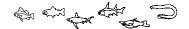
FW 300 Biology and Diversity of Fishes



Instrucr

Dr. Brett Johnson, Professor, Department of Fish, Wildlife and Conservation Biology

Required Materials

- Helfman, G., B.B. Colette, D.E. Facey and B.W. Bowen. 2009. The diversity of fishes, second edition. Wiley-Blackwell, Hoboken, NJ.
- FW300 lecture slides and required readings (on Canvas). These are copyrighted
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 for your use in the course.

Prerequisites

A beginning course in basic biology (LIFE103 or BZ111).

Credits and Instructional Methodology

This is a 2 credit class presented in traditional classroom lecture format.

Learning Objectives

Students will understand concepts and forge interrelationships in eight areas basic to fish biodiversity: anatomy, taxonomy, phylogeny, physiology, ecology, behavior, zoogeography, and conservation biology. Students will learn how to infer evolutionary relationships. Students will know how an understanding of evolutionary history and functional morphology apply to the conservation of fishes and their ecosystems.

Additional sources and readings

Bond, C.E. 1996. Biology of fishes. Saunders College Publishing, Fort Worth, Texas. Bronmark, C. and J.G. Miner. 1992. Predator-induced phenotypical change in body morphology in Crucian carp. Science 258:1348-1350.

Brooks, J.L. and S.I. Dodson. 1965. Predation, body size and composition of plankton. Science 150: 28-35.

Moyle, P.B. and J.J. Cech, Jr. 2004. Fishes: an introduction to ichthyology. Fifth edition. Prentice-Hall, Upper Saddle River, New Jersey.

Rahel, F.J. 2000. Homogenization of fish faunas across the United States. Science 288: 854-856. Werner, E.E. and D.J. Hall. 1976. Niche shifts in sunfishes: experimental evidence and significance.

Science 191:404-406.