

MAR 581/481*. Geological Oceanography Syllabus

Date	Lecture	Reading: Chapter
10-Jan	Geophysical techniques and structure of Earth's interior	2
12-Jan	Geophysical techniques and structure of Earth's interior	2
17-Jan	<i>Holiday - Birthday of Martin Luther King, Jr.</i>	<i>Class will not meet</i>
19-Jan	Features of the seafloor - expressions of the Earth's interior	2
24-Jan	Stratigraphy	3
26-Jan	Geochronology	3
31-Jan	Continental drift and seafloor spreading	4
02-Feb	Plate tectonics	5
07-Feb	<i>Mardi Gras Holiday</i>	<i>Class will not meet</i>
09-Feb	Plate tectonics	5
14-Feb	Plate tectonics; Proposal Topic Due	2-5
16-Feb	Exam 1 ^a	6
21-Feb	Oceanic crust (<i>Not a USM holiday</i>)	7
23-Feb	Sea level	9
28-Feb	Seismic stratigraphy	9
02-Mar	Continental shelf and the shore; Proposal Question Due	10
07-Mar	Continental shelf and the shore	10
09-Mar	Continental shelf and the shore	10
14-Mar	<i>Spring Holidays</i>	<i>Class will not meet</i>
16-Mar	<i>Spring Holidays</i>	<i>Class will not meet</i>
21-Mar	Divergent continental margins	11
23-Mar	Convergent margins	12
28-Mar	Exam 2	6-11
30-Mar	Terrigenous sediments; Annotated Bibliography Due	13
04-Apr	Terrigenous sediments	13
06-Apr	Biogenic sediments	14
11-Apr	Biogenic sediments and Authigenic sediments	14
13-Apr	Plate stratigraphy	p. 627-630, 655-656
18-Apr	Deep-sea currents, processes and deposits	15
20-Apr	Marine microfossils	16
25-Apr	Approaches to paleoceanography	17
27-Apr	Paleoceanography; Proposal Due	18
02-May	Presentations	
04-May	Presentations	
09-May	Final Examination	2-7, 9-18

^a 22-Feb is the last day to drop this class without academic penalty

* MAR481 requires a term paper rather than a proposal.

Required text: J. P. Kennett (1982) *Marine Geology*.

Grades: Exams 25% each, Proposal or term paper 20%, Presentation 5%

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Place: Classroom 101; George Knauer Bld. (Bld. 1022), Stennis Space Center

Time: T/Th, 9-10:30 a.m.. The 10 extra minutes per class will allow three class periods to be eliminated as needed during the semester while maintaining 41 contact hours. I expect to be in the field one or more of these days. The class may decide how to use any unused extra days.

FTP Site: You may download the PowerPoint lecture presentations from the FTP site before each class. The PowerPoint lecture presentations and other large documents will be placed on the ftp site. The FTP site is local and can be accessed only via a USM computer in Buildings 1020 and 1022.
<ftp://mar581@moray.dms.usm.edu>. Non-degree-seeking students will need a logon and password for the DMS server to access the FTP site. Make arrangements with me. You may also get a logon and password for a USM e-mail account if you wish.

Website: <http://ocean.otr.usm.edu/~crunner/>. Most handouts for the course can be accessed and downloaded from the website. Please download the following documents: syllabus, Library resources, Proposal, and Homework assignment. Please do the Plagiarism tutorial. Please note that the lecture presentations must be downloaded from the FTP site on our local server.

All USM students are required to adhere to University standards of student conduct as detailed in the Student Handbook [<http://www.usm.edu/pubs/studenthandbook/>]. I recommend that students familiarize themselves with these policies and procedures, especially with regard to academic honesty and plagiarism, p. 75-86. Also, please review the Plagiarism Tutorial -

<http://www.lib.usm.edu/research/plag/plagiarismtutorial.php>.

If a student has a disability that qualifies under the Americans with Disabilities Act and requires accommodations, he/she should contact the Office for Disability Accommodations (ODA) for

The University of Southern Mississippi
Department of Marine Science

information on appropriate policies and procedures; Box 8586; Tel: 266-5024; TTY: 266-6837; Fax:
266-6331.