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BIOO 340.00: Biology and Management of Fishes

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Biology and Management of Fishes (BIOO 340); 4 Credits; Fall 2014

Lecture: Tue/Thur 8:10am-9:30am; Health Sciences 207; Section 00; CRN 74529

Lab: Tue 1:10pm-3:00pm; Health Sciences 204; Section 01; CRN 74532

Lab: Thur 1:10pm-3:00pm; Health Sciences 204; Section 02; CRN 74533

Instructor: Craig Stafford; craig.stafford@mso.umt.edu (best way to contact)

Office Hours: Health Sciences Building room 111; Mon 3pm-5pm or by appointment

TA: Mike LeMoine; michael.lemoine@umconnect.umt.edu

Office Hours: Biology Research Building #112; Tue & Thur 9:30am-10:30am or by appointment

Lecture

The goal of the lecture component of the course is to understand biology of fishes in the context of the natural and, to a lesser extent, human worlds. Major themes of the course are: fish origins & the aquatic setting; fish physiology; fish populations and their interactions; and fish management & human impacts. The course will cover both salt and freshwater fishes, but the emphasis will be on freshwater fishes – particularly those of Montana.

Lab

The major goal of lab is to provide hand on experiences with fish identification, analysis of fisheries data, and fisheries techniques. The lecture and labs schedule are integrated, but not entirely. This mismatch is a result of logistical considerations (especially weather). Further, many lab topics are “stand alone” in that they will be covered in lab only - particularly where a hands on approach is most useful (i.e. fish identification). Details of the lab schedule and assignments will be provided by the TA.

Texts & Web Resources

Required: Helfman, Collette, Facey and Bowen. 2009. *The Diversity of Fishes*. Second Edition.

Suggested: Holton and Johnson. *Field Guide to Montana Fishes*. Try Amazon.com.

Recommended: FWP’s Field Guide: <http://fieldguide.mt.gov/>

Moodle

Lectures, readings not in your text, and handouts (including those for lab) will be placed on Moodle (accessed through moodle.umt.edu). The lectures are not meant to be stand alone documents and will require class attendance for full comprehension. Printing of the lecture slides as “handouts” before class is recommended. Printing directions: open pdf and select “print”; under **Page Scaling** select “Multiple pages per sheet”; under **Pages per sheet** select “2” by “3”. This approach will print up 6 slides per page.

Grading and Exam Policy

You will receive one grade for the course that will be weighted 65% by lecture and 35% by lab. Your lecture grade will be based on three midterms, a cumulative/mandatory final, a term paper, and one outside lecture review assignment. I will drop the lowest of your three midterm scores only. The final cannot be dropped. Your lab grade breakdown is below. I will be using the +/- grading system. I do not give make up exams. I will deviate from this grading scheme only under exceptional and documented (in writing) circumstances (doctors notes, university sanctioned events which require attendance like games for athletes, etc). You should always talk to me (or the TA for lab) *before* you miss an exam (or lab) if at all possible. It is up to you to provide the necessary documentation to verify your absence was legitimate. All work must be your own and done exclusively for this class.

Lecture: 2 midterms @20%=40%, 1 final @30%, 1 term paper @20%, 1 lecture review assignment @10%

Lab: 8 assignments@7%=56, 4 quizzes @6%=24, 1 lab report@20%

Drops, Adds, and Other Academic & Disability Information

The University’s *Academic Policies and Procedures* (drops, adds, and other academic policies) are described at <http://www.umt.edu/registrar/students/dropadd.php> . The Academic Calendar can be found at <http://www.umt.edu/registrar/PDF/ImportantDatesFall2014.pdf> . Information on the student conduct code is at http://www.umt.edu/vpsa/policies/student_conduct.php . Students with disabilities can find relevant information at <http://www.umt.edu/dss/> .