

**Biology 490: Infectious Diseases of Fish**  
**Fall 2017**  
**Class Syllabus**

**Course and Instructor Information**

Lecture: M, W 1:00 – 1:50, TNR 460

Professor: Dr. Matt Rogge

Office: TNR 435

Phone: 346-2506

Email: mrogge@uwsp.edu

Office hours: MW 10:00 – 10:50

Other times by appointment

**Course Description**

This seminar will explore recent scientific research concerning the various infectious diseases of fish. There are many bacterial, viral, and parasitic pathogens that affect natural and farmed fishes. There are multiple angles from which to study these diseases, including the biology of the pathogen, diseases transmission, disease treatment and prevention, and economic impacts caused by losses due to the disease. The goal of this class is for the student to learn how to acquire information from written scientific communications of the topic and to develop the ability to communicate scientific information in written and oral formats.

**Course Learning outcomes**

Students will be able to:

1. Locate, critically read, synthesize, and discuss the primary literature dealing with multiple aspects of infectious disease of fish.
2. Demonstrate the ability to write and orally present biological information that is articulate and grammatically correct with properly documented and organized ideas and data, appropriate to the specific audience.
3. Evaluate your own and others' written and oral communication skills by providing and applying useful feedback.

**Required Texts**

- Hofmann, A. H. *Writing in the Biological Sciences: A Comprehensive Resource for Scientific Communication*, Second Edition. Oxford University Press, New York, New York.  
Available in the bookstore or online.

**Attendance**

Students are expected to attend all sessions. If you are aware ahead of time of a conflict with the period, a meeting with the instructor is required at least a week in advance of the period to discuss the situation, and any makeup work that will be required.

**Grading**

*Assignments*

- Topic choice: 5 pts
- Thesis statement: 10 pts
- Lead a group discussion for two scientific research articles: 20 pts each
- Annotated bibliography: 15 pts
- Oral presentation of quantitative data analysis: 15 pts
- First draft of a scientific review article focused on a chosen topic: 10 pts

- Peer review of first draft: 5 pts
- Revised draft of a scientific review article focused on the chosen topic: 15 pts
- Peer review of second draft: 5 pts
- Final scientific review article focused on the chosen topic: 50 pts
- Oral presentation summarizing and explaining the written review article: 50 pts
- Class participation (attendance, literature discussion, asking questions, etc): 30 pts

### TOTAL CLASS POINTS: 250

Grades will be calculated by dividing the total points received by the total points possible and multiplied by 100. The following scale will be used to assign a final grade. Grades will not be curved. If you feel an error has been made in the grading of any exercise, you have 48 hours from the time you received the grade to submit in writing to the instructor your reasoning for belief of an error.

93 to 100%	A	80 to 82%	B-	67 to 69%	D+
90 to 92%	A-	77 to 79%	C+	60 to 66%	D
87 to 89%	B+	73 to 76%	C	<60%	
83 to 86%	B	70 to 72%	C-		

Satisfactory completion of this 490 course **REQUIRES** the completion of the Biology Department's comprehensive exam. *The test is optional for Biochemistry majors.* Test scores are used to compare class averages among various populations of biology majors to assess general student learning. Scores will not be made available to you nor your instructor and **will have no bearing on your grade for the course.** However, your 490 grade will be withheld until the exam is taken. The exam will take approximately 60 minutes and will be offered at the following times:

**Wednesday** Dec 6, 6pm, TNR 120

**Thursday** Dec 7, 6pm, TNR 120

### Expectations

You are responsible for attending all classes in order to ensure exposure to all the material covered. You are responsible for asking questions for clarification of topics that you do not fully understand. If you feel that you are falling behind in the class and not understanding the material as it is being presented, GET HELP IMMEDIATELY! Do not risk falling so far behind that catching back up is impossible.

UWSP values a safe, honest, respectful, and inviting learning environment. In order to ensure that each student has the opportunity to succeed, we have developed a set of expectations for all students and instructors. This set of expectations is known as the *Rights and Responsibilities* document, and it is intended to help establish a positive living and learning environment at UWSP. Visit here for more information:

<http://www.uwsp.edu/stuaffairs/Pages/rightsandresponsibilities.aspx>

Academic integrity is central to the mission of higher education in general and UWSP in particular. Academic dishonesty (cheating, plagiarism, etc.) is taken very seriously. **Don't do it!** The minimum penalty for a violation of academic integrity is a failure (zero) for the assignment.

For more information, see the UWSP “Student Academic Standards and Disciplinary Procedures” section of the *Rights and Responsibilities* document, Chapter 14, which can be accessed here:

<http://www.uwsp.edu/stuaffairs/Documents/RightsRespons/SRR-2010/rightsChap14.pdf>

### **Access for all Students**

The Americans with Disabilities Act (ADA) is a federal law requiring educational institutions to provide reasonable accommodations for students with disabilities. For more information about UWSP’s policies, visit:

<http://www.uwsp.edu/stuaffairs/Documents/RightsRespons/ADA/rightsADAPolicyInfo.pdf>

If you have a disability and require classroom and/or exam accommodations, please register with the Disability and Assistive Technology Center and then contact me **AT THE BEGINNING OF THE COURSE**. I am happy to help in any way that I can, but you need to be registered. For more information, please visit the Disability and Assistive Technology Center, located on the 6th floor of the Learning Resource Center (the Library). You can also find more information here:

<http://www4.uwsp.edu/special/disability/>

**TENTATIVE SCHEDULE**

<b>Week</b>	<b>Date</b>	<b>Assignments Due</b>	<b>Class Topic</b>
1	Sept 4		<b>NO CLASS – LABOR DAY</b>
	Sept 6		Syllabus, Class Expectations, and Review vs Research Papers
2	Sept 11	Paper topic chosen	Written Communication in the Sciences (Chapters 1 and 2)
	Sept 13		Written Communication in the Sciences (Chapter 3)
3	Sept 18	Thesis statements due	Written Communication in the Sciences (Chapter 4)
	Sept 20		Reading, Summarizing, and Critiquing a Scientific Paper (Chapter 10)
4	Sept 25		Research Paper Discussion (Instructor)
	Sept 27		Student Led Research Paper Discussions (1, 2, 3)
5	Oct 2		Student Led Research Paper Discussions (4, 5, 6)
	Oct 4		Student Led Research Paper Discussions (7, 8, 9)
6	Oct 9	Annotated bibliography due	Student Led Research Paper Discussions (10, 11, 12)
	Oct 11		Written Communication in the Sciences (Chapters 5 and 6)
7	Oct 16		Oral Presentations (Chapter 13); Instructor Quant. Analysis Presentation
	Oct 18		Student Quantitative Analysis Presentations (1, 2, 3, 4)
8	Oct 23		Student Quantitative Analysis Presentations (5, 6, 7, 8)
	Oct 25		Student Quantitative Analysis Presentations (9, 10, 11, 12)
9	Oct 30	Review article 1 <sup>st</sup> draft due	Term Paper and Review Articles (Chapter 11)
	Nov 1		Revising and Editing (Chapter 8)
10	Nov 6	Peer Review 1 <sup>st</sup> draft Due	Student Led Research Paper Discussions (12, 11, 10)
	Nov 8		Student Led Research Paper Discussions (9, 8, 7)
11	Nov 13		Student Led Research Paper Discussions (6, 5, 4)
	Nov 15		Student Led Research Paper Discussions (3, 2, 1)
12	Nov 20		Oral Presentations (Chapter 13) Revisited
	Nov 22		<b>NO CLASS – THANKSGIVING BREAK</b>
13	Nov 27	Review article 2 <sup>nd</sup> draft due	Final Oral Presentations (12, 11)
	Nov 29		Final Oral Presentations (10, 9)
14	Dec 4	Peer Review 2 <sup>nd</sup> draft due	Final Oral Presentations (8, 7)
	Dec 6		Final Oral Presentations (6, 5)
15	Dec 11		Final Oral Presentations (4, 3)
	Dec 13		Final Oral Presentations (2, 1)
16	Dec 18 Dec 20	Review article final draft due	<b>FINALS WEEK</b>