



**SCIENCE 550** **WEEK 1—MODULE 1** **SCHEDULE**

Date:	Day 1 <sup>1</sup>	Day 2 <sup>2</sup>	Day 3 <sup>3</sup>	Day 4 <sup>4</sup>	Day 5 <sup>5</sup>
<b>The Human Body (2nd Edition)</b>	pp. 3–8	pp. 9–13	pp. 13–17	pp. 17–18	pp. 19–23
<b>Multimedia Companion CD</b>					Related to Figure 1.5
<b>On Your Own</b>	1.1–1.2	1.3–1.6	1.7–1.8		1.9–1.10
<b>The Anatomy Coloring Book (Kaplan)</b>	Exercise 1.1–1.2 pp. 9–13, 5		Exercise 1.3 p. 21 a–p		
<b>Vocabulary<sup>1</sup></b>	<input type="checkbox"/>	<input type="checkbox"/>			

**Other Notes**

**Note:** This updated schedule is to be used with the 2nd Edition of the textbook, *The Human Body: Advanced Biology* and *Anatomy Coloring Book* Fourth Edition by Kaplan. It is not for the CD-ROM edition.

End your reading at the purple section break on each page, unless otherwise noted in the schedule. If there is no purple header, read the entire page.

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1. Define vocabulary terms and names found in each day's reading, then place a check in the box.

**Vocabulary** | Terms and Important Facts

Introduction

**Gross anatomy:** The study of the macroscopic structures of an organism. [p. 4]

**Microscopic anatomy:** The study of the microscopic structures of an organism. [p. 4]

**Physiology:** The study of the functions of an organism and its parts. [p. 3]

Organizational Levels of the Human Body

**Organ:** A group of tissues specialized for a particular function. [p. 7]

**Tissues:** Groups of cells specialized for a particular function. [p. 7]

Homeostasis

**Homeostasis:** A state of equilibrium in the body with respect to its functions, chemical levels, and tissues. [p. 9]

Control of Homeostasis: Feedback Systems

**Effector:** A structure in the body that can change the value of a variable. [p. 11] ■



**SCIENCE 550** **WEEK 2—MODULE 1** **SCHEDULE**

Date:	Day 1 <sup>6</sup>	Day 2 <sup>7</sup>	Day 3 <sup>8</sup>	Day 4 <sup>9</sup>	Day 5 <sup>10</sup>
<b>The Human Body (2nd Edition)</b>	pp. 23–26	pp. 27–31	Study Guide Questions pp. 34–35 #1(a–h); 2–11; Review	Study Guide Questions pp. 34–35 #1(i–k); 12–21; Review	Module 1 Test
<b>Multimedia Companion CD</b>		Related to Figure 1.9			
<b>On Your Own</b>	1.13	1.14–1.15			
<b>The Anatomy Coloring Book (Kaplan)</b>		Exercise 1.4 p. 21 q–w			
<b>Vocabulary</b>	<input type="checkbox"/>	<input type="checkbox"/>			

**Shopping/Planning List<sup>1</sup>** **For next week:**  
**We Provide:** Prepared slides: (Human lung, Human stomach, Human skin (not one with follicles) and Human salivary gland.

**Other Notes**

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1. When supplies are listed as “**We provide:**” they are materials found in either your **Advanced Biology Microscopy Slide Set (550–15)**, the **Advanced Biology Dissection Animals & Tray (550–16)**, or the **Non-Consumable Supplies Kit (NSK)**. When supplies are listed as “**You provide:**” they are materials you can generally find around your home.

**Vocabulary** | Terms and Important Facts

Functions of the Plasma Membrane

**Selective permeability:** The ability to let certain materials in or out while restricting others. [p. 23]

Membrane Transport Process

**Endocytosis:** The process by which large molecules are taken into the cell. [p. 28]

**Exocytosis:** Transportation of material from inside the cell to outside the cell. [p. 29] ■



**SCIENCE 550** **WEEK 3—MODULE 2** **SCHEDULE**

Date:	Day 1 <sup>11</sup>	Day 2 <sup>12</sup>	Day 3 <sup>13</sup>	Day 4 <sup>14</sup>	Day 5 <sup>15</sup>
<b>The Human Body (2nd Edition)</b>	pp. 36–40	pp. 41–44	pp. 44–47 (Experiment 2.1)	pp. 44–52 (skip Experiment 2.1)	pp. 52–57
<b>Multimedia Companion CD</b>		Related to Figure 2.5		Three related to Figure 2.8	
<b>On Your Own</b>	2.1–2.2	2.3–2.4 (on p. 47)		2.5–2.6	2.7
<b>Experiments</b>			Microscope 2.1	Microscope 2.2	
<b>The Anatomy Coloring Book (Kaplan)</b>	Exercise 2.1 p. 23 a–c	Exercise 2.2–2.3 p. 25 a–b, p. 23 d–h		Exercise 2.4 p. 27 a–g	Exercise 2.5 p. 29–31
<b>Vocabulary</b>	☐			☐	☐
<b>Supplies</b>	<b>We Provide:</b> Prepared slides: Human lung, Human stomach, Human skin (not one with follicles) and Human salivary gland.				

**Other Notes**

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**Vocabulary** | Terms and Important Facts

Introduction

**Histology:** The study of tissues. [p. 36]

Granular Epithelium

**Exocrine glands:** Glands that secrete substances outward through a duct. [p. 44]

**Endocrine glands:** Ductless glands that secrete hormones into the bloodstream. [p. 44]

**Merocrine glands:** Exocrine glands that secrete without losing cellular material. [p. 48]

**Apocrine glands:** Exocrine glands that have cytoplasm in their secretions. [p. 48]

**Holocrine glands:** Exocrine glands whose secretions are made up of disintegrated cells. [p. 48]

Connective Tissue

**Extracellular matrix:** The chemical substances located between connective tissue cells. [p. 52]

Connective Tissue Proper

**Fibroblasts:** Spindle-shaped cells that form connective tissue proper. [p. 54] ■



SCIENCE 550 WEEK 4—MODULE 2 SCHEDULE

Date:	Day 1 <sup>16</sup>	Day 2 <sup>17</sup>	Day 3 <sup>18</sup>	Day 4 <sup>19</sup>	Day 5 <sup>20</sup>
<b>The Human Body (2nd Edition)</b>	pp. 57–60 (middle)	pp. 60–64	Study Guide Questions pp. 66–67 #1(a–g); 2–10; Review	Study Guide Questions pp. 66–67 #1(h–m); 11–15; Review	Module 2 Test
<b>On Your Own</b>	2.8	2.9–2.10			
<b>The Anatomy Coloring Book (Kaplan)</b>	Exercise 2.6 p. 33 a–g				
<b>Vocabulary</b>	☐	☐			
<b>Shopping/Planning List</b>	<b>For next week:</b> <b>We Provide:</b> Prepared slides: Human skin without follicles, Human skin with follicles. <b>You Provide:</b> colored pencils.				

**Other Notes**

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**Vocabulary** | Terms and Important Facts

Cartilage

**Chondrocytes:** Mature cartilage cells. [p. 57]

Tissue Repair

**Stromal cells:** Cells that provide structure or support for parenchymal cells. [p. 62]

**Parenchymal cells:** Cells that provide the actual function of the tissue. [p. 62]

**Labile cells:** Cells that undergo mitosis regularly and quickly. [p. 63]

**Stable cells:** Cells that do not regularly undergo mitosis but are able to if the need arises. [p. 63]

**Permanent cells:** Cells that cannot undergo mitosis. [p. 63] ■