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**GEOLOGY 103--PHYSICAL GEOLOGY ONLINE**

**COURSE OUTLINE AND SYLLABUS**

**Summer Term, 2014**

**INSTRUCTOR:** Dick Ehrman

**PHONE:** Cell: 429-1327 (if no answer leave message on machine).

**E-MAIL:** [richard.ehrman@doane.edu](mailto:richard.ehrman@doane.edu) (Note: I may not check my e-mail every day, so if your e-mail is particularly important, it may be a good idea to contact me by phone as well.)

**NOTE:** As per Doane policy, you **MUST** submit ALL coursework for a grade in online courses via your Doane email account or through Blackboard. Since much of the communication in this class will take place via email, please make sure that your Doane account is activated and functioning before beginning this class.

**MEETING TIME:** **ONLINE CLASS;** no regular class meetings.  
**INITIAL ORGANIZATIONAL MEETING:** Tuesday, May 27, 2014 from 6:00 to about 9:00 PM. If students and/or the class as a whole desire, we can schedule more “formal” class meetings either on assigned weeknights or Saturday mornings. The Summer term runs from May 26-July 26, 2014.

**“OFFICE”:** Of course, I don’t have an assigned office space, but if you need to see me in person, I am normally at Doane-Lincoln on scheduled class evenings (usually Tuesday) by about 4:30 PM in either Room 305 or 303, and I normally have lab or am working on Saturday mornings from 8:30 AM to about noon, again usually in Room 305 or 303. Feel free to stop by and visit me at either of these times, otherwise, specific appointments can be scheduled.

**TEXTS:** **Main text (required):** Spooner, A.M. 2011. *Geology for Dummies* (Hoboken, NJ: Wiley Publishing, Inc.). 360 p. ISBN: 978-1-118-02152-1.

**Additional text (provided):** Korus, J.T *et al.* 2013. *The Groundwater Atlas of Nebraska* (Resource Atlas RA-4b). 64 p. (This is referred to as GWAN in your reading assignments; it's provided with your lab map packet which you will pick up at the first class meeting.)

**Additional text (not required but made available via Blackboard):** Murck, B.W. 2001. *Geology: A Self-Teaching Guide*. New York: John Wiley & Sons. 328 p. ISBN: 0-471-38590-5. **IMPORTANT NOTE:** This text is out of print, but it is available as a PDF file at NO COST to you! You will be given instructions on accessing it on Blackboard at the initial class meeting.

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## WEBSITES:

In addition to the resources listed above, the internet is a nearly endless source of geological information about almost any subject. Simply go to your favorite search engine and type in "geology" or whatever topic you're interested in and you'll come up with dozens of sites to explore. Your assignments will include links to a lot of great websites, but here are some of my favorite general geology sites to get you started:

U.S. Geological Survey: [www.usgs.gov](http://www.usgs.gov)

Earth Science on the Web: [www.geology.com](http://www.geology.com)

About Geology: <http://geology.about.com>

## CLASS SCHEDULE

As already specified, this is an online class and as such there is no "schedule" per se w/ lectures, class meetings, in-class tests, etc. However, I plan to provide you with assignments on pertinent topics that you can complete on a more-or-less weekly basis throughout the term. An approximate schedule follows—it is provided more as a guide so you can keep up with your text reading and online work than anything else. You can vary your schedule at your own discretion, but just remember that **all "weekly" Assignments 1-10 and the short essay exam are due on the specified dates if you wish to have me give you feedback; your remaining work (lab exams, multiple choice exam) is due by the end of the term (i.e. Saturday of Week 9).**

**REMEMBER: There are FOUR (4) required activities for this class:**

- 1. The ten (10) weekly assignments;**
- 2. The short essay exam;**
- 3. The multiple choice exam; and**
- 3. The four (4) lab exams.**

**I will provide all assignments and instructions via email within one day of the organizational meeting. The assignments, instructions, and PDFs of the ancillary texts will also be posted on Doane's Blackboard site; instructions for accessing this material will be provided at the organizational meeting.**

**You may also do extra credit work as outlined in the course description, which will be provided to you at the organizational meeting. ALL COURSEWORK (the 4 required activities and any extra credit work) is due by the end of the term. IF YOU DO NOT TURN IN ALL REQUIRED WORK BY THE END OF THE TERM, YOU WILL ONLY RECEIVE THE POINTS EARNED ON THOSE ASSIGNMENTS TURNED IN.**

**SCHEDULE (suggested; you can complete your assignments at your own pace)**

<b><u>Date (End of Week)</u></b>	<b><u>Topics</u></b>	<b><u>Readings</u></b>
Week 1 (May 31)	Introduction; Scientific Method <b>Assignment 1</b> Begin Lab #1—Minerals	Ch. 1, 2  Lab #1
Week 2 (June 7)	History of Geology <b>Assignment 2</b> Elements & Minerals	Ch. 3  Ch. 5, 6

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	<b>Assignment 3</b> Finish Lab #1—Minerals <b>Lab Exam 1—Minerals</b>	Lab #1
Week 3 (June 14)	Rocks <b>Assignment 4</b> Begin Lab #2—Rocks	Ch. 7
Week 4 (June 21)	Plate Tectonics <b>Assignment 5</b> Finish Lab #2—Rocks <b>Lab Exam 2—Rocks</b> (NOTE: Lab Exam 2 covers all three rock types, so you should coordinate this lab with your studies in Weeks 3-4.) <b>ASSIGNMENTS 1-5 DUE FOR COMMENT!</b>	Ch. 8, 9, 10
Week 5 (June 28)	Mass Wasting Water <b>Assignment 6</b> <b>Assignment 7</b>	Ch. 11 Ch. 12, 15
Week 6 (July 5)	Glaciers <b>Assignment 8</b> Lab #3—Topographic Maps <b>Lab Exam 3—Topographic Maps</b>	Ch. 13
Week 7 (July 12)	Wind <b>Assignment 9</b> Nebraska Geology/Ground Water <b>Assignment 10</b> Lab #4—Geologic Maps <b>Lab Exam 4—Geologic Maps</b> <b>ASSIGNMENTS 6-10 DUE FOR COMMENT!</b> <b>SHORT ESSAY EXAM DUE FOR COMMENT!</b>	Ch. 14 GWAN
Weeks 8-9 (July 19-26)	Revise assignments Complete lab assignments/exams (if not already done) Complete multiple choice exam Course evaluation <b>LAB EXAMS, MULTIPLE CHOICE EXAM, AND ALL REMAINING WORK DUE NO LATER THAN JULY 26!!!</b> <b>*REMEMBER* that you need to turn in all 4 required activities (the 10 weekly assignments, the short essay exam, multiple choice exam, AND the 4 lab exams) AS WELL AS YOUR LAB MATERIALS!!!</b>	