

MIDSTATE COLLEGE
411 Northmoor Road, Peoria, IL 61614
(309) 692-4092 or (800) 251-4299
Summer 2019

BIO 120—Anatomy and Physiology II (Updated)

Credit Hours: 4 Quarter Hours

Method of Delivery: eLearning

- eLearning = To be considered in attendance for an eLearning course, the student must participate each week by submitting substantial, gradable work

Course Description:

This course is designed to introduce the student to the examination of the structure and function of body parts. Included is an in-depth study of the blood, cardiovascular system, lymphatic system, digestive system, respiratory system, urinary tract, and reproductive systems. Associate subjects such as immunity, nutrition, water and electrolyte balance, genetics, pregnancy, growth, and development will be discussed. Signs of psychological and physical diseases, routine diagnostic tests, and common therapies associated with each system will be investigated. The etiology of disease, common childhood diseases, genetic and developmental disorders, and the effects of aging on the body are covered topics.

Prerequisites: BIO 110 - Anatomy and Physiology I (or equivalent)

Materials needed for this course:

- Textbook (buy the Connect e-book access code from the college bookstore, which is used to register to multiple BIO course sections if used within 540 days of activating the code)
- Microsoft Word, or another way, to save files as .doc, .docx, .rtf or .pdf files for homework
- Reliable internet – Log into [Midstate elearning](#) for online homework and the egradebook
- Connect access code to the ebook)
- The college provides the student username and password for the BIO Midstate eLearning courses. Contact [college's Technical Support](#) for general computer issues and student questions about using the Midstate eLearning course menu tabs.

Textbook Info

Title: Hole's Human Anatomy & Physiology, 14th Ed, Connect 2 Semester Access Card

ISBN: 1259616371 from Midstate College Bookstore

Authors: David Shier, Jackie Butler, and Ricki Lewis

Publisher: McGraw-Hill, 2016,

The textbook can be purchased as an ebook access code. Contact the Midstate College Bookstore if you don't have an access code to the Connect textbook website from a previous term (or BIO course). Students can also contact the college bookstore about using their financial aid to purchase the textbook access code.

Optional: Interested students can buy the 3-hole punched, loose leaf textbook version from McGraw-Hill Education by logging into the BIO Connect ebook website; look for the purchase menu tab under the textbook photo icon (right side of the web page) to buy with a credit card and have the item mailed directly to your address. Or rent/buy a new (or used) printed textbook from other sources.

How to obtain access to the Connect course textbook website:

View this tutorial link: [How to Register to Connect Tutorial](#). Click on the "Next" menu tab under the web page. Contact the instructor about your textbook website registration questions.

The Connect access code is valid for 540 days (or 1.5 months) upon activation. Be sure to "Sign Out" (top right corner menu tab) of the Connect textbook website when you are registering for different Connect sections for the BIO courses. The college cannot resend, or reset, the Connect password.

Visit this website: [Use this BIO 120 Connect Lab registration link](#).

1. First time users of the Connect access code: Go to the BIO 120 Connect registration link provided (use the above hyperlink) to create your new Connect ebook password.
2. Students who have a Connect BIO password from a previous BIO course: Use the same Connect password to register for the BIO 120 Connect (above hyperlink).
 - a. If you have logged into Connect before, then look for the "already registered" web page (under the "Welcome") to "Sign In" with your email and password as shown in slide #2 of the tutorial link above.
 - b. Use the "Sign Out" (top right corner menu tab) to register to another Connect BIO courses.
 - c. Use the "My Courses" (top right corner menu tab) to see your registered BIO courses.
 - d. Only students can [reset their password](#) to the Connect website.

Topics:

Blood, cardiovascular system, lymphatic system and immunity, digestive system, nutrition and metabolism, respiratory system, urinary system, water, electrolyte, and acid-base balance, reproductive systems, pregnancy, growth, and development, and genetics and genomics

Learning Objectives: Upon completion of this course, the student will be able to

1. Identify major organs and structures in systems addressed
2. Identify and discuss diagnostic testing associated with each system
3. Discuss common diseases and treatments associated with each system
4. List and describe common pathological conditions
5. Use knowledge of the fundamentals of anatomy to discuss medical concepts.
6. Describe life span changes in the human body for each organ system.

Midstate Grading Scale:

- 90-100 A
- 80-89 B
- 70-79 C
- 60-69 D
- 00-69 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 as follows: Room 110 (in person); (309) 692-4092, extension 1100 (phone); studentsuccess@midstate.edu (email).

Instructor Information: Sharon Lee-Bond
Office Hours: By appointment so email the instructor to meet at the campus
E-mail: sleebond@midstate.edu

Policies and Procedures:

1. All work is to be completed on time. Unless otherwise note, late work will NOT be accepted without prior approval by the instructor. This includes homework, papers, discussions, summaries, and exams. Discussion forums, assignment drop boxes, and exams will not be available after 7:59 a.m. Monday at the end of each week unless otherwise noted in the schedule below.
2. The policy for eLearning is that course materials are available to students at noon each Monday and that students have until 7:59 a.m. the following Monday morning to complete the material. Students are advised against waiting until the last minute or last day to submit their work.
3. Academic dishonesty is never tolerated and will be referred to the Dean.
4. If you don't understand instructions, ASK. Whenever you are unsure, ASK.

Participation Requirements:

Students are required to make at least one meaningful post to the weekly discussion forum each week in addition to the completion of weekly lab assignments. Class participation (online) is required. Class is like having a job. Excessive absence (2 or more weeks without participating) will hurt your performance and your ability to pass this class. In addition, students are expected to review other entries into the weekly discussion forum and reply to at least one other post.

Methods of Evaluating Student Performance:

Students will be evaluated in this course through their answers to discussion questions, completion of chapter homework, weekly summaries, research papers and exams.

Grading Scale: Total required points for class = 1090 points

A = 981 points or higher	90 - 100%
B = 872 – 980 points	80 – 89%
C= 763 – 871 points	70 - 79%
D = 654 – 762 points	60 - 69%
F = 761 points and below	Below 60%

Schedule and Grade Specifications:

Week	Dates (Monday start unless otherwise stated)	Discussion	Weekly Summary	Chapter Questions	Research Paper	Exam
1	No MONDAY Day Campus Class Due to New Orientation May 20 – Tues May 28	10	10	20		
2	Tues May 28 -June 3	10	10	20		100
3	June 3 – 10	10	10	20		
4	June 10 – 17	10	10	20	50	
5	June 17 – 24	10	10	20		100
6	June 24 – July 1	10	10	20		
7	July 1 – 8	10	10	20		
8	July 8 – 15	10	10	20		100
9	July 15 – 22	10	10	20	50	
10	July 22 – 29	10	10	20		
11	July 29 – Aug 5	10	10	20		100
12	Aug 5 -Aug 11 SUN					150 (Final)
					1090 Total points	

Calendar Dates for Summer 2019 – Available link on the college home page (lower left corner).

Term Begins - Orientation.....May 20 Monday

Evening Flex Classes..... May 20 Monday at 7: 30PM

Day Flex Classes Begin..... May 21, Tuesday

Midterm..... June 24 – July 1 (Week 6)

Last Withdrawal Date for “W” grade June 29, Saturday

Withdrawal Date Pass/Fail for “WP/WF” gradeJuly 20, Saturday

BIO 121 Lab Final Due Date..... Aug 11, **Sunday before 12 noon**

Discussion Forums: Topics and Question Information

The questions posed in the discussion forum are questions that require more thought. Although many of the questions do not have one correct answer, it is expected that students complete their chapter reading prior to making their initial post. Answers to questions that are either wrong or not supported will be graded appropriately. Students will be expected to post their answer prior to being able to review other responses. The discussion forum will not be available until 12:00pm on Monday (Day 1) of the week. Every week students are expected to participate in the online discussions as follows:

- Due Saturday 7: 59 AM Central Time (Day 6): post a meaningful response to the question posed
- Due the following Monday 7: 59 AM (Day 7): respond to another student's posting

No further replies will be accepted after the Monday deadline.

Since the discussion forum will be closed weekly, any questions you have about information covered in the reading should be posted at the "Q and A café". This forum will not have a closed date.

Discussion question grading guidelines	
Initial posting <ul style="list-style-type: none">• Answers the minimal requirements of the question without supporting evidence = 1 point• Minimal posting with supporting evidence = 2 points• Complete posting with supporting evidence (may include APA ref citation) = 3 points	3 points
Response to posting of a classmate <ul style="list-style-type: none">• Posting the minimal requirements without supporting evidence = 1 point• Minimal posting with supporting evidence = 2 points• Complete posting with supporting evidence = 3 points	3 points
Correct spelling in postings for the week	2 points
Correct grammar in postings for the week	2 points
Total points per weekly discussion	10 points

Homework Information:

Questions will be assigned for each chapter from chapters 14 – 24. The homework will help students to study for the chapter quizzes and comprehensive final exam. Students can choose (1) to submit their typed answers to assigned textbook chapter questions or (2) to complete the chapter questions in the CONNECT website after registering with an access code to the textbook ebook. Chapter homework is due every Monday 7: 59 AM (day 7).

End of the chapter questions: Students will download the chapter homework questions from the weekly folder of the BIO 120 Midstate elearning course. Students are expected to paraphrase their textbook chapter answers in their own words as much as possible using the relevant scientific terms (as needed) and not just copy directly from the textbook (or from other sources). These questions should be answered in Microsoft Word and submitted as an attachment with the following naming convention: **LastName_ChapterXHomework** Example: Smith_Chapter14Homework.”

Weekly Summary Information:

The weekly summaries are two (2) – three (3) paragraphs describing information that is covered and addressing in weekly/chapter objectives as requested in the overview. To receive full credit on the weekly summaries, you must address each objective given in the weekly overview (see schedule in the course syllabus). In addition, you will need to discuss (in three sentences or more each) two areas or concepts that you found to be personally relevant or informative. Keep in mind that both spelling and grammar count. Summaries should be submitted as an attachment with the following naming convention: **LastName_WeekXSummary BIO120**. (Example: Smith _ Week 1 Summary BIO 120)
 Weekly summaries are due on Mondays at 7:59 am in the Midstate elearning unless otherwise noted.

Weekly Summary Grading Guidelines	
Objectives <ul style="list-style-type: none"> All objectives are fully addressed = 10 points Most objectives are addressed = 8 points Objectives are simply restated = 6 points Objectives are missing = 4 points The posting is minimal = 2 points 	10 points
Concepts <ul style="list-style-type: none"> Two concepts that are personally important are discussed in at least 3 sentences each = 5 points One concept is discussed or concepts are minimally discussed = 3 points Concept is minimal or insignificant = 1 point 	5 points
Spelling <ul style="list-style-type: none"> No spelling errors = 5 points 1 misspelled word = 4 points 2-3 misspelled words = 2 points More than 3 misspelled words = 0 points 	3 points
Grammar <ul style="list-style-type: none"> No grammar/mechanical errors = 5 points 1 grammar/mechanical error = 4 points 2-3 grammar/mechanical errors = 2 points More than 3 grammar/mechanical errors = 0 points 	2 points
Total points per weekly summary	20 points

Research Paper Information:

One of the major concerns is health care. The first research paper is about a disease of the human body (not a psychological or mental health problem) selected by each student. The second research paper is an analysis of a bioethical issue related to health care.

Download the writing assignment instructions for each research paper from the BIO 120 Midstate elearning. The paper should be submitted as an attachment with the following naming convention: **LastName_PaperX, such as “Smith_Paper 1”**.

Both research papers should be at least one (1) typed page (double spaced) in length and include a Reference page with at least two (2) different quality, scientific sources (other than the textbook). Do not cite Wikipedia, YouTube videos, and Britannica Encyclopedia as sources. in-text parenthetical citations to acknowledge the sources of these facts such as (Last name of author, year of publication).

Paper Due Dates:

Paper 1 Week 4, Day 7 by 7:59 am - Human Disease of the Body (Not Psychological Disorders)
Paper 2 Week 9, Day 7 by 7:59 am Bioethical Issues in Health Care

In addition to the general internet for reliable sources, use the Midstate State College website at <http://midstate.libguides.com/health> to find potential sources to gather research facts.

Research Paper #1 (Human Disease of the Body): Describe and discuss the following with in-text parenthetical citations to acknowledge the sources of these facts:

- causes or risk factors (if known)
- affected populations (if applicable), such a specific age, gender, ethnicity, occupation, etc
- symptoms
- diagnostic methods and tools
- current treatment options
- other interesting disease facts (e.g., historical info, discovered by whom, future concerns, etc)

Research Paper #2 (Bioethics in Health Care): Choose one of the topics to write your analysis taking into account contrasting points of view and adopting a position supported by evidence. Follow the writing assignment instructions in the “Introduction and Syllabus ” section of the Midstate elearning.

- What is [direct to consumer genetic testing](#)? What are the [benefits and concerns](#)?
- What is [end of life care](#) and [what are some issues?](#)
- What is a vaccine? What are some [ethical issues of childhood immunization?](#)

Use appropriate APA in-text parenetical citations by including the (Last name of author, year of publication) or (“Article title,” year of publication) for sources with no author listed. Refer to the college website for citing sources and research resources at <https://midstate.libguides.com/health>

If the words come directly from your source, you will need to use quotation marks and cite the source(s) or you will have plagiarized resulting in a **failing grade for the research paper**. Be sure to use appropriate grammar and complete, descriptive sentences. Contact Student Success and the course instructor for additional writing help. Contact Student Success in Room 110 (in person); 309) 692-4092, extension 1100 (phone); studentsuccess@midstate.edu (email).

Research Paper Grading Guidelines	
<p>Diagnosis</p> <ul style="list-style-type: none"> • All pertinent information is correct and given clearly and concisely = 15 points • Most pertinent information is given = 10 points • Information is either unclear or incorrect = 5 points • Information is missing = 0 points 	15
<p>Treatment</p> <ul style="list-style-type: none"> • All pertinent information is correct and given clearly and concisely = 15 points • Most pertinent information is given = 10 points • Information is either unclear or incorrect = 5 points • Information is missing = 0 points 	15
<p>Grammar</p> <ul style="list-style-type: none"> • Paper is well written with no grammatical errors = 10 points • Paper is well written with few grammatical or spelling errors = 6 points • Paper is written with several grammatical mistakes or spelling errors = 3 points • Paper is written in a manner that is difficult to understand due to grammatical mistakes = 0 points 	10
<p>Citations</p> <ul style="list-style-type: none"> • Paper contains at least two sources that are listed in the works cited page and cited in the text = 10 points • Paper contains one source that is listed on the works cited page and cited in the text = 6 points • Paper includes a works cited page = 3 points • Paper does not include citations = 0 points 	10
Total points per paper	50

Examination Information:

Examinations for this course will be a combination of multiple choice, short answer, and short essay. Although the exams are open book/note, preparation for the exam is expected. If you have to look up each answer, you will not have time to complete the exam as all exams will have a two hour time limit. When studying for the exams, focus your time on the material covered in the notes and homework. Students will not be able to save their work and come back to it, so be sure to start the exam when you have time that you can designate to taking it. *If you forget to take an exam and DID NOT MAKE PRIOR ARRANGEMENTS, you will receive a zero.*

BIO 120 Class Schedule

Week 1 (Mon May 20 – Tues May 28) Evening classes start 7: 30 pm Monday Topics:Blood

Learning Objectives: At the completion of this week, students will be able to summarize the following:

- Describe the general characteristics of blood and discuss its functions
- Identify and describe types of blood cells
- Give the major steps in hemostasis
- Identify and describe blood typing

Assignments: Submit all online homework in the Midstate elearning course unless otherwise stated by TUES, day 8, 2019 because of the Memorial Day holiday.

1. Read and take notes over chapter 14. Review chapter 14 presentation materials.
2. Post an initial answer to week 1 discussion question by Saturday 7: 59 am.
3. Respond to another student's posts in the online discussion by Tues Day 8, 7:59 am.
4. Complete chapter 14 homework. Submit the file as "Last name _ Ch 14" into the dropbox.
5. Submit the weekly summary about the chapter learning objectives into the dropbox.
6. Download the writing instructions for the first research paper from the "Introduction and Syllabus" section of the Midstate elearning course. Choose a human disease and begin collecting resources to write the research paper #1 (due at the end of week 4).

Weekly Chapter Summary Instructions

Each student must submit a 2-3 paragraph summary report to the Weekly Summary drop box summarizing the learning concepts from the assigned chapter including a discussion of each of the objectives given. Repeating the list of the learning objectives is not a summary. The final paragraph should include a discussion of at least two topics that the student found to be most personally important and/or valuable from the week's course material.

Save the file as "Last name _ week 1 summary BIO 120."

Plan ahead for week 4: Gather resources to write the Research Paper #1 (Human Disease of the Body): Describe and discuss the following with in-text parenthetical citations using APA style for these facts:

- causes or risk factors (if known)
- affected populations (if applicable), such a specific age, gender, ethnicity, occupation, etc
- symptoms
- diagnostic methods and tools
- current treatment options
- other interesting disease facts (e.g., historical info, discovered by whom, future concerns, etc)

Week 2 (TUES May 28 – June 3) Topics: Cardiovascular System

Learning Objectives: At the completion of this week, students will be able to summarize the following:

- Identify the organs of the cardiovascular system and describe their function
- Trace the pathway of blood through the heart and lungs
- Identify the parts of a normal EKG
- Discuss how blood pressure is produced and control

Assignments: Submit all online homework in the Midstate elearning course unless otherwise stated by Monday 7: 59 am.

1. Read and take notes over chapter 15. Review chapter 15 presentation materials.
2. Post an initial answer to week 2 discussion question by Saturday 7: 59 am.
3. Respond to another student's posts in the online discussion by Monday, Day 7, 7:59 am.
4. Complete chapter 15 homework. Submit the file into the drop box.
5. Submit the weekly summary about the chapter learning objectives.
6. Complete Unit 1 Exam (Chapters 14 and 15).

Week 3 (June 3 - 10) Topics: Lymphatic System and Immunity

Objectives: At the completion of this week, students will be able to summarize the following:

- Describe the general function of the lymphatic system
- Discuss the function of the spleen and thalamus
- Distinguish between specific and nonspecific defenses
- List and discuss innate body defenses and mechanisms
- Discuss types of immunity

Assignments: Submit all online homework in the Midstate elearning course unless otherwise stated by Monday, day 7, 7: 59 am.

1. Read and take notes over chapter 16. Review the chapter 16 presentation.
2. Post an initial response to week 3 discussion question by Saturday 7: 59 am.
3. Respond to another student's post by Monday, Day 7, 7: 59 am.
4. Complete chapter 16 homework and submit the file into the dropbox.
5. Submit the weekly summary about the chapter learning objectives into the dropbox.

Week 4 (June 10 - 17) Topic: Digestive System

Learning Objectives: At the completion of this week, students will be able to summarize the following:

- Describe the general functions of the digestive system
- Identify parts of the alimentary canal
- Identify and describe fundamental enzymes
- Explain the processes involved in ingestion

Assignments: Submit all online homework in the Midstate elearning course unless otherwise stated by Monday, day 7, 7: 59 am.

1. Read and take notes over chapter 17. Review chapter 17 presentation materials.
2. Post an initial response to week 4 discussion question by Friday, Day 5, 7: 59 am.
3. Respond to another student's post in the online discussion by Monday, Day 7, 7:59 am.
4. Complete chapter 17 homework. Submit the homework file into the drop box.
5. Submit the weekly summary about the chapter learning objectives.
6. Submit Research Paper #1 to drop box as "Last name _ Paper 1."

Week 5 (June 17 - 24)

Last Day to Drop Courses with a "W" grade is June 29, 2019 (Saturday)

Topics: Nutrition and Metabolism

Learning Objectives: At the completion of this week, students will be able to summarize the following:

- Define and discuss nutrition and nutrients
- Describe how cells use carbohydrates, lipids, and amino acids
- Distinguish between a vitamin and a mineral
- Describe an adequate diet

Assignments: Submit all online homework in the Midstate elearning course unless otherwise stated.

1. Read and take notes over chapter 18. Review the chapter 18 presentation materials.
2. Post an initial response to week 5 discussion question by Saturday 7: 59 am.
3. Respond to another student's posts in the online discussion by Monday, Day 7, 7:59 am.
4. Complete chapter 18 homework. Submit the homework file into the dropbox.
5. Submit the weekly summary about the chapter learning objectives into the dropbox.
6. Complete Unit 2 Exam (Chapters 16, 17, 18) by Monday, 7:59 am.

Week 6 (June 24 – July 1)

Topics: Respiratory System

Last Day to Drop Courses with a “W” grade is June 29, 2019 (Saturday)

Learning Objectives: At the completion of this week, students will be able to summarize the following:

- Name and describe the functions of each organ in the respiratory system
- Name and define the respiratory air volumes
- Discuss how various factors affect breathing
- Discuss the effect of cigarette smoking on the respiratory system

Assignments: Submit all online homework in the Midstate elearning course unless otherwise stated.

1. Read and take notes over chapter 19. Review the chapter 19 presentation materials.
2. Post an initial response to week 6 discussion question by Saturday 7: 59 am.
3. Respond to another student’s post in the online discussion by Monday, Day 7, 7: 59 am.
4. Complete chapter 19 homework. Submit the file into the dropbox link.
5. Submit the weekly summary about the chapter learning objectives.
6. Download the writing instructions for the first research paper from the “Introduction and Syllabus” section of the Midstate elearning course. Choose a human disease and begin collecting resources to write the research paper #2 (due at the end of week 9).

Plan ahead for the Research Paper #2 (Bioethics in Health Care): Choose one (1) of the topics listed below to write an analysis by taking into account contrasting points of view and adopting a position supported by evidence. Follow the writing instructions posted in the “Introduction and Syllabus” section of the Midstate elearning course. Properly cite the source facts using APA style.

- What is [direct to consumer genetic testing](#)? What are the [benefits and concerns](#)?
- What is [end of life care](#) and [what are some issues](#)?
- What is a vaccine? What are some [ethical issues of childhood immunization](#)?
- How does [organ donation work](#)? What are some [ethical issues of organ donation](#)?
- Other biomedical ethical topics must be approved by the instructor first.

Week 7 (July 1 - 8) Topic: Urinary System

Learning Objectives: At the completion of this week, students will be able to summarize the following:

- Know the organs of the urinary system and give their general functions
- Describe a nephron and explain the function of its major parts
- Describe the structure of the ureters, urinary bladder, and urethra
- Describe the effect of aging on the urinary system

Assignments: Submit all online homework in the Midstate elearning course unless otherwise stated by Monday, day 7, 7: 59 am.

1. Read and take notes over chapter 20. Review the chapter 20 presentation materials.
2. Post an initial response to week 7 discussion question by Saturday 7: 59 am.
3. Respond to another student's post in the online discussion by Monday, 7: 59 am.
4. Complete chapter 20 homework. Submit the file into the dropbox.
5. Submit the weekly summary about the chapter learning objectives into the dropbox.

Week 8 (July 8 - 15) Topics: Water, Electrolyte, and Acid-Base Balance

Last Withdrawal Date for "WP" or "WF" is Sat, July 20.

Learning Objectives: At the completion of this week, students will be able to summarize the following:

- Explain the importance of water balance in the body
- Trace the route of entry and exit that fluids and explain how it is regulated
- Explain acid-base balance

Assignments: Submit all online homework in the Midstate elearning course unless otherwise stated by Monday, 7: 59 am.

1. Read and take notes over chapter 21. Review the chapter 21 presentation materials.
2. Post an initial response to Week 8 discussion question by Saturday 7: 59 am.
3. Respond to another student's post in the online discussion by Monday, Day 7, 7:59 am.
4. Complete chapter 21 homework. Submit the file into the drop box.
5. Submit the weekly summary about the chapter learning objectives.
6. Complete Unit 3 Exam (Chapters 19, 20, 21) by Monday, 7:59 am.

Week 9 (July 15 - 22) Topics: Reproductive System

Learning Objectives: At the completion of this week, students will be able to summarize the following:

- Identify and describe the parts and functions of the male and female reproductive system
- Describe spermatogenesis and oogenesis
- Describe major changes in reproductive maturity
- Describe methods of birth control

Assignments: Submit all online homework in the Midstate elearning course unless otherwise stated by Monday, 7: 59 am.

1. Read and take notes over chapter 22. Review the chapter 22 presentation materials.
2. Post an initial response to Week 9 discussion question by Saturday 7: 59 am.
3. Respond to another student's post in the online discussion by Monday, Day 7, 7: 59 am
4. Complete chapter 22 homework. Submit the file into the dropbox link.
5. Submit the weekly summary about the chapter learning objectives into the dropbox.
6. Submit Research Paper #2 to dropbox by Monday, 7:59 am as "Last name _ Paper 2"

Week 10 Topics: (July 22 - 29) Topics: Pregnancy, Growth, and Development

Learning Objectives: At the completion of this week, students will be able to summarize the following:

- Describe fertilization and implantation
- Describe the major events of the embryonic stage of development
- Describe the birth process and explain the role of hormones in the process
- Name the stages of development and give general characteristics of each stage

Assignments: Submit all online homework in the Midstate elearning course unless otherwise stated by Monday 7: 59 am.

1. Read and take notes over Chapter 23. Review the chapter 23 presentation materials.
2. Post an initial response to Week 10 discussion question by Saturday 7: 59 am.
3. Respond to another student's post in the online discussion by Monday, 7:59 am.
4. Complete the chapter 23 homework. Submit the file into the dropbox.
5. Submit the weekly summary about the chapter learning objectives.

Week 11 (July 29 - Aug 5) Topics: Genetics and Genomics

Learning Objectives: At the completion of this week, students will be able to summarize the following:

- Distinguish between genes and chromosomes
- Explain how characteristics are passed through generations
- Identify and describe sex-linked traits
- Explain how gene expression varies from person to person
- Explain how gene therapy works

Assignments: Submit all online homework in the Midstate elearning course unless otherwise stated by Monday 7: 59 am.

1. Read and take notes over Chapter 24. Review the chapter 24 presentation materials.
2. Post an initial response to Week 11 discussion question by Saturday 7: 59 am.
3. Respond to another student's post in the online discussion by Monday, Day 7, 7:59 am.
4. Complete chapter 24 homework. Submit the file into the drop box.
5. Post weekly summary about the chapter learning objectives.
6. Complete Unit 4 Examination (Chapters 22, 23, 24) by Monday, 7: 59 AM.

Week 12 (Aug 5 – Sunday Aug 11 before 12 noon midday)

Topics: Final examination

Objectives:

At the completion of this week, students will be able to:

- Be able to discuss the connection of the different systems throughout the body
- Discuss the effects of aging on the body
- Use gained to knowledge to evaluate the effects of disease on the body

Assignments

1. Complete Final Examination by **NOON SUNDAY, AUG 11, 2019 (Central Time)**
2. Complete Course Evaluation by **NOON SUNDAY, AUG 11, 2019.**