2023 / Fall Semester
Geology 5308 Section 1
Clastic Depositional Systems

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Office Hours: 11-12 M-R, 2 M, T and W and 6:00 -6:45 M or by appointment
Department: Earth Sciences and Geologic Resources
Class meeting time and place: 6:30 PM, M in 326 Miller Science Building
Required Fieldtrip: October 13-16, 2023 – Llano Region Fieldtrip

Course Description:

Study and analysis of depositional systems: Prerequisite: GEOL 4308 and 2343

Program Learning Outcomes:

1. Demonstrate knowledge of the fundamental core geologic concepts (Mineralogy, Petrology, Structural Geology, Stratigraphy, Geophysics and Geochemistry). (Concepts)
2. Execute geologic procedures and methods accurately, appropriately and efficiently. (Skills)
3. Apply principles of logic and reasoning to develop and analyze geologic problems. (Logical - Reasoning)
4. Demonstrate competence in using various geologic tools, including technology, to formulate, represent, and solve problems. (Critical thinking - Problem Solving)
5. Demonstrate proficiency in communicating geologic information in an appropriate form to the expected audience. (Communication)

Student Learning Outcomes:

1. Properly identify and describe sedimentary depositional environments
2. Understand the origin of different depositional environments
3. Understand the difference between clastic and carbonate depositional environments
4. Recognize different depositional environments within stratigraphic sequences
5. Understand the relation between facies and depositional environments
6. Study the processes that operate in each depositional environment.
7. Understand the depositional history of an area

Text and Materials:

Textbook: Sedimentary Environments: Processes, Facies and Stratigraphy by H. G. Reading
Course Requirements:
- Midterm Lecture Exam
- Final Exam
- Outline of each text book chapter
- Class reading presentation
- Term presentation

Course Calendar:

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<tr>
<th>Date</th>
<th>Topic</th>
<th>Reading Assignment</th>
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<tr>
<td>08/28</td>
<td>Introduction</td>
<td>Pages 01-03</td>
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<tr>
<td>09/04</td>
<td>Controls on the sedimentary rock record</td>
<td>Pages 05-36</td>
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<td>09/11</td>
<td>Alluvial Sediments</td>
<td>Pages 27-81</td>
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<td>09/18</td>
<td>Lacustrine (Lakes)</td>
<td>Pages 125-154</td>
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<td>09/25</td>
<td>Fluvial -River</td>
<td>Pages 125-154</td>
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<tr>
<td>10/02</td>
<td>Clastic Coasts</td>
<td>Pages 154 231</td>
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<td>10/09</td>
<td>Clastic Coasts</td>
<td>Pages 154 231</td>
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<tr>
<td>10/14-16</td>
<td>Llano Regional Field Trip</td>
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<tr>
<td>10/16</td>
<td>Shallow Clastic Seas</td>
<td>Pages 232-280</td>
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<td>10/23</td>
<td>Shallow Clastic Seas</td>
<td>Pages 232-280</td>
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<td>10/30</td>
<td>Deep Seas</td>
<td>Pages 395-454</td>
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<td>11/06</td>
<td>Glacial Sediments</td>
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<td>11/20</td>
<td>Thanksgiving</td>
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<td>11/25</td>
<td>Volcanic Clastic Sedimentary Environments</td>
<td>Pages 485-567</td>
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<td>11/29</td>
<td>Class Presentation</td>
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Take Home Midterm Exam
Take Home Final Exam

Required Field – October 13-15 – Llano Uplift, Central Texas

Grading Policy:

Calculation of final grades:

Lecture Grade Calculation

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<tr>
<th>Component</th>
<th>Points</th>
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<tr>
<td>Midterm Exam</td>
<td>100</td>
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<tr>
<td>Final Exam</td>
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<tr>
<td>Outline of Chapters</td>
<td>100</td>
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<tr>
<td>Reading</td>
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<td>Paper Present</td>
<td>100</td>
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<td>Fieldtrip Notebook</td>
<td>100</td>
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<tr>
<td>Quizzes</td>
<td>100</td>
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(points if given)
Total points: _________700 points

______% Your Points divided by the Points Possible
   (Lecture %)

The course letter grade is based on Course %:

100-90% = A, 89-80% = B, 79-70% = C, 69-60% = D, 59-00% = F

Make-Up Exams:

Do not miss schedule take home exam dates unless you have a Doctor's excuse or Dean of Students Excuse. Unexcused absence = 0.

Final Exam Due: Monday, December 12, 2023  6:30 PM

Attendance Policy:

Students are required to attend every lecture. Attendance will be monitored by unannounced quizzes, up to two per class period, that will affect the course grade. If you are ill or have a university excuse contact me before class.

Academic Integrity (A-9.1)

Academic integrity is a responsibility of all university faculty and students. Faculty members promote academic integrity in multiple ways including instruction on the components of academic honesty, as well as abiding by university policy on penalties for cheating and plagiarism.

Definition of Academic Dishonesty

Academic dishonesty includes both cheating and plagiarism. Cheating includes but is not limited to (1) using or attempting to use unauthorized materials to aid in achieving a better grade on a component of a class; (2) the falsification or invention of any information, including citations, on an assigned exercise; and/or (3) helping or attempting to help another in an act of cheating or plagiarism. Plagiarism is presenting the words or ideas of another person as if they were your own. Examples of plagiarism are (1) submitting an assignment as if it were one's own work when, in fact, it is at least partly the work of another; (2) submitting a work that has been purchased or otherwise obtained from an Internet source or another source; and (3) incorporating the words or ideas of an author into one's paper without giving the author due credit.
Please read the complete policy at
http://www.sfasu.edu/policies/academic_integrity.asp

Withheld Grades Semester Grades Policy (A-54)

Ordinarily, at the discretion of the instructor of record and with the approval of the academic chair/director, a grade of WH will be assigned only if the student cannot complete the course work because of unavoidable circumstances. Students must complete the work within one calendar year from the end of the semester in which they receive a WH, or the grade automatically becomes an F. If students register for the same course in future terms the WH will automatically become an F and will be counted as a repeated course for the purpose of computing the grade point average.

The circumstances precipitating the request must have occurred after the last day in which a student could withdraw from a course. Students requesting a WH must be passing the course with a minimum projected grade of C.

Students with Disabilities

To obtain disability related accommodations, alternate formats and/or auxiliary aids, students with disabilities must contact the Office of Disability Services (ODS), Human Services Building, and Room 325, 468-3004 / 468-1004 (TDD) as early as possible in the semester. Once verified, ODS will notify the course instructor and outline the accommodation and/or auxiliary aids to be provided. Failure to request services in a timely manner may delay your accommodations. For additional information, go to http://www.sfasu.edu/disabilityservices/.

Mental Health and Wellness

SFA values students' mental health and the role it plays in academic and overall student success. SFA provides a variety of resources to support students' mental health and wellness. Many of these resources are free, and all of them are confidential.

On-campus Resources:
SFA Counseling Services
www.sfasu.edu/counselingservices
Rusk Building, 3rd Floor
936.468.2401
SFA Human Services
Counseling Clinic
www.sfasu.edu/human
services/139.asp
Human Services,
Room 202
936.468.1041

Crisis Resources:
Burke 24-hour crisis line: 1.800.392.8343
Suicide Prevention Lifeline: 1.800.273.TALK (8255)