

Human Anatomy and Physiology Curriculum, Black River Falls High School  
Hole's Essentials of Human Anatomy and Physiology, Ninth Edition  
Junior and Senior Elective Class - One Term  
Gretchen Sierk July 2005

Week	Unit	Concepts	Textbook Pages	Activities	Assessment	WMAS
1	Introduction to Human Anatomy & Physiology	*Anatomy and Physiology *Levels of Organization *Characteristics of Life *Maintenance of Life *Organization of the human body *Anatomical Terminology	Chapter 1 (pages 1-29)	-Independent Reading -Lecture Notes -Labs: label Silent Bob	- Test 1 - Check Your Recall Questions from Ch. 1	<i>Science</i> G.12.1
2	Tissues	*Epithelial, connective, muscle, and nervous tissue *Types of membranes	Chapter 5 (pages 91-111)	-Independent Reading -Lecture Notes	- Test 1	<i>Science</i> F.12.1
	Integumentary System	*Skin and its tissues *Accessory organs of the skin *Regulation of body temperature *Healing of wounds	Chapter 6 (pages 112-124)	-Independent Reading -Lecture Notes -Labs: Epidermal Tissue -Video: Body Atlas -Worksheets: Label and Color diagrams	- Test 1 - Review Exercises. Pg 124. #1-17 - Critical Thinking. Pg 124. #1-2, 4	<i>Science</i> F.12.1
3	Skeletal System	*Bone structure *Bone development and growth *Bone function *Skeletal Organization *Joints	Chapter 7 (pages 125-133;154-164)	-Independent Reading -Lecture Notes -Labs: Identify bones on X-rays; label Silent Bob, Joint lab -Worksheets: Label and	- Test 2 - Review Exercises. Pg 163. Part A; Pg 164. Part C - Critical Thinking. Pg 164. #1-4	<i>Science</i> F.12.1 F.12.2

				Color diagrams -Video: Broken Bone		
4	Muscular System	*Structure of a skeletal muscle *Skeletal muscle contraction *Muscular responses *Smooth muscle *Cardiac muscle *Major skeletal muscles	Chapter 8 (pages 168-201)	-Independent Reading -Lecture Notes -Labs: How do your muscles work? -Worksheets: Label and Color diagrams -Video: Body Atlas: Skeletal/Muscular	- Test 2 - Review Exercises. Pg 200. #1-8, 10-15, 21-24 - Critical Thinking. Pg 201. #1-7	<i>Science</i> F.12.1 F.12.2
5	Dissection  Circulatory System	*Identify tissues, bone, and muscle structure of deer limb  *Blood and blood cells *Blood plasma *Hemostasis *Blood groups and transfusion	Chapter 12 (pages 302-322)	-Independent Reading -Lecture Notes -Create outline notes of 12.1-12.5 -Labs: Who-dunnit? -Worksheets: Label and Color diagrams	- Test 3 - Review Exercises. Pg 322. #1-6, 10,11,20,21,26-29 - Critical Thinking. Pg 322. #1-8	<i>Science</i> A.12.5 F.12.1 F.12.2 H.12.6
6	Circulatory System	*Structure of the heart *Heart actions *Blood vessels *Blood Pressure *Paths of Circulation *Arterial System *Venous System	Chapter 13 (pages 323-359)	-Independent Reading - Create outline notes of Ch. 13.1-13.5 -Lecture Notes -Labs: Heart dissection, blood pressure, lab #40 -Worksheets: Label and Color diagram -Video: Heart Attack, The human pump	- Test 3 - Review Exercises. Pg 359. #1-4, 6-11, 17, 23, 25 - Critical Thinking. Pg 359. #1-8.	<i>Science</i> H.12.6

7	Research Project	<ul style="list-style-type: none"> <li>*Abstract</li> <li>*Introduction (background information research)</li> <li>*Research techniques</li> <li>*Methods of collecting data</li> <li>*Control vs experimental groups</li> <li>*Material lists</li> <li>*Citing sources</li> <li>*Technical writing skills</li> <li>*Reporting results</li> <li>*Analyzing data</li> </ul>		<ul style="list-style-type: none"> <li>-Lecture Notes</li> <li>-Computer lab research time</li> <li>-Research on own time at home</li> <li>-Video: Air Jaws II</li> </ul>	<ul style="list-style-type: none"> <li>-Rough draft sections A-D</li> <li>-Rough draft sections A-H</li> <li>-Final Research Paper</li> </ul>	<p><i>Science</i></p> <ul style="list-style-type: none"> <li>B.12.4</li> <li>C.12.1</li> <li>C.12.2</li> <li>C.12.4</li> <li>C.12.7</li> <li>H.12.6</li> </ul> <p><i>English</i></p> <ul style="list-style-type: none"> <li>A.12.1</li> <li>A.12.4</li> <li>B.12.1</li> <li>B.12.2</li> <li>B.12.3</li> <li>E.12.1</li> <li>F.12.1</li> </ul>
8	Nervous System	<ul style="list-style-type: none"> <li>*General functions of the nervous system</li> <li>*Neuroglial cells</li> <li>*Neurons</li> <li>*Cell membrane potential</li> <li>*The Synapse</li> <li>*Types of Nerves</li> <li>*Meninges</li> <li>*Spinal cord</li> <li>*Brain</li> <li>*Peripheral nervous system</li> <li>*Autonomic nervous system</li> <li>*Sensory Organs</li> </ul>	Chapter 9 (pages 202-247)	<ul style="list-style-type: none"> <li>-Independent Reading</li> <li>-Lecture Notes</li> <li>-Labs: Sheep Eye dissection</li> <li>-Worksheets: Label and Color diagrams</li> <li>-Video: Body Altas</li> </ul>	<ul style="list-style-type: none"> <li>- Test 4</li> <li>- Review Exercises. Pg 246. #1-4, 7-19, 22-26, 28, 47</li> <li>- Critical Thinking. Pg 247. #1-2, 8</li> </ul>	<p><i>Science</i></p> <ul style="list-style-type: none"> <li>F.12.1</li> <li>F.12.2</li> <li>F.12.12</li> </ul>

9	Digestive System	<ul style="list-style-type: none"> <li>*General characteristics of the alimentary canal</li> <li>*Mouth</li> <li>*Salivary Glands</li> <li>*Pharynx and esophagus</li> <li>*Stomach</li> <li>*Pancreas</li> <li>*Liver</li> <li>*Small Intestine</li> <li>*Large Intestine</li> </ul>	Chapter 15 (pages 385-412)	<ul style="list-style-type: none"> <li>-Independent Reading</li> <li>-Lecture Notes</li> <li>-Labs: none</li> <li>-Worksheets: Label and Color diagrams</li> <li>-Video: Body Atlas Digestion</li> </ul>	<ul style="list-style-type: none"> <li>- Test 5</li> <li>- Review Exercises. Pg 426. #1-2, 4-6, 9, 11-17, 19-37</li> <li>- Critical Thinking. Pg 427. #1, 5-6</li> </ul>	<i>Science</i> F.12.1 F.12.2
10	Urinary System	<ul style="list-style-type: none"> <li>*Kidneys</li> <li>*Urine Formation</li> <li>*Urine Elimination</li> </ul>	Chapter 17 (pages 453-473)	<ul style="list-style-type: none"> <li>-Independent Reading</li> <li>-Lecture Notes</li> <li>-Labs: none</li> <li>-Worksheets: Label and Color diagrams</li> </ul>	<ul style="list-style-type: none"> <li>- Test 6</li> <li>- Review Exercises. Pg 472. #1-11, 13-27</li> <li>- Critical Thinking. Pg 473. #1-9</li> </ul>	<i>Science</i> F.12.1