UNIVERSITY OF ALBERTA
DEPARTMENT OF EARTH AND ATMOSPHERIC SCIENCES
EAS 201 A1: EARTH SCIENCE I

Syllabus Fall 2010

INSTRUCTOR
Dr. Hans G. MACHEL
ESB 4-15, phone: 780-492-5659
hans.machel@ualberta.ca

OFFICE HOURS
Wednesdays, 8 - 9:45 a.m. + "anytime"
But: students who do not have the required prerequisites at the time of taking this course should not expect supplementary professorial tutoring from the instructor.

LECTURE LOCATION
TL 12

LECTURE TIMES
Mon, Wed, Fri 10 - 10:50h

REQUIRED TEXTBOOK
John Wiley & Sons, 584 pp.+ CD-ROM
new @ UofA Bookstore - about $ 145.00
used @ UofA Bookstore - about $ 110.00

Optional textbook supplements
Study guide to accompany textbook:
not recommended

FOR KEENERS
The Land Before Us - The Making of Ancient Alberta.

A traveller's guide to geological wonders in Alberta.

Edmonton Beneath Our Feet.

How to shit in the woods. Kathleen Meyer.
REGISTRATION

Make sure you are properly registered. If your name appears on the official class list, you are properly registered. If not, make sure you correct that before the deadline (above) at the Faculty of Science office (BioSci). You will NOT get credit for the course unless you are properly registered.

The class lists distributed to the instructors contain only your UofA e-mail account. Memos will be sent only to that e-mail address. Make sure to check it, or link your “other” e-mail account to your UofA account.

COURSE OUTLINE

EAS 201 Earth Science I
*3 (fi 6) (either term, 3-0-0). A non-laboratory introduction to the origin and evolution of the Earth and the solar system. Introduction to plate tectonics and the rock cycle. Simple energy balances and interactions between radiation and the atmosphere, land, oceans, ice masses, and the global hydrological cycle. Evolution of life, biogeography, and global climate in the context of geologic time. The carbon cycle. Human interactions with the Earth. Mineral and energy resources. Not available to students with credit in EAS 100, 101, 102, 210 or SCI 100. (Note: EAS 201 and EAS 200 are considered to be equivalent to EAS 100 for prerequisite purposes). [Faculty of Science]

GFC POLICY ON COURSE OUTLINES

“Policy about course outlines can be found in Section 23.4(2) of the University Calendar.”

COURSE OBJECTIVES

The main course objective is to cover all the topics listed in the Course Outline, which includes the arguably most politicized geoscientific topics of these times: (1) Global Warming / Global Climate Change, and (2) the role of fossil fuels driving economies and as environmental hazards. A supplementary but no less important objective is to acquire a working knowledge of “The Scientific Method”, which is at the base of not only this course but of many other courses, especially in the Faculty of Science. Every citizen should have a working knowledge of The Scientific Method. The penultimate objective of this course thus is to help in becoming a conscientious member of society.

READING ASSIGNMENTS

For the lectures, there will be no designated reading assignments. You are expected to read the chapters of the textbook that embody the material that was covered in the lectures. Throughout the term, browse through the textbook and read those passages carefully that have been covered in the lectures.
MIDTERM AND FINAL EXAMINATIONS

<table>
<thead>
<tr>
<th>EXAMS</th>
<th>weights</th>
<th>dates</th>
</tr>
</thead>
<tbody>
<tr>
<td>midterm examination (multiple choice)</td>
<td>40%</td>
<td>Oct-18-2010</td>
</tr>
<tr>
<td>final examination (multiple choice)</td>
<td>60%</td>
<td>Dec-17-2010</td>
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Examples of a previous exam questions will be posted on this course’s website latest one week prior to each exam.

The exams will be marked in %, and the final mark will be converted into the UofA Letter Grade system. 

No marks are given for class participation and other in-class activities. The final mark will be converted into the UofA Letter Grade system. No particular distribution will be used to determine grades, and no absolute measures or marks will determine them. Rather, a combination of the two will be used (see Section 23.4 of the University Calendar).

Deferred exam policy (see Section 23.5 of the University Calendar): Anyone missing the midterm exam must provide a valid excuse in writing to the instructor latest on the date of the last lecture of the term. The weight of the midterm will be rolled into the final exam: the final will count for 100% of the total course grade, if a student misses the midterm exam with a valid excuse. If the instructor does not receive a valid excuse in writing, the midterm will be assigned a mark of zero %.

Final exams: only the Faculty Office is allowed to grant deferrals for final exams. Students who are granted permission to sit a deferred final exam must do so on Saturday, January 15, 2011, from 10:00–13:00 hours, in HMTory 3-50.

OTHER DATES OF IMPORTANCE

- September 8: Fall Session classes begin (1st and full term courses)
- September 21: Fall Registration Deadline
- October 11: Thanksgiving Day; University Buildings closed
- November 05: class cancelled (instructor at conference)
- November 11: Remembrance Day Holiday; University Buildings closed
- November 12: Fall Term Class Break; no classes scheduled
- December 8: Last Day of Classes (1st and full term courses)
- December 10-22: Final examinations, 1st term
- December 25-31: Christmas holiday period; University Buildings closed
NO RECORDING

Recording of lectures is not permitted. Recording of anyone's conversations or lectures without that person's permission is illegal.

CELL PHONES / PAGERS/ iPods etc.:

Please turn them off.

SSDS - Specialized Support and Disability Services

http://www.uofaweb.ualberta.ca/SSDS/

WRITING SKILLS (--- append ed info)

University students should have a good dictionary and a manual of style, such as Turabian, K.L., *A manual for writers of term papers, theses, and dissertations*. There are writing competence classes offered at the University.

CODE OF STUDENT BEHAVIOR (--- append ed info)

*from GFC Policy Manual Section 30: Code of Student Behaviour:*

http://www.uofaweb.ualberta.ca/gfcpolicymanual/content.cfm?ID_page=37633

"The University of Alberta is committed to the highest standards of academic integrity and honesty. Students are expected to be familiar with these standards regarding academic honesty and to uphold the policies of the University in this respect. Students are particularly urged to familiarize themselves with the provisions of the Code of Student Behaviour at

www.uofaweb.ualberta.ca/secretariat/studentappeals.cfm_

and avoid any behaviour which could potentially result in suspicions of cheating, plagiarism, misrepresentation of facts and/or participation in an offence. Academic dishonesty is a serious offence and can result in suspension or expulsion from the University."

CAREERS IN THE GEOSCIENCES (--- append ed info)
DEPT. OF EARTH AND ATMOSPHERIC SCIENCES

COLLECTIONS / MUSEUMS

EAS, Provincial Museum, Space Science Center, Royal Tyrrell

FIELD TRIPS

We may go to a movie, or something else of geologic interest.

A FIELD GUIDE TO CRITICAL THINKING

ACADEMIC FREEDOM

DISCLAIMERS

*University Calendar Section 23.4(2)d: Nothing in any course outline, syllabus or course web-site may override or contravene any Calendar regulation or GFC policy. In resolving any discrepancy, GFC policy and Calendar regulations will take precedence.*

Any typographical errors in this Course Outline are subject to change and will be announced in class. The date of the final examination is set by the Registrar and takes precedence over the final examination date reported in this syllabus.