

Department: Science

Course: Biology 26.11 (CP1) Y

Teachers: Barnett, Bailey, Johanneson, Cantwell, and Lammers

2008 - 2009

Outline of Topics

- Unit 1 **Foundations of Biology:** the science of life, chemistry of life, and biochemistry.
- Unit 2 **Cell Biology:** cell structure and function, homeostasis and cell transport, photosynthesis, cellular respiration and cell reproduction.
- Unit 3 **Genetics and Technology:** fundamentals of genetics, nucleic acids and protein synthesis, gene expression, inheritance patterns, human genetics and gene technology.
- Unit 4 **Evolution:** history of life, theory of evolution, population genetics and speciation, classification of organisms
- Unit 6 **Microbes, Protists, and Fungi:** bacteria, viruses, protists and fungi.
- Unit 7 **Plants:** the importance of plants, plant evolution and classification, plant structure and function.
- Unit 8 **Invertebrates:** introduction to animals, sponges, cnidarians, and ctenophores; flatworms, roundworms, and rotifers, mollusks and annelids, arthropods; insects, echinoderms and invertebrate chordates. (This section will consist of individual PowerPoint presentations)
- Unit 9 **Vertebrates:** fishes, amphibians, reptiles, birds and mammals. (This section will consist of individual PowerPoint presentations)
- Unit 10 **Human Biology:** skeletal, muscular, and integumentary systems; circulatory and respiratory systems; the body's defense system; digestive and excretory systems; nervous system and sense organs.

Grading

- 40% Tests (expect a test about every 10 -12 school days)
- 20% Lab write-ups and class presentations.
- 20% Homework checks and quizzes (and anything else that might come up)
- 20% Semester comprehensive exam (no notes permitted)

Materials

1. Textbook: Holt, Rinehart and Winston's Modern Biology (2009 edition)
(Note: Some views presented in the text may not necessarily be those held by St. Pius X Catholic High School or the Roman Catholic Church, but Mr. Lammers hasn't found any – please call him if you find any.)
2. Notebook: 3-ring binder with loose leaf paper
3. **Pen and pencils**
4. **Flash drive**

Academic Expectations

1. Assignments are due the following day unless otherwise noted. Assignments will be posted on the board. It is your responsibility to write down and complete your work.

2. ASSIGNMENTS ARE TO BE TURNED IN ON POSTED DUE DATE!

3. A test will be given after completing each chapter or packet.
4. Quizzes may be given to evaluate student progress and understanding of course material.
5. Homework checks will be made periodically to evaluate student progress and understanding of material.
6. Work should be written in complete sentences when applicable.

Additional Information

Students who have been absent for several days are responsible on the day of their return to make arrangements to make up tests which they have missed. Make-up tests must occur within three school days of the student's return. Students who have been absent for one or two days only, and have missed a test, **must make up the test on the day of their return to school.** Any student missing a major test due to late arrival, early dismissal, or medical appointment must contact his/her instructor during that school day and arrange to take the test during a free period, at their lunch period, or after school.

STUDENTS WHO FAIL TO SEE THE INSTRUCTOR TO MAKE THESE ARRANGEMENTS ON THAT DAY WILL NOT BE ALLOWED TO MAKE UP THE TEST AND COULD RECEIVE A GRADE OF ZERO.

In addition, it is the responsibility of the student who has been absent from class to find out what assignments have been missed and to complete them within three school days.

SCIENCE DEPARTMENT RULES

1. Students may not touch science equipment and/or computers without authorization from Teacher. Laboratory procedures must be followed exactly; students may **not** use equipment in any other manner.
 2. All students will adhere to safety and science department rules. Students will not touch materials on carts unless instructed to do so by Teacher. Students will also return all materials to the correct cart or cabinet.
-

Classroom Procedures

- 3. STUDENTS ARE EXPECTED TO BRING TO CLASS: TEXTBOOK, NOTEBOOK (3-ring binder, loose leaf paper), PENCIL, PEN, AND ANY OTHER ASSIGNED EQUIPMENT EVERY DAY.**
4. Each student is expected to be seated in his/her assigned seat before the bell rings to begin class.
5. Students are expected to remain in their seats, take notes and be attentive during class.
6. Students will raise their hands and wait to be called upon before speaking in class
7. Students should have a reliable “homework buddy” who can be called to check homework assignments during absence. It is not the responsibility of the teacher to ask the student to make up missed work. Students may also check their teachers’ web page for a general idea of class assignments.
8. It is important to listen to the teacher during class and not work on homework during class directions or lecture.
- 9. Extra copies of worksheets can be found on the table between rooms 602 and 603.**
- 10. You may also print section worksheets from the book publishers’ webpage.**
- 11. The book publisher’s webpage provides online section quiz assessments.**
- 12. Analyzing word parts, p. 1074**

CLASSROOM DISCIPLINE

13. Violators of the safety and equipment regulations will be referred to the Discipline Office and/or given a detention.
14. Violators of the rules of classroom procedure will be warned that their behavior interferes with the progress of class. Continued disregard of the rules will result in detention.
15. Exceptionally disruptive or discourteous students may receive Discipline Office referrals without warning.
16. Laboratory work is an interesting and exciting part of a science course. Students who follow regulations will be allowed to participate in all classroom activities.
17. Students must be in proper uniform as outlined in the student handbook.

Student Signature Section

I, _____, have read the Biology CP1 syllabus and the St. Pius Student Handbook and I understand the following:

Initial here

- 1. I am to come to class with **all** necessary materials.
I will not be allowed to go back to my locker. _____

- 2. I will see my teacher on a test day if I check in late or
leave early in order to make arrangements for make-
up tests. _____

- 3. I understand that tests are announced in advance.
Therefore, if I feel I am going to be absent due to illness, I will
take home my Biology book and be prepared to take the
test upon my return. _____

- 5. I will adhere to all lab safety rules. A set of rules are listed
in my textbook (p. 1066-1067). _____

- 5. I have read and I understand the discipline procedures
outlined in the student handbook. _____

Student Signature Section

Signature

Date

Parent/Guardian Signature Section

Signature

Date