

North Central Kansas Technical College

BIOLOGY 230: Anatomy and Physiology with Lab (5 Credits)

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Course Description:

This class is an in depth study of human anatomy and physiology. Anatomy is the study of the structure of living organisms from cell structure to organ systems. Physiology is the study of the mechanical and biochemical functions of the body. To illustrate the concepts discussed in the lecture portion of the class, lectures will be supplemented with laboratory exercises including microscopy and dissection. **Prerequisite:** Grade of C or better in BIOL 121 or CHEM 100, or qualifying examination score.

Required Texts:

Hole's Essentials of Human Anatomy and Physiology 13th ed. by Shier, Butler and Lewis ISBN-13: 978-0073403724

PhysioEx 9.1: Lab Simulations in Physiology

ISBN-13: 978-0321929648

Method of Evaluation/Grades:

There will be a variety of assessments during this course which will determine your final grade. The various components are as follows:

	Pts
11 labs	110
12 quizzes	120
5 discussions	50
4 practical exams	150
4 exams	400
Total	830

Letter grades will be assigned by percentage:

A	<90%	830-747
B	<80%	746-644
C	<70%	643-581
D	<60%	580-498
F	>60%	497-0

Due Dates for labs, discussions, quizzes and exams:

All work is due on the last day of the week they are contained within, please see the course schedule.

Late Assignment Policy:

No late work is accepted.

Important Dates:

June 3 Class starts

July 9 Last day to withdraw

July 29 Class ends

Labs: Labs will be conducted using the PhysioEX 9.0 lab manual. Labs consist of performing simulations and then completing a worksheet. Submit your completed worksheet into the drop box located inside the weekly folder.

Quizzes: Quizzes are 10 questions each worth 1 point. They are true or false. You have 15 minutes to complete each quiz. You will be given a 2 minute reminder when you have two minutes left to complete the quiz. When the time is over the quiz will automatically submit to prevent you from going over the time limit.

Discussions: Discussions are meant to be interactive between you and your fellow classmates. Since we cannot have classroom conversations this takes the place of that. To receive full points on discussions you are required to post an initial response to the questions and then comment on two other classmate's posts. These responses must be well thought out and not a simple one-word answer. The response posts must show you actually read the initial post and have something worthwhile to add.

Practical Exams: Practical exams will concentrate on the anatomical structures. They will consist of pictures and structures that you will need to identify (each exam will have a list of items you are responsible for knowing). They are taken online and will be timed. You have 45/60 minutes to complete each exam. You will be given a two minute reminder when you have two minutes left to complete the exam. When the time is over the exam will automatically submit to prevent you from going over the time limit.

Exams: Exams will concentrate on the lecture materials. They will consist of a variety of type of questions; multiple choice, true/false and matching. They will be online and timed. You have 75 minutes to complete the exam. You will be given a two minute reminder when you have two minutes left to complete the exam. When the time is over the exam will automatically submit to prevent you from going over the time limit.

Course Objectives:

1. To gain an understanding of the basic structures and functions of the human body and to become familiar with the language used within the discipline.
2. To acquire lab skills as a means of appreciating the relationship of body structures and their functional anatomy.
3. To utilize the knowledge gleaned from this course as a foundation in other classes and in your chosen career paths.

Services for Students with Disabilities:

Students with either a permanent or temporary disability who require accommodation for more than one week should request services by contacting the Student Services Office. Students requesting accommodations must present written documentation from a certified professional, which should include a statement identifying the disability as well as recommendations for accommodations. Contact, at least one month in advance, the Dean of Student Services (785) 738-2276 to make requests for accommodations.

Policy Regarding Academic Dishonesty:

Academic dishonesty of any kind will not be tolerated while attending North Central Kansas Technical College. The examples of academic dishonesty are plagiarism, cheating, falsification or forgery of any assignments or examinations. Any student who participates in any form of academic dishonesty must accept the consequences of their actions. These consequences may include but are not limited to the following (a) verbal or written warning, (b) lowering of grade for assignment/activity, (d) failure of class assignment or exam. Homework should reflect the student's individual work and should not be utilized as a committee or group effort. On the rare occasions when an examination or portion of an examination is designated as a "take home" test, the answers will be reviewed for similarities that would indicate "shared" work and no credit will be given for that assignment or examination.