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GEO 583.02: Sequence Stratigraphy

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**GEO 583 01, SEQUENCE STRATIGRAPHY SEMINAR
FALL SEMESTER 2014 SYLLABUS**

MEETING: Tuesday; 1:10 to 4:00 PM; CHCB # 333

PROFESSOR: James Staub: Office hours are by appointment. CHCB # 353; phone 243.4953; james.staub@umontana.edu

TEXT: Catuneanu, O., 2006, Principles of Sequence Stratigraphy: Elsevier, 375 p.

COURSE GOAL: The goal is to provide a basic understanding of the concepts and methods used in sequence stratigraphic analysis and sequence delineation.

PREREQUISITES: There are no prerequisites for this class other than graduate student status or instructor permission.

CLASS ATTENDANCE AND FORMAT: Attendance is required. The class is a seminar in which each participant will present papers and lead discussions.

FIELD TRIP: We will leave for central Montana at Noon on September 4 and return the evening of September 7. The field trip is required.

MOODLE SUPPLEMENT: Assigned journal articles will be posted on Moodle. They must be reviewed in a timely manner so that you can participate in the weekly discussion.

ASSIGNED DUTIES OF PARTICIPANTS: *Each participant will present two papers during the course of the semester and lead the discussions that follow.* Individual presentations of journal articles with associated supporting documents, concepts, data, etc. are normally expected to be about 45 minutes in length. Following the presentation the day's presenter will lead and facilitate a discussion on the materials and concepts presented for the remaining available time.

*All participants must select their first journal article that forms a basis for their first presentation and provide the article electronically to Staub by **September 10th**.* All articles will be posted on the Moodle website. All articles must be published after 1995.

All papers and presentations must deal with (i.e. are limited to) the following general guidelines: The sediments must be Cretaceous or Carboniferous in age; have accumulated in a foreland basin; "marginal marine" in origin and have accumulated during regressive and or transgressive events. Your presentations must address issues related to sedimentary response(s) to forebulge migration and/or concepts related to accommodation space and the sedimentation of genetic sedimentary units and the development of their facies and bounding surfaces.

GRADE: Grades will be assigned based on your field trip participation, the presentations and discussions that you lead, as well as your continued participation in all other discussions during the entire semester.

STUDENT CONDUCT CODE: Please be familiar with the UM Student Conduct Code. The Student Conduct Code can be found on the Vice President for Student Affairs [website](http://life.umt.edu/vpsa/student_conduct.php) (http://life.umt.edu/vpsa/student_conduct.php).

COURSE ACCOMMODATIONS (DDS): Students with disabilities will receive reasonable accommodations in this course. To request course modifications, please contact me as soon as possible. I will work with Disability Services in the accommodation process. For more information, visit the Disability Services [website](http://life.umt.edu/dss) (<http://life.umt.edu/dss>) or call 406.243.2243 (Voice/Text).