

GEOMORPHOLOGY 51-320 (3 credits)
Fall Semester 2008

INSTRUCTOR: Bill Mode OFFICE: 214 Harrington

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OFFICE HOURS: Monday through, Friday, 10:20 to 11:20 a.m., Monday and Wednesday, 1:50 to 2:50 p.m.; or by appointment or chance

TEXTS: *Global Geomorphology*, by M. A. Summerfield
Landforms of the United States (map), by Erwin Raisz
Geomorphology Course Manual (2008 ed.), W. N. Mode

E-RESERVE: Visit Polk Library's e-reserves site (<http://eres.uwosh.edu/eres/>) and download and print handouts, readings, and other course materials.

LECTURE: 8 to 9 a.m., Tuesday and Thursday CLASS ROOM: Harrington 217

LAB: 9:10 a.m. - 10:10 a.m., Tuesday and Thursday

GOALS: Be able to recognize, describe, and analyze **landforms**, the **materials** of which they are composed, and the **processes** by which they form. Because of the rich, holistic perspective on landscape that this course provides, it fulfills the goals of a liberal arts education.

FIELD TRIP: The course field trip on **Saturday, September 27** is **required**. A quiz on the trip will be given in laboratory.

EXAMS: Three essay examinations will be given on the following dates:
Exam 1 (Chapters 1 through 7): **Thursday, October 2**
Exam 2 (Chapters 8, 9, 15, 16, and 18): **Tuesday, November 6**
Exam 3 (Chapters 10 through 14 and 17): **Thursday, December 11**

PAPER: A 10- to 15-page research paper is due **Thursday, November 16**. The laboratory manual contains detailed information about the paper.

GRADING: One-fifth of the grade is determined by each of the three exams. Lab work constitutes one-fifth, and the term paper constitutes the final one-fifth. You must pass lecture, lab and the paper in order to receive a passing grade. A scale no more rigorous than the following will be used to assign grades based on average percentage score:

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|-----------|----|
| 92 - 100% | A |
| 87 - 91 | AB |
| 82 - 86 | B |
| 77 - 81 | BC |
| 72 - 76 | C |
| 67 - 71 | CD |
| 60 - 66 | D |
| <60 | F |

SCHEDULE

| <u>Week (Of)</u> | <u>Topics/Assigned Reading in Summerfield</u> | <u>Supplemental Reading</u> |
|------------------|---------------------------------------------------------------------------------------------|-----------------------------------------------------|
| 1: Sept. 3 | Introduction and basic concepts: Chaps. 1&2 | Melhorn & Flemal, 1975; Coates & Vitek, 1980 |
| 2: Sept. 8 | Constructional landforms: Chaps 3 & 4 (tectonic landforms) & 5 (landforms on igneous rocks) | Ollier, 1981; Williams & McBirney, 1979 |
| 3: Sept. 15 | Weathering: Chap. 6 | Ollier, 1984; Bland & Rolls, 1998; Jennings, 1985 |
| 4: Sept. 22 | Karst: p. 228-231 & mass wasting: Chap. 7 (slopes) | Carson & Kirkby, 1972 |
| 5: Sept. 29 | Mass wasting; END, UNIT 1; Exam 1, Thurs. Oct. 2 | |
| 6: Oct. 6 | Fluvial processes: Chap. 8 | Schumm, 1977; Morisawa, 1985; Leopold, 1994 |
| 7: Oct. 13 | Fluvial landforms: Chap. 9 | Leopold et al., 1964 |
| 8: Oct. 20 | Rates of change: Chap. 15 | Morisawa & Hack, 1985 |
| 9: Oct. 27 | Structural control: Chap. 16 (tectonics and drainage development) | Gerrard, 1988; Tricart, 1974; Keller & Pinter, 2002 |
| 10: Nov. 3 | Long-term change: Chap. 18; END, UNIT 2; Exam 1, Thurs. Nov. 6 | Melhorn & Flemal, 1975 |
| 11: Nov. 10 | Eolian geomorphology: Chap. 10 | Cooke & Warren, 1973; Lancaster, 1995 |
| 12: Nov. 17 | Glacial geomorphology: Chap. 11 | Benn & Evans, 1998; Bennett & Glasser, 1996 |
| 13: Nov. 24 | Periglacial geomorphology: Chap. 12 | French, 1996; Washburn, 1979 |
| 14: Dec. 1 | Coastal geomorphology: Chap. 13 & sea level: Chap. 17 | King, 1972; Komar, 1976, 1983 |
| 15: Dec. 8 | Geochronology: Appendix B & E-reserve article; END, UNIT 3; Exam, Thurs, Dec. 11 | Wagner, 1998; Noller et al., 2000 |