



Course Name: Aquatic Science

School Year: 2021 - 2022

Course Purpose and Relevance:

In Aquatic Science, students study the interactions of biotic and abiotic components in aquatic environments, including impacts on aquatic systems. Investigations and field work in this course may emphasize fresh water or marine aspects of aquatic science depending primarily upon the natural resources available for study near the school. Students who successfully complete Aquatic Science will acquire knowledge about a variety of aquatic systems, conduct investigations and observations of aquatic environments, work collaboratively with peers, and develop critical-thinking and problem-solving skills.

Overview of Student Outcomes:

- The student uses scientific methods during laboratory and field investigations.
- The student uses critical thinking, scientific reasoning, and problem solving to make informed decisions within and outside the classroom.
- Students know that aquatic environments are the product of Earth systems interactions.
- The student conducts long-term studies on local aquatic environments. Local natural environments are to be preferred over artificial or virtual environments.
- The student knows the role of cycles in an aquatic environment.
- The student knows the origin and use of water in a watershed.
- The student knows that geological phenomena and fluid dynamics affect aquatic systems
- The student knows the types and components of aquatic ecosystems.
- The student knows environmental adaptations of aquatic organisms.
- The student knows about the interdependence and interactions that occur in aquatic environments.
- The student understands how human activities impact aquatic environments.

Available Support for Student Learning:

Refer to the teacher's Course Syllabus for resources and course specific opportunities. Student textbook and/or digital version are available through the CCISD Student Portal.

Link to Course TEKS on State website:

<http://ritter.tea.state.tx.us/rules/tac/chapter112/ch112c.html#112.32>

