Marine Biology – College Now Dual Enrollment

Attendance and Participation

This is a lab and discussion intensive class. Please come prepared to participate actively. You need to bring **colored pencils** and a three ring binder to class each day.

A notebook dedicated only for this class is recommended because we will accumulate handouts, articles, and labs, which you will use throughout the course. Tests may be open book & notebook. You will want to have all of your accumulated materials handy.

The use of **cell phones**, or other electronic devices in class will not be permitted unless it is enhancing your mastery of Marine Biology. Cell phones will be confiscated if they are a distraction.

Only water !! No other food or drinks are permitted in class. Students are only permitted to leave class with a pass, or by signing out by the door.

Course Description

MHCC BI103 courses vary in theme, but all explore topics in ecology, evolution and organismal biology and discuss the importance of evolutionary theory to understanding nature. BI103B provides students with an introduction to the scientific discipline of animal behavior. The course takes a biological perspective to investigate both the proximate and ultimate causes of behavior. Topics include development of behavior, and how animals solve the ecological and evolutionary challenges of finding food and mates, raising offspring and avoiding predators.

Upon completion of this course you will receive college credit from Mt. Hood Community college. As an enrolled student you will enjoy all **privileges and responsibilities** of a college student such as use of the library, counseling, and athletic facilities.

General Instructional Methods

To help the student achieve the objectives outlined above, a variety of techniques will be used including lectures, small group discussions, homework assignments, in-class problem solving and laboratory experiences. Typically, each topic will be introduced and placed in perspective in class, and explored further in laboratory. Class communication will include lectures, demonstrations, case-studies, PowerPoint, films, student poster presentations and presentation of student directed field research.

Academic Honesty

Cheating, plagiarism, and other acts of academic dishonesty are regarded as serious offenses. Teachers have the responsibility to submit, in a written report to the Associate Vice President of Student Life and the principal of the high school, any such incident that cannot be resolved between the instructor and student. Depending on the nature of the offense, serious penalties may be imposed, ranging from loss of points to expulsion from the class or college. Student rights and responsibilities can be located in the MHCC Student Handbook.
http://www.mhcc.edu/docs/collegenow/studenthandbook.pdf

Student Learning Outcomes

1. Discuss and apply key concepts of ecology, evolution, and organismal biology.
Define, differentiate and use correctly, discipline specific vocabulary.

Student Learning Outcomes (cont.)

2. Apply the scientific method to answer biological questions. Demonstrate a basic ability to conduct scientific research

3. Demonstrate and apply techniques used by biologists, including the ability to collect and analyze reliable data and present this data in a symposium format.

4. Find & use relevant scientific literature. Differentiate scholarly from popular sources. Organize, interpret & present scientific data to scientists & laypersons.

Practices That Support Success

1. Follow your calendar both for classwork and homework. Use it to plan ahead for pre-arranged absences. The agenda on the board is the most accurate representation of what we have done in class. Some students like to capture it on their cell phones

2. Find a study buddy / lab partner. Support one another in the classroom, and at home during absences, projects, test preparation. Share captured agendas from the board.

3. Ask a question everyday. We all expand our understanding when we share perceptions and misperceptions while learning.

4. Let me know when you need help. During class, after class, or by email from home, I will respond to your inquiries as fast as I can. Please give me a reasonable amount of time to work with you, 5 minutes before class starts does not work well

Trimester 1: **Marine Mammals & Reptiles, Phytoplankton, Sponges, Cnidaria**

Trimester 2: **Worms, Mollusks, Echinoderms, Arthropods**, **Fish**

Trimester 3: Deep Sea, Open Ocean, Estuaries, Intertidal, Human Impacts

CRL Outcomes: **Teamwork:** Students will develop skills related to team work through group lab and research work

Communication: Students will develop personal and group communication skills by presenting the results of labs and research projects to classroom groups.

Field Trips:

First trimester we will go whale-watching for two hours, and collect plankton samples.. We will view the plankton samples under a video microscope on the boat, and bring samples back to class. We will also attend a whale class at Hatfield Marine Sci. Center.

Second trimester we visit the Coast Aquarium, including a behind the scenes tour. At Hatfield Marine Science Center we will take an Invertebrate Classification which includes handling living specimens of the most common phyla we will encounter in the tidepools.

Third Trimester we will visit the tidepools at Boiler Bay to conduct original field research that students have designed. This research is required for MHCC credit.

Credit For Work

Work must be neat and legible or it will be returned ungraded. **NOT TOO SMALL !**

Work completed on time will receive a stamp from me in class. The stamp is to identify homework completed by the assigned due date. This information may be helpful during parent conferences to identify areas where students can improve in their study habits. Late work **MUST Be SUBMITTED BEFORE THE END OF EACH MIDTERM** .

All work missed must be made up without exception. I will assist you in scheduling makeup work, but it is the **student's responsibility to make arrangements.** Work for prearranged absences must be done in advance whenever possible. Keep in mind that many lab materials are perishable and making up labs quickly is in your best interest.

Extra credit can be earned by hand writing a quality summary of an article of substance (not a paragraph from the newspaper), visiting a science lab or museum, or producing a visual aide for use in the classroom. One extra credit assignment can be submitted each week for a maximum total of 5% of the final grade.

Assignments make up 20% of your grade. It is important to keep up with daily work so you can get the most out of each class period. Labs make up 30% of your grade.

Missing a lab can have a big effect on your grade, so be aware of upcoming labs and make arrangements to make up labs you are missing because of pre-arranged absences. Each trimester there is one traditional test and one class presentation which will demonstrate your mastery over course content. Third trimester you will work on a team to design and carry out an original research project in the rocky intertidal zone. Results will be presented to the class.

Grading

Assignments 17 % Labs 25 % Participation 8% Tests 35% Final 15%

Please feel free to email me at any time. This is the best and fastest way to reach me. **dmoore@corbett.k12.or.us** You can also reach me at **(503) 261-4223.**

Student grades and missing worked can be viewed online at any time .

Student **Parent**