

SCI 5328 Marine Science

The University of Texas at Dallas

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MARINE SCIENCE COURSE DESCRIPTION AND GOALS

This course is an introductory survey of the principles of marine science. No prerequisites are required.

COURSE FORMAT

Marine Science is a WebCT-assisted course. Active participation is required in order to make a top grade. Attendance in class each week is highly recommended, but not strictly required.

Week of	Text Chapters/Topic	Other readings/activities
Jan 11	Chapter 1: Knowing the Ocean World Chapter 2: Origins	
Jan 18	Chapter 3: Earth Structure and Plate Tectonics Chapter 4: Continental Margins and Ocean Basins	
Jan 25	Chapter 5: Sediments Chapter 6: Water and Ocean Structure	
Feb 1	Chapter 7: Seawater Chemistry Chapter 8: Circulation of the Atmosphere	
Feb 8	Chapter 9: Circulation of the Ocean Chapter 10: Waves	
Feb 15	Chapter 11: Tides Chapter 12: Coasts Dr. Montgomery will be in Kenya	
Feb 22	Midterm exam	
Mar 1	Chapter 13: Life in the Ocean Chapter 14: Plankton, Algae, and Plants	
Mar 8	Spring Break	
Mar 15	Dr. Montgomery will be in Ghana. You have lots to do! Quiz Thursday	
Mar 22	Chapter 15: Marine Animals Chapter 16: Marine Communities	
Mar 29	Coral Reefs	
Apr 5	Chapter 17: Marine Resources Chapter 18: Environmental Concerns	
Apr 12	Module presentation Exam review	
Apr 19	Final exam	

FORMAT

Marine Science is a WebCT online course with one meeting per week (Wednesday @ 5:30). This course may be taken by anyone at any location utilizing WebCT.

ISH BANKS

ish Banks is a simulation software package we will utilize. You should read over the pdf and PowerPoint files associated with the simulation.

[Review](#) (At least read through the Stella modeling information.)

[Briefing](#)

[Briefing](#)

[ish Catch Data Slides](#)

NOTES

There is certainly no need to print out the notes. You might consider downloading the notes to your computer, if not printing them.

You may need to look up some terminology in the notes. There are several good web sources. Google seems to be the best search engine for this. You might also want to augment the notes and book with online sites. Do check with reputable URLs such as those produced by museums, universities, and the like. There are many. Students will inevitably post some of the best on the Discussion Board.

PRODUCING AN ONLINE LESSON

Concept

Each of you will produce an online lesson that would be appropriate for your students to finish in one or two days.

Procedure

The topic is up to you, but it should have something to do with marine science and be inquiry-based.

The format is up to you, but it should be "webbable" such as a PowerPoint, web page, pdf file, or even a QuickTime video.

You must include compelling visuals (digital images, perhaps video clips, animations, and the like).

You must assign TEKS.

Your work should be submitted via WebCT to the Online Lesson Folder.

Projects will be available on this site for your review.

You will send in the grade you would assign each project. This of course means that you must have reviewed each of the projects. Your grade will be an average of what the rest of the class has determined.

[In doubt about anything, just contact me. I will be more than happy to help with all phases of this project.](#)

TERM PAPERS

Concept

No way should a term paper be thought of as a weighty tome of facts gleaned from numerous sources. You must produce a concept, show data, and offer logical interpretations.

Your paper must be on a subject from this course. You might want to choose some discovery in the science news. The science link at news.bbc.co.uk is a good source for ideas. Use the search window and you will get lots of the latest discoveries.

I would strongly advise running your ideas past me before launching into a misguided effort.

Get started with each paper as early as possible in the semester. I will certainly be happy to review your paper for you if you get it to me before the cutoff dates in the syllabus. My review does not take into account what TurnItIn may turn up as direct material from the web. Note the cutoff dates for review.

Present data first and interpretation after.

Use only the metric system.

Do not include any illustrations.

format

it these headings in your paper:

TITLE (do not include a title page)

INTRODUCTION (what is the purpose of your paper?, what is your hypothesis?)

PREVIOUS WORK (a pertinent literature review)

body of your paper with whatever **SUBHEADINGS** you choose

CONCLUSIONS (sum up succinctly)

REFERENCES CITED (see detailed instructions below)

length of papers (use Word Count and be sure to count your entire paper, all parts)

paper One: The first paper must be **1,500 words** (approximately 5 double-spaced pages in 12 pt Times)

paper Two: The second paper must be **3,000 words** (approximately 10 double-spaced pages in 12 pt Times)
You must be within 100 words plus or minus of the stated length. There is a ten point penalty for each 100 words or part thereof outside of the 100 word window. The first paper must be between 1,400 and 1,600 words not to incur the penalties. The second paper must be between 2,900 and 3,100 words not to incur the penalties.)

[sample paper](#) (This is a ten page paper by a student in my evolution class for science teachers.)

reference sources

expect a minimum of 6 sources. Only include those references that you actually cited. All sources should be reputable. Reputable means library journals (Science, Nature, National Geographic, Discover, etc.) or web sites put up by universities, museums, or respected media with entire science sections such as the BBC. Do not use newspapers. Do not use web sites put up by individuals unless they are clearly scientists at a respected institution. URLs for web sites should be complete to permit navigation to the actual page from which you drew your information. I am not concerned about the format of references as long as it is relatively standard and consistent. Cite passages in the text and include those references in your References Cited. Please number your references and simply put corresponding numbers in the text. A reference would then be: Dust blown across the Atlantic from Africa clearly contains organisms that kill corals in the Caribbean (3).

cautions about TurnItIn results

use only a couple of short quotes at most. Direct quotes must have quotation marks. Otherwise, paraphrase and reference the part you paraphrased. Direct quotes (properly cited) incur no penalty if they are kept under a threshold of 5% of your paper. Papers exceeding 5% direct quotes (as determined by TurnItIn) incur a penalty minus one point for each 1% above the 5% threshold. This means that a paper with 50% direct quotes will score no higher than 55 out of 100. (Please note: TurnItIn sometimes counts URLs in your References Cited section in its originality report. I would thus advise adding up all of your quotes and the URLs to be sure you are under 5%.) All other deficiencies will be subtracted from the TurnItIn lowered score. The point here is that I want your paper to be your creation, not merely your assembly of what others have written. Papers with excessive non-original material (above 50%) that is not placed in quotes (plagiarism) will be reported for possible official disciplinary action.

form paper grading rubric

Correct number of words.

Format followed: 20 points

Conclusions are compatible with your arguments: 20 points

Makes sense (logical): 20 points

Did you take a position and defend that position well? (Make strong statements and defend them.): 40 points

TurnItIn does not automatically grade your papers. I do this one paper at a time, a process that can take a few days. No paper will be returned to you. It remains in the reference archive at TurnItIn.com. Log in to the term

per section of WebCT and you can view my comments. You can also access your TurnItIn report at that site.

Due dates and procedures (rough drafts and final editions)

Rough drafts and term papers are due on the dates indicated in this Syllabus. No drafts or papers will be accepted after posted deadlines.

Rough drafts: must be given to me in class, left it in my office, mailed to my office, or submitted as an e-mail attachment. I will edit your paper draft within a day or two and put it in the box in the hall outside my office (N3.118). Only send me an e-mail draft if you are familiar with the change tracking feature in Word. Your draft will be edited with this feature.

Final editions: The only way to receive credit for your paper is to follow the TurnItIn procedure (below). TurnItIn is programmed to stop accepting papers after the indicated day. Do not give me a hard copy of your submitted papers. Do not e-mail me your paper.

Submitting your papers to TurnItIn

Go to: www.turnitin.com

Choose *User Login*

Enter your e-mail address and choose a password with more than five characters that includes both letters and numbers. Do not use characters such as underlines or dashes.

Enter your name, state and country, plus any optional fields that you want.

Now that you have created a login and password, choose *login*

Choose *Student*, then enter the e-mail address and password you just created.

Choose *Join New Class*

For class id enter: **available soon**

For "Enrollment Password" enter: **available soon** (case sensitive)

Marine Science should appear.

At the bottom of the page, you'll see "Instruction Manual" The link downloads a word document that contains step-by-step instructions plus screen shots for submitting your paper.

To continue, click on *Marine Science*

1. Choose *Submit*

2. Use your name for the title of your paper.

3. Select the appropriate assignment from your choices.

4. Upload your paper as a Word document (Mac or Windows). Do not upload in any other format. Do not cut and paste your document in.

5. Verify the entry is as you want it. Write down digital receipt ID (notice will also be e-mailed to you). You are now free to leave the website.

XAMS

Procedure

Each exam will be available from the beginning of the class period until midnight. Each must be taken on WebCT.

No extensions of deadlines will be granted without proper written excuse. Any computer or network problems that prevent your taking a quiz on time are not a suitable excuse.

PS

Utilize various (reputable) websites to search for answers if your book or the notes fail you. You may find conflicting answers. Remember, the questions are drawn preferentially from my notes and the textbook.

FINAL GRADE

Online Lesson

10%

1st Term Paper

10%

2nd Term Paper

10%

Midterm Exam

10%

Final Exam

)%

INCOMPLETES

do not give incompletes without proof of major medical or similar serious problems. I will require an explanatory letter for my file.

FIELD TRIP TO GALVESTON

may or may not be offered depending upon interest.

stuff to bring: sleeping bag, ground pad or cot, mosquito repellent, short pants, short sleeve shirt, Nikes or Vas or whatever for hiking in the marsh, flashlight, reasonably nice clothes for restaurants, poncho or equivalent if rain is in the forecast, notebook and pencils, camera, towel, toiletries, small backpack, hat, water bottle, sun screen.

STATEMENTS

this course students will conform to the University rules for academic honesty. For further information see <http://www.utdallas.edu/student/sliffe/dishonesty.html>

information from this course can be provided to students with disabilities through University services. For more information see

<http://www.utdallas.edu/student/sliffe/hcsvc.html>