Syllabus for Geology 3000 – Geologic Maps
Spring 2008

Instructor: Vicki Hansen  Jim Miller
Office Hours: M&W 10-11, or by appt.  Tues 12-2, or by appt.
Office: 106 Heller Hall  211 Heller Hall
Phone: 726-8628  726-6582
E-mail - vhansen@d.umn.edu  mille066@umn.edu

Class Meeting Time/Location:
  Lecture: 8:00 - 8:50 PM, Mondays
  Labs: 8:00-8:50 PM, Tues and Wed.
  Location: Chem 207

Computer/Internet Access: Room 108 Heller Hall (after hours, get key from Kirby Information Desk (between Kirby Bookstore and lower level of Heller Hall)

Class Text:
The Map that Changed the World: William Smith and the Birth of Modern Geology.
By: Simon Winchester, 2001, Harper Collins publishers
Available at most commercial bookstores or may be ordered on-line.

Other assigned readings will be posted as pdfs on the class website.

Class Website:  www.d.umn.edu/~mille066/Teaching/geomaps08.html  CHECK THIS SITE OFTEN!  This site will be updated weekly as handouts, assignments, and related information are posted for downloading. Any Powerpoint lecture presentations given in class will also be downloadable from the website.

Attendance/Participation: Since most information will be conveyed through lecture, discussion, and hands-on lab exercises rather than through a textbook, it is critical that you attend each and every class and that you actively participate. The material in this course also builds on itself day-to-day and week-to-week—it is critical that all students keep up all along the way. Material covered in lecture relates conceptually to the material covered in lab; concepts covered in each part of the course are critical to the other. Do yourself, and your classmates, a favor and do not fall behind, and please, ask questions all along the way. What you get out of the class will depend very much on what you, and your classmates, put into the class; investigative discussions are key.

Lecture and Lab Topics: A tentative list of lecture and lab topics is posted on the class website. Again, the website will be updated with reading assignments, notices, downloadable information, handouts, and powerpoint lectures as the course progresses – so check it often.

Lab Exercises: Most lab sessions will involve hands-on work with geologic maps that can be completed in class. If more time is needed to complete a lab exercise, a schedule of when the room is available will be posted. These exercises will count for 40-50% of your grade.

Equipment for Lab: Bring to every lab. Most of this can be purchased from the Kirby bookstore.
  a) calculator with trig. and inverse trigonometric functions (unless you love using the old tables!)
  b) metric ruler (15 cm minimum length, also divided in tenths)
c) 180° or 360° protractor (180° recommended
or d) Ruler-protractor combination (can be substituted for b & c; clear is best; check for
division in 10ths rather than 8ths)

e) drafting pencils (2H, 4H); 0.5mm mechanical pencils are good as they are always sharp
f) colored pencils (set of eight or more); Sanford Colerase work best and are available in the
UMD store (art supply area)
g) soft eraser
h) 8.5 x 11 inch tracing paper can be useful—pick up a tablet of the stuff?
i) Useful: Zip-a-dip (I think that UD geology club sells these)
j) Useful: triangle set: 30° - 60° - 90° and 45° - 45° - 90°; 5” minimum beveled edge length

Homework: Homework assignments will be given out intermittently throughout the course and
will count for 15-20% of your grade. Homework assignments will be due a week from when
they are assigned. Labs and homework assignments will be counted 25% off for every day
late, unless permission to turn it in late is requested and given in advance of the due date.

Exams/Quizzes: There will be no midterm or final exam for this class. Several quizzes may be
given over the course of the class, which could comprise up to 15% of your final grade.
Quizzes can only be made up ahead of time and only with prior approval- NO
EXCEPTIONS. Be aware that quizzes may be ‘pop’ quizzes, and as such, cannot be made up.

Book Report: A book report on the assigned text (The Map That Changed The World) will
required in lieu of a midterm exam. This report will count toward 10% of your grade.

Final Field Mapping Exercise and Field Trip: Over the final three weeks of the class, our focus
will be directed toward conducting geologic field mapping near the town of Thomson (~15
miles west of Duluth) and creating a geologic map. This final exercise will require a two-day
field trip on Saturday and Sunday, April 19-20. We will plan to overnight camp at nearby Jay
Cooke State Park on Saturday night. Students are encouraged to revisit the field area on
their own if they require more time to complete the mapping project. This final exercise will
count for approximately 20% of your grade.

Grading: To summarize, final grades will be tentatively based on the following percentage
breakdown. We will notify the class of any significant changes as they occur:

<table>
<thead>
<tr>
<th>Category</th>
<th>Percentage</th>
</tr>
</thead>
<tbody>
<tr>
<td>Lab exercise</td>
<td>40-50%</td>
</tr>
<tr>
<td>Homework Assignments</td>
<td>15-20%</td>
</tr>
<tr>
<td>Quizzes</td>
<td>10-15%</td>
</tr>
<tr>
<td>Midterm Book Report</td>
<td>10%</td>
</tr>
<tr>
<td>Final Mapping Exercise</td>
<td>20%</td>
</tr>
<tr>
<td>TOTAL</td>
<td>100%</td>
</tr>
</tbody>
</table>

Students with Disabilities: Individuals who have any disability, either permanent or temporary,
which might affect their ability to perform in this class are encouraged to inform the
instructors at the beginning of the semester. Adaptations of methods, materials, or
evaluations may be made as required to provide equitable participation.

This syllabus is subject to change.