

ANATOMY & PHYSIOLOGY

Mrs. Carolyn Fischer

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Course Description:

Anatomy & Physiology is designed as an advanced biology course focused specifically on the human body. It is intended to provide an elective credit for those students interested in the human body and/or those students interested in going into a health related field.

This course provides students with an in-depth understanding of the structure and function of the human body. It confronts medical issues and promotes a healthy lifestyle. A foundation in anatomical terminology, laboratory techniques and utilization of reference materials are parts of the course of study. A thorough dissection of the fetal pig is a major part of the course work.

Standards:

Course objectives from NICC will be used to ensure alignment and preparation for post-secondary level experiences.

Iowa Core Curriculum:	Next Generation Science Standards:
<ul style="list-style-type: none">Understand and apply knowledge of the cell. (S.9-12,LS,1)Understand and apply knowledge of the interdependence of the behavior of organisms. (S.9-12,LS,19)Understand and apply knowledge of the interdependence of the behavior of organisms. (S.9-12,LS,20)	<ul style="list-style-type: none">Develop and use a model to illustrate the hierarchical organization of interacting systems that provide specific functions within multicellular organisms.Plan and conduct an investigation to provide evidence that feedback mechanisms maintain homeostasis.

Assessments:

Student understanding will be continuously monitored throughout the course. A mix of formative assessments will be given during the chapter, these include (but are not limited to) online quizzes (submitted through Canvas), "exit tickets", traditional quizzes, self-reflections, labs, and class discussions. Not all formative assessments will be formally graded and entered in PowerSchool, those that are will be appropriately labeled and suggestions for improvements will be given. At the end of each chapter a summative assessment will be given to determine the level of comprehension each student gained. The summative assessment may be a test, lab practical, portfolio, or individual/group project. Advanced notice will be given for summative assessments.

If absent on an assessment day students will be allowed to complete the missed work. The student will be responsible for communicating the desired date/time to make up the assessment, which must not take place during this or other scheduled classes during the day.

Content:

Semester 1	
First Quarter <ul style="list-style-type: none">Chapter 1 – An Introduction to Anatomy and PhysiologyChapter 2 – The Chemical Level of OrganizationChapter 3 – Cell Structure and FunctionChapter 4 – The Tissue Level of Organization	Second Quarter <ul style="list-style-type: none">Chapter 6 – The Skeletal SystemBegin Chapter 7 – The Muscular System
Semester 2	
Third Quarter <ul style="list-style-type: none">Continue Chapter 7 – The Muscular SystemChapter 8 – The Nervous System	Fourth Quarter <ul style="list-style-type: none">Chapter 9 – The General and Special SensesChapters 12 & 13 – The Cardiovascular System/HeartChapter 16 – The Digestive System

THIS CALENDAR IS SUBJECT TO CHANGE DUE TO WEATHER AND SCHOOL SCHEDULE CHANGES

Instructional Strategies:

This course will implement a variety of instructional strategies each chapter. At times strategies will push the comfort and/or creative limits of the student, but the intent is to get students to understand and apply the content through various means. Throughout the year pretests may be given to determine the baseline of each student's understanding and also gather information about their interests/questions in regard to the system being studied. Small cooperative groups may be created from the results of these pretests. Student choice will be given on several formative and summative assessments and students are encouraged to voice their ideas and suggestions.

Resources:

This Anatomy & Physiology course is designed around the Pearson textbook *Essentials of Anatomy & Physiology* (Martini & Bartholomew, 4th Edition). Although it is not required, students may check out their own copy of the book if interested (see Ms. Bontemps in the Library). During dissections, lab manuals will be available during class as well as other guides/resources on Canvas.

All A&P students will have an account on Canvas, which will serve as our Learning Management System. Access can be found at: <https://dubuque.instructure.com/login/canvas>

Lastly, you can follow me on Twitter (@SeniorAnatomy) for quiz reminders, study questions, and other corny anatomy-related information! 😊

Academic/Behavioral Expectations:

Anatomy & Physiology is a class that will require *memorization, application, and dissection*. Students are expected to participate during class, labs, and activities in order to get the most out of the course. If absent, students are expected to check the calendar on Canvas for any missed videos, notes or assignments. Please see me if you have questions about this. The student's individual effort will determine what is taken away from the course; please put effort into all activities and dissections. While students are not required to dissect, all students are expected to participate in the completion of lab journals in addition to choosing a lab partner that will ensure that the dissection will be completed. All classrooms, teachers, and peers require respect, but because the dissections will involve once-living organisms A&P requires additional respect. Along with this, maturity is also expected; this is a course about the human body and it will be studied with maturity and respect.

Lastly, the two main rules of the classroom are:

1. Be kind.
2. Try.

What you can expect from me:

You can expect me to hold you all to the same high standards and expectations. This course will follow the standard grading scale (see Grades section) and school-wide discipline policies (see student handbook). Grades will be updated in PowerSchool within a week of the collection of the formative/summative assessment. If you are ever in need of additional assistance, I am here to help!

Grades:

Grades will be based on a percentage of the total points possible during each grading period. It is a good idea to *check your grades on PowerSchool regularly*.

All summative assessments will be graded; this will form the majority of each student's grade. Formative assessments may be graded (ie: quizzes, labs, small group work). While "homework packets" may be distributed each chapter, they will NOT be graded, rather they serve as practice for students.

93% A	87% B+	77% C+	67% D+	Below 60% F
90% A-	83% B	73% C	63% D	
	80% B-	70% C-	60% D-	

Communication Plan:

The best way to reach me to via email (cfischer@dbqschools.org) as this is checked throughout the school day as well as at home.

During the school day my schedule is as follows:

7:00 am – 4th period: Anatomy & Physiology in Room B149

5th – 6th periods: Gifted and Talented, most likely to be found in the Science Office (B240)

7th period – 2:40 pm: Prep in Room B240

*Please note that there will be days where I will be at meetings or out of the building after 4th period for GT.

The phone number for B149 is x5626 and B240 is x5620.

As mentioned in the Grades section, I will regularly update PowerSchool and it is recommended that both parents and students visit this site to check their progress. If grades and/or attendance begins to slip, I will contact parents/guardians either by phone or email.

Canvas will serve as our Learning Management System (LMS) in A&P. A LMS is designed to be a “hub” for communication, learning, and assessments. In A&P we will regularly use Canvas to access video notes, assignments, and links to additional resources for review at home. If students are to complete homework through the LMS specific instructions will be made. Students will also use OneNote Classroom Notebook to compile work in their digital portfolio; this is also linked to Canvas.

Lastly, if students have a question or find an A&P related link they can Tweet it to @SeniorAnatomy!