

Course Description: **APOLOGIA SCIENCE: MARINE BIOLOGY 2021-22**

This course concentrates on marine wildlife and marine habitats. It provides a survey of members of each biological kingdom that live in marine environments. The student will learn about the microscopic organisms that make life in the ocean possible, including details about their interesting habits and life cycles. The student will also learn about the anatomy of many macroscopic marine creatures such as clams, starfish, and sharks. The student will then learn how these creatures and their physical surroundings form marine ecosystems such as intertidal zones, estuaries, coral reefs, continental shelf communities, epipelagic communities, and deep-ocean communities. The course ends with a study of marine resources and our relationship with the sea. Microscopes will be used, and several animal dissections will be performed.

Text: Exploring Creation with Marine Biology (Basic Set) (Sherri Seligson, Apologia Educational Ministries, 2nd edition) (~\$70.00 new; purchasing used is fine; purchase by mid-August)

****A first year biology course is a prerequisite for Marine Biology.**

The textbook and the Solutions and Tests Manual are required for each student. The companion CD is not required; it will be used in class, provided by the teacher, for videos, animations and pronunciation of terms. The textbook will be required in class every week, so the book on CD should not be purchased without the textbook too. **All students need to have the second edition of the book** because some labs have changed since the first edition.

The syllabus will be given and structured for a two-semester class and will cover the entire text. Class time will be devoted to conducting experiments and discussion. The first reading assignment will be given and must be completed before the first class. The first module's experiments will be performed at the first class meeting. **A weekly plan will be provided** with a suggested breakdown of daily homework for each module. Questions in the reading will be completed and turned in for grading. Lab reports will be written for all labs; guidelines will be provided. Study Guides and Module Tests will be completed at home and turned in for grading. Tests and lab reports will be turned in, and grades will be calculated using tests, lab reports and homework completion. Each semester will run 14 to 15 weeks, which will be up to the teacher's discretion. Extended assignment schedules may be given during the December/January break between semesters. Students may plan for a two-week break from Science at Christmas.

Cost of class includes supplies but not texts, solutions or test manuals.

Teacher: **Mrs. Aili Grasso** Cost: \$500/year 90 min class

PLEASE NOTE: THIS CLASS MEETS ON TUESDAYS
Tuesdays, 12:30 – 2:00 pm, at Chesterfield Presbyterian Church.

9Up Student orientation: Aug. 12, 2021 Time TBA

Fall semester: * Aug. 17, 2021 to Nov. 16, 2021 ***Please note: 9Up semesters are**
Winter semester: * Jan. 4, 2022 to April 12, 2022 **longer than those for K-8 HSN.**

This class will be cancelled if it does not reach a minimum of 3 students.

Mrs. Aili Grasso received her B.S. in Marine Biology from Texas A&M University in Galveston in 1998. Living in land-locked Missouri, she managed to use her biology background while working in labs at American Water Works and Missouri Baptist. She has 3 school age children and also teaches part-time at another local Christian school.