

AQUACULTURE VSCM/WFSC 456/556

2008 CLASS SCHEDULE: Tue & Thus 2:00-3:15 PM

Date of this revision: January 17, 2008

Week	Date / Day	Activity / Lecture	Lecturer
1	17 Jan / Thus	Course content and requirements. Introduction, definitions, history, major species farmed globally, examples of other minor cultured species, aquaculture products & markets. **** <i>Optional textbook(s) and recommended reading.</i>	Lightner
2	22 Jan / Tue	World Aquaculture - the fastest growing meat producing industry. Asian carp culture - the first fish farmers.	Lightner
	24 Jan / Thus	Water and water quality. (Power Point, slides & video)	Lightner
3	29 Jan / Tue	Water and water quality (continued).	Lightner
	31 Jan / Tue	Catfish culture in the southeast U.S. (video) Vietnamese Basa and Tra catfish. (Power Point)	Lightner
4	5 Feb / Tue	Tilapia culture	Fitzsimmons
	7 Feb / Thus	Tilapia - continued	Fitzsimmons
5	12 Feb / Tue	Baitfish aquaculture. (video & slides) FISH FARM demonstration for catfish; Assign unknown fish and begin "tank studies".	Lightner
	14 Feb / Thus	Aquaculture feeds: examples, formulations, manufacture & use.	Lightner
6	19 Feb / Tue	Aquaculture feeds: continued. Begin salmonids with trout & trout farming. Examples of Fish Farm Reports - available for viewing after class.	Lightner
	21 Feb / Thus	Trout culture (continued) (slides/video)	Lightner
7	26 Feb / Tue	Salmon culture in tanks, net pens & ocean ranching. (videos)	Lightner
	28 Feb / Thus	Salmon culture in tanks, net pens & ocean ranching. (continued) Principal diseases of salmonids, catfish, and other freshwater fish: viral, bacterial, and parasitic. (DVD)	Lightner
8	4 March / Tue	First midterm examination	Lightner
	6 March / Thus	Discuss examination #1. The World Animal Health Organization (OIE) and its role in aquaculture disease control. (Power Point) Turn in Fish Farm tank studies report	Lightner
9	11 March / Tue	Seaweed aquaculture. (Power Point & slides)	
	13 March / Thus	Artemia culture & harvest - uses in aquaculture. (video) Lobster culture: North Atlantic marine lobsters (clawed) & tropical spiny lobsters Freshwater prawns, crayfish, Australian crayfish. (slides / video)	Lightner
10	17-21 March	***** Spring Break *****	-----

11	25 March/ Tue	Crustacean culture: penaeid shrimp, main regions, the principal species, history, general biology. (Power Point & video)	Lightner
	27 March/ Thus	Penaeid shrimp, “seed” and hatchery methods. Penaeid shrimp: Grow out methods in the Americas and Asia. (Power Point & video)	Lightner
12	1 April / Tue	Penaeid shrimp: Grow out methods in the Americas and Asia. The role of “SPF” shrimp & biosecurity in sustainable shrimp farming. (Power Point & video)	Lightner
	3 April / Thus	Penaeid shrimp: Recent advances in technology; markets and marketing. (Power Point & video)	Lightner
13	8 April / Tue	Penaeid shrimp: Problems, low prices, environmental issues, fish meal crisis, major diseases. FISH FARM: Final pond studies crop report due. Class discussion of results.	Lightner
	10 April / Thus	Second midterm exam #2 (inclusive of OIE, seaweed & crustacean aquaculture)	Lightner
14	15 April / Tue	Discuss midterm exam#2 and Fish Farm reports. Induced spawning; sex reversal, etc. (Power Point &/or videos) Marine & estuarine fish: red drum & Hybrid striped bass. (videos)	Lightner
	17 April / Thus	Marine fish: Mediterranean sea bass & sea bream North Sea cod and halibut farms. Bluefin tuna. (Power Points & DVD)	Lightner
15	22 April / Tue	Marine and estuarine fish (continued): milkfish, cobia, eels, sturgeon, seahorses, others. Hawaii moi (Pacific threadfin shad) & jacks Marine Sea Stations: A US national initiative; The new way to farm the sea?	Lightner
	24 April / Thus	Marine and estuarine fish (complete). Mollusk culture: spawning and larval stages; oysters, mussels, clams. (slides & video)	Lightner
16	22 April / Tue	Mollusk culture: pearl oysters, mussels, clams, gastropods, and cephalopods (continued) (slides & video)	Lightner
	1 May / Thus	Mollusk culture (continued): Major diseases of mollusks. Bait fish aquaculture Aquarium fish. Amphibian and reptile aquaculture. (videos)	Lightner
17	6 May / Tue	Course evaluation forms (handled by student) Aquaculture, sustainability and environmental issues; Murky Waters, EDF, EJF and the GAA. (PPT & GAA video)	Lightner
	8 May / Thus	***** No class ***** Graduate student research papers due in my office.	-----
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18	13 May / Tue	Final examination: 2:00 to 4:00 PM VSC 129	Lightner