

Biology 501 – Principles of Ichthyology
Section 001

Instructor: Dr. Philip Lienesch
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Meetings: Lectures will be posted using WKU's tegrity system on blackboard
Textbook: Recommended - Moyle and Cech. 2005. Fishes: An Introduction to Ichthyology. 5th ed. Prentice Hall.

This class will examine the biology of fishes, concentrating on freshwater fishes of Kentucky. Although some of the class will be dedicated to traditional topics of Ichthyology (fish taxonomy, identification, and systematics), we will also explore topics such as anatomy/physiology, ecology, and the management of fish populations.

The content for this course is completely online.

Lectures: This course will consist primarily of lectures delivered via WKU's Blackboard site. The lecture topics are listed in the tentative schedule below.

Scientific literature: In addition to the blackboard lectures, we will read/review papers from the scientific literature. Each paper will be posted to blackboard with a series of questions. Students will be responsible for reading the papers and answering the questions before we discuss the papers through blackboards discussion board.

Review papers: There will also be 2 research papers on topics assigned by the instructor.

Grading: There will be 3 lecture exams during the semester. Exams will be proctored at a [testing center](#). There are testing centers located around the state and the country that will be much more convenient for some of you than coming to WKU's campus in Bowling Green, KY ([Kentucky sites/ national locations](#)). You will be able to take the exam at the designated testing center anytime within 7 days (see schedule) and will have 2 hours to complete the test (more than enough time to answer all the questions) once you start. This will give you the flexibility to make it to the testing center on a day that works well for you.

Each test will be worth 100 points	300 points
Each research paper will be worth 50 points	100 points
Each scientific paper review will be worth 10 points.	100 points

Grades will be assigned on the traditional 10 point grade scale:

A = 90-100% B = 80-89.9% C = 70-79.9% D = 60-69.9% F = <60%

"Students with disabilities who require accommodations (academic adjustments and/or auxiliary aids or services) for this course must contact the Office for Student Disabilities Services, Wetherby Administration Building Room 13. The OFSDS telephone number (270) 745-5121. Please DO NOT

request accommodations directly from the professor or instructor without a letter of accommodation from the Office for Student Disability Services.”

“Academic Dishonesty ? Students who commit any act of academic dishonesty may receive from the instructor a failing grade in that portion of the course work in which the act is detected or a failing grade in a course without possibility of withdrawal. The faculty member may also present the case to the Office of the Dean of Student Life for disciplinary sanctions. A student who believes a faculty member has dealt unfairly with him/her in a course involving academic dishonesty may seek relief through the Student Complaint Procedure.” – WKU Student Handbook

Tentative Lecture Schedule – subject to change at the instructor discretion.

Lecture Topic	Chapter
Introduction/ water	1
Anatomy	2
Systematics	12
Diversity/Evolution	13
Buoyancy/respiration	3-5
Exam 1 – Week of Feb 23-March 2	
Ion regulation	4,6
Feeding	7
Growth	8
Sensory perception	10
Reproduction/ Development	
Behavior	11
Zoogeography	25
Exam 2 – March 30-April 6	
Ecology	27
Habitats - Streams	28
Habitats – Lakes and estuaries	29, 31
Habitats - tropics	30
Traditional Fisheries Management	
Fertilization and Biomanipulation (case studies)	
Exotic/introduced Species (case studies)	
Exam 3 – May 4 - 11	