks