

**Essentials of Human Anatomy and Physiology,
8th Edition © 2006, (Marieb)**

Correlated to:

**Alabama Science Standards for
Anatomy and Physiology Science Core
(Grades 9-12)**

ALABAMA SCIENCE STANDARDS ANATOMY AND PHYSIOLOGY SCIENCE CORE	PAGE(S) WHERE TAUGHT (If submission is not a text, cite appropriate resource(s))
1. Use appropriate anatomical terminology. Examples: proximal, superficial, medial, supine, superior, inferior, anterior, posterior	SE: 11-14, 16-19 TE: 1, 59-60 TR: Lab Exercise 1: 1-3; Review Sheet: 241 TECH: Instructors Resource CD-ROM: Chapter 1
2. Identify anatomical body planes, body cavities, and abdominopelvic regions of the human body.	SE: 16-21 TE: 60 TR: Lab Exercise 1: 4-6; Review Sheet: 242 TECH: Instructors Resource CD-ROM: Chapter 1
3. Classify major types of cells, including squamous, cuboidal, columnar, simple, and stratified.	SE: 2-3, 71-72, 100-101 TE: 10-11, 69, 72 TR: Lab Exercise 5: 27-40; Review Sheet: 251-252; Histology Atlas TECH: Instructors Resource CD-ROM: Chapter 3
4. Classify tissues as connective, muscular, nervous, or epithelial.	SE: 2-3, 85-89 TE: 10, 70-71, 73-74 TR: Lab Exercise 5: 32-40; Review Sheet: 252-256; Histology Atlas TECH: Instructors Resource CD-ROM: Chapter 3
5. Identify anatomical structures and functions of the integumentary system.	SE: 3-5, 108-114, 116 TE: 12-13, 75-77 TR: Lab Exercise 6: 41-45; Review Sheet: 257-259 TECH: Instructors Resource CD-ROM: Chapter 4
<ul style="list-style-type: none"> • Identifying accessory organs 	SE: 116-120 TE: 77-78 TR: Lab Exercise 6: 45-48; Review Sheet: 259-260 TECH: Instructors Resource CD-ROM: Chapter 4
<ul style="list-style-type: none"> • Recognizing diseases and disorders of the integumentary system <ul style="list-style-type: none"> ○ Examples: decubitus ulcer, melanoma, psoriasis 	SE: 115, 120-124 TECH: Instructors Resource CD-ROM: Chapter 4
6. Identify bones that compose the skeletal system.	SE: 139-160 TE: 14-18, 83-94 TR: Lab Exercise 7: 49-50 TECH: Instructors Resource CD-ROM: Chapter 5

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<ul style="list-style-type: none"> • Identifying functions of the skeletal system 	SE: 4-5, 130-131, 171 TR: Lab Exercise 7: 49-50; Review Sheet: 265-276 TECH: Instructors Resource CD-ROM: Chapter 5
<ul style="list-style-type: none"> • Identifying subdivisions of the skeleton as axial and appendicular skeletons 	SE: 139-160 TE: 14-18, 83-94 TR: Lab Exercise 8 & 9: 55-75; Review Sheet: 14-18, 83-94 TECH: Instructors Resource CD-ROM: Chapter 5
<ul style="list-style-type: none"> • Classifying types of joints according to their movement 	SE: 163-167 TE: 19-20, 95-98 TR: Lab Exercise 10: 77-82; Review Sheet: 277-280 TECH: Instructors Resource CD-ROM: Chapter 5
<ul style="list-style-type: none"> • Identifying the four bone types 	SE: 131-133 TE: 79-81 TR: Lab Exercise 7: 49-54; Review Sheet: 261-263 TECH: Instructors Resource CD-ROM: Chapter 5
<ul style="list-style-type: none"> • Identifying various types of skeletal system disorders <ul style="list-style-type: none"> ○ Examples: fractures, arthritis 	SE: 134-139, 146-147, 149, 161-162, 165, 167-170 TECH: Instructors Resource CD-ROM: Chapter 5
7. Identify major muscles, including origins, insertions, and actions.	SE: 4-5, 192-213 TE: 21-23, 103-107 TR: Lab Exercise 11: 88; Lab Exercise 12: 89-102; Review Sheet: 285-289 TECH: Instructors Resource CD-ROM: Chapter 6: Essentials of IP CD-ROM: Muscular
<ul style="list-style-type: none"> • Describing common types of body movements, including flexion, extension, abduction, and adduction 	SE: 192-196 TECH: Instructors Resource CD-ROM: Chapter 6
<ul style="list-style-type: none"> • Classifying muscles based on functions in the body, including prime movers, antagonists, synergists, and fixators 	SE: 196 TR: Lab Exercise 11: 88 TECH: Instructors Resource CD-ROM: Chapter 6
<ul style="list-style-type: none"> • Comparing skeletal, smooth, and cardiac muscles based on their microscopic anatomy 	SE: 178-184 TE: 99-101 TR: Lab Exercise 11: 83-88; Review Sheet: 281-283 TECH: Instructors Resource CD-ROM: Chapter 6

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<ul style="list-style-type: none"> • Identifying diseases and disorders of the muscular system <ul style="list-style-type: none"> ○ Examples: muscular dystrophy, multiple sclerosis, strain 	SE: 197, 214 TECH: Instructors Resource CD-ROM: Chapter 6
8. Identify structures of the nervous system.	SE: 222-235 TE: 24-29, 109-112 TR: Lab Exercise 14 & 15: 111-136; Review Sheet: 295-299 TECH: Instructors Resource CD-ROM: Chapter 7; Essentials of IP CD-ROM: Nervous
<ul style="list-style-type: none"> • Explaining differences in the function of the peripheral nervous system and the central nervous system 	SE: 4-5, 223, 235-244, 247-261 TE: 113-120 TR: Lab Exercise 13: 103-100; Lab Exercise 14: 111-136; Review Sheet: 301-302 TECH: Instructors Resource CD-ROM: Chapter 7
<ul style="list-style-type: none"> • Labeling parts of sensory organs, including the eye, ear, tongue, and skin receptors 	SE: 272-281, 284-286, 291-293 TE: 32-35, 123-131 TR: Lab Exercise 17: 137-154; Review Sheet: 305-313 TECH: Instructors Resource CD-ROM: Chapter 7
<ul style="list-style-type: none"> • Recognizing diseases and disorders of the nervous system <ul style="list-style-type: none"> ○ Examples: Parkinson's disease, meningitis 	SE: 240-241, 244-246, 248-249, 260-266 TECH: Instructors Resource CD-ROM: Chapter 7
9. Identify structures and functions of the cardiovascular system.	SE: 4-5, 348-381 TE: 41-42, 141-151 TR: Lab Exercise 20: 171-178; Review Sheet: 323-326 TECH: Instructors Resource CD-ROM: Chapter 11; Essentials of IP CD-ROM: Cardiovascular
<ul style="list-style-type: none"> • Tracing the flow of blood through the body 	SE: 351-354, 364-367, 369-372 TE: 43-44, 145-151, 153-156 TR: Lab Exercise 21: 179-191; Review Sheet: 328-333 TECH: Instructors Resource CD-ROM: Chapter 10; Essentials of IP CD-ROM: Cardiovascular
<ul style="list-style-type: none"> • Identifying components of blood 	SE: 328-334 TE: 38-40, 137-140 TR: Lab Exercise 19: 162-168; Review Sheet: 319-322; Histology Atlas TECH: Instructors Resource CD-ROM: Chapter 10

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<ul style="list-style-type: none"> • Describing blood cell formation 	SE: 334-338 TECH: Instructors Resource CD-ROM: Chapter 10
<ul style="list-style-type: none"> • Distinguishing among human blood groups 	SE: 338-344 TR: Lab Exercise 19: 168-169 TECH: Instructors Resource CD-ROM: Chapter 10
<ul style="list-style-type: none"> • Describing common cardiovascular diseases and disorders <ul style="list-style-type: none"> ○ Examples: myocardial infarction, mitral valve prolapse, varicose veins, arteriosclerosis 	SE: 350, 354-355, 357-358, 360, 363, 376-379, 381-383 TE: 138-139 TR: Lab Exercise 22: 193-200 TECH: Instructors Resource CD-ROM: Chapter 10 & Chapter 11
10. Identify structures and functions of the digestive system.	SE: 6-7, 454-471, 495 TE: 52-53, 165-168 TR: Lab Exercise 25: 214-220; Review Sheet: 347-349 TECH: Instructors Resource CD-ROM: Chapter 14
<ul style="list-style-type: none"> • Tracing the pathway of digestion from the mouth to the anus using diagrams 	SE: 455 TE: 169-170 TR: Lab Exercise 25: 214-226 TECH: Instructors Resource CD-ROM: Chapter 14
<ul style="list-style-type: none"> • Identifying disorders affecting the digestive system <ul style="list-style-type: none"> ○ Examples: ulcers, Crohn’s disease, diverticulitis 	SE: 457, 460, 465, 472-477, 90-494 TECH: Instructors Resource CD-ROM: Chapter 14
11. Identify structures and functions of the respiratory system.	SE: 6-7, 427-430, 434-438, 448 TE: 48-49, 157-160 TR: Lab Exercise 23: 201-206; Review Sheet: 339-342 TECH: Instructors Resource CD-ROM: Chapter 13; Essentials of IP CD-ROM: Respiratory
<ul style="list-style-type: none"> • Tracing the pathway of the oxygen and carbon dioxide exchange 	SE: 438-440 TE: 50-51, 158 TR: Review Sheet: 340 TECH: Instructors Resource CD-ROM: Chapter 13; Essentials of IP CD-ROM: Respiratory
<ul style="list-style-type: none"> • Recognizing common disorders of the respiratory system <ul style="list-style-type: none"> ○ Examples: asthma, bronchitis, cystic fibrosis 	SE: 427-430, 432, 436, 438, 439, 441-446, 449 TECH: Instructors Resource CD-ROM: Chapter 13

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12. Identify structures and functions of the reproductive system.	SE: 6-7, 528-529, 530-544 TE: 57, 175-181 TR: Lab Exercise 27: 235-240; Review Sheet: 357-361 TECH: Instructors Resource CD-ROM: Chapter 16
<ul style="list-style-type: none"> • Differentiating between male and female reproductive systems 	SE: 528-529 TE: 175-181 TR: Lab Exercise 27: 235-240; Review Sheet: 357-361; Histology Atlas TECH: Instructors Resource CD-ROM: Chapter 16
<ul style="list-style-type: none"> • Recognizing stages of pregnancy and fetal development 	SE: 545-553, 557 TECH: Instructors Resource CD-ROM: Chapter 16
<ul style="list-style-type: none"> • Identifying disorders of the reproductive system <ul style="list-style-type: none"> ○ Examples: endometriosis, sexually transmitted diseases, prostate cancer 	SE: 531-537, 534-535, 537-538, 544, 551, 557-560
13. Identify structures and functions of the urinary system.	SE: 6-7, 502-507, 512-514, 522 TE: 54-56, 171-173 TR: Lab Exercise 26: 227-232; Review Sheet: 353-355 TECH: Instructors Resource CD-ROM: Chapter 15; Essentials of IP CD-ROM: Urinary
<ul style="list-style-type: none"> • Tracing the filtration of blood from the kidneys to the urethra 	SE: 507-510, 520 TE: 173 TR: Review Sheet: 355 TECH: Instructors Resource CD-ROM: Chapter 15
<ul style="list-style-type: none"> • Recognizing diseases and disorders of the urinary system <ul style="list-style-type: none"> ○ Examples: kidney stones, urinary tract infections 	SE: 503, 507, 509-510, 512-514, 516, 518, 520-521 TE: 173-174 TR: Lab Exercise 26: 232-234; Review Sheet: 356 TECH: Instructors Resource CD-ROM: Chapter 15
14. Identify the endocrine glands and their functions.	SE: 4-5, 300, 303-305, 307-322 TE: 36-37, 133-134 TR: Lab Exercise 18: 155-159; Review Sheet: 315-317 TECH: Instructors Resource CD-ROM: Chapter 9; Essentials of IP CD-ROM: Endocrine

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<ul style="list-style-type: none"> • Describing effects of hormones produced by the endocrine glands 	SE: 318-319, 321-322 TE: 133-134 TR: Lab Exercise 18: 155-159; Review Sheet: 316 TECH: Instructors Resource CD-ROM: Chapter 9; Essentials of IP CD-ROM: Endocrine
<ul style="list-style-type: none"> • Identifying common disorders of the endocrine system <ul style="list-style-type: none"> ○ Examples: diabetes, goiter, hyperthyroidism 	SE: 305-307, 309, 311-312, 314-316, 322-323 TE: 135 TECH: Instructors Resource CD-ROM: Chapter 9; Essentials of IP CD-ROM: Endocrine
15. Identify physiological effects and components of the immune system.	SE: 4, 6 400-404, 412-413 TECH: Instructors Resource CD-ROM: Chapter 12
<ul style="list-style-type: none"> • Contrasting active and passive immunity 	SE: 406-407 TECH: Instructors Resource CD-ROM: Chapter 12
<ul style="list-style-type: none"> • Evaluating the importance of vaccines 	SE: 407 TECH: Instructors Resource CD-ROM: Chapter 12
<ul style="list-style-type: none"> • Recognizing disorders and diseases of the immune system <ul style="list-style-type: none"> ○ Examples: acquired immunodeficiency syndrome (AIDS), acute lymphocytic leukemia 	SE: 414-421 TECH: Instructors Resource CD-ROM: Chapter 12

<http://www.alsde.edu/html/sections/documents.asp?section=54&sort=21&footer=sections>