

15211 HONORS BIOLOGY

This is a standards based course, which incorporates the Massachusetts Science Curriculum Frameworks. Topics include structure and composition of organic molecules, structure and function of cells, hydrolysis, dehydration synthesis, protein synthesis, genetics, human anatomy and physiology, evolution and biodiversity, taxonomy, and ecology.

TEXTBOOK:

Holt, Rinehart and Winston. Modern Biology or Miller and Levine. Biology. Prentice Hall. Further Reading will be assigned as needed.

TEXTBOOK / EQUIPMENT POLICY:

A textbook will be issued to each student at the beginning of the year. Any equipment damaged by negligent use must be paid for by the end of the school year.

Teacher Website

My B.M.C. Durfee website can be found at <http://www.fallriverschools.org/plee.cfm>. You may also access this site through the B.M.C. Durfee High School website science department listing. I will be posting homework assignments, test dates, and other information. In addition, I will be posting PowerPoint's used in the class daily. These may be used by students who were out for the day so they will be better prepared for class when they return. My school email address is plee@fallriverschools.org. Please feel free to contact me if you have any questions.

STUDENT EXPECTATIONS:

- Demonstrate the ability to apply information to solve problems and make decisions.
- Demonstrate the skills needed for the productive use of technology.
- Demonstrate the ability to work cooperatively to solve problems.
- Demonstrate preparedness for class. This includes having a three-ring binder for Biology

GRADING SYSTEM:

Grades will be based on the following percentage scale:

A+ = 97-100%	B+ = 87-89%	C+ = 77-79%	D+ = 67-69%	F = below 60%
A = 93-96%	B = 83-86%	C = 73-76%	D = 63-66%	
A- = 90-92%	B- = 80-82%	C- = 70-72%	D- = 60-62%	

Term Grades for this class will be based on the following components:

Formative Assessments:	40%
Labs/Projects:	20%
Homework:	15%
Assignments:	10%
Quarterly Exam	15%

(40%) Formative Assessments: (Tests and Quizzes)

Students will demonstrate understanding of course material by completing examinations that will be a combination of open response and objective questions. Students who have an excused absence will be able to make up the exam after school when the teacher is available. It is your responsibility to remember to ask for and complete any missing formative assessments.

(20%) Labs/Projects:

Students must follow instructions and remain on-task when completing Labs and Projects. For the safety of all students, any student who can not follow lab safety instructions will not be able to complete the lab and will receive no credit for the assignment. Students who have an unexcused absence will not be permitted to make up the Lab or Project. It is your responsibility to remember to ask for and hand in any missing Labs or Projects.

(15%) Homework:

Students will be given homework on a regular basis. Students must complete all Homework Assignments. When completing homework, be sure to follow directions and turn in neat work. Homework is due at the beginning of class. No homework will be accepted at the end of class. Late work will not be accepted unless there is an excused absence (see attendance policy). It is your responsibility to remember to ask for and hand in any missing homework.

(10%) Assignments:

Students must complete all Assignments. Students must follow instructions and remain on-task when completing all Assignments. Students who have an unexcused absence will not be permitted to make up assignments. It is your responsibility to remember to ask for and hand in any missing assignments.

Attendance:

Students are required to bring a note from a doctor or court to excuse an absence. Missed work due to excused absences must be made up within one week of the student's return to school. See your Student Handbook for more information.

Special Accommodations:

Students with special needs must arrange accommodations with the teacher. Please do so by the end of the 1st week of school. Students wishing to meet for tutoring, help on assignments, or to make-up tests or labs throughout the term, should make arrangements as needed with the teacher. You may not miss another course to come to my class.

COURSE SCOPE AND SEQUENCE

Introduction to Course (1 week)

- Introduction to the Course and Biology
- Scientific Inquiry Skills

Chemistry of Life (3 weeks)

- Basics of Chemistry
- Organic Molecules
- Enzymes

Cell Biology (11 weeks)

- Introduction to Cells
- Prokaryotes and Eukaryotes
- Cell Organelles
- Cell Transport
- Photosynthesis and Cellular Respiration
- Cell Cycle, Mitosis, and Fertilization
- Viruses

Genetics (7 weeks)

- Structure and Function of DNA
- DNA Replication, Transcription and Translation
- Mutations
- Inheritance Patterns
- Meiosis
- Mendel's Laws, Genotype and Phenotype, Punnett Squares

Evolution and Biodiversity (4 weeks)

- Evidence for Evolution
- Natural Selection
- Speciation and Taxonomy

Ecology (5 weeks)

- Cycles
- Food Webs and Energy Transfer
- Populations and Change in Population Size

Anatomy and Physiology (6 weeks)

- Digestive System
- Circulatory and Excretory System

- Respiratory System and Gas Exchange
- Nervous System
- Muscular and Skeletal System
- Sexual Reproduction
- Communication Between Cells
- Homeostasis

CLASS RULES & CONSEQUENCES

Respect is a two-way street. The purpose of my classroom rules is to ensure that we have an atmosphere that is safe and is favorable to learning.

1. Be ready to learn, keep an open mind
2. Respect yourself, your classmates, and your teacher
3. No eating in class

The consequences of not following the rules above will depend upon the infraction and its severity.

Most consequences will begin with a warning. If continued, you will be asked to stay after school for me. If you do not show up for the after school detention with me, I must write you up and you will receive a school detention which lasts much longer than mine.

If the infraction involves blatant disrespect (this could include damage of any physical property, emotionally hurtful behavior, physically harmful behavior, or inappropriate verbal behavior), the consequences could include a written referral to your vice-principal's office, or being sent immediately to your grade office. At that point, the vice-principle will then decide on the actual consequence, which could range from detention, in-school suspension, out of school suspension, Saturday School, to expulsion. It is my sincere hope that with all of us working together to reinforce our rules and no one will need to be written up for this type of offense.

Simply put, be courteous to your fellow classmates. Please don't ruin the class for the others.

Dear Parents/Guardians:

My name is Patrick Lee, and I will be your child's Biology teacher for this school year. I am looking forward to having a great year of learning and discovery. Attached to this notice you will find a copy of the syllabus. This syllabus contains important information about the course, including scope and sequence and grading policies. Please take a few moments to read these pages and ask your child to read them with you. Please sign below to indicate that you have received these documents and understand what is required of your child in my biology class this year. Your cooperation is greatly appreciated.

I look forward to meeting you at Durfee's Open House night. Until then, if you have any questions, feel free to email me at plee@fallriverschools.org. and I will get back to you as soon as I can.

Please sign and return this page.

Sincerely,

Patrick Lee

I _____ (print student name) have read the classroom policies and procedures and the grading policy sheet for Mr. Lee's Biology class. I understand the rules and the consequences for breaking them. I have shown these documents to my parent or guardian.

Student's signature _____ Date _____

I _____ (print parent name) have received the classroom policies and procedures and the grading policy sheet from my child. I have read these notices and I understand what is expected from my child. I also understand that my child's failure to comply with the rules will have consequences.

Parent's / Guardian's Signature _____ Date _____

Please enter an email address so I will be better able to keep you informed of student progress. _____