

## Fisheries Ecology (Biology 375/575)

Spring 2017

### Required Texts:

Diana, J.S. 2004. Biology & Ecology of Fishes 2<sup>nd</sup> ed. Biological Sciences Press.  
[Available at Text-Rental]

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Office Hours: (or by appointment)  
Monday 12-1 pm & Wednesday 2-3 pm  
Web: <http://www.uwsp.edu/biology>

### Lecture Outline:

Week of:	Lecture Topic	Chapter in Text	Lab Exercise
<b>Introduction</b>			
1/23	Aquatic/marine ecosystems	1	No lab
<b>Physiological Ecology</b>			
1/30	Respiration & Sensory	3	Respiration
2/6	Consumption	4	Age & growth
2/13	Growth & Bioenergetics	2, 5, 6, 7	Bioenergetic modeling
<b>Community / Behavioral Ecology</b>			
2/20	Movement & Migration	14, 15	<b>Exam 1</b>
2/27	Mating & Spawning	16	Swimming & schooling
3/6	Larval ecology	9, 18	Optimal foraging
3/13	Predation & Prey selection	11, 12, 13	No Lab
3/20	<b>Spring Break!</b>		No Lab
3/27	Competition	10	Optimal foraging
<b>Biodiversity</b>			
4/3	Trophic dynamics	20	<b>Exam 2</b>
4/10	Temperate streams	21	Aquatic trophic cascade
4/17	Lake ecology	20, 25	Niche differentiation
4/24	Oceanic & Deep sea		Field trip
5/1	Tropical & Arctic	22	Field trip
5/8	Coral reef	23	Data analysis

### Supplemental Readings:

Required additional readings will be assigned throughout the semester. Notification of each reading will be announced in lecture as we cover the appropriate topic. Readings may supplement the lecture or laboratory topic. Articles will be available on D2L (as pdf documents). Material in the readings will be partially covered in class and will be fully covered on the exams. If you have questions about the material in the articles, ask questions in class.

## Grading:

Three Exams	Exam 1 (in class ( <b>February 20</b> ), 100 pts)	20%
	Exam 2 (in class ( <b>April 3</b> ), 100 pts)	20%
	Exam 3 (Final exam ( <b>May 15, 10:15 am</b> ), 100 pts)	20%
Lab Exercises	(7 @ 20 pts each + 1 @ 60 pts.)	<u>40%</u>
Total	(300 pts for exams; 200 pts for labs)	100%

**Discretionary points:** Points may be added or subtracted from your final course grade based on effort, improvement, participation, alacrity, and attitude.

## Grade Distribution (in %):

A = 100-94	B- = 83-80	D+ = 69-67
A- = 93-90	C+ = 79-77	D = 66-60
B+ = 89-87	C = 76-74	F = <60
B = 86-84	C- = 73-70	

## Lab Exercises:

You will be required to complete 8 lab exercises. Data collection for 7 exercises will be accomplished in class. Data analysis and summaries should be completed during and after class. The 8<sup>th</sup> exercise is comprised of the field trip and data analysis. Credit can be earned with participation, exercise accuracy, proper calculations, thorough analysis and explanations, and neatness. Further details will be provided with each exercise.

## Field Trip:

The field trip will never be cancelled. Be prepared for any type of weather and the trip is required for completion of the course.

## Rules & Grades:

**There are NO “make-ups” for lab exercises.** Lab exercises will be due one week from completion in class. Two points (-2) will be subtracted each day for late submissions.

Only university approved absences, accompanied by appropriate evidence (see undergraduate catalog), will be accepted if you miss the exams. A make-up exam must be taken within 3 class days of the actual exam date. Contact the instructor **before** the exam if there may be a problem. Discussion regarding grades or grading practices will only be conducted during office hours or appointments; this ensures privacy and confidentiality.

**Academic Misconduct:** You are responsible for the honest completion and representation of your work and for the respect of others' academic endeavors. Any act of cheating, plagiarism, or academic misconduct is subject to the penalties outlined in UWS Chapter 14; <http://www.uwsp.edu/admin/stuaffairs/rights/rightsCommBillRights.pdf>

**Students with Special Needs:** First see Student Disability Services and complete the necessary paperwork. Then, contact me so that arrangements can be made for note-taking, testing, report completion and field trip activities.