

**HUMAN DISEASE (BIOL 4653/5653)
FALL 2018**

Lecture MWF 12:00-12:50

Professor: Dr. Diane Dixon

Office: BS117

Phone: 745-2024

E-mail: ddixon@se.edu

Office Hours: M-F 11-12, MWF 9:30-10, Mon. 1:00-4:30
and by appointment

Text: MindTap for Human Diseases, 5th edition, ed. by M. Neighbors and R. Tannehill-Jones, Delmar Cengage Learning Publishers. (The access code for Connect gives you access to an ebook so you don't need to buy a physical copy of the book unless you want to)

Objectives: The primary objective of this course is to learn the fundamental concepts of human disease. The course will include basic terminology that is used relative to disease as well as a description of what is basically happening in the disease process. The course will also survey several different diseases and examine what causes the diseases and what the diseases are doing to the human body. Upon completion of the course you should be able to:

1. Describe what disease is and the general mechanisms of disease.¹
2. Define the terminology that is associated with disease.¹
3. Describe how cancer develops.¹
4. Identify and describe the causes the major diseases for each of the body systems.¹
5. Describe the effects of the major diseases for each of the major body systems.¹
6. Analyze and summarize current research that is being done on a particular disease.²

¹ Help fulfill Biology Program Goal 1

² Helps fulfill Biology Program Goals 1,2,4

Biology Program Goals listed at <http://www.se.edu/dept/biology/degree-programs>

Disability Accommodations: Any student needing special accommodations due to a disability should contact the Office of Compliance and Safety, Administration Building, Suite 311 or call (580) 745-3090 (TDD# 745-2704). It is the responsibility of each student who anticipates or experiences barriers to their academic experience to make an official request for disability related accommodations in a timely manner.

Counseling Center: Any student experiencing mental or emotional issues who desires free, confidential, clinical counseling is encouraged to contact the SE Counseling Center at (580) 745-2988 to schedule an appointment during normal working hours Monday-Friday, 8:00AM to 5:00PM. For after-hours mental health emergencies, please call SE Campus Police at (580) 745-2911 or the Mental Health Crisis Hotline at 1-(800) 522-1090.

Equity and Non-Discrimination Statement: Southeastern Oklahoma State University, in compliance with all applicable federal and state laws and regulations, does not discriminate on the basis of race, color, religion, national origin, sex, age, disability, sexual orientation, gender identity, or status as a veteran in any of its policies, practices, procedures, or programs. This includes, but is not limited to: admissions, employment, financial aid, and educational services. Inquiries regarding non-discrimination and equity policies may be directed to: Michael Davis, Director of Compliance and Safety & Title IX Coordinator, (580) 745-3090, or mdavis@se.edu.

The university academic policies and requirements are contained in the Undergraduate and Graduate catalog at <http://www.se.edu/academics/catalogs/>. The student handbook is available at <http://www.se.edu/dept/student-life/student-handbook>.

Attendance: Attendance is very important for this class. While you will not be punished for missing class, you will be responsible for the material covered in class. Attendance may also be considered for borderline grades.

Cheating: Obviously cheating is not allowed. By cheating I mean copying off another student's paper or plagiarizing. Copying material directly from a book, journal article or webpage (word for word or close to word for word) is plagiarism. If you look something up in a book, journal article or webpage, read the section and make sure you understand the concept that is conveyed and then write your answer in **your own words**. You will be submitting your paper with SafeAssign in Blackboard which will tell me if you are plagiarizing. If a student is caught cheating, he or she will receive a zero for the exam or assignment.

Cell phone Policy: The use of cell phones during class is prohibited. Please have all devices silenced and put away. If your phone is visible or you use it, I will take it until the end of the class. Cell phones must be put away and out of sight during exams. If your cell phone is visible during an exam you will receive a zero for that exam.

Blackboard: A copy of this syllabus is available on Blackboard. Outlines and PowerPoints of the lectures are also available on Blackboard. It is highly recommended that you print copy of the outlines and/or PowerPoints BEFORE class. That way you can spend most of your time listening and trying to understand rather than writing. The outline/PowerPoint does not have all the material that we talk about in class. Additional material will be covered which you will be responsible for. Review sheets will also be available on Blackboard. Grades will also be posted on Blackboard. Please check Blackboard for any announcements for the class.

Evaluation: Grades will be determined by 5 exams, homework assignments and a paper. Exams will be multiple choice, matching, and short answer and essay. The exams will be based on material covered in lecture. Lectures will cover information in the book as well as additional material. The exams may have some questions on some general concepts from a previous section that you already were tested on. If you must miss an exam because of a legitimate reason, please notify me **BEFORE** the exam and a make-up exam will be given. A legitimate excuse is a serious illness or death in the family, or serious personal illness with a doctor's note. Homework assignments (on MindTap) will be given for each chapter. The assignments **must be done by the due date** or no credit will be given. **The due dates are posted on Blackboard.**

Exams (5)	- 16% each (80% total)
MindTap homework assignments	- 10% (lowest score dropped)
Paper	- 10%

90-100% - A; 80-89% - B; 70-79% - C; 60-69% - D; below 60% - F

Paper: The paper will be on the current research on a disease of your choice (Needs to be approved by me.). The paper needs to either describe the **CURRENT (within the last five years) RESEARCH** that is being done to investigate how a disease “works” (ie. What is happening in the body to cause the signs and symptoms of the disease and why) or describe the **CURRENT RESEARCH** on the diagnosis, prevention, OR treatment of a particular disease. This is an either/or option. You can describe the research how the disease works or the research on the treatment. You cannot have describe 2 studies on how the disease works and 3 studies on treatment. When describing the research you need to be specific as to how the research was done and what were the results. Thus, if you are describing the research on a treatment, you would need to describe who the subjects were and how many, what the treatment was, what the results were, and how they were measuring the results.

For example: “A double blind placebo study was performed with 150 participants to determine the effects of glucosamine on osteoarthritis. [Briefly describe the participants (for example females 60-70 years old that were diagnosed with osteoarthritis)] In this study, 50% of the participants that took 500 mg of glucosamine a day for 2 months reported less pain and swelling than those that took the placebo.” [You would also have to describe how they measured the dependent variables - pain and swelling and how much less pain and swelling there was.]

The paper needs to have at least 5 references that are **RESEARCH JOURNAL ARTICLES** that describe 5 different studies. The research articles need to be primary sources (written by scientists that are doing the research and describing their results), **NOT REVIEW ARTICLES** (articles that may or may not be in scientific journal

that summarize several studies). That is not to say that you cannot have any review articles as references, but they do not count as part of the 5 required references.

Additional requirements for graduate students: Graduate students will take the same exams (worth 14% each – 70% total) as the rest of the class, but in the written part I will expect the answers to show a greater understanding of the concepts. You will also do the same homework (10%). In addition, you will do **two** papers (average of two papers 15%) on two different diseases. (Description above) You will also do an oral presentation (5%) on the research of one of the two diseases.

90-100% - A; 80-89% - B; 70-79% - C; 60-69% - D; below 60% - F

Tentative Outline of Course* (The schedule can be changed if we take longer on some subjects than expected. Changes in the exam dates will be posted on Blackboard.)

Introduction	Chap. 1
Mechanism of Disease	Chap. 2
Inflammation & Infection	Chap. 4
Hyperplasias & Neoplasms	Chap. 3
Exam 1	Sept. 8
Immunologic Diseases & Disorders	Chap. 5
Hematopoietic Diseases & Disorders	Chap. 7
Lymphatic System Diseases & Disorders	Chap. 10
Exam 2	Sept. 29
Cardiovascular System Diseases & Disorders	Chap. 8
Respiratory System Diseases & Disorders	Chap. 9
Integumentary System Diseases & Disorders	Chap. 18
Paper topic due	Oct. 18
Exam 3	Oct. 25
Digestive System Diseases & Disorders	Chap. 11 & 12
Urogenital System Diseases & Disorders	Chap. 13 & 17
Exam 4	Nov. 15
Ear & Eye Diseases & Disorders	Chap. 16
Musculoskeletal System Diseases & Disorders	Chap. 6
Nervous System Diseases & Disorders	Chap. 15
Endocrine System Diseases & Disorders	Chap. 14
Paper Due	Nov. 20
Exam 5	Dec. 11 2:00

Other Important Dates:

Date	Event
August 20, 2018	Classes Begin
August 24, 2018	Last day to enroll in or add a class Last day to drop a class with no grade record Last day to drop a class with a refund/no charges
September 3, 2018	Labor Day - no classes
October 19, 2018	Assessment Day – no morning classes
November 9, 2018	Last day to drop a class
November 19-25, 2018	Thanksgiving Holiday
December 10-14, 2018	Final Exams
December 14, 2018	Semester Ends