



## **Course: Biology 1B**

**425**

**Academic Year:** 2009-2010

**Faculty Name:** Stacey La Riviere

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**Room Number:** room 113

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### **Course Description**

This is year two of a comprehensive curriculum in the biological sciences. This two year biology class is designed to give students a basic understanding of the fundamentals of biological science. This will enable students to live a healthier life, to be better citizens in the community, and more fully understand their natural surrounding. It will include major topics in modern biology presented in a series of activity-centered lessons. Class time will consist of demonstrations, labs, hands on activities, short lectures, informational videos, and assessments. The first quarter of the course will incorporate an extensive review of the concepts in 424 biology: cells, biochemistry, bioenergetics, and genetics. The remainder of the year will cover classification, evolution, ecology, and human body systems to complete the curriculum. A review of all topics and practice with MCAS style multiple choice questions and essays will complete the year.

### **Key Prerequisite Knowledge/Skills for Success in this Course**

424 Biology only

### **Learning Outcomes**

See the detailed listing of learning outcomes in the course curriculum.

### **Textbooks & Reading Materials**

- **Books**
- Johnson, George B. (August, 1998). *Biology: Visualizing Life: Visualizing Life*. Holt Rinehart & Winston.
- **Websites**

## **Behavior Expectations & Classroom Conduct**

Before Class: Gather all materials needed for class and use the bathroom. Bathroom passes will be limited. Class begins as you walk in the door: Go to your assigned seat, take out your planner and notebook. Begin writing down homework in your planner.

Bring the Following to Class Everyday:

- Agenda book & Text book
- 3 Ring binder with all pages
- Pens and pencils
- Cooperation and your best effort!!

Please do not bring to class:

- Cell phones, I pods, hats, food or drink (bottled water is an exception).

Expected Behavior: It is your responsibility to be on time to class with your proper materials. Be polite, no talking when someone else is speaking.

Respect others right to learn and my right to teach.

Inappropriate Behavior: Students will be given a warning. If the behavior continues students will be removed from the classroom and referred their Vice Principal where a detention or call home may be in order.

## **Grading Policies**

A cumulative point system will be used to in determining each students progress for each marking

term. The year end grade will be a numerical average of each of the four marking terms and the final

exam grade which will account for 10% of the total grade. Student grades will be from weighted

categories including: labs, classwork, homework, exams, notebook, MCAS portfolio. A letter grade

will be assigned based on the grading policy outlined in the MHS Student Handbook.

Grading: Grades will be determined from the following categories:

Lab/projects 20%

Science binder/ MCAS folder 15%

Homework 20%

Class work 10%

Tests/quizzes 35%

Assignments and Make-Up Policy: Assignments should be legible and passed in on time. In general late work will not be accepted. If an assignment is missed due to an absence it is the responsibility of

the student to get any missed work. It is the student's responsibility to come to me to arrange a time to make up a missed quiz or test. Students will have 3 days to turn in make up work otherwise it will be a zero.

Attendance: More than 10 absences for the year = no credit for the course.

I can't teach an empty seat. Be in class everyday!

Tardies: 3 tardies = 1 class absence

Plagerism and Cheating Policies - See the Code of Conduct in the MHS Student Handbook.

### **Students who are successful in this course are prepared for the following courses:**

Students who are successful in this course are prepared for the following courses:  
Current events,  
Level 2 Anatomy and Physiology, Level 2 Marine Biology

### **Additional Comments**

## **Course Schedule**

<b>Week #/ Dates:</b>	<b>Major Topics</b>	<b>Assessment(s) (Quizzes/Exams)</b>
Term 1	Review of 424 Biology including: the Nature of Life, Scientific Method, Characteristics of Living Things, Tools of Science, The Chemistry of Life, The Nature of Matter, Properties of Water, Acids, Bases and pH Organic Compounds Chemical reactions, and Enzymes Cells, Cells structure and Function, Cell Boundaries & Movement Through Cells, Eukaryotic Prokaryotic Cells, 6 Kingdom System, and genetics, DNA & RNA structure DNA Replication Protien Synthesis, Mutations	-- Informal Observations, Dip - sticking during discussion, Lab and Film reports, Homework completion: reading summaries, End of chapter questions and critical thinking questions, Handout completion, Protfolio completion, Notebook organization, exams
Term 2	Bacteria, Viruses and Diseases, Photosynthesis, Cellular Respiration, Cell Growth and Division, Mitosis, Meiosis	
Term 3	Theroy of Evolution, Evidences of Evolution, Evolution of Populations, Ecology, The Biosphere and Cycles of Matter Ecosystems and Communities Populations Humans in the Biosphere.	
Term 4	Anatomy and Physiology: Digestive System, Circulatory System, Excretory System, Respiratory System, Nervous System, Muscular System, Skeletal System, Endocrine System, Body System Interactions, MCAS Prep / Review.	



Marshfield High School

**Academic Year:** \_\_\_\_\_

**I have read the Syllabus for:** \_\_\_\_\_  
**Course**

\_\_\_\_\_  
**(Print Parent Name)**

\_\_\_\_\_  
**(Parent Signature)**

\_\_\_\_\_  
**(Date)**

\_\_\_\_\_  
**(Print Student Name)**

\_\_\_\_\_  
**(Student Signature)**

\_\_\_\_\_  
**(Date)**