

## Introduction to Freshwater Biology

Credits:	3 (2/1/0)
Description:	Meets MnTC Goal Areas 3 and 10. This course introduces students to basic principles of freshwater biology. Topics include the origins and features of basins and channels, the aquatic environment, basic water chemistry, aquatic organisms and aquatic ecology. Class includes a lab.
Prerequisites:	Completion of ENGL0050 and ENGL0040 with a grade of C or higher OR ENGL0095 with a grade of C or higher OR placement in ENGL1101
Corequisites:	None
Competencies:	<ol style="list-style-type: none"> <li>1. Explain the basic structure and function of aquatic ecosystems.</li> <li>2. Explain human adaptive strategies in those ecosystems.</li> <li>3. Discuss the impact of human activities on aquatic ecosystems.</li> <li>4. Compare political or legal solutions involving aquatic ecosystems.</li> <li>5. Evaluate critically environmental and natural resource issues concerning freshwater ecosystems.</li> <li>6. Propose and assess alternative solutions to environmental problems in freshwater ecosystems.</li> <li>7. Demonstrate understanding of scientific theories in freshwater biology.</li> <li>8. Formulate and test hypotheses by performing laboratory, simulation, or field experiments in freshwater biology.</li> <li>9. Evaluate societal issues related to freshwater biology.</li> <li>10. Communicate results in oral and/or written form.</li> </ol>
MnTC goal areas:	3. Natural Sciences 10. People and the Environment