Human Anatomy & Physiology
Course Syllabus 2017-2018

Abbreviated Course Title: BIO 251
Credit Hours: 1 high school credit of Advanced Science
Prerequisites: CP Biology or Accelerated Biology taken previously; CP Physical Science; Chemistry or Accelerated Chemistry taken previously or concurrently
Location: Tippecanoe High School - Room 211

Textbook & Supplemental Materials
Course Textbook: Marieb, Elaine N. Essentials of Human Anatomy and Physiology, 10th ed.
Supplemental Materials:
  • Kapit, Wynn and Lawrence M. Elson The Anatomy Coloring Book, 3rd ed.
  • Interactive Physiology Simulations
Supplemental Websites:
  • MasteringA&P Online: www.masteringaandp.com
  • PAL - Practice Anatomy Lab online and iPad
  • Mr. Hoffman’s Teacher Webpage

Instructor Information
Instructor: Mr. Tyler Hoffman
Office: Room 211
Phone: (937) 667-8448 ext. 2704
Email: thoffman@tippcity.k12.oh.us

Course Description
This course is a preliminary investigation into the study of Human Anatomy and Physiology which requires an understanding of the levels of organization and systemic functionality of the human body. A foundation for the course would include the study of cells, tissue types, and an introduction to homeostatic mechanisms. Building on this foundation, the exploration of each organ system will include the structure and function of organs, the processes within the system, and homeostatic imbalances that may occur. These homeostatic imbalances are not designed to be an all-inclusive list, rather an example of topics that may be discussed. Treatment of homeostatic imbalance may also be addressed. This course will put to use the manipulation of models, physiological probes and data collection, cat and other animal organ dissection, video tutorials, and microscopy, along with lecture, to explain how the functions of the human body are directly related to their structure(s) as well as introduce students to the fields of allied health.

Course Outcomes
Knowledge: The student will...
  Demonstrate the ability to recall the structure and function of the cell
  Identify specific cell structures and describe their function
  Identify specific tissue types
  Identify specific skin structures and their functions
  Identify specific bones and their parts and functions
  Identify specific muscles and their functions
Identify specific structures of the brain, eye, ear, and their functions
Utilize the microscope

**Skills:** The student will learn to...
- Dissect preserved specimens and organs
- Identify anatomical organs and structures
- Utilize the computer to perform experiments
- Understand the interconnectedness of anatomy and physiology

**Attitudes and Values:** The student should gain...
- An appreciation for the intricate nature of the human body
- A greater awareness and understanding of the human body

**Assessments:**
Students will be assessed in a variety of formative (hands-on/application-based) and summative (written tests/quizzes) methods. These methods include, but are not limited to, quizzes, tests, labs, dissections, collaborative assignments/projects, presentations and lab practical.

**Technology:**
Students will utilize technology in order to meet the curriculum and course objectives as well as to prepare students for real-world application of human anatomy and physiology. Students will have access to and use school computers, laptops, iPads, and SmartBoards. Students will be expected to access the supplemental websites, including the teacher’s website, in order to track and complete assignments. Students may be required to use technology outside of class in order to complete assignments and prepare for assessments, which can be completed at home, the local library, or the school library. Students should be comfortable using Microsoft Office including Word and PowerPoint, Google Chrome and/or another web browser, INFOhio research databases and other technologies that are appropriate and applicable to assignments as they are made available.

**Additional Competencies:**
Students need to be able to and make time to work independently on assignments as they will be expected to complete much of the assigned readings and writings outside of class. Classroom time will be devoted to introduction of material, discussion of assignments, clarification of concepts, assessments, and presentation of projects.

**Student Assignments**

**Graded Assessments:**
- **Exam**
  - Final Exam will count for 10% of the semester grade
- **Chapter Tests:**
  - Students will be assessed following the completion of each chapter.
- **Quizzes**
  - Periodic in-class quizzes will be assigned to check student progress and understanding.
  - Students may be assigned online quizzes through the [www.masteringaandp.com](http://www.masteringaandp.com) website.
- **Labs**
  - Lab Exercise assignments will be given for most chapters.
  - Some labs will be completed on the computer, some in class, and some with the use of handheld LabQuests; and will therefore require students to complete the portions of the lab exercise assignment ahead of time.
Homework
• Homework is given often and for the purpose of:
  - Introduction to new material
  - Review of current material
  - Preparation for quizzes & tests
  - Checks for understanding and pacing
• Homework assigned may or may not be checked for completion.

Grading Scale:
90-100% A
80-89%  B
70-79%  C
60-69%  D
0-59%   F

Course Outline

First Quarter:
  Chapter 1 - The Human Body: An Orientation
  Chapter 3 - Cells and Tissues
  Chapter 4 - Skin and Body Membranes
  Chapter 5 – Skeletal System Part One & Part Two

Second Quarter:
  Chapter 6 - The Muscular System Part One & Part Two
  Chapter 7 - The Nervous System
  Chapter 8 - Special Senses
  Chapter 9 – The Endocrine System

Third Quarter:
  Chapter 10 – Blood
  Chapter 11 – Cardiovascular System
  Chapter 13 – The Respiratory System

Fourth Quarter:
  Chapter 14 – The Digestive System
  Chapter 15 – The Urinary System
  Cat Dissection

Behavior Expectations:
Mature, respectful, adult behavior is expected at all times in the classroom and during labs. Inappropriate behavior could result in warnings, parent contact, an office referrals, and/or removal from the classroom/lab. Students should refer to their student handbook to reference school dress code, technology policies, and other school rules and regulations. Students will be held to these school policies and expectations in the classroom and lab.
Class Attendance:
It is expected that students will attend all classes. The learning activities, lectures, and experiences are difficult or are not able to be replicated. Attendance has a direct impact on meeting the course outcomes and objectives; therefore, students should attempt to have a few absences as possible. If a student should need to be absent, it is the direct responsibility of the student to contact the teacher as soon as possible (email is preferred) to arrange the make-up work. Students are expected to access the class website, complete online assignments, and complete in-class make-up work within the number of allotted days, based on the number of days absent (see student handbook for details).

Class Participation:
This course will require students to work with partners and small groups, take part in small group and whole class discussions, perform and participate in lab activities, take class notes, etc. in order to meet learning objectives. It is expected that students will participate actively in all class session in a manner that shows prior preparation through readings and other assignments.

Academic Integrity:
Students are expected to turn in original work at all times for all assignments, projects, tests, and labs. Plagiarism and/or copying, in any form, will result in a zero for the assignment. It is the student’s responsibility to have a working knowledge of what constitutes plagiarism and academic dishonesty and to seek assistance when needed in order to avoid any/all forms of plagiarism. When applicable, students will use Turnitin.com. Students should refer to the student handbook in regards to school policy for academic integrity.

Educational Support Services for Students:
It is the responsibility of the student to seek help as needed. Students may “stop in” to ask quick questions or get reinforcements before/after class, in between classes, at lunch, etc. While a same-day response cannot be guaranteed, Mr. Hoffman is also available to answer emails outside of school hours, so students may email questions or concerns to thoffman@tippcity.k12.oh.us. If students would like to seek help outside of the classroom, they should speak to their guidance counselor for information regarding tutor availability. Students also have access to the online tutor that correlates with our textbook, which can be accessed through our textbook website.

Electronic Devices (Cell phones, iPods, iPads, tablets, MP3 players, eReaders, headphones, etc.):
School cell phone/devices policy will apply in the classroom at all times. Cell phones and other devices must remain off while in the classroom unless students have been given permission directly to use them for educational purposes. There will be times when Mr. Hoffman will notify students ahead of time when they can bring in their own devices to use in class when applicable. Mr. Hoffman is not responsible for any damaged, lost, or stolen devices that students choose to bring in.
Student/Parent Syllabus Contract

Student Name: __________________________________________ Per. ________

Student Email: __________________________________________

I have read the syllabus and fully understand all aspects of the course as well as the expectations held by participating in this course.

Student Signature: ______________________________________

Parent/Guardian Name #1: _________________________________

Email #1: _____________________________________________

Phone #1: _____________________________________________

Parent/Guardian Name #2: _________________________________

Email #2: _____________________________________________

Phone #2: _____________________________________________

I have read the syllabus and fully understand all aspects of the course as well as the expectations my child will be held to by participating in this course.

Parent Signature: ______________________________________