

Human Disease and Pathophysiology

MDCA 1302. 088
Spring 2024

COURSE SYLLABUS

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Course Description

This course is a study of human pathophysiology (disease processes), including etiology, prognosis, medical treatment, and signs and symptoms of common diseases of the body systems.

Required Text:

- ***Human Diseases (5th ed.). Marianne Neighbors and Ruth Tannehill-Jones. Cengage Learning, 2019***

Online access for MindTap: electronic platform, e-textbook included

Course Learning Objectives

Upon successful completion of this course, the student should be able to:

1. Identify and discuss common pathology related to each body system including signs, symptoms, and etiology (I.C.8.a/b/c)
2. Discuss and analyze the pathology for each body system including diagnostic measures and treatment modalities (I.C.9.a/b)
3. Discuss implications for disease and disability when homeostasis is not maintained.
4. Describe implications for treatment related to pathology.
5. Compare body structure and function of the human body across the life span (I.C.6)
6. Define terminology related to human disease and pathophysiology
7. Be able to complete objectives related to each chapter of the text.

Course Policies:

To ensure you have all key information available to you off-line, it is highly recommended that you print the student syllabus and course calendar for your reference.

Attendance:

This is an online course – there is no on-campus attendance for this course. Attendance is not recorded for this class. It is recommended that you log-on to your classroom at least twice daily to ensure you are aware of announcements, assignments, discussions, and testing. The course week begins on Monday at 12:01am and ends on Sunday at 12:00 midnight. Days of the week correspond as follows:

Monday – Day 1
Tuesday – Day 2
Wednesday – Day 3
Thursday – Day 4
Friday – Day 5
Saturday – Day 6
Sunday – Day 7

Alternate Operations During Campus Closure and/or Alternate Course Delivery Requirements:

In the event of an emergency or announced campus closure due to a natural disaster or pandemic, it may be necessary for Northeast Texas Community College to move to altered operations. During this time, Northeast Texas Community College may opt to continue delivery of instruction through methods that include, but are not limited to: online through the BlackBoard Learning Management System, online conferencing, email messaging, and/or an alternate schedule. It is the responsibility of the student to monitor NTCC's website (<http://www.ntcc.edu/>) for instructions about continuing courses remotely, BlackBoard for each class for course-specific communication, and NTCC email for important general information.

Additionally, there may be instances where a course may not be able to be continued in the same delivery format as it originates (face-to-face, fully online, live remote, or hybrid). Should this be the case, every effort will be made to continue instruction in an alternative delivery format. Students will be informed of any changes of this nature through email messaging and/or the BlackBoard course site.

Instructional Methods and Tools:

The instructional methods and tools are tied to the course and chapter learning objectives by allowing the student to research, discover, and perform the differing educational exercises within the MindTap Learning Platform and class discussion forums. This course uses the following tools to aid students in successfully achieving

the learning objectives in this course:

1. The MindTap Learning Platform will be used for the majority of assignments in this course. The platform contains different learning tools that include videos, homework assignments, learning labs, tests and quizzes, and simulated claim scenarios.
2. Weekly discussion questions.
3. Additional articles, lectures, and video demonstrations supplied by the instructor.

Evaluation and Grading Criteria:

Exams will be given each week and will cover information contained in your text, class discussions, MindTap learning tools, and any additional materials given by the instructor. If there is an alteration in the class calendar, the change will be announced in the “announcements” section of BlackBoard. There are **NO** make-up exams and I do **NOT** accept late assignments! All assignment due dates are listed in the course calendar and under the description of the actual assignment. If you have a conflict with the date, it is your responsibility to contact me in advance of the due date to make arrangements for an alternate submission. Failure to do so will result in a grade of zero for the assignment. **It is your responsibility to ensure that your assignments are submitted on or before the due date!** I do understand that there are unforeseen circumstances (such as a death in the immediate family and hospitalization) that may not allow you to post assignments by the due date. Please contact me as soon as possible to arrange for an extension. **Technology issues are not valid reasons for missing deadlines.** Please ensure that your computers are updated with the correct software. A list is available on the “Home Page” of our classroom of criteria and functionality needed for the MindTap learning platform. Course weeks closes on Day 7 at 11:59pm.

The instructor will **not** drop students from the course rolls for any reason. If the student decides not to complete the course, it is the responsibility of the student to officially drop the course through the Registrar’s office. Failure to do so will result in an “F” being awarded in the course.

Grade Policy

| | |
|--|-----|
| DQ’s | 15% |
| Homework, Med Report and Term Match, Chapter Exams | 55% |
| Final Comprehensive Exam | 30% |

Grading Scale:

The grading scale of all graded activities combined will be the following

| | | |
|------------|---|---|
| 90% - 100% | = | A |
| 89% - 80% | = | B |
| 79% - 75% | = | C |
| Below 74% | = | F |

**** A minimum of a “C” is required to pass this course.**

Drop Policy: The last day to drop with a grade of “W” is **Thursday, April 18, 2024.**

Grades will be posted online under **“My Grades”** in Blackboard. Grades will be posted no later than day 7 of the following week in which the assignment was due. For example, if your assignment was due in Week 3, you would not receive grades on that assignment until Day 7 of Week 4. MindTap grades will automatically post to your grade book after you have submitted the assignment. I do review tests and worksheet assignments for computer errors and may award credit for answers that I feel are correct.

I will log in to the course at least 4 times during the week to monitor the weekly **Discussion** area. Feedback will be provided in the **Discussion** area and/or in the **Announcements** area. Requests for more specific feedback may be made in the **Discussion** area or in the **Ask the Instructor** area. I will respond to at least one main post each week but will not usually respond to all posts. If you feel you are not receiving enough personal feedback, you are strongly encouraged to contact me and ask for more specific feedback via email.

Academic Dishonesty

Academic dishonesty is considered an act of cheating. Each student has a responsibility to follow the college policies regarding academic dishonesty which are found on page 86 in the Northeast Texas Community College General Catalog. Please see my letter regarding Academic Integrity found on BlackBoard under **“Start Course Here”**.

Any student found guilty of academic dishonesty, the issue will be dealt with per NTCC’s policies and may receive a grade of “0” for that assignment. A second violation will result in failure of the course.

Online Communication:

Since this is online course and we do not interact face-to-face, good communication within the online environment is essential. Please read “The Core Rules of Netiquette” posted under **“Start Course Here.”**

If you have any questions regarding course content or questions related specifically to the class, please post them in the **“Ask the Instructor Forum”** posted under **“Start Course Here”** or **“DISCUSSIONS.”** Please take advantage of this forum as all students may benefit from your knowledge. If you have a personal question or situation, please email me directly. I make it a policy to answer all emails within 24 hours of receipt of the email. If I do not respond to you in 24 hours, please text me. As with electronic transfer of information (Internet connection issues), I may not have received your email. I also make it a point to log-on to our classroom frequently each week. If for

any reason I will be unavailable during the semester, I will post the information under the “**Announcements**” tab.

It is your responsibility and very important to always check your **NTCC E-mail**, the **Discussion** area, **Announcements**, **Microsoft Teams**, and the **Ask the Instructor** area each time you check into the classroom. One of your classmates may have offered feedback or insight that will be helpful to you or I may have provided information, in general, to assist you in your work.

Private e-mailing between students and instructors via the **NTCC e-mail** should only be used for personal, confidential situations. Any communication regarding a personal matter should be sent directly to the instructor via e-mail. No communications of a private or personal matter should be posted in the public spaces of the classroom.

Please feel free to use the Class Biography forum to initiate and participate in conversations not directly related to the course. This is an excellent opportunity to get to know other students.

Course Navigation:

Please ensure that you navigate through the entire course so you are aware of the location of course materials, email, grade book, BlackBoard help, etc. It is your responsibility to ensure your knowledge of the BlackBoard system. If you have any questions, please post in the “**Ask the Instructor Forum**,” or you can contact NTCC’s Tech Support. There are several “tabs” to the left of the course screen that provide additional information for the course.

Internet Connection Issues:

Since this course is delivered in an online format, please ensure that you have the proper computer and Internet set-up. There are no excuses for not submitting assignments due to technology issues – in other words, “my dog ate my computer” is not a valid excuse. If you have issues regarding connectivity, please contact NTCC’s Tech Support for help. If you have issues with navigating through the BlackBoard system, please refer to the “**HELP**” tab to the left on the course screen.

Course Materials and Assignments:

Along with your text books for this course, additional course materials located within the MindTap program are available as educational resources. You are also expected to use the Internet for additional research to enhance your discussions and assignments. There are several types of assignments that will be required to be completed during this course.

Discussion Questions (DQs): You will have one DQ due each week. Your initial response to the DQ is due by Day 2 (minimum word count of 50 words). You are required to respond to your instructor and at least two of your peers as this is an open forum and we often learn from each other’s posts by Day 5. I expect your posts to be researched, insightful, and add value to the discussion. Please note that I do grade on grammar, spelling, citation and referencing, and punctuation as correct use of written communication is important. I also require that you cite and reference your information. I

have posted basic information for use of APA formatting under the “Start Course Here” tab. Your responses must be paraphrased in your own words. DO NOT COPY/PASTE from the Internet as this is plagiarism. Please see the section regarding “Academic Dishonesty.”

MindTap Assignments: All of the following assignments are performed through the MindTap Learning Platform and are due by Day 7 of each week:

Chapter Homework: Due by Day 7 of each week.

Apply Yourself: Medical Report Spelling: Due by Day 7 of each week.

Apply Yourself: Term Match: Due by Day 7 of each week.

Final Exam: Due by Day 7 of each week. (Each chapter has a final exam for that chapter)

***If any of these assignments do not load on your cell phone through the BlackBoard app and/or via MindTap link, please use a desktop or laptop computer to complete the assignments.

******There are no make-ups for any activities or assignments and I do not accept late work unless prior arrangements have been made.**

Final Comprehensive Exam: This exam will be administered the last week of class and will not be available before the last week of class. Additional information regarding the final will be posted in week 15 of class. **There is absolutely NO MAKE UP for the final exam.**

APA (American Psychological Association) Format: APA is a specific format that is a guideline for every aspect of writing, from determining authorship to constructing a table to avoiding plagiarism and constructing accurate reference citations. This format must be adhered to for all writing assignments to avoid plagiarizing your written material including discussion questions and peer responses. If you are unfamiliar with APA formatting, I have provided an Internet link on the “**Start Course Here**” page for reference.

ADA Statement

It is the policy of Northeast Texas Community College to provide reasonable accommodations for qualified individuals who are students with disabilities. This College will adhere to all applicable federal, state and local laws, regulations and guidelines with respect to providing reasonable accommodations as required to afford equal educational opportunity. It is the student’s responsibility to arrange an appointment with a College counselor to obtain a Request for Accommodations form. For more information, please refer to the Northeast Texas Community College Catalog or Student Handbook or you can contact the Coordinator of Special Populations at 903-434-8202, or visit the website:

<http://www.ntcc.edu/index.php?module=Pagesetter&func=viewpub&tid=111&pid=1>

Tobacco Use

If you come to NTCC's campus, the use of tobacco products including smokeless tobacco, smoking tobacco, electronic cigarettes, and any legal smoking preparation is prohibited in all College buildings, enclosed facilities, inner campus, and College owned vehicles.

Tobacco use is prohibited in:

1. All enclosed buildings and facilities, including but not limited to classrooms, offices, food service areas, lavatories and residence halls
2. All exterior areas in the inner campus and parking lots.
3. All college owned vehicles.

Tobacco use is permitted in:

1. Personal vehicles
2. Designated smoking huts on the west side of campus.

Family Educational Rights and Privacy Act (FERPA)

The Family Educational Rights and Privacy Act (FERPA) is a federal law that protects the privacy of student education records. The law applies to all schools that receive funds under an applicable program of the U.S. Department of Education. FERPA gives parents certain rights with respect to their children's educational records. These rights transfer to the student when he or she attends a school beyond the high school level. Students to whom the rights have transferred are considered "eligible students." In essence, a parent has no legal right to obtain information concerning the child's college records without the written consent of the student. In compliance with FERPA, information classified as "directory information" may be released to the general public without the written consent of the student unless the student makes a request in writing. Directory information is defined as: the student's name, permanent address and/or local address, telephone listing, dates of attendance, most recent previous education institution attended, other information including major, field of study, degrees, awards received, and participation in officially recognized activities/sports.

Chapter Objectives

Chapter 1

- Discuss the pathogenesis of disease.
- Describe standard precaution guidelines for disease prevention.
- Identify predisposing factors to human diseases.
- Explain the difference between diagnosis and prognosis of a disease.
- Describe common tests used to diagnosis diseases.

Chapter 2

- Describe the causes of disease.
- Identify disorders in each category of the causes of disease.

- Describe behaviors important to a healthy lifestyle.
- Compare various types of impaired immunity.
- Identify basic changes in the body occurring in the aging process.
- Describe the process of cell and tissue injury, adaptation, and death.

Chapter 3

- Explain the system used to classify neoplasms.
- Compare hyperplasias to neoplasms.
- Identify the progression of cancer development.
- State the signs and symptoms of cancer.
- Describe the curative, palliative, and preventive methods used in cancer treatment.

Chapter 4

- Describe the basic defense mechanisms in the body.
- Explain the steps in the inflammatory process.
- Describe the process of tissue repair and healing.
- Identify complications of wound healing.
- Identify common infectious microorganisms, the resulting disease, and laboratory tests conducted to identify pathogenic organisms.

Chapter 5

- Discuss the basic anatomy and physiology of the immune system.
- Identify signs and symptoms associated with common immune system disorders.
- Identify common disorders of the immune system.
- Describe the typical course and management of common immune system disorders.

Chapter 6

- Discuss the basic anatomy and physiology of the musculoskeletal system.
- Identify signs and symptoms associated with common musculoskeletal system disorders.
- Describe common diagnostics used to determine type, cause, or both of musculoskeletal disorders.
- Identify common disorders of the musculoskeletal system.
- Describe the typical course and management of common musculoskeletal system disorders.

Chapter 7

- Discuss the basic anatomy and physiology of blood and blood forming organs.
- Identify signs and symptoms associated with common blood and blood forming organ disorders.
- Describe common diagnostics used to determine type, cause, or both of blood and blood forming organs disorders.
- Identify common disorders of blood and blood forming organs.

- Describe the typical course and management of common blood and blood forming organ disorders.

Chapter 8

- Discuss the basic anatomy and physiology of the cardiovascular system.
- Identify signs and symptoms associated with common cardiovascular system disorders.
- Describe common diagnostics used to determine type, cause, or both of cardiovascular disorders.
- Identify common disorders of the cardiovascular system.
- Describe the typical course and management of common cardiovascular system disorders.

Chapter 9

- Discuss the basic anatomy and physiology of the respiratory system.
- Identify signs and symptoms associated with common respiratory system disorders.
- Describe common diagnostics used to determine type, cause, or both of respiratory disorders.
- Identify common disorders of the respiratory system.
- Describe the typical course and management of common respiratory system disorders.

Chapter 10

- Discuss the basic anatomy and physiology of the lymphatic system.
- Identify signs and symptoms associated with common lymphatic system disorders.
- Describe common diagnostics used to determine type, cause, or both of lymphatic disorders.
- Identify common disorders of the lymphatic system.
- Describe the typical course and management of common lymphatic system disorders.

Chapter 11

- Discuss the basic anatomy and physiology of the digestive system.
- Identify signs and symptoms associated with common digestive system disorders.
- Describe common diagnostics used to determine type, cause, or both of digestive disorders.
- Identify common disorders of the digestive system.
- Describe the typical course and management of common digestive system disorders.

Chapter 12

- Discuss the basic anatomy and physiology of the liver, gallbladder, and pancreas.

- Identify signs and symptoms associated with common liver, gallbladder, and pancreas disorders.
- Describe common diagnostics used to determine type, cause, or both of liver, gallbladder, and pancreas disorders.
- Identify common disorders of the liver, gallbladder, and pancreas.
- Describe the typical course and management of common liver, gallbladder, and pancreas disorders.

Chapter 13

- Discuss the basic anatomy and physiology of the urinary system.
- Identify signs and symptoms associated with common urinary system disorders.
- Describe common diagnostics used to determine type, cause, or both of urinary disorders.
- Identify common disorders of the urinary system.
- Describe the typical course and management of common urinary system disorders.

Chapter 14

- Discuss the basic anatomy and physiology of the endocrine system.
- Identify signs and symptoms associated with common endocrine system disorders.
- Describe common diagnostics used to determine type, cause, or both of endocrine disorders.
- Identify common disorders of the endocrine system.
- Describe the typical course and management of common endocrine system disorders.

Chapter 15

- Discuss the basic anatomy and physiology of the nervous system.
- Identify signs and symptoms associated with common nervous system disorders.
- Describe common diagnostics used to determine type, cause, or both of nervous disorders.
- Identify common disorders of the nervous system.
- Describe the typical course and management of common nervous system disorders.

Chapter 16

- Discuss the basic anatomy and physiology of the eye and ear.
- Identify signs and symptoms associated with common eye and ear disorders.
- Describe common diagnostics used to determine type, cause, or both of eye and ear disorders.
- Identify common disorders of the eye and ear.
- Describe the typical course and management of common eye and ear disorders.

Chapter 17

- Discuss the basic anatomy and physiology of the reproductive system.

- Identify signs and symptoms associated with common reproductive system disorders.
- Describe common diagnostics used to determine type, cause, or both of reproductive disorders.
- Identify common disorders of the reproductive system.
- Describe the typical course and management of common reproductive system disorders.

Chapter 18

- Discuss the basic anatomy and physiology of the integumentary system.
- Identify signs and symptoms associated with common integumentary system disorders.
- Describe common diagnostics used to determine type, cause, or both of integumentary disorders.
- Identify common disorders of the integumentary system.
- Describe the typical course and management of common integumentary system disorders.

Chapter 19

- Discuss the basic anatomy and physiology of genetic and developmental disorders.
- Identify signs and symptoms associated with common genetic and developmental disorders.
- Describe common diagnostics used to determine type, cause, or both of genetic and developmental disorders.
- Identify common genetic and developmental disorders.
- Describe the typical course and management of common genetic and developmental disorders.

Chapter 20

- Discuss the basic anatomy and physiology of childhood diseases and disorders.
- Identify signs and symptoms associated with common childhood diseases and disorders.
- Describe common diagnostics used to determine type, cause, or both of childhood diseases and disorders.
- Identify common childhood diseases and disorders.
- Describe the typical course and management of common childhood diseases and disorders.

Chapter 21

- Identify signs and symptoms associated with common mental health diseases and disorders.
- Describe common diagnostics used to determine type, cause, or both of mental health diseases and disorders.
- Identify common mental health diseases and disorders.

- Describe the typical course and management of common mental health diseases and disorders.
- State the mental health disorders found in the older population and the effects of these disorders.