

1/2018 aes

Midstate College
411 W. Northmoor Rd.
Peoria, IL 61614
(309) 692-4092

COURSE: AH 121 Human Anatomy and Disease

CREDIT HOURS: 4 quarter hours

METHOD OF DELIVERY: Flex learning

COURSE DESCRIPTION:

This is a course designed to introduce the student to basic human anatomy and the common diseases associated with each body system. Included are an overview of the anatomy of each body system and its functions, common symptoms and signs of psychological and physical diseases, routine diagnostic tests, and common therapies associated with the body system including drugs. The etiology of disease, common childhood diseases, genetic and developmental disorders, the effects of aging on the body, neoplasms, and immune system diseases are covered topics. Methods of researching medical information, including the PDR, will also be covered.

TEXT: 1. THE HUMAN BODY IN HEALTH & DISEASE 7TH Edition
ISBN 978-0-323-402118

2. THE HUMAN BODY IN HEALTH & DISEASE STUDY GUIDE Prepared
by Linda Swisher

AUTHOR: Kevin Patton and Gary Thibodeau

PUBLISHER: ELSEVIER

MATERIALS NEED FOR THIS COURSE: Hardware/Software and Equipment: Internet Connection

REQUIREMENTS FOR COMPLETING THE COURSE: Completion of assessment tools to the satisfaction of the instructor and standard departmental AH 120 exams. Department policy prohibits extra credit work. Required curriculum in all three learning domains (cognitive, psychomotor and affective) is listed under learning objectives and coded by assessment tool. T=test, W= worksheet, W* = worksheet with work product. Required curriculum topics are followed by numerical mapping to Core Curriculum 2008.

TOPICS TO BE COVERED: Anatomy & physiology of all major body systems. Common pathology/diseases of all body systems including diagnostic/treatment modalities. Terminology related to anatomy and disease

LEARNING OBJECTIVES: Upon completion of this course, the student will be able to:

1. I.C.1 Describe structural organization of the human body.
2. 1.C.2 Identify body systems.
3. 1.C.3 Describe body planes, directional terms, quadrants, and body cavities.
4. 1.C.4 List major organs in each body system.
5. 1.C.5 Identify the anatomical location of major organs in each body system
6. 1.C.6 Compare body structure and function of the human body across the life span.
7. 1.C.7 Describe the normal function of each body system

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8. 1.C.8a-c Identify common pathology related to each body system including signs, symptoms and etiology
9. I.C.9 Analyze pathology for each body system including: diagnostic measures and treatment modalities.

MIDSTATE GRADING SCALE:	90 - 100 A
	80 - 89 B
	70 - 79 C
	60 - 69 D
	0 - 59 F

MIDSTATE PLAGIARISM POLICY:

Plagiarism is using another person's words, either by paraphrase or direct quotation, without giving credit to the author(s). Plagiarism can also consist of cutting and pasting material from electronic sources by submitting all or a portion of work for assignment credit. This includes papers, computer programs, music, sculptures, paintings, photographs, etc. authored by another person without explicitly citing the original source(s). These actions violate the trust and honesty expected in academic work. Plagiarism is strictly against the academic policy of Midstate College. Its seriousness requires a measured, forceful response which includes consequences for inappropriate and/or no citation.

In courses containing writing assignments, the College promotes the use of an electronic resource which compares the student's writing against previously submitted papers, journals, periodicals, books, and web pages. Students and instructors can use this service to reduce the incidence of plagiarism. This electronic resource has been found to conform to legal requirements for fair use and student confidentiality. It is able to provide a report to the student indicating the parts of the assignment that match.

Student Success:

The Office of Student Success is available to students seeking tutoring for individual classes or who need assistance with writing assignments. Information is also available on test taking techniques, how to take notes, developing good study skills, etc. Contact Student Success at studentsuccess@midstate.edu (email).

Instructor Information

Julie Ladd (309)472-0290

Office Hours: 5-6pm Thursday and arranged. Please call me if you need to set up a time to meet.

Phone: 309-692-4092 extension 2041; Cell number (309)472-0290 E- mail: jmladd@midstate.edu

PLEASE READ:

Participation Requirements/Policies and Procedures: Please note that if you are not participating in the Thursday evening campus class 6pm – 9:20pm. You will need to do the material for that week on Joule the eLearning portion of the class. I will be on campus most Thursdays by 5pm. If

I have no students by 6:30pm on Thursdays I will assume all students are completing their work in the online portion of this class.

1. The policy for eLearning is that course materials are available to students at noon each Monday and that the students have until 7:59AM the following Monday morning to complete the previous week's material. However, Students are advised against waiting until the last minute or last day to submit their work for a variety of reasons. If you work on your eLearning course early in the week If you work on your eLearning course early in the week and experience computer problems, you have more time to find an alternate computer. Also, the discussion forums can be very beneficial learning tools in eLearning if utilized to their greatest potential. It is difficult to have an effective and meaningful "discussion" if no one posts until the last minute.
2. Please review the syllabus each week for the specific assignment. If modifications are made to the assignments, a note will be added to the Weekly Overview.
3. **All work is to be submitted on time, unless unusual circumstances occur.**
4. If you are unable to complete your assignments on time and wish to request an extension, you must request this BEFORE the Monday 7:59AM deadline with an appropriate excuse, stating the reason you need the extension. If you submit late work, your late assignment grade will drop 10%. Late work will not be accepted without prior approval from the instructor.
5. Students are required to make at least two meaningful discussion posts each week. Please refer to the Student eLearning Guide for more information. Attendance (online participation) is expected, not suggested. It is important that students not fall behind in class. Excessive absence will hurt your performance and your ability to pass this class.
6. Academic integrity is important at Midstate College, as stated in the catalog and student handbook. This not only includes prevention of cheating on exams and written research papers, but also discussion forum postings. Discussion postings must be in your own words.
7. **Academic dishonesty is never tolerated and will be referred to the Dean.**
8. The final exam **MUST** be completed. Failure to do so will result in failure of the course.

METHOD OF EVALUATING STUDENT PERFORMANCE:

Weekly Discussion 20pts each	240 points
10Quizes @ 100 points each	1000 points
11 SUMMARIES @50pts each	550 points
Weekly work sheet 50pts each	550 points
Comprehensive Final	<u>500 points</u>
	1640points

Methods of evaluating Student Performance: All assignments, quizzes discussions, summaries and the final examination must be completed. If all required elements are not done, the student will not pass the course. A course average of C or better is required to be considered passing for this course.

NOTE: All course work for weeks 1-6 Need to be turned in by January to get your mid-term grade. If this work is not complete by this date. Those assignments will get a 0 for a grade. Please make arrangements with me if you have vacations scheduled ect. So we can keep grades current

EXAMINATION INFORMATION: Quizzes and Final exam are matching, true/false, word bank, short list or answer, or multiple choice.

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*******NOTICE*******

PLEASE NOTED THAT EACH WEEK THERE WILL BE A QUIZ, DISCUSSION and WEEKLY SUMMARY

If you are participating in the classroom this will be done in class. If you are participating online this will be submitted through Joule.

WEEK-BY-WEEK SCHEDULE

WEEK 1 JOULE ONLINE Please include Weekly Discussion and weekly summary and Quiz Class room Will be the same discussions and	Topic: Orientation to class and syllabus; Anatomical & physiological terms, levels of organization. Objectives: Define anatomy and physiology Describe location of structures in human body Direction, regions, planes, positions, and cavities Locate serous membranes by name and relative organ Define homeostasis, negative and positive feedback List levels of organization Summarize functions of water in the body Describe organic molecules in the body Explain ATP Identify body systems and major organs In Class: <ul style="list-style-type: none">• Read syllabus• Introductions
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<p>summaries will be in class.</p>	<ul style="list-style-type: none"> • Complete pretest • Lecture Chapter 1, 2 and 3 • Workbook pages 8 , 9 and 10 • Work book pages 11, 12, 17, 18, 19 and 20 • Assignment: • Read Chapters 1, 2 and 3 in text and overview • Summary • Quiz Chapter 1, 2 and 3
<p>Week 2</p>	<p>Topics: Chapter 4 Tissues</p> <ol style="list-style-type: none"> 1. Objectives: Explain how epithelial tissue is grouped according to shape and arrangement of cells. 2. List and briefly discuss the major types of connective and muscle tissue. 3. Discuss nervous tissue and list the three structural components of a neuron 4. Describe how injured tissues regenerate in each of the four types of tissue <p>In Class:</p> <ul style="list-style-type: none"> • Lecture Chapter 4 <p>Assignment:</p> <ul style="list-style-type: none"> • Read Chapter 4 • Work book chapter 4 pages 28 and 29 • Summary • Quiz Chapter 4
<p>Week 3</p>	<p>Topics: CHAPTER 5 Organ Systems</p> <p>Objectives: Define words & terms related to organ and organ systems.</p> <ol style="list-style-type: none"> 1. Identify and locate the major organs of the integumentary , skeletal, and muscular systems, and briefly describe their major functions. 2. Identify and locate the major organs of the nervous, endocrine , and cardiovascular systems, and briefly describe their major functions. 3. Identify and locate the major organs of the lymphatic and immune, respiratory, digestive and urinary systems, and briefly describe their major functions. 4. Identify and locate the major organs and subdivisions of the male and female reproductive systems, and briefly describe their major functions.

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	<p>5. Describe the body as a whole, including listing the major organ systems of the body, discussing homeostasis, and applying organ system concepts.</p> <p>6. Describe current approaches to organ replacement.</p> <p>In Class:</p> <ul style="list-style-type: none"> • Lecture Chapters 5 <p>Assignments:</p> <ul style="list-style-type: none"> • Read Chapter 5 • Workbook pages 41 and 42 • Summary • Quiz chapter 5

<p>Week 4</p> <p>Chapter 6, 7 and 8</p>	<p>Topics: Chapter 6 the Mechanisms of Disease Chapter 7 : Skin and Membranes Chapter 8: Skeletal System</p> <p>Objectives: Chapter 7: Classify, compare the structure of, and give examples of each type of membrane.</p> <p>Cont.. Chapter 7: Describe the structure and function of the epidermis and dermis.</p> <p>List and briefly describe each accessory organ of the skin.</p> <p>List and describe major categories of skin disorders, and give examples of each.</p> <p>Describe burns and how to estimate the extent of a burn injury.</p> <p>List and briefly describe the three most common types of skin cancer.</p> <p>Assignments:</p> <ul style="list-style-type: none"> • Read Chapter 6, 7 and 8 <ol style="list-style-type: none"> 1. Weekly summary Over the Chapter 2. Quiz over chapter 6, 7 and 8 3. Workbook pages 55, 59,60, 70, 71, 79, 80, 81
<p>Week 5</p>	<p>Topics: Chapter 9 Muscular System and Chapter 10 Nervous System</p> <p>Objectives: Define selected terms related</p> <ul style="list-style-type: none"> Identify muscle tissue Identify the structure and function of skeletal muscle Identify other body system movement identify on a model or diagram and give the function of the major muscles of the body. Name and describe the major disorders of skeletal muscles. <p>OBJECTIVE CHAPTER 10</p>

	<ul style="list-style-type: none"> • List organs and divisions of the nervous system and describe the generalized functions of the nervous system as a whole. (SEE OBJECTIVE LIST PAGE 248 text book) <p>In Class: Lecture Chapter 9 and 10</p> <p>Assignments:</p> <ul style="list-style-type: none"> • Read Chapters 9 and 10 • Workbook chapter 9 pg 84 and 85 • Workbook chapter 10 pg 107 • Quiz chapter 9 and 10
Week 6	<p>Topic: Chapter 11 Senses</p> <ul style="list-style-type: none"> • Define words & terms related • Classify sense organs as general or special and explain the basic differences between the two groups • Discuss general sense organs and functions • Describe visual, hearing, taste and smell disorders <p>Assignment:</p> <ol style="list-style-type: none"> 1. Read chapter 11 2. Summary chapter 11 3. Workbook pages 114-117
Week 6 CONT.	<p>Topic Chapter 12 Endocrine System</p> <ul style="list-style-type: none"> • Distinguish between the endocrine and exocrine glands • Define the term hormone • Identify the principle functions of each major endocrine hormone and describe the conditions that may result from hyposecretion or hypersecretion • Explain how negative and positive feedback mechanisms regulate the secretion of endocrine hormones. • Identify disorders of the endocrine system <p>ASSIGNMENTS:</p> <ol style="list-style-type: none"> 1. Read chapter 12 2. Summary chapter 12 3. Workbook pages 124-128 4. Quiz chapter 11 and 12

Week 7	<p>Topics: Chapter 13 BLOOD , Chapter 14 HEART, Chapter 15 CIRCULATION OF BLOOD</p> <p>Objectives: Define selected terms related</p> <ul style="list-style-type: none"> Identify respiratory & digestive organs in a diagram Identify common pathology of each body system Analyze pathology as it relates to interaction of body systems Relate current healthcare news related to anatomy and disease. <p>Assignments:</p> <ul style="list-style-type: none"> • Read Chapters 13, 14 and 15 •
Week 8	<p>Topics: CHAPTER 16 Lymphatic System and Immunity CHAPTER 17 Respiratory System CHAPTER 18 Digestive System</p> <p>Objectives: Define selected terms related</p> <ul style="list-style-type: none"> Identify urinary organs in a diagram Identify common pathology of each body system Analyze pathology as it relates to interaction of body Systems
WEEK 9	<p>Topics: CHAPTER 19, 20, 21, 22</p> <ul style="list-style-type: none"> • 19 NUTRITION AND METABOLISM • 20 URINARY SYSTEM • 21 FLUID AND ELECTROLYTE BALANCE • 22 ACID-BASE BALANCE <p>Objectives: Define selected terms related See objectives pages 532, 554, 582 and 600 of your text book</p> <p>Assignment:</p> <ul style="list-style-type: none"> • Read Chapters 19, 20, 21 AND 22 • Summary of each chapter • Quiz includes questions over chapters 19, 20, 21, 22 • Workbook 207-209, 215-216, 227-229 234-235

	<p>TOPICS: Chapter 23, 24</p> <ul style="list-style-type: none">• 23 Reproductive Systems• 24 Growth Development and Aging <p>Objectives: Define selected terms related see other objectives pages 616 and 652 of the text book</p> <p>Assignments:</p> <ul style="list-style-type: none">• Read Chapters 23 and 24• Summary of each chapter• Quiz includes questions over chapters 23 and 24• Workbook pages 241-245 and 258-261
WEEK 10	
WEEK 11	<p>Chapter 25: Genetics and Genetics Disease Read chapter 25 Workbook pages 268-269 Summary NO Quiz Study for Final exam</p>
	<p style="text-align: center;">WEEK 12 FINAL EXAM</p>