GEOL 520 001
Adv Topic: Igneous/Metam Petrology
Syllabus
Professor Dr. Justin Filiberto
Office Hours: Open Door Park 203
Course Time: M-W-F 9-9:50
Parkinson 101
Email: Filiberto@siu.edu
Phone: 618-453-4849

Course Expectation: Upon conclusion of this course, students will 1) design 10 short research projects in areas of petrology, and 2) gain knowledge of oxygen fugacity, phase equilibrium, and thermodynamics appropriate to petrology.

Optional Textbooks:
Principles of Igneous and Metamorphic Petrology Philpotts and Ague
Petrology: Igneous, Sedimentary, Metamorphic - 3rd edition – Blatt, Tracy, and Owens
Principles of Igneous and Metamorphic Petrology - 2nd edition - Winter

Grading:
Grading will be based on: 1) 2 page double spaced research projects summaries for each topic listed below, 2) homework assignments, 3) a take-home final project, 4) attendance/participation.

All proposal summary and research project lengths do not include references or figures. They are to be written in 12 point times new roman font and double spaced.

Research Project Summaries and Homework (all equally graded): 60%
Final: 30%
Attendance/Participation: 10%

Grading: The grade boundaries will be (whichever is lower):
A – 90%
B – 80%
C – 70%
D – 60%
F – Below 60%

All work is due at the start of class. Any work turned in after that will receive a late grade. 5 points will be deducted as soon as class is over. After that, 10 points will be deducted for every
day the homework is late. Once homework is returned to the class, late work will no longer be accepted and the grade will receive a 0.

**Academic honesty:** Any form of academic dishonesty will result in a zero for that assignment, quiz, exam, as well as possible disciplinary action. See your student handbook for guidelines.

**Emergency Procedures:** Southern Illinois University Carbondale is committed to providing a safe and healthy environment for study and work. Because some health and safety circumstances are beyond our control, we ask that you become familiar with the SIUC Emergency Response Plan and Building Emergency Response Team (BERT) program. Emergency response information is available on posters in buildings on campus, available on BERT's website at www.bert.siu.edu, Department of Safety's website www.dps.siu.edu (disaster drop down) and in Emergency Response Guideline pamphlet. Know how to respond to each type of emergency.

Instructors will provide guidance and direction to students in the classroom in the event of an emergency affecting your location. It is important that you follow these instructions and stay with your instructor during an evacuation or sheltering emergency. The Building Emergency Response Team will provide assistance to your instructor in evacuating the building or sheltering within the facility.
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Important Dates:

Semester Classes Begin Monday, August 24

Labor Day Holiday Monday, September 7

Fall Break Saturday, October 10, 12:00 Noon through Tuesday, October 13

Veterans Day Holiday Wednesday, November 11

Thanksgiving Vacation Wednesday, November 25 through Sunday, November 29

Final Examinations Monday, December 14 through Friday, December 18

Commencement Saturday, December 19, 2015
Topics for research projects summaries:

1. Melting the mantle/heat sources in the mantle
2. Physical Properties of Magmas
3. Diffusion and cooling
4. Classification of Igneous Rocks
5. Thermodynamics
6. Phase equilibria
7. Volatiles
8. Oxygen Fugacity
9. Crystal Growth
10. Isotope Geochemistry
11. Magmatic Processes
Syllabus Attachment
Fall 2015
http://pvcaab.siu.edu/

SAFETY AWARENESS FACTS AND EDUCATION
Title IX makes it clear that violence and harassment based on sex and gender is a Civil Rights offense subject to the same kinds of accountability and the same kinds of support applied to offenses against other protected categories such as race, national origin, etc. If you or someone you know has been harassed or assaulted, you can find the appropriate resources here: http://safe.siu.edu

SALUKI CARES
The purpose of Saluki Cares is to develop, facilitate and coordinate a university-wide program of care and support for students in any type of distress—physical, emotional, financial, or personal. By working closely with faculty, staff, students and their families, SIU will continue to display a culture of care and demonstrate to our students and their families that they are an important part of the community. For information on Saluki Cares: (618) 453-5714, or sicalcares@siu.edu, http://salukicare.siu.edu/index.html

EMERGENCY PROCEDURES
Southern Illinois University Carbondale is committed to providing a safe and healthy environment for study and work. We ask that you become familiar with the SIU Emergency Response Plan and Building Emergency Response Team (BERT) programs. Please refer to the Building Emergency Response Protocols for Syllabus attachments on the following pages. It is important that you follow these instructions and stay with your instructor during an evacuation or sheltering emergency.

INCLUSIVE EXCELLENCE
SIU contains people from all walks of life, from many different cultures and sub-cultures, and representing all strata of society, nationalities, ethnicities, lifestyles, and affinities. Learning from and working with people who differ is an important part of education as well as an essential preparation for any career. For more information please visit: http://www.inclusivexcellence.siu.edu/

LEARNING AND SUPPORT SERVICES
Help is within reach. Learning support services offers free tutoring on campus and math labs. To find more information please visit the Center for Learning and Support Services website:
Tutoring: http://tutoring.siu.edu/
Math Labs: http://tutoring.siu.edu/math_tutoring/index.html

WRITING CENTER
The Writing Center offers free tutoring services to all SIU students and faculty. To find a Center or Schedule an appointment please visit: http://write.siu.edu/

AFFIRMATIVE ACTION & EQUAL OPPORTUNITY
Our offices main focus is to ensure that the university complies with federal and state equity policies and handles reporting and investigating of discrimination cases. For more information visit: http://diversity.siu.edu/#

Additional Resources Available:
SALUKINET: https://salukinet.siu.edu/cp/home/displaylogin
ADVICE: http://advise.siu.edu/
SIU ONLINE: http://online.siu.edu/

IMPORTANT DATES *
Semester Class Begins ........................................... 08/24/2015
Last day to add a class (without instructor permission) .......... 08/30/2015
Last day to withdraw completely and receive a 100% refund .... 09/06/2015
Last day to drop a course using SSIKINACe ................................... 11/01/2015
Last day to file diploma application (for name to appear in Commencement program) ................................................................. 09/18/2015
Final examinations .................................................. 12/14-12/18/2015

Notes: For outreach, internet, and short course drop/add dates, visit Registrar's Academic web page http://registrar.siu.edu/

FALL SEMESTER HOLIDAYS
Labor Day Holiday 09/07/2015
Fall Break 10/10—10/13/2015
Veteran Day Holiday 11/11/2015

WITHDRAWAL POLICY – Undergraduate only
Students who officially register for a session may not withdraw merely by the stopping of attendance. An official withdrawal form needs to be initiated by the student and processed by the University. For the proper procedures to follow when dropping courses and when withdrawing from the University, please visit http://registrar.siu.edu/pdf/undergradcatalog1314.pdf

INCOMPLETE POLICY – Undergraduate only
An INC is assigned when, for reasons beyond their control, students engaged in passing work are unable to complete all class assignments. An INC must be changed to a completed grade within one semester following the term in which the course was taken, or graduation, whichever occurs first. Should the student fail to complete the course within the time period designated, that is, by no later than the end of the semester following the term in which the course was taken, or graduation, whichever occurs first, the incomplete will be converted to a grade of F and the grade will be computed in the student's grade point average. For more information please visit: http://registrar.siu.edu/grades/incomplete.html

REPEAT POLICY
An undergraduate student may, for the purpose of raising a grade, enroll in a course for credit no more than two times (two total enrollments) unless otherwise noted in the course description. For students receiving a letter grade of A,B,C,D, or F, the course repetition must occur at Southern Illinois University Carbondale. Only the most recent (last) grade will be calculated in the overall GPA and count toward hours earned. See full policy at: http://registrar.siu.edu/pdf/undergradcatalog1314.pdf

GRADUATE POLICIES
Graduate policies often vary from Undergraduate policies. To view the applicable policies for graduate students, please visit: http://gradschool.siu.edu/about-grad/catalog/index.html

DISABILITY POLICY
Disability Support Services provides the required academic and programmatic support services to students with permanent and temporary disabilities. DSS provides centralized coordination and referral services. To utilize DSS services, students must come to the DSS to open cases. The process involves interviews, reviews of student-supplied documentation, and completion of Disability Accommodation Agreements. http://disabilityservices.siu.edu/

PLAGIARISM CODE

MORRIS LIBRARY HOURS
http://www.lib.siu.edu/about