AQUATIC BIOLOGICAL INVASIONS
(BI/FW 421/521) CRN: 72400/72401

BI/FW 421/521 – Aquatic Biological Invasions
4 Credits (M/F – 8-11:50 PM, W - 1-4:50 PM plus field trips, June 24 – Jul 19)

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Course Description
The class will analyze major topics and events in invasion ecology through literature, discussions, seminars and hands-on / boots-on field trips by diverse approaches. Ecological and environmental history will be major emphases. Participants are encouraged to integrate their ongoing relevant research or interests into the discussions and proposed projects. The lectures cover diverse social and research issues including events at HMSC and global scales.

Course Topics/Events (in approximate order):
1- Preamble; 2- “Good”, “bad” and “neutral” modern invasions; 3- Prehistory, pre-natural history invasions; (28 June-field trip along the Oregon Coast); 4 – Evolution's back stories - Geology, climate, oceanography, Earth history; 5 - Mechanisms – Vectors, pathways, sources, destinations; 6 - Ecology – Definitions, Ideas and Methods; 7 - Human dimensions – Costs/benefits; 8 - Control, mitigate, manage, adapt.

Past Guest Speakers:
Dr. James Carlton, Professor, Williams College, Director: Williams - Mystic Maritime Studies Program
Dr. Sally Hacker, Professor, Department of Zoology, Oregon State University, Corvallis
Dr. Rian Hooff, Oregon Department of Environmental Quality, Shipping and Transport of Aquatic Invasive Species Task Force
Dr. Chris Langdon, Professor, Coastal Oregon Marine Experiment Station, Oregon State University
Dr. Sylvia Yamada, Assistant Professor, Department of Zoology, Oregon State University, Corvallis, Oregon

BI/FW 401 – Undergraduate Research Credit in Marine and Estuarine Research
1-4 Credits (T/TH – 8-1 PM, June 24 – September 6)

Credit may be earned for conducting marine and estuarine research at HMSC under the supervision of a faculty member by enrolling in FW 401.

For more information: HMSC Academic Programs 541-867-0380 or hmscadademic@oregonstate.edu
http://hmsc.oregonstate.edu/summer