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**Phillip O. Berry High School**

**2015-2016 Human Body Systems Course Syllabus**

**“The beauty of PLTW courses is that our kids get to experience how a concept they learned in science applies to a real-world project. In class there are no lectures-kids are exploring the concepts of human medicine, mapping and analyzing DNA, and designing innovative solutions for the health challenges for the 21st century. That is the kind of hands-on experience that will engage more students in fields that they might otherwise never have considered.”**

Instructor: Lee Riley RN BSN PLTW/PBS/HBS/MI Room: 653

PLTW/HBS National Standards Committee Member

CPCC Articulation Medical Committee

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**Text:** Kenneth Kamler, "Surviving the Extremes”: What Happens to the body and Mind at the Limits of Human Endurance.

**Course Description: Human Body Systems**

Students examine the interactions of body systems as they explore identity, communication, power, movement, protection, and homeostasis. Students design experiments, investigate the structures and functions of the human body, and use data acquisition software to monitor body functions such as muscle movement, reflex and voluntary action, and respiration. Exploring science in action, students build organs and tissues on a skeletal manikin, work through interesting real world cases and often play the role of biomedical professionals to solve medical mysteries**.**

**Course Content**

|  |  |
| --- | --- |
| Unit One: Identity  Unit Two: Communication  Unit Three: Power  Unit Four: Movement  Unit Five: Protection  Unit Six: Homeostasis |  |

**Supplies Needed for Class**

1. Minimum 1 box “Mr. Clean Magic Eraser Pads”/Box of Q-tips/Box of plain toothpicks/Zip lock bags
2. Three ring binder, 2”/tab dividers/Small Black & White Composition Notebook
3. Black ink pens

**Course Grading and Evaluation**

Grades will be based on a variety of tests, quizzes, projects, assignments, homework, lab journals and LMS assignments. Your degree of effort and involvement, regardless of whether the assignment is individual or group will be reflected in your grade.

CMS grading is weighted as follows:

**90-100 A**

**80-89 B**

**70-79 C**

**60-69 D**

**Below 60 F**

**Classroom Procedures and Rules**

1. Please be in your seat and silently working on the warm-up when the bell rings.
2. Please raise your hand when you have a question. Wait to be addressed before responding. Do not interrupt others.
3. For your safety, please do not sit on the tables or put your feet on the furniture.
4. Profanity of any kind is disrespectful and not allowed.
5. Eating, drinking and chewing gum are not allowed.
6. Use of electronic devices such as games, IPods or cell phones is not allowed in class.

School policy prohibits charging these items in electrical sockets.

1. Sleeping is not allowed in class (please get plenty of rest each night).
2. Copying answers from your classmates or allowing classmates to copy from you may result in a F. CMS policy calls for immediate action as well as an F for that assignment or test if you are caught cheating.
3. Each student is individually responsible for any missing work, test and classroom assignments.
4. If you are absent you are required to see the teacher the day you return to class for makeup work.

**Consequences: (Breaking classroom rules)**

First time verbal warning

Second time student conference/parent contact

Third time classroom consequence/parent contact and/or conference

Fourth time referral to administrator

The teacher reserves the right to relocate students to ensure a safe and optimal teaching/ learning environment or to refer the student to an administrator if the student is uncooperative.

**Attendance**

Attendance for this class is mandatory. If you are absent you will be allowed 5 school days from the day you return to turn in or make-up any assignments that have been missed.

**Tutoring:** Available on Mondays for 1 hour. Please make an appointment with the teacher. Other times can be arranged.

**When you are** **absent it will be your responsibility to pick up handouts and make up the work/test you missed.**

**Signature below reflects the expected cooperation and commitment to the PLTW-HBS syllabus**

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Print Student Name Student Signature

\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ Date\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

Print Parent Name Parent Signature

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Parent E-mail Address Parent Phone

*“Students, please do not touch any medical equipment without prior permission.”*

**Welcome! I am proud to be your teacher and have you participate in our PLTW/HBS class at Phillip O. Berry Academy of Technology. You and your success are important to me. I hope you enjoy the learning process in this class and leave with a greater understanding of yourself and the human body.**

**Thank you,**

**Lee Riley RN BSN**