



**Diving Research Methods**  
**BIOL 5589 Fall 2011 (2 cr)**

Instructor:

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<b>Date</b>	<b>Lecture Topic</b>	<b>Dives</b>
Wed 8/31	Dive Paperwork Inspection (Group 1)	Checkout Dive (1)
Wed 9/7	Class Introduction Scientific Diving & AAUS	-----
Sat 9/10	Dive Paperwork Inspection (Group 2)	Checkout Dive (1)
Sun 9/11	CPR & First Aid Certification	-----
Tues 9/13	Cylinder Inspection / Tank Filling Tank Filling Exam Pre/Post dive logistics	AM: Seastar transects @ CB or PHB (2) PM: Seastar transects @ PHB or CB (3)
Tues 9/20	Underwater Navigation	AM/PM switch: 1) Kelp Growth experiment @ CB or PHB (4) 2) Benthic Cover/Mobile Fauna Quadrats @ JB (5)
Wed 9/27 or Thu 9/28	Dive Expedition Planning	Offsite Dive, Eastport Maine (6)
Wed 10/5	Rescue Dive Training Briefing Oxygen Administration	AM: Rescue Dive Exercise (7) PM: Nubble Light, York Maine (8)
Tue 10/11	Underwater Cameras & Video Digital photo & video processing Measuring topographic complexity	AM: Camera or Video / Check Kelp (9) PM: Mobile Fauna @ PHB (10)
Tue 10/18	Night Diving	PM: Mobile Fauna transect day @ CB (11) PM: Night Dive - CB Mobile Fauna transect (12)
Thu 10/25	DCS Theory and the Scientific Diver	AM: Kelp Growth Lab wrap-up (13)

	Dive Computers Review for Final Exam	PM: Small Boat Dive w/ Navigation (14)
Tues 11/1	Final Exam Remaining Safety / Data Presentations	Makeup Dives as needed
T.B.D.	Large Boat Diving	Large Boat Dive w/ Cape Ann Divers or R/V Gulf Challenger

Class Dive Number indicated in parentheses, next to Dive Objectives

CB = Canoe Beach

PHB= Pump House Beach

<b>Grading:</b>	CPR / First Aid	10%
	Tank Inspection Exam	10%
	02 Administration / Rescue drills	10%
	Final Exam	30%
	Dive Notebook / Journal	30%
	Class Participation*	10%

\* Participation Grade based upon:

- 1) timely data entry
- 2) timely dive log administration
- 3) general assistance with dive locker cleanup and other dive-related duties
- 4) Graduate students will also be responsible for data analysis and presentation from one of the field experiments, and for presenting a brief (< 5 min) case study to the class.

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