

**Xatomy Prep Course**  
**Human Anatomy & Physiology I & II Syllabus**  
*(This course is NOT for college credit)*

**Professor: Daniel Howell, Ph.D.**  
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**I. Course Description:**

A study of the structures and function of the human body beginning with foundational material on anatomical terminology, cells, and tissues, and then proceeding to an exploration of the following systems: integumentary system, skeletal system, muscular system, and nervous system. Anatomical structures and concepts in physiology, including the maintenance of homeostasis, will be discussed. Not transferable for college credit.

**II. Rationale:**

*Human Anatomy & Physiology* is foundational for virtually all health-related college majors, including nursing, athletic training, kinesiology, premed and more. The course is designed to prepare students for college-level courses in human anatomy and physiology. This course has been crafted in accordance with the standards set forth by the *Human Anatomy & Physiology Society (HAPS) Curriculum & Instruction Committee*.

**III. Materials:**

- Xatomy 1 covers first semester A&P
- Xatomy 2 covers second semester A&P

**IV. Learning Outcomes:**

*Upon successful completion of the Xatomy 1 course, the student will be able to*

1. Define homeostasis and describe how homeostasis is maintained in the body.
2. Identify the various organelles in human cells and what they do.
3. Identify the various tissue types in the human body and where they are found.
4. Describe the structure of skin and its accessory structures.
5. Identify the major muscles in the body and describe how muscle contractions works.
6. Identify the bones of the body.
7. Identify the major organs of the nervous system and basic function of the nervous system.
8. Describe how hearing and vision occur in the ear and eye, respectively.

*Upon successful completion of the Xatomy 2 course, the student will be able to*

1. Identify the major organs of the endocrine system and describe their functions.
2. Identify the major organs of the cardiovascular system and describe their functions.
3. Identify the major organs of the lymphatic system and describe their functions.
4. Identify the major organs of the respiratory system and describe their functions.
5. Identify the major organs of the digestive system and describe their functions.
6. Identify the major organs of the urinary system and describe their functions.
7. Identify the major organs of the reproductive system and describe their functions.

**V. Assignments / Expectations:**

The student is expected to read the assigned chapters in Xatomy.com and complete all assignments. No grades are given, but feedback from the professor can be obtained via Zoom question and answer periods.

**VI. Attendance & Participation Policies:**

This course may be completed as a self-guided experience, or the student may join Zoom lectures according to the schedule in the Course Calendar below.

**VII. Fall 2022 Course Calendar**

<b>Week</b>	<b>Lecture Date</b>	<b>Xatomy 1 Topics</b>
1	Mon xxx Wed xxx Fri xxx	Anatomical Terminology Cells Tissues
2	Mon xxx Wed xxx Fri xxx	Integumentary System Skeletal System Articulations
3	Mon xxx Wed xxx Fri xxx	Muscle Physiology 1 Muscle Physiology 2 Brain & Cranial Nerves
4	Mon xxx Wed xxx Fri xxx	Spinal Cord & Spinal Nerves General Senses Special Senses (Ear & Eye)
<b>Week</b>	<b>Lecture Date</b>	<b>Xatomy 2 Topics</b>
5	Mon xxx Wed xxx Fri xxx	Endocrine System Blood Heart
6	Mon xxx Wed xxx Fri xxx	Blood Vessels Lymphatic System Respiratory System
7	Mon xxx Wed xxx Fri xxx	Digestive System 1 Digestive System 2
8	Mon xxx Wed xxx Fri xxx	Urinary System Reproductive System (Male) Reproductive System (Female)