

A Marine Approach to Introductory Biology: BIOSM 1110, Shoals Marine Laboratory, Course Log from 2008

Date	Start	Stop	People	Title	Activity	Description
30/06/08	1415	1420		students arrive		
30/06/08	1420	1435		observe LT	Field	
30/06/08	1440	1500	Hanna	fire and water	Discussion	
30/06/08	1500	1535		move in		
30/06/08	1545	1615		picture and intro	Discussion	
30/06/08	1620	1700	DT, JBH	intro to island	Discussion	
30/06/08	1700	1730	DT	island tour	Field	
30/06/08	1900	1955		BP Tidal Seas	Movie	
30/06/08	2000	2030	DT	observe HT	Field	
1/7/08	830	912	DT, JBH	grading format, health issues, issues about island	Discussion	explanation of daily quiz, weekly exam and projects 250 points per week- quizzes 20 about 20 pts., project 40-60 pts, class participation 10 pts, exam 80-100 pts. This week quiz 20pts., exam 100 pts., class participation 10 pts., and project 60 pts. Any health issues? Backpack- warmies, rain gear, sun screen, hat, sun glasses, binocs
1/7/08	924	1034	JBH	Solar Systems and Plate Tectonics	Lecture with Power Point	solar insolation, Hadley cells
1/7/08	1034	1049		break		
1/7/08	1050	1152	JBH	Solar Systems and Plate Tectonics	Lecture with Power Point	surface winds, continental drift
1/7/08	1332	1409	DT	Sakia	Demonstration	showing students how to use sakia, assigned VARK paragraph
1/7/08	1410	1417	JBH	assign readings	Assignment	explained the difference between 1, 2, 3, and 4 level literature
1/7/08	1417	1500	JBH	Coriolis	Lecture with Power Point	
1/7/08	1510	1651	RK, RF	field observations	Field	made observations at transect 21 and 26
1/7/08	1900	2000	JBH, Captain Kevin, HE Mike	around island tour	Field Trip	toured islands viewed seals, cormorants, terns, and gulls
2/7/08	830	910	RK, RF	quiz #1	quiz	
2/7/08	912	1028	JBH	Marine vs. Terrestrial	Lecture with Power Point	continental drift, ocean productivity, food chains

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2/7/08	1045	1232	DT	New England Landscapes and Underlying Levels of Biological Organization	Lecture with Power Point	an intro to biomes, ecosystems, community, levels of organization
2/7/08	1335	1344	RK	explain project 1	Assignment	
2/7/08	1400	1450	DT, RK, RF	field collection	Field	transect 26 collecting intertidal organisms
2/7/08	1500	1540	RK, RF	field observations	Field	discussing intertidal zones
2/7/08	1910	2055	JBH, DT, RK, RF	examining organisms	Lab	learn to use scopes and look at intertidal organisms
3/7/08	500	730	DT, RK, RF	transects	Lab	transects 26 and 27 at low tide
3/7/08	830	957	DT	New England Landscapes and Underlying Levels of Biological Organization	Lecture with Power Point	community and population dynamics
3/7/08	1014	1116	JBH	BS419: Modern Biomes of the World	Lecture with Power Point	
3/7/08	1132	1230	DT	Stream Morphology and Human Impact	Lecture with Power Point	views of rivers, reality of water, watersheds, fluvial processes
3/7/08	1500	1535	RK, RF	quiz#2	quiz	
3/7/08	1542	1721	Matt Kelly (PhD)	Eyes and Ears in Marine Verts	Lecture with Power Point	differences between terrestrial and marine mammals
3/7/08	1920	2045		PE: Pole to Pole	Movie	
4/7/08	500	650	RK, RF	field collection	Field	transects 20 and 21 at low tide
4/7/08	1000	1230		PHWH Online Training	Assignment	worked on completing online training modules 1-4
4/7/08	1336	1417	RK, RF	quiz#3	quiz	
4/7/08	1420	1432	RK, RF	review quiz#2	quiz	returned and reviewed quiz#2
4/7/08	1433	1800		Project 1 Work Time	Assignment	compiled data and started oral presentations
4/7/08	1933	2030		PE: Coasts	Movie	
5/7/08	938	1230	JBH, DT, RK, R	Presentations of Project 1	Assignment	Presented oral presentations 3 times. First time to two people, second time to other two, third time to whole group. Graded using Transect Project Rubric. Third presentation graded worth at total of 60 points.

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5/7/08	1335	1447	RK, RF	discussion on readings	Discussion	reading scientific information, food chain vs. food web, what is "fishing down", top down vs. bottom up, cod and lobster, "tragedy of the commons", and importance of history in science
5/7/08	1500	1532	DT	Appledore remote	Lab	google earth and introduction to sampling method
5/7/08	1533	1748	DT, RK, RF	PHWH Sampling	Lab	pebble count of PHWH
5/7/08	1750	1812	DT	PHWH Data Analysis	Lab	entered data from pebble count of PHWH
5/7/08	1900	1926	RK, RF	review quiz#3	quiz	
5/7/08	1928	2031	JBH	Physics of Tides	Lecture with Power Point	
6/7/08	1100	1347	RK, RF	Exam 1	Exam	
6/7/08	1306	1700	Tom Seeley Ph	Animal Communication	Lecture with Power Point Field Discussion	conversation about communication, field observations of gulls, and discussion about field observations
6/7/08	1808	1830		return intertidal organisms	Field	returned organisms to transect 26
6/7/08	1842	2030		LITU Invasions of the Land and Supersocieties	Movie	
7/7/08	900	1202	Tom Seeley Ph	The Dance Language of Bees	Lecture with Power Point Field Discussion	the story of KvH, observation of the waggle dance, conversation about where the bees are flying
7/7/08	1330	1400	JBH, DT	explain project 2	Assignment	explain gull project
7/7/08	1400	1545		Project 2 Work Time	Assignment	field time to observe gulls
7/7/08	1600	1830	JBH, DT, RK, RF, Meg, and Captain Kevin	Oceanographic Cruise	Field Trip	salinity, m and m, density, depth, turbidity, plankton tow
7/7/08	2000	2127	JBH, DT, RK, R	Plankters	Lab	examine plankton samples
8/7/08	830	900	RK, RF	quiz#4	quiz	
8/7/08	915	1230	Tom Seeley Ph	Animal Cognition	Lecture with Power Point Field Discussion	lecture on animal cognition, gull eating patterns
8/7/08	1325	1334	Tom Seeley Ph	Reviewing Field Results	Discussion	talking about outcome of gull eating patterns
8/7/08	1335	1437	Karl Niklas PhD	Intro to Plants	Lecture with Power Point	intro to plants, photosynthesis, water vs. air plants

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8/7/08	1500	1551	DT	Lecture on Science	Lecture with Power Point	science good or bad what is science
8/7/08	1615	1712		Return of the Cuyahoga	Movie	
8/7/08	1900	2005	Karl Niklas PhD	Plants Part 2	Lecture	plant reproduction
9/7/08	830	910	RK, RF	quiz#5	quiz	
9/7/08	910	1040	Karl Niklas PhD	Plants Part 3	Lecture	Lecture on plant types and field trip to look at different plants around the lab
9/7/08	1330	1430	Karl Niklas PhD	Plants Part 4	Lecture with Power Point	plant modification and dispersal
9/7/08	1540	1645	JBH	Intro to Neurobiology	Lecture with Power Point	
9/7/08	1900	2000	Karl Niklas PhD	Plants Part 5	Lecture	evolution
10/7/08	830	910	RK, RF	quiz#6	quiz	
10/7/08	910	1040	Karl Niklas PhD	Plants Part 6	Lecture with Power Point	information about Karl's research/ no notes taking by students
10/7/08	1040	1230		Project 2 Work Time	Assignment	
10/7/08	1414	1519	JBH	Sensory Neurobiology	Lecture with Power Point	an overview of the five senses
10/7/08	1530	1630		Living Together	Movie	
10/7/08	1635	1735		Human Footprint	Movie	
11/7/08	830	1020		Exam 2	Exam	
11/7/08	1040	1200	Kevan Carpent	Air Map	Lecture with Power Point	climate change impact on humans and the environment
14/7/08	1530	1600	RF	Lasagna Composting	Field Trip	introduction to lasagna composting method
14/7/08	1630	1700	Matt	Lasagna Making	Field Trip	made dinner
14/7/08	1915	2035	WB	Systematic	Lecture with Power Point	History and introduction of phylogenetics
14/7/08	2045	2121	Jan Factor, PhD	Lobsters	Lecture with Power Point	Lobster life cycle
14/7/08	2121	2157	Jan Factor, PhD	Looking at lobsters	Lab	
15/7/08	830	900	SM, RF	quiz#7	quiz	
15/7/08	900	930	DT	explain project 3	Assignment	explanation of project 3 evo/ devo
15/7/08	940	1100	Alan Richmond	From starfish to mammals-- the deuterostomes	Lecture with Power Point	
15/7/08	1110	1230	Nate, PhD	Smuttynose- Archeology	Field Trip	

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15/7/08	1330	1430	DT	Adaptation and Evolution	Lecture with Power Point	Adaptation, Fitness, Natural Selection, Evolution
15/7/08	1445	1550	DT	Project 3 Worktime	Assignment	Time to work on weblogs
15/7/08	1640	1745	Alan Richmond, PhD	Gnathostomes	Lecture with Power Point	Shark anatomy and life history
15/7/08	1930	2005	Melissa	Terns	Lecture with Power Point	Tern restoration and monitoring on Seavey Island
16/7/08	830	915	SM, RF	quiz#8	quiz	
16/7/08	915	1055	Alan Richmond, PhD	Gnathostomes	Lecture with Power Point	continuation of lecture - phylogeny of Gnathostomes, anatomy
16/7/08	1130	1237	Alan Richmond, PhD	Ray Finned Fishes	Lecture with Power Point	phylogeny, characteristics, collapse of cod fishery
16/7/08	1400	1540	DT	Tern Trip	Field	Weathered out
16/7/08	1730	1800	DT	Invertebrate Adaptation and Evolution	Lecture	Invertebrate systematics, adaptation
16/7/08	1900	2007	WB	Seagull behavior	Movie, Discussion	Behavior, Seagulls of Appledore, movie premier
17/7/08	900	1720	DT	Invertebrate Adaptation and Evolution at Creek Farm	Lecture, Field, Discussion	Invertebrate systematics, adaptation, mudflats, saltmarsh, cell biology
17/7/08	1900	2030	Alan Richmond, PhD	Ray Finned Fishes	Lecture with Powerpoint	Diversity and adaptation of fishes
18/7/08	830	910	SM, RF	quiz#9	quiz	
18/7/08	910	1030	WB	Comparative animal embryology	Lecture with Powerpoint	Comparative animal embryology
18/7/08	1045	11:20	WB	spermatogenesis, oogenesis	Lecture with Powerpoint	spermatogenesis, oogenesis
18/7/08	1130	1220	WB	cell biology	Lecture with Powerpoint	cell biology - function/structure of organelles, cytoskeleton, cell junctions
18/7/08	1330	1500	WB	embryo lab	Lab	tunicate larvae, spermatogenesis slides
18/7/08	1930	2110	WB	embryology	Lecture with Powerpoint	mitosis, meiosis, fertilization, cleavage, gastrulation
19/7/08	830	900	SM, RF	quiz#10	quiz	
19/7/08	900	1100	DT	Project 3 Worktime	Assignment	Time to work on weblogs

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19/7/08	1100	1230	Alan Richmond, PhD	lobbed finned fishes, tetrapods	Lecture with Powerpoint	adaptation to land, return to water, amniotes
19/7/08	1330	1430	WB	embryology	Lecture with Powerpoint	gastrulation, neuralation
19/7/08	1430	1630	DT	Project 3 Worktime	Assignment	Time to work on weblogs
19/7/08	1630	1810	Alan Richmond, PhD	amniotes	Lecture with Powerpoint	amphibians, reptiles, birds
20/7/08	1105	1300	SM, RF	Exam 3	Exam	
20/7/08	1300	1540	DT	Project 3 Worktime/discussion	Assignment	publish weblogs
20/7/08	1540	1730	Alan Richmond, PhD	amniotes	Lecture with Powerpoint	aves, mammals
20/7/08	1805	1840	SM	sponge ecology on Caribbean coral reefs	Seminar with Powerpoint	chemical ecology, population dynamics, demography
20/7/08	1845	1905	DT	Project 4 introduction, edit weblogs	Assignment	Time to work on weblogs
21/7/08	840	940	John Sullivan, PhD	Genetics	Lecture with Powerpoint	Mendelian genetics, Punnett squares, incomplete/codominance
21/7/08	940	1050	Andy Shedlock, PhD, DT	Discuss reading	Discussion	origin of avian genome paper discussion
21/7/08	1050	1107	John Sullivan, PhD	Genetics	Lecture	introduction to DNA extraction protocol
21/7/08	1115	1225	John Sullivan, PhD	Genetics	Lab	DNA extraction of fish tissue, obtain tissue, digestion
21/7/08	1335	1408	John Sullivan, PhD	Genetics	Lecture	PCR, gel electrophoresis protocols
21/7/08	1408	1417	John Sullivan, PhD	Genetics	Movie, Discussion	DNA Interactive; video: PCR
21/7/08	1430	1700	John Sullivan, PhD	Genetics	Lab	DNA extraction; prepare/wash DNA, pour gel
21/7/08	1720	1800	John Sullivan, PhD	Genetics	Lab	gel preparation
21/7/08	1905	1935	John Sullivan, PhD	Genetics	Lab	visualize and discuss gel results
21/7/08	1940	2015	DT, JBH	Project 4 introduction	Assignment	discuss course and project

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22/7/08	835	920		quiz#11	quiz	
22/7/08	925	1050	John Sullivan, PhD	Genetics	Lab	PCR, fish identification
22/7/08	1050	1220	John Sullivan, PhD	Genetics	Lab	Literature search for fish identification, relevant phylogenetic studies and cytochrome b data
22/7/08	1220	1240	John Sullivan, PhD	Genetics	Lab	stop PCR, run gel
22/7/08	1315	1400	John Sullivan, PhD	Genetics	Lab	check gel
22/7/08	1630	1740	John Sullivan, PhD	Genetics	Lecture with Powerpoint	biomolecules
23/7/08	2000	2020	DT, JBH	Whale watch	Discussion	Preparation for whale watch
23/7/08	2030	2150	Ted Ames	History of Gulf of Maine fisheries	Seminar with Powerpoint	History, management of fisheries
23/7/08	830	900		quiz#12	quiz	
23/7/08	915	1015	John Sullivan, PhD	Genetics	Lecture with Powerpoint	DNA structure
23/7/08	1030	1500	DT, JBH	Whale watch	Field	Finn, Minke whales
23/7/08	1930	2100	JBH	Whale watch	Lecture with Powerpoint	Whale feeding
24/7/08	830	905		quiz#13	quiz	
24/7/08	905	910	DT, JBH	Project 3	Discussion	discuss project 3
24/7/08	910	1100		Project 4 worktime	Assignment	time to work on podcast
24/7/08	1100	1221	John Sullivan, PhD	Genetics	Lecture with Powerpoint	transcription, translation, gene expression
24/7/08	1330	1440	DT, JBH	Fishing gear	Lecture	mobile and stationary gear, environmental and bycatch effects
24/7/08	1440	1620		Project 4 worktime	Assignment	time to work on podcast
24/7/08	1620	1650	John Sullivan, PhD	Genetics	Video	video of transcription and translation
24/7/08	1650	1805	JBH	Genetics	Lecture with Powerpoint	genetically modified plants
24/7/08	1900	2100		Project 4 worktime	Assignment	work on podcasts
25/7/08	830	910	SM, RF	quiz#14	quiz	
25/7/08	910	1010	John Sullivan, PhD	DNA Based Tools	Lecture with Power Point	explaining ways to use DNA
25/7/08	1020	1100	John Sullivan, PhD	Explanation of Research	Lecture with Power Point	a brief intro to John's research on fresh water fish

