GEOL 325: Sedimentology and Stratigraphy  
Southern Illinois University  
Fall, 2015 Syllabus  
Final Exam: Wednesday, December 16, 2015, 10:15AM

<table>
<thead>
<tr>
<th>Professor Information</th>
<th>Course Information</th>
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<tbody>
<tr>
<td>Name: Sally Potter-McIntyre</td>
<td>Semester Credit Hours: 3</td>
</tr>
<tr>
<td>Office Location: 215C Parkinson Lab</td>
<td>Section Number: 001, 002</td>
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<tr>
<td>Office Telephone: 618.453.7372</td>
<td>Days: M.W.F 10AM -10:50AM</td>
</tr>
<tr>
<td>Office Hours: M.W, F 9AM-10AM</td>
<td>Lab: T 1PM-3:50PM</td>
</tr>
<tr>
<td>Email Address: <a href="mailto:pottermcintyre@siu.edu">pottermcintyre@siu.edu</a></td>
<td>or Th 9-11:50</td>
</tr>
<tr>
<td>Room: 215 Parkinson Lab</td>
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COURSE DESCRIPTION. This course will cover the basic principles involved in the study of sedimentology, stratigraphy and basin analysis. We begin with the large-scale components of depositional basins and depositional settings, and the focus will gradually shift to outcrop, hand sample and pore-scale features of sedimentary rock types, sedimentary structures and diagenesis. The course will end with an overview of sequence stratigraphy and culminate with a basin analysis project where students will be able to synthesize the small-scale features (e.g., sedimentary structures) and large-scale features (i.e., depositional settings) to interpret a petroleum system.

STUDENT LEARNING OBJECTIVES. Upon completion of this course, students will have a basic knowledge of sedimentology, stratigraphy, sedimentary rock types, sequence stratigraphy, basin analysis, and petroleum systems. This course will ensure that each student will 1) be able to think critically and recognize issues across a broad spectrum of subjects, 2) have a familiarity with the scientific approach to the biological, psychological, and physical universe, and 3) acquire basic team working skills.

REQUIRED TEXT AND COURSE MATERIALS.
A. Principles of Sedimentology and Stratigraphy, fifth edition; Sam Boggs, Jr.
B. View course materials and maintain access to SIU Online and your SIU email account.
C. A fee of $20 will be assessed for field trips during lab periods.

ATTENDANCE POLICY.
A. Attendance is required, as it is essential for optimal learning experiences in this class. Material and information will be presented in class that is not found in your text. Additionally, unannounced quizzes will be given throughout the semester.

B. The only excused absences are documented illness, a death in your immediate family, an official religious holiday, or a documented emergency or natural disaster. Absences beyond these will adversely affect your final grade. If you miss a class, it is your responsibility to obtain material that was covered from another student.
C. Tardiness will adversely affect your final grade. Arriving late to class disturbs the class in process.

D. Attendance and participation count towards ~7% of your final grade.

E. If you are expecting to miss a class and wish to have an excused absence, you must contact the professor and/or TA prior to the missed class or lab period. Labs cannot be made up unless you have obtained prior consent from the professor or TA.

GRADING. Semester exams are worth 75 points each. Final exam is worth 100 points. Final paper is worth 100 points. Final presentation is worth 75 points. Five short unannounced quizzes will be given throughout the semester each worth 10 points (50 pts. total). Labs are worth 25 points each for a total of 250 points. Attendance and participation is worth 50 points. Total points: 700.

Final grades will be assigned as follows.

A = ≥630 points
B = 560-629.9 points
C = 490-559.9 points
D = 420-489.9 points
F = <420 points

A. Policy on Late Assignments. Late assignments will not be accepted.

B. Quizzes and Examinations. Comprehensive examinations will be given to assess students’ learning. Examinations will cover assigned readings, in-class lectures, labs, and material given by your instructor and/or guest lecturer. No make-up examinations or quizzes will be given.

C. Incomplete Policy. An INC is assigned when, for reasons beyond their control, students engaged in passing work are unable to complete all class assignments. Refer to the SIU University Policy on ‘Incomplete’ as a course grade in the 2013-2014 Undergraduate Catalog.

D. Written Assignments. Assignments are required to include the following formatting: (1) Double-Spaced, (2) 1” Margins, 10-12 point font (preferably Times New Roman), and (3) Properly Cited using the style guide for the Geological Society of America publications found at http://www.geosociety.org/pubs/geoguid5.htm.

COURSEWORK.

A. Classroom Participation. This class is an upper division geology class and discussion and questions are encouraged. The success of this class depends upon you taking an active role in classroom, asking questions and staying engaged.
B. Students are expected to attend lecture and take notes; lecture slides will not be posted online.

C. Students can expect to spend a **minimum of nine hours per week** on this course including class time and outside reading and studying.

D. Most weeks will have a reading assignment from the text book (when noted in the syllabus).

E. Four exams (including a comprehensive final exam) will be given.

F. A final project will be due at the end of the course.

**COURSE EXPECTATIONS.**

A. Freedom in and Responsibility to Our Class. You are responsible for completing your work with excellence and submitting assignments on or before due dates. Be prepared for daily dialogue and reflection on assigned readings and classroom discussions. Treat class members and your instructor with courtesy and respect. If you are having any problems in or outside of class, please contact me so we can work together to resolve them. Cell phones and other electronic devices are to be turned off and out of sight. **Any cell phone or other electronic device in sight during an exam will result in a zero grade for the exam.**

B. Communication. You and your academic and personal well-being are of paramount importance. You are encouraged to regularly contact your instructor with any questions or concerns regarding course requirements, or any academic, personal, and/or social issues. You may visit during instructor office hours, arrange another meeting or contact me as needed.

**COURSE POLICY REGARDING PLAGIARISM AND CHEATING**

_Important: please read SIU policies available online (see link under University Policies below)._

A. Plagiarism is the use of another author's language, thoughts, ideas, or expressions and the representation of them as one's own original work. This includes, but is not limited to, word-for-word copying of another author’s text (even if it is another student paper or a previously turned in student paper of your own). It includes, but is not limited to, using another author’s ideas without proper citation, even if you think the idea common knowledge.

B. All papers will be turned in to a dropbox on D2L and run through plagiarism detection software. Any student(s) whose paper returns greater or equal to 50% plagiarized material will fail the class and the student(s) will be reported to the dean for ethical violations. **THERE WILL BE NO EXCEPTIONS.** For papers with <50% plagiarized material, the penalty will be at the discretion of the professor and include: failure of the class or a zero grade on the assignment with or without a report to the dean. **In the event of a group project, all students will receive the same penalty.**

C. All work on exams is expected to be your own and to be produced at the time of the exam. Any extraneous material (e.g., notes, calculators with memory functions, phones) that is visible during exams will result in a zero grade on the exam. Other methods of cheating (e.g.,
hacking into D2L to change grades or acquire exams prior to the test date) will be reported to
the dean and the sanctions will be in the hands of the administration.

UNIVERSITY POLICIES.

A. Academic Integrity. You are expected to submit your original work and adhere to the
academic policies as stated in the SIU Student Conduct Code: policies.siu.edu/policies/conduct.html.

Any act of academic dishonesty, cheating, or plagiarism in any form, including anonymous
internet sources used in student papers, will be reported. These acts are taken seriously and the
consequences may range from failing an assignment to expulsion from the university.

B. SIU Email. Your SIU email account is an official form of University communication. Your
instructor will use SIU email as a primary means of electronic communication with our students.
Please make sure that you maintain a valid password and acquire the habit of regularly checking
your SIU email account for important instructor and University announcements. You may view
the official SIU Student Email Policy at: policies.SIU.edu/policies/email.html

C. Statement on 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 affiliations. Learning from and working with people who differ from you is an
important part of your education in this class, as well as an essential preparation for any career.

D. Emergency Procedures. SIU 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 SIU 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 bert.siu.edu, the SIU Department of
Public Safety’s website dps.siu.edu (disaster drop down and video, “Shots Fired”), and in the
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.

E. Supplementary Assistance. SIU is committed to assisting students with disabilities. With the
cooperation of SIU’s Disability Support Services (DSS), each student who qualifies for
reasonable supplementary assistance has the right to receive it. Students requesting
supplementary assistance must first register with DSS in Woody Hall, B-150, 618-453-5738 or
618-453-2293 (TTY), by email DSS@siu.edu, or disabilityservices.siu.edu. Notice: If you have
any type of special need(s) or disability for which you require accommodations to promote your
learning in class, please contact me as soon as possible. The Office of Disability Support
Services (DSS) offers various support services and can help you with special accommodations. You may wish to contact DSS to verify your eligibility and options for accommodations related to your special need(s) or disability.

STUDENT SERVICES.

A. Learning Support Services. The Center for Learning Support Services (CLSS) assists students of all cultures, abilities, backgrounds and identities with enhancing their self-management and interdependent learning skills. Programs offered by CLSS include; group study sessions; math tutoring; academic coaching; early intervention program; and study skills seminars. For additional information please contact CLSS in Woody Hall, Room A-313, 618-453-2925, or tutoring.siu.edu.

B. Writing Center. The Writing Center offers free tutoring services and assistance with improving writing skills to all SIU undergraduate and graduate students and faculty. For center locations and hours, to schedule an appointment online, and to view information regarding the Online Writing Lab (OWL) contact the Writing Center at 618-453-1231 (Morris Library location); 618-453-2927 (Trueblood location), or write.siu.edu.

C. 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. To make a referral to Saluki Cares click, call, or send: salukicares.siu.edu; (618) 453-5714, or siucares@siu.edu.

OTHER INFORMATION

1. **College of Science Ice Cream Social**, Thursday August 20 beginning at 5:30 PM in Lentz Hall Rm 1.

2. **College Connection**, Wednesday August 26 beginning at 4 PM in Neckers 240 and with students dispersing to their respective home departments following a short introduction. Please advise Valerie of where and what your department has planned for your students.

3. **Scholarships**: Please encourage your students to apply for scholarships by logging in to the General Scholarship Application that can be found at http://scholarships.siu.edu/general-application.html

4. **Externship Program**: Students with Junior or Senior standing. GPA 2.75 or higher. Externships occur over Spring Break. Deadline for application is October 9. Additional information found at www.siualumni.com/extern

5. The **Veterans Administration** on-campus office provides support services for our students who are veterans. Their office is in Woody Hall, C104. Contacts in that office are: Brenda Carter, Brenda.Carter4@va.gov and Samuel Hoekstra, Samue.Hoekstra@va.gov
Tentative Course Schedule (dates are subject to change)

<table>
<thead>
<tr>
<th>Date</th>
<th>Topic</th>
<th>Reading Assignment</th>
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<tbody>
<tr>
<td>Aug. 24-28</td>
<td>Geologic Time and Geologic History</td>
<td>15.1, 15.2, 15.3 and assigned reading</td>
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<tr>
<td>Aug. 31-Sep 4</td>
<td>Weathering, Transport and Deposition</td>
<td>Chapters 1, Section 1.1, 1.2, and 2, all sections</td>
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<tr>
<td>Sept. 7-11</td>
<td>Depositional Basins and Tectonics</td>
<td>Chapter 16, sections 16.1, 16.2, 16.3, 16.4 and assigned reading</td>
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<td>Sept. 21-23</td>
<td>Finish Section and Review</td>
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<td>Sept. 25</td>
<td>EXAM 1</td>
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<td>Sept. 28-Oct 2</td>
<td>Siliciclastic Sedimentary Rocks</td>
<td>Chapter 5</td>
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<tr>
<td>Oct. 5-9</td>
<td>Sedimentary Textures and Structures</td>
<td>Chapters 3 and 4</td>
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<tr>
<td>Oct. 12</td>
<td>Fall Break</td>
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<tr>
<td>Oct. 14-16</td>
<td>Terrestrial Depositional Environments</td>
<td>Chapter 8</td>
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<tr>
<td>Oct. 19-23</td>
<td>Marine and Marginal Marine</td>
<td>Chapters 9 and 10</td>
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<tr>
<td>Oct. 26-28</td>
<td>Marine and Marginal Marine Environments</td>
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<tr>
<td>Oct. 30</td>
<td>EXAM 2</td>
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<tr>
<td>Nov. 2-6</td>
<td>Carbonate and Other Chemical Sedimentary Rocks</td>
<td>Chapter 6 and 7</td>
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<tr>
<td>Nov. 9-13</td>
<td>Carbonate and Evaporite Environments</td>
<td>Chapter 11</td>
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<tr>
<td>Nov. 16-20</td>
<td>Soils, Diagenesis and subsurface fluids</td>
<td>Chapter 1, section 1.4 and assigned reading</td>
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<tr>
<td>Nov. 23-25</td>
<td>Lithostratigraphy, Sequence Stratigraphy and Basin Analysis</td>
<td>Chapters 12, 13, 14 and 16</td>
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<td>Nov. 27</td>
<td>Thanksgiving Break</td>
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<tr>
<td>Nov. 30</td>
<td>EXAM 3</td>
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<tr>
<td>Dec. 2-4</td>
<td>Mars Sedimentology</td>
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<td>Dec. 7-11</td>
<td>Class Presentations</td>
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<tr>
<td>Dec. 16</td>
<td>Final Exam: 10:15-12:15</td>
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IMPORTANT DATES

Semester Class Begins: 08/14/2015
Last day to add a class (without instructor permission): 08/20/2015
Last day to drop a class (without instructor permission): 08/20/2015
Last day to drop a class (with instructor permission): 09/06/2015
Withdrawal Policy: 09/11/2015
Last day to file diploma application (for name to appear in Commencement program): 09/18/2015
Final examination period: 12/14-12/19/2015

Note: For outreach, internet, and short course drop/add dates, visit Registrar’s Academic webpage at http://registrar.siu.edu/

FALL SEMESTER HOLIDAYS

Labor Day Holiday: 09/07/2015
Fall Break: 10/10-10/13/2015
Veterans Day Holiday: 11/11/2015
Thanksgiving Holiday: 11/25-11/29/2015
Winter Break: 12/23-01/01/2015

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/withdrawal1314.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/inc-complete.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, or D, 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/academiccatalog1314.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-us/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 or schedule an appointment. 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.library.siu.edu/about

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://safesiu.edu

SALUKI CARES

The purpose of Saluki Cares is to develop 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 salukicares@siu.edu, http://salukicares.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 reference the Building Emergency Response Protocol 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 affiliations. 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.inclusiveneeds.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 office's 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
ADVISEMENT: http://advisement.siu.edu/
SIU ONLINE: http://online.siu.edu/