BIOLOGY 335 (20356) Jan 2020 ICHTHYOLOGY Biology of Fishes

Lecturer: Dr. T. E. Reimchen, Office-Cunn 056, Phone 721-7101

Lecture: 0830-0920, Tues, Wed, Fri; COR A125

Laboratory Co-ordinator

Diversity - hagfish to tiger shark to manta ray

- lungfish to moray to salmon to lanternfish

- rockfish to seahorse to halibut to sunfish

Swimming hydrodynamics - propulsion, drag, boundary layer, fin function

Physiology - buoyancy, osmoregulation, thermoregulation, O2 uptake

Sensory modes - chemoreception, mechanoreceptors, electroreception, vision,

nociception, perception

Behavioral ecology - reproduction, foraging, parasitism

Natural selection and adaptation

Fisheries science - principles, applications, limitations

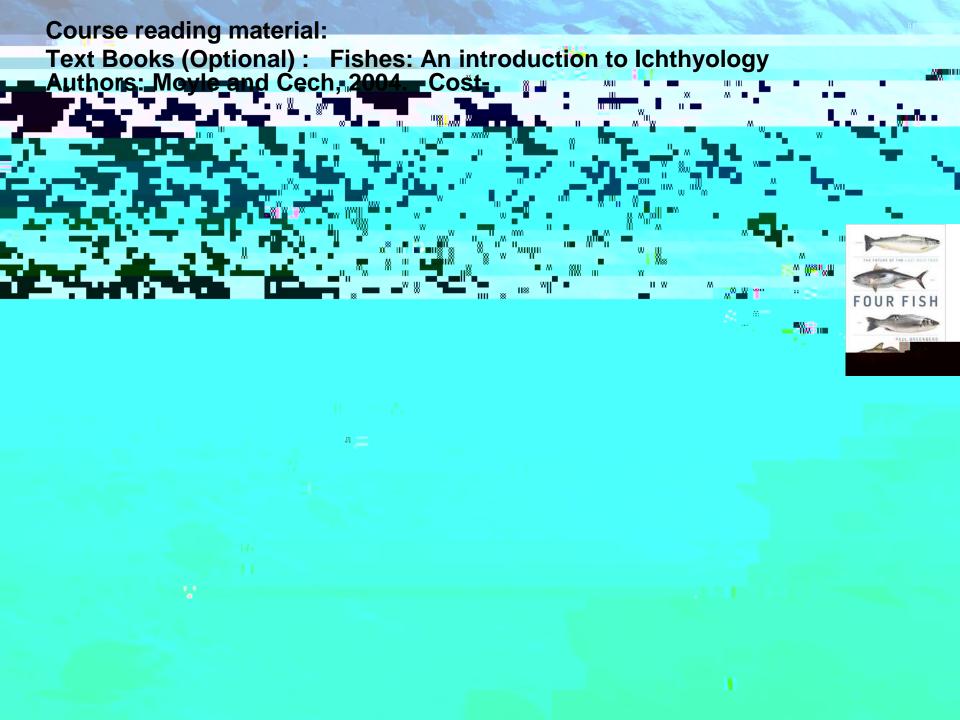
Global fishery crisis - major causes

Conservation: marine- Law of the Sea, FAO Code of Conduct,

w wno-take zones, marine protected areas, coral reefs

Conservation: freshwater - habitat degradation and invasive species

The future??



Biology 335- Tentative Lab Schedule Spring 2020

Lab #	Date (week of)	Content		Takan dan dalam dan dari dan dari dari dari dari dari dari dari dari
1	January 6	Exercise: Fish Anatomy and Measurements Identification 1: Agnathans, Placoderms, and Chondrichthyes Ecological Techniques 1	organija kada i orom kada kada kada	dessilis te tataleta muuduma _{ja} an matemaa a
			Mark C	omponent
	January 13	Exercise: Functional Morphology Identification 2: Sturgeons to Herrings Ecological Techniques 2	T	ield Trip Participation here will be a series of 4-6 scheduled field trips.
	January 20	Exercise: Measurement Bias Part 1	and a supplementary of the sup	ou are expected to participate in each that are
		Identification 3: Minnows, Salmon, and Trout-Perches Ecological Techniques 3		. A TEN COLOR TO COLO
	January 27	Lab Midterm Quiz: Ecological Techniques (1-3) Exercise: Measurement Bias Part 2	70/ 70/ Charles <u>V. B. (1984) (80</u> Stubber)	Tab Davisingtion
		Identification 4: Flying fish, Sticklebacks Ecological Techniques 4	narry e hodynest Ken II all.,	(1. (本年 年年) (1. (本年) - (1. (***) - (1. (**) - (1. (***) -
	February 3	Lab Midterm Exercise/ Identification Exam	m: Fcological Techniques - written exam	Nidter Midter
	February 10	Exercise: Hydrodynamics Identification 5: Rockfish, Wolf-eels Ecological Techniques 5	1.2%	Middenna Locatification/deserved
	February 17	READING BREAK NO LABS	73.9 July 15.7 10.5 10.5 10.5 10.5 10.5 10.5 10.5 10.5	Final: Foological Techniques - written a
	ŕ			also:
	February 24	Exercise: Freshwater Fishes and Open-source Fish Data Identification 6: Sandlances, Surgeonfishes	The state of the s	
		Ecological Techniques 6	YEAR	Translati .
	March 2	Exercise: Marine Fishes and Global Data Sets Identification 7: Fighting fish, Flatfishes, Triggerfishes, Sunfish Ecological Techniques 7	Chooling 4	
	March 9	Lab Final Onin Faalanial Taskainus (4.7)	65000: The walkedischtechnism symmetre weard final	er nine mar ow lover of the will
	Match 9	Lab Final Quiz: Ecological Techniques (4-7) Exercise: Emerging Techniques in Ichthyology Identification Review	nal exam is not cumulative	. The ecological techniques fi
	March 16	Lab Final Exercise/ Identification Exam	william the region field they will be a common than the	ga. Baik silikishafisashazilesa adikedanan sass
			(1) [16] [1] [1] [1] [1] [1] [1] [1] [1] [1] [1	har ne went til er statiffen i till till været forst stær for til till stæret forst i till stæret forst i till Till stæret stæret forst till stæret forst stæret forst stæret forst stæret forst till stæret forst stæret forst till stæret forst stæret for
	March 23	NO LABS Hand back final quiz and exam		- · · · · · · · · · · · · · · · · · · ·

