

Class Schedule BIOL / MARI 3063 “Resource Ecology”, Winter term

Class description: This class considers the ecology, utilization, and management of natural resources in fisheries, wildlife and forest management, agriculture and aquaculture. Topics include population dynamics, community interactions, and ecosystem support of resources as well as the history of resource utilization, practices of controlling production, pests, and predators, and sustainable management strategies.

INSTRUCTOR: H. K. Lotze

FORMAT: Lecture 2 hours, tutorial 2 hours

PREREQUISITE: BIOL 2060.03, MATH 1000.03 (or STAT 1060.03 or DISP)

Max. Enrolment: 30

Lectures: Mon / Wed 1:30 – 2:30

Tutorial: Mon 2:30 – 4:30

Syllabus

The lectures are divided into “Species lectures” which cover the history of and current utilization, management and conservation for a particular species group (e.g. lecture 2, 4, 6...) and “Topics lectures” which cover distinct topics in the ecology, management, and conservation of natural resources (e.g. lectures 3, 5, 7...). In the tutorials, students work on and present case studies and engage in group activities.

Week	Day	Lecture
1	W	1 – Introduction
2	M	2 – Terrestrial mammals
	W	3 – Ethics of resource use
3	M	4 – Whales & Whaling
	W	5 – Resource management
4	M	6 – Other marine mammals
	W	7 – Conservation & Recovery
5	M	8 – Marine fish
	W	9 – Monitoring & Assessment
6	M	10 – Diadromous & Freshwater fish
	W	11 – Stock assessment
7	M	12 – Reptiles & Amphibians
	W	13 – MIDTERM

8 STUDY BREAK

9	M	14 – Wild birds
	W	15 – Policy, Law & International issues
10	M	16 – Invertebrates
	W	17 – Economy, Social & Market forces
11	M	18 – Wild plants
	W	19 – Ecosystem consequences
12	M	20 – Agriculture
	W	21 – Pest control & Pollution
13	M	22 – Forestry
	W	23 – Land-use & Habitat management
14	M	24 – Aquaculture
	W	25 – Future of resource use

FINAL EXAM