

**Human Anatomy and Physiology**  
**Proviso Mathematics and Science Academy**

**Instructor: Dr. Wardisiani**

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**Office Hours by Appointment**

**Class Web Sites: [Wardisiani-FS.com](http://Wardisiani-FS.com)**

**Course Description:**

Anatomy and Physiology is the study of the structure and function of the human body. This course is taught on an advanced level and is geared to prepare the student for a rigorous, competitive learning environment. This course focuses on the major body systems and intertwines human anatomical structure with physiological principles that enable the body to maintain homeostasis. A heavy emphasis is placed on medical terminology and clinical applications. This course also includes basic chemistry, biochemistry, microbiology, and some physics principles. Dissections, anatomical and physiological labs, independent and group projects, and guest speakers that correlate with the major body systems will be integrated throughout the course.

**LEARNING OUTCOMES:**

- Upon completion of this course, the student will demonstrate basic knowledge in the following:
  - a. General body organization and anatomical terminology.
  - b. Tissue types.
  - c. Integumentary system.
  - d. Anatomical and physiological characteristics of the skeletal system.
  - e. Bioelectrical events of membrane potentials.
  - f. Anatomy and physiology of muscle and muscle contraction.
  - g. Anatomy and physiology of the central and peripheral nervous systems.
  - h. Functions of the autonomic nervous system.
  - i. Reflexes and central motor mechanisms.
  - j. Anatomy and physiology of sensory processes.

**Assessment Method:**

**Abstracts Participation**

**Attendance Peer Evaluation**

**Bell-Ringer / Exit Slips**

**Capstone Project Portfolio**

**Case Study Portfolio Lab Performance**

**Exams Presentations**

**Group Projects Professional Evaluation**

**Homework Assignments Quizzes**

**Internet Research project**

**Journaling Lab Performance**

**Oral/written review of literature**

**Other:**

**Grading Scale/Distribution:**

**A = 90%, B = 80-89%, C = 70-79%, D = 60-69%, F = 59% or less**

**Examinations: There are four exams. The first three are focused on the material since the last examination, but the final examination is cumulative.**

#### **General Policies**

- **Student e-mail Etiquette: All email correspondence to the instructor will be conducted in a professional manner.**
- **Address the recipient appropriately, using proper spelling, grammar, and punctuation,**
- **Close with your full name, day of week and time of class you meet (Example: Bob Smith, 12:20pm to 1:45pm)**
- **Name file attachments by including the course and number, student last name, and**

#### **Academic Honesty:**

**To foster a climate of trust and high standards of academic achievement, The PMSA Science and Mathematics Departments are committed to cultivating academic integrity and expects students to exhibit the highest standards of honor in their scholastic endeavors. Academic integrity is essential to the success of PMSA's mission. As members of the academic community, our foremost interest is toward achieving noble educational goals and our foremost responsibility is to ensure that academic honesty prevails. Any instance of plagiarism, cheating, dishonesty or the facilitation thereof will result in a grade of 0 (zero points) for the assignment. Second offenses will be reported to the Department Head, Principal and students will fail the course (grade of F). Please refer to the PMSA student guide for academic integrity.**

#### **Attendance:**

**Students are expected to be present for every meeting of the classes in which they are enrolled. Only the instructor can excuse a student from a course requirement or responsibility. When conflicts or absences can be anticipated, the student should inform the instructor of the situation as far in advance as possible. For unanticipated or emergency absences when advance notification to an instructor is not possible, the student should contact the instructor as soon as possible by email, or by contacting the main office.**