

# BIOLOGY & HONORS BIOLOGY – Dr. Marcia Grady 2011-2012

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**THIS PAGE MUST BE KEPT AT THE FRONT OF YOUR BINDER AT ALL TIMES**

**Course Description:** This is a high school level study of the living world, using standard scientific procedures including laboratory exercises, lectures, class discussions, individual work, projects, quizzes and tests. The study of Biology is one which continually builds on prior knowledge, therefore ALL course materials – tests, quizzes, handouts, graded work, etc. – MUST be kept in the student’s binder. These will be used to study for your *cumulative* Final Exam at year’s end.

Do not throw away any Biology papers for the year!!!

**Text:** *Biology, The Dynamics of Life*. Glencoe 2004. Students are responsible for their assigned textbooks, which are to be returned at the end of the school year. A Replacement Fee must be paid if the *Biology* text is lost. The textbook IS used regularly and students are expected to *read/review* all assigned chapters.

## REQUIREMENTS, POLICIES & PROCEDURES

### Daily:

- **3-ring binder** with lined, looseleaf notebook paper and 4-8 dividers for Biology (start with 4 & finish the year with 8 dividers). NO spiral notebook paper.
- **Blue or black pens, highlighters, pencils with erasers.** Bring several of these to class each day; small sharpener & calculator are suggested. NO gel pens for any work to be graded.
- **Yoman & Textbook.** Both supplied by THS and MUST be brought to class daily.
- **Other personal supplies as appropriate & needed, especially glasses** if you need them. NO cell phones ever!!  
Cosmetics, food, drinks, gum, lotions are also *NOT* appropriate in the science classroom.
- **Any work due that day!!!** Students are responsible for handing in completed assignments to Dr. Grady.
- **Respect, Cooperation & Responsibility.** Students are expected to follow ALL classroom & school policies regarding dress, behavior and academics. Dr. Grady has high expectations of students’ *respect* for the process of learning, as well as for themselves, teachers, other students and our school. Distractions that interfere with another student’s opportunity and right to learn will not be tolerated.

**CLASSROOM SUPPLY WISH LIST:** any or all of these will be greatly appreciated:

TISSUES, GLUE STICKS, BAND-AIDS, HAND SANITIZER, markers, colored pencils:

**Temima Grading Scale:** see Parent/Student Handbook p. 15

<b>GRADING:</b>	Tests	25%	<b>HONORS:</b>	30%
	Quizzes	15%		20%
	Labs	25%		30%
	Classwork & Homework	20%		10%
	Notebook/ Binder	15%		10%

Projects will count as either Tests or Labs, with clarification given when assigned.

**Tests:** All are announced in advance and graded for correctness & completeness. They will generally be 70% objective (multiple-choice, true-false, matching, word bank, diagrams, etc) and 30% free-response questions. Honors students should expect some test questions that require more comprehensive knowledge and/or higher levels of thinking.

**Quizzes:** may be announced or unannounced and are graded for correctness.

**3 Ring Binder:** start with 4 sections: Vocabulary, Unit I (Introduction/Process Skills), Unit II (Cells & Metabolism), Labs. 4 Unit sections will be added as the year progresses. The binder will be graded once per academic quarter.

**Labs:** Observe all safety procedures. Absolutely no “play” will be tolerated during lab time. Listen closely to specific safety instructions given in class. Students will receive a separate Lab Safety Contract to be signed and returned. **Clean up** is part of your lab grade: students are responsible for cleaning up their own lab stations and equipment. All materials are to be returned to the proper place before leaving class. Each student is expected to make every effort to work cooperatively with any assigned partner/s, who will change throughout the year.

Labs will be graded according to specific guidelines for each assignment. *Formal lab reports* must include Introduction, Materials & Methods, Data, Results and Conclusions; details will be given before the first formal report is due. Informal lab reports involve *completing* all lab work and handouts before handing in for credit.

Honors students are expected to present a “formal lab report” for each lab, including greater depth and insight into the topic.

**Classwork & Homework assignments** are announced & posted. Record them in your Yoman.

- **ALL** students must have first & last name, date, and class period/title in the upper right corner. All papers must also include a specific assignment "title" at the top of the page.
- **Written work** should be in complete sentences which reflect the question, with numbers or sequences neatly and clearly indicated. **Spelling counts**, especially science vocabulary.
- **All work is graded for** completeness and correctness of subject matter, as well as for following directions, which includes *completing* the assignment. You will lose more points for blanks than for honest attempts, even if incorrect
- **Diagrams** should NOT be traced, but must be free-hand, labeled on blank computer paper.

**Tardy Policy:** see Parent/Student Handbook p. 5

**Late Work Policy:** Late homework & classwork is accepted, but will not receive full credit. A maximum of 60% is possible on any assignment turned in later than 1 week. Labs & Notebooks will be penalized -5% /day.

**Make-up Work:** Because of the nature of this course, make every effort to be in class each day. Make-up work is only available for **excused absences** and **IT IS THE STUDENT'S RESPONSIBILITY TO FIND OUT WHAT WAS MISSED**. Students will typically have **2 days** to complete the work missed for each excused absence. Unannounced "pop" quizzes cannot be made up. Make-up of major tests, other quizzes, and labs can be scheduled on an individual basis, within one week of returning to school. For prolonged excused absences (three or more days), please come and speak with me to work out a schedule for completing missed assignments. Failure to complete missed work will result in a zero for the assignment.

**Extra Help:** Please see Dr. G. to schedule time if you are having trouble, need something further explained or to make up work. I am generally not on campus on Fridays and am only at Temima for half-days otherwise, but am more than willing to set up time as both of our schedules permit.

**Cheating** of any sort, including plagiarism, is not tolerated and will result in a zero for the Assignment. Parents and administrators will be notified. See Parent/Student Handbook p. 9.

## MAJOR COURSE CONTENTS:

### I. INTRODUCTION/PROCESS SKILLS:

[intro, reference sections, ch. 1]  
Characteristics of Science  
Characteristics of Life  
Unifying Concepts of Biology  
Diversity of Life

### II. CELLS & METABOLISM:

[ch. 7, 6, 9, 8 part]  
Cell Structures & Functions  
Membranes & Cell Transport  
Cell Energy Transformations  
(photosynthesis & respiration)  
Cell Cycle (mitosis)

### III. GENETICS:

[ch. 11, 8 part, 10, 12]  
Meiosis (vs. mitosis)  
Molecular Genetics  
Mendelian Genetics  
Gene Technology

### IV. EVOLUTION:

[ch. 14,15]  
History & Evidences  
Natural Selection & Speciation  
Variations & Adaptations

### V. ECOLOGY:

[ch. 2, 3, 4, 5]  
Energy Flow & Ecosystems  
Populations, Communities & Biomes  
Biological Diversity & Human Impact

### VI. DIVERSITY/ SYSTEMS:

[ch. 17, 18-20, 21-24, 25-29, 30-33, 34-39]  
Taxonomy & Classification  
6 Kingdoms Survey  
Comparative Systems  
(plants & animals)