

Lectures for ORE 202: Ocean Technology : 'Man in the Sea'
Tuesday and Thursday 1:30-2:45pm, Holmes Hall 211

A. Introduction	Date	Lecturer
1. Introduction to the Course	Jan 12	JW
2. Geological Resources and their Limits	Jan 14	GM
B. Geological Oceanography		
3. Earth History and Ocean Basin Formation	Jan 19	JW
4. Plate tectonics I	Jan 21	JW
5. Plate tectonics II	Jan 26	JW
6. Development of Offshore oil I	Jan 28	JW
7. Methane Hydrates and Offshore oil II	Feb 2	JW
8. Floating structures	Feb. 4	JW
C. Physical Oceanography		
9. Currents	Feb 9	BH
10. Wind	Feb. 11	BH
11. Waves and Surf	Feb 16	BH
12. Tides	Feb 18	BH
D. Coastal Engineering		
13. Sediments	Feb. 23	BH
14. Coastal engineering	Feb 25	BH
15. Harbors	Mar 1	BH
16. MIDTERM EXAM	Mar. 3	BH
E. Chemical Oceanography		
17. Structure of water	Mar. 8	BH
18. Salinity, pH and desalination	Mar. 10	BH
F. Acoustics		
19. Acoustics I	Mar. 15	BH
20. Acoustics II	Mar. 17	BH

Spring Break- March: 21-25

E. Biological Oceanography

21. Photosynthesis, Plankton and Fisheries	Mar 29	JW
22. Aquaculture and food production	Mar. 31	JW

F. Offshore Engineering

23. Vessels	April 5	JW
24. Submersibles & marine technology	April 7	JW

I. Ocean Resources Engineering

25. Minerals I	April 12	JW
26. Minerals II	April 14	JW
27. OTEC	April 19	JW
28. Wind power	April 21	JW
29. Wave power	April 26	JW
30 Tidal and Current Power	April 28	JW

J. Conclusion

31. Future developments	May 3 th	BH
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30 lectures

1 midterm exam (30%), 1 final exam (40%) , 3 four page assignments (10% each)

JW (John Wiltshire- associate chairman, Department of Oceans and Resources Engineering)

BH (Bruce Howe- chairman, Department of Oceans and Resources Engineering)