

Course: Advanced Placement Biology, Grade level: 11, 12.
Prerequisites: "A" or "B" grade in Biology and teacher recommendation. Completion of Chemistry and the summer project is recommended.

A. P. Biology is an advanced second year laboratory course in biology that is equivalent to a first year college Biology course. This course presents an in-depth study of all aspects of biology. Students in this class will develop their critical thinking skills, writing skills, and investigative lab skills. The major goals for students in this class are:

1. To develop an understanding of the major concepts of biology and how these concepts connect to each other and unify all areas of biology.
2. To understand science as a process and to apply this process through inquiry based lab and research work.
3. To apply your understanding of the concepts in biology to real world environmental and social issues (such as stem cell research, sustainability, habitat loss, genetic engineering, proteonomics, and pesticide resistance). Emphasis is placed on laboratory experiences and mastery of biological principles.

You can qualify to receive college credit for the work done in this class, by taking the A.P. Biology Test offered in May.

Teacher: Jeff Orlinsky Contact info: jorlinsky@dusd.net mrbiology@hotmail.com <http://www.mrbiology.info>

On-line: Canvas Instructure is our Learning Management System, the course's on-line material.

Text: Campbell Biology: You do not need to bring your textbook to class every day. Nightly reading averages about 7 pages. Studies show that repeated readings improve acquisition of knowledge. Cost \$120.00.

Grading: Students must attend class regularly and punctually. Excessive absences and tardiness affect students' learning and grades. It is the student's responsibility to turn in all work on time. **STUDENTS SHOULD MAINTAIN A "B" AVERAGE IN THE CLASS.** The student's semester grades will be based on the following: Reading Assignments, Weekly on-line quizzes, Semester Projects, Tests and written Lab Reports. Students are expected to turn in every assignment. No Extra Credit will be offered.

A=90-100% (Outstanding) B=89-80%(Good) C=79-70%(Average) D=69-60%(Below Average) F=59-0%

Rules: It is the right of each student to be provided an atmosphere in which the learning process is not hampered. To assure this, the following rules will be implemented:

1. Students are to be in their seats and ready to work with, pen or pencil and paper when the bell rings.
2. Be considerate. Please respect the animals and the classroom environment.
3. All eating and personal grooming should be done outside the classroom before or after class.
4. All students must read and understand the Academic Honor Code
5. Discipline procedure:
 1. Verbal and or written warning, 10-minute detention.
 2. Phone home, and or detention for 30 minutes.
 3. Referral to the office.

Standards: This course will use the College Board Standards and practices, and all students are expected meet these standards.

Notes: Note Taking Procedure. Students should preview notes or text before a lecture, be ready to take notes during class, and after re-write or re-organize your notes a lecture. These notes must be placed in the three-ringed notebook. Use of on-line tests will be an important part of the note taking process.

Time: This course will require more time than a typical science course at Warren. To be successful in this class you will have to master time management skills. Expect the first two months to be the most difficult. During this time you will be introduced to weekly on-line tests, lectures and a weekly lab experience. Below is a typical month past students have reported.

Important Dates: Last day to drop my class: 9/22/18

	M	T	W	Th	F	Total time for the week
Week 1	Reading		Worked on lab	Reviewed for test	Test	170 min
Week 2	Worked on project	Worked on lab	Worked on lab		QOTW quiz	220 min
Week 3		Reading	Worked on lab	Worked on lab	QOTW quiz	190 min
Week 4			Reading		QOTW quiz	90 min
					Average for the month	30 min per day

Average time to complete assignments

Formal Lab reports 300 minutes/other lab reports 150

Studying per week 90 minutes

Weekly On-line quiz (QOTW) 60 minutes

Reading sections in the book 30 minutes

Projects 60 minutes

If a student does not manage their time effectively, then it is possible a student will not have enough time to complete the assignments in my class.

To Parents:

Each month, I provide a monthly syllabus highlighting what is covered each day of class, Also included are due dates for class assignments. Each month I give the students an updated grade report. Please keep this hand-out to help remind your child about the expectations of this class. Please check-out the web page for more information.

Indicators of a successful student

- All work turned in on time
- Grades are improving throughout the semester.
- Student is working in groups, or using additional resources to study.
- Student has excellent time management skills

Indicators of a struggling student

- Missing assignments or assignments not turned in on time
- Grades are not improving throughout the semester. Or grades cycle between "C" and "F"
- Student is working alone, avoiding working on assignments.
- Student has poor time management skills, not using free time to get ahead, or study

Materials:

1. Spiral Bound notebook, about 70 pages single subject
2. Three ring binder may be shared with other classes.
3. Colored pencils, highlighters
4. Scissors and glue sticks.

PURPOSE Science is a hands-on laboratory class. However, science activities may have potential hazards. We will use some equipment and animals that may be dangerous if not handled properly. Safety in the science classroom is an important part of the scientific process. To ensure a safe classroom, a list of rules has been developed and is called the Science Safety Contract. These rules must be followed at all times. Additional safety instructions will be given for each activity. No science student will be allowed to participate in science activities until this contract has been signed by both the student and a parent or guardian.

SAFETY RULES

1. Conduct yourself in a responsible manner at all times in the science room. Horseplay, practical jokes, and pranks will not be tolerated.
2. Follow all written and verbal instructions carefully. Ask your teacher questions if you do not understand the instructions.
3. Do not touch any equipment, supplies, animals, or other materials in the science room without permission from the teacher.
4. Perform only authorized and approved experiments. Do not conduct any experiments when the teacher is out of the room.
5. Never eat, drink, chew gum, or taste anything in the science room.
6. Keep hands away from face, eyes, and mouth while using science materials or when working with either chemicals or animals. Wash your hands with soap and water before leaving the science room.
7. Wear safety glasses or goggles when instructed. Never remove safety glasses or goggles during an experiment. There will be no exceptions to this rule!
8. Keep your work area and the science room neat and clean. Bring only your laboratory instructions, worksheets, and writing instruments to the work area.
9. Clean all work areas and equipment at the end of the experiment. Return all equipment clean and in working order to the proper storage area.

10. Follow your teacher's instructions to dispose of any waste materials generated in an experiment.
11. Report any accident (fire, spill, breakage, etc.), injury (cut, burn, etc.), or hazardous condition (broken equipment, etc.) to the teacher immediately.
12. Consider all chemicals used in the science room to be dangerous. Do not touch or smell any chemicals unless specifically instructed to do so.
13. Handle all animals with care and respect. a. Open animal cages only with permission. b. Never handle any animals when the teacher is out of the room. c. Do not take animals out of the science room. d. Do not tease or handle animals roughly. e. Keep animals away from students' faces. f. Wear gloves when handling animals. g. Report any animal bite or scratch to the teacher immediately.
14. Always carry a microscope with both hands. Hold the arm with one hand; place the other hand under the base.
15. Treat all preserved specimens and dissecting supplies with care and respect. a. Do not remove preserved specimens from the science room. b. Use scalpels, scissors, and other sharp instruments only as instructed. c. Never cut any material towards you—always cut away from your body. d. Report any cut or scratch from sharp instruments to the teacher immediately.
16. Never open storage cabinets or enter the prep/storage room without permission from the teacher.
17. Do not remove chemicals, equipment, supplies, or animals from the science room without permission from the teacher.
18. Handle all glassware with care. Never pick up hot or broken glassware with your bare hands.
19. Use extreme caution when using matches, a burner, or hot plate. Only light burners when instructed and do not put anything into a flame unless specifically instructed to do so. Do not leave a lit burner unattended.
20. Dress properly—long hair must be tied back, no dangling jewelry, and no loose or baggy clothing. Wear aprons when instructed.
21. Learn where the safety equipment is located and how to use it. Know where the exits are located and what to do in case of an emergency or fire drill.

AGREEMENT

I, _____, (student's name) have read and understand each of the above safety rules set forth in this contract. I agree to follow them to ensure not only my own safety but also the safety of others in the science classroom or laboratory. I also agree to follow the general rules of appropriate behavior for a classroom at all times to avoid accidents and to provide a safe learning environment for everyone. I understand that if I do not follow all the rules and safety precautions, I will not be allowed to participate in science activities.

Student Signature

Date

Dear Parent or Guardian: We feel that you should be informed of the school's effort to create and maintain a safe science classroom/ laboratory environment. Please read the list of safety rules. No student will be permitted to perform science activities unless this contract is signed by both the student and parent/guardian and is on file with the teacher. Your signature on this contract indicates that you have read this Science Safety Contract, reviewed it with your child, and are aware of the measures taken to ensure the safety of your son/daughter in the science classroom.

Parent/Guardian Signature

Date

Important questions: Does your child wear contact lenses? Y or N Is your child color blind? Y or N Does your child have any allergies? Y or N If so, please list: