

## **Dual Credit Anatomy 2301/2302**

First Semester 2301 Anatomy I - Lecture Credit (3 college hours): Anatomy and Physiology I is the first part of a two course sequence. It is a study of the structure and function of the human body including cells, tissues and organs of the following systems: integumentary, skeletal, muscular, nervous and special senses. Emphasis is on interrelationships among systems and regulation of physiological functions involved in maintaining homeostasis.

Second Semester 2302 Anatomy II - Lecture Credit (3 college hours) Anatomy and Physiology II is the second part of a two-course sequence. It is a study of the structure and function of the human body including the following systems: endocrine, cardiovascular, immune, lymphatic, respiratory, digestive (including nutrition), urinary (including fluid and electrolyte balance), and reproductive (including human development and genetics). Emphasis is on interrelationships among systems and regulation of physiological functions involved in maintaining homeostasis.

**Who should take this course:** Students who are interested in careers in healthcare should take this course. A&P is the foundational class for health careers and is a challenging and rigorous course that will fully prepare students for a healthcare related career path. This is a great course to take in high school because students will have more support seeing their instructor everyday and get hands-on learning through lab work, models, and microscopy. In order to be successful in this course students can expect to spend 2-4 hrs a week outside of class studying. Class time will be spent on chapter lectures, lab investigations including dissections, microscope work identifying histological tissues, and learning anatomy on models. At home students will be expected to complete chapter homework/quizzes, read chapters, complete some video lectures, if needed rewrite notes, and work through study materials in the online textbook. A&P is a very challenging course in college, national passing rates are between 50-60% while taking it in a high school setting the passing is over 90%. Taking this class will give students a solid foundation for success now and in the future, if they choose to retake it again in college.

## **Dual Credit Biology Non-Science Majors 1308/1309**

First Semester 1308/1108 College Credits: 4 (3 lecture + 1 lab). Provides a survey of biological principles with an emphasis on humans, including chemistry of life, cells, structure, function, DNA and genetics.

Second semester 1309/1109 College Credits: 4 (3 lecture + 1 lab) This course will provide a survey of biological principles with an emphasis on humans, including evolution, ecology, plant and animal diversity, and physiology.

**Who should take this course:** Students who plan to major in humanities, business, fine arts, social sciences, political sciences, english, and history majors. This class will fulfill the science credit for most non-science degrees. This course is a lab based course that covers the same topics covered in 9th grade biology but in more detail. In class students will learn through lecture, interactive labs, dissections, microscope work, group activities. At home students will be expected to complete online chapter quizzes, pre/post lab assignments, and interactive studying in the online textbook. Students can expect to spend 1-2 hrs a week studying to be successful in this course. This class has a very high success rate as the coursework is very manageable for non-science focused careers.