

## BIOL1170 - Essentials of Human Anatomy and Physiology

Credits:	4 (4/0/0)
Description:	Meets MnTC Goal Area 3. This course introduces students to the structure and function of the human body using an organ system approach. Beginning with the levels of biological organization, study will proceed through the following organ systems: integumentary, skeletal, muscular, nervous, sensory, endocrine, cardiovascular, lymphatic and immune, respiratory, digestive, urinary, and reproductive systems. This course is open to all students desiring a greater understanding of human anatomy and physiology; however, it is specifically designed for students pursuing health care-related programs such as Pharmacy Technology and Massage Therapy. This course contains a lab-like component.
Prerequisites:	Successful completion of or assessment into ENGL 1101.
Corequisites:	
Pre/Corequisites <sup>*</sup> :	



Competencies:	<ol> <li>Apply descriptive anatomical and directional terminology to the human body.</li> <li>Explain the levels of organization in the body.</li> <li>Describe principles involved with homeostasis to include positive and negative feedback.</li> <li>Use the scientific method to form and evaluate a hypothesis.</li> <li>Identify the functions of major classes of biomolecules in the human body.</li> <li>Describe the structure and function of major cellular organelles.</li> <li>Describe how cells transport substances across cellular membranes.</li> <li>Summarize the four basic tissue types within the body, their locations, principle characteristics and functions.</li> <li>Apply the concepts of homeostasis and interactions between human organ systems.</li> <li>Identify the components of the integumentary system and describe their functions.</li> <li>Identify the components of the skeletal system and describe their functions.</li> <li>Identify the components of the nervous system and describe their functions.</li> <li>Identify the components of the nervous system and describe their functions.</li> <li>Identify the components of the muscular system and describe their functions.</li> <li>Identify the structures of the heart and describe their functions.</li> <li>Identify the structures of the heart and describe their functions.</li> <li>Identify the structures of the heart and describe their basic interrelated functions.</li> <li>Identify the components of the digestive system and describe their functions.</li> <li>Identify the components of the digestive system and describe their functions.</li> <li>Identify the components of the digestive system and describe their functions.</li> <li>Identify the components of the digestive system and describe their functions.</li> <li>Identify the components of the digestive system and describe their functions.</li> <li>Identify the components of the digestive system and describe their functio</li></ol>
MnTC goal areas:	3. Natural Sciences

\*Can be taking as a Prerequisite or Corequisite.