



Deer Valley Unified School District

Mrs. Rodgers

Room # C 216

Voice Mail # 623-376-3044

Project Lead the Way

Website: <https://www.dvUSD.org/Domain/2873>

Principles of Biomedical Sciences Honors

Course Description:

Students explore concepts of biology and medicine as they take on roles of different medical professionals to solve real-world problems. Over the course of the year, students are challenged in various scenarios including investigating a crime scene to solve a mystery, diagnosing and proposing treatment to patients in a family medical practice, to tracking down and containing a medical outbreak at a local hospital, stabilizing a patient during an emergency, and collaborating with others to design solutions to local and global medical problems.

From design and data analysis to outbreaks, clinical empathy, health promotion, and more, students explore the vast range of careers in biomedical sciences. They develop not just technical skills, but also in-demand, transportable skills that they need to thrive in life and career.

PLTW Biomedical Science students are taking on these same real-world challenges – and they're doing it before they even graduate from high school. Working with the same tools used by professionals in hospitals and labs, students engage in compelling, hands-on activities and work together to find solutions to problems. Students take from the courses in-demand knowledge and skills they will use in high school and for the rest of their lives, on any career path they take.

Standards:

Principles of Biomedical Sciences is aligned with Arizona Bioscience, Arizona College and Career Ready Standards and/or national standards and supports school-wide efforts to increase student achievement.

Course Objectives:

By the time the student completes this course of study; the student will know or be able to:

- Investigate the interrelatedness of human body systems
- Investigate the serious effects a disease or mutation within one system can have on homeostasis in the body as a whole
- Explore connections between engineering and biomedical sciences are introduced as students explore the design and development of various medical devices
- Develop effective skills in conducting internet research, documenting scientific sources, and summarizing key ideas through oral, written and creative presentations.

In addition to the course objectives listed above, the following AzCCRS are also embedded;

- Standard 7: Integrate and evaluate multiple sources of information presented in different media or formats (e.g., visually, quantitatively) as well as in words in order to address a question or solve a problem.
- Standard 7: Conduct short as well as more sustained research projects to answer a question (including a self-generated question) or solve a problem; narrow or broaden the inquiry when appropriate; synthesize multiple sources on the subject, demonstrating understanding of the subject under investigation.
- Standard 2: Integrate and evaluate information presented in diverse media and formats, including visually, quantitatively, and orally.

Expectations: All students will adhere to the DVUSD Students Rights and Responsibilities Handbook as well as expectations found throughout this syllabus. All students will follow the Respect The Ridge principles: Respect Your Self, Respect The Ridge and Respect Each Other.

Progressive discipline will be followed: student, parent, and referral unless in concerns of safety.

All policies/consequences listed in the Student Rights and Responsibilities Handbook located on [Mountain Ridge High / Homepage](#)

Grading:

The following is a list of areas that each student will perform, in addition to the % that area is worth in the grading process. Grades will be rounded.

Coursework	50% of grade	Grade Scale	A= 100-90
Tests, quizzes	50% of grade		B = 89 – 80
<u>No Extra Credit</u>			C = 79 – 70
			D = 69 - 60
			F = 59 - 0

Assignments – Late Work Policy

Mountain Ridge students have within the current unit of study to turn in assigned work for full credit. However, students will have a minimum of a week to turn in assignments from the assigned due date even if the unit is completed. The unit of study is established by the teacher and the department on campus.

However, the point of assignments/homework/labs and projects are to expose students to content and help them obtain mastery of that content through timely practice so that they are successful on high stakes final exams. Not completing assignments as assigned and submitting them late, hurts the student’s abilities to achieve mastery as they may go into assessments without feedback and practice. Having late work also causes students to have to play "catch up" which causes additional stress on the student.

Assessments:

Assessments (with the exception of final exams) are given twice per assessment. (A total of 2 tries per assessment). A different assessment or corrections that covers the same standards will be provided for the retake in lieu of the initial assessment.

*In order to be able to partake in a re-take of an assessment, a student cannot have missing assignments.

Absence Work Make Up: After an absence, a student has one school day for each day missed to make up work/tests, regardless of the number of days absent. If many days were missed, please schedule an appointment with me to formulate a plan for the completion of make-up work. Make-up work for extended absences (over 3 days) may be requested through the Counseling Office and picked up there.

Report Cards: In an effort to conserve resources and harness the capacity of our electronic grade reporting program (PowerSchool) district schools will no longer print hard copies of report cards unless requested by individual parents. To request a hard copy of your student’s report card, please contact the front office at 623-376-3000. To receive your PowerSchool login, please stop into the office with a valid photo ID.

Power School Online Access: Grades and attendance may be accessed 24 hours a day online with your Power School access code. Access codes are available in the Counseling Office or Front Desk Monday – Friday 7:00 AM– 3:30 PM. You may check student progress regularly on the PowerSchool site using the same login for one or more students. For Mountain Ridge parents/guardians without home computer access, a computer with guest log-in capability is available in the Counseling Conference Room.

Academic Assistance/Office Hours:

In addition to the AcaPrep times built into our schedule each week, additional assistance/tutoring is provided on a weekly basis both by MRHS and individually by instructors. These office hours will be posted in my classroom, website, and/or Canvas at the start of each week. I will demonstrate to the students how to find my availability each week.

Classroom Expectations: In addition to strictly following all MRHS Student Rights and Responsibilities Handbook, I expect the following to occur in my classroom:

1. **Be There** – It is important that you are in class regularly and on time. Not only should you physically be in class but also mentally. Students should take advantage of time with the instructor to pay attention and ask questions as needed.
2. **Choose your attitude** – You have no control over the things that other people do. You only have control over your reactions. Make a conscious effort to have a positive attitude. It is not always easy but if you are aware that only you can control your mood every day can be a great day.
3. **No food or drinks in the classroom** – We might be using substances that may contaminate what you put in your mouth. This is for your own health and safety.
4. **Listen and participate**- A lot of the learning for this class takes place when I am talking with you or you are collaborating in your groups! So, please be sure to truly and actively listen and when appropriate, participate.
5. **Don't procrastinate**-Study what was done in class for 20 minutes (minimum) PER DAY and start any homework as soon as you can after school before you are tired, etc. If you do these things, learning will come more easily for this challenging class you have chosen to undertake!

Daily Device Use (iPads)

Students should come to school with their iPads charged and ready to use in each class every day. Within each classroom teachers will identify for students the expected use during their class period.

Devices may not be used to record or take photos of other people without their consent. Consequences for classroom disruptions and misuse of devices will follow a progressive discipline model, beginning with a phone call home and progressing to office referrals for repeated or more serious offenses. Students who have devices out when not allowed by the teacher, or during testing, may lose credit on their test or quiz. See the Student Rights and Responsibilities consequence chart in the handbook located on the [Mountain Ridge High / Homepage](#) for more specific descriptions of infractions and consequences.

If you are having iPad or technology issues, please send me a Canvas Inbox message as soon as possible.

Recommended Supplies for this Course:

- Composition Notebook
- Pens/pencils/highlighters
- Paper
- School issued iPad-charged daily
- Google drive created with DVUSD academic email
- Paper towels
- Disinfectant wipes

Math/Science Calculator Policy:

Students may use calculators for specific assignments and tests as explained in class. A classroom set of scientific calculators are available for students as needed.

MRHS Laboratory Breakage Policy: The Mountain Ridge Biomedical Science Program has a policy regarding the damage or breakage of laboratory equipment. In the event a student breaks any laboratory materials, that student will be responsible for paying the replacement cost of each item. A complete list of all laboratory materials and their costs are posted in each classroom. The students are taught proper procedures and laboratory etiquette to ensure the safety of our students during lab activities. This policy helps hold the students accountable for their actions and reinforces careful laboratory procedures.

VIDEO PROCEDURES AND CLEARANCE FORM

Grades 8-12

Videos, films and other taped materials rated PG/PG 13 (parental guidance) and non-rated may be viewed at school, but they must be:

- An integral part of the curriculum.
- Approved by administration prior to viewing.
- Approved by parent/guardian
- Each student must have a signed "Student Video Parent/Guardian Form" on file noting permission for each PG or PG13 video.

Project Lead The Way utilizes video of clips embedded in the curriculum to reinforce content for students. All clips are non-rated and apply to the academic content. Please let me know if you have questions

Consent is located below on signature sheet.

Principles of Biomedical Sciences Honors Syllabus Signature Sheet

Please read the syllabus for this course which can be accessed at: <https://www.dvusd.org/Domain/2873>. Select "Principles of Biomedical Sciences Honors Documents" from the left, select the syllabus.

I have read and understand all of the guidelines set forth in the syllabus for this class.

Student Printed Name _____ Period _____

Student Signature _____ Date _____

Parent/Guardian Signature _____ Date _____

Remind for PBS

Remind will be used along with the email distribution list to notify students and parents of important information for the class. Your number will not be available to me.

Messages can be received through text or the Remind App.

To Register for Remind Messages for PBS

Text Number: 81010

Message: @bc9bc7

Email Notifications:

From time to time emails are sent out to parents/students regarding important information. To ensure you receive communication, please verify your email is current Power Schools.

Video Clearance Permission for movies in PLTW PBS Honors Syllabus

Please check the appropriate line, sign below.

Select only 1 option

_____ My student may watch the films listed in the PBS Syllabus online.

_____ I would prefer my student participate in an alternate assignment.

Student Name

Parent/Guardian Signature