



HONORS HUMAN BODY STRUCTURES & FUNCTIONS

Jennifer Dennis, RN

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Dear Parent/Guardian,

I look forward to having a great year! I feel fortunate to have your son/daughter in my class this semester and hope that you will contact me should you have any concerns about the progress of your son/daughter or any aspect of the instruction. With your son/daughter, please read the attached policies, then sign and date this signature page and have your son/daughter return this form. Please provide a current email address and phone number at which I can contact you should the need arise. Please contact me at school with any concerns.

Thank you,

Jennifer Dennis, RN BSN

My child and I have read and discussed the classroom syllabus.

Student Name (Print) _____ Date _____

Student Signature _____ Date _____

Parent/Guardian Name (Print) _____ Date _____

Parent/Guardian Signature _____ Date _____

Email Address(es) _____

Phone number(s) _____

Work

Cell

Home



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Course Description:

490015 Honors Human Body Structures and Functions (18 weeks/1 credit/ typically grades 11-12)

This course should prepare students for biomedical, nursing, and other health-related careers, and is a prerequisite for Health Science Internship with an 85% or above. The majority of applicants to the Health Science Internship program had an average of 87%. The course is organized to follow a logical sequence of the ten systems of the human body with emphasis on diseases and disorders. Laboratory Dissection includes anatomical study of a mammal.

No Prerequisite required for this course.

Culminating Product/Career Readiness Indicator: Students are prepared for further study in an array of health-related fields at the post-secondary level. Students who are age 15 or above are eligible for the Career Readiness Indicator, American Red Cross Lifeguarding. If you are interested, please see me privately.

Course Objectives:

- 1) Students will become acquainted with the various levels of organization of the human body and each of the human body systems.
- 2) Students will integrate anatomical structures with functions that involve support, movement, integration, coordination, transport, absorption, and excretion within the human body.
- 3) Students will explore the human life cycle in the process of reproduction, growth, and development.

Course Goals:

- 1) Develop a vocabulary of appropriate terminology to effectively communicate information related to anatomy and physiology.
- 2) Recognize the anatomical structures and explain the physiological functions of body systems.
- 3) Recognize and explain the principle of homeostasis and the use of feedback loops to control physiological systems in the human body.
- 4) Use anatomical knowledge to predict physiological consequences, and use knowledge of function to predict the features of anatomical structures.
- 5) Recognize and explain the interrelationships within and between anatomical and physiological systems of the human body.
- 6) Synthesize ideas to make a connection between knowledge of anatomy and physiology and real-world situations, including healthy lifestyle decisions and homeostatic imbalances.
- 7) Demonstrate laboratory procedures used to examine anatomical structures and evaluate physiological functions of each organ system.
- 8) Interpret graphs of anatomical and physiological data.

Essential Questions:

- 1) What is the relationship between anatomy and physiology including the major characteristics of life?
- 2) How is the homeostasis of the body controlled?



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- 3) How can anatomical positional terms and body sections be applied?
- 4) How does knowledge of anatomy and physiology assist a healthcare professional?
- 5) Why would someone who is considering a medical profession need to know medical Terminology?
- 6) How do medical professionals in different fields assist with burn care and rehabilitation?
- 7) What personal habits will maintain bone health throughout the lifespan?
- 8) How does the overall structure of bone provide great strength and flexibility, but keep bone from being too bulky and heavy?
- 9) How do the components of the nervous system relate to daily living?
- 10) How can a disease of the nervous system affect the rest of the body?
- 11) What are personal habits that maintain optimal functioning of the nervous system?
- 12) Why would the inability to feel pain put the human body in danger?
- 13) How do vaccinations assist the immune system?
- 14) Why is immunization of importance following a natural disaster?

1) Be prepared and on time. This also means that when you submit an assignment, it needs to be complete. You will need to complete an assignment by the due date, unless there are extenuating circumstances which must be discussed and approved by the teacher. I WILL NOT accept late work as this is an Honors class.

2) Respect the property of others.

3) Do not eat, drink, or chew gum in class.

4) Keep up with make-up work and communicate with the teacher concerning the deadline.

5) Follow the instructions of the instructor at all times, especially during labs.

6) Tests will be given at the end of each unit. Students may check the dates of important tests and other projects by checking schoology for daily homework, by paying attention to announcements written on the board, or by listening in class!

7) Since this class is a prerequisite for the Healthcare Science Internship, students must demonstrate a high level of professionalism before being recommended for the internship. This includes a willingness to always do one's best, to complete work with integrity with no assistance from other sources (unless specified), to maintain an 85 or above average, and to exhibit honest character in all situations. This previous semester students accepted into the Internship program had an 87% or above, so always do your best.

Classroom Expectations

Classroom Management Plan:

- Verbal reprimand
- Conference with student with parent contact
- Withdrawal of privilege(s) with parent contact
- Other consequences determined to be reasonable and appropriate by the school administration.

Cell Phones

Cell phones and earbuds/headphones will not be allowed to be used during classroom instruction time. Phones and earbuds/headphones will be put away in a location designated



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by the teacher and placed in silent mode. In secondary schools, students will have access to their phones and earbuds/headphones outside of classroom instruction time such as between classes and lunch. Failure to follow these procedures will result in a disciplinary referral to the office.

Grading Policy:

Major assessments will count 70 percent of your grade. Homework and classwork will account for 30 percent of your grade. Grades will be updated weekly in PowerSchools. Each grading period will consist of nine weeks.

Make-up Work Policy:

Make-up tests will **only** be given to a student who has an **excused absence**. **The student must make arrangements with the teacher to take a make-up test. Tests may be taken during Patriot Path with prior arrangement from each teacher.** A student only has two chances (the next two Patriot Paths after the absence) to make up a test. All make-up tests will be administered in the designated classroom on the Patriot Path session roster.

Homework/Classwork: Students who are absent for **excused reasons** will be permitted to make up missed work. **It is the student's responsibility to get their work assignments the day upon return to school and complete the assignments according to a time frame determined by the teacher within two weeks of the date of the last absence.** Grades of zero will be assigned for assignments missed because of unexcused absences.

***Text and Other
Required Reading:***

Human Anatomy and Physiology Tenth Edition, by Elaine N. Marieb and Katja Hoehn

The class will utilize Schoology and Pearson Connect (textbook online resource) where students will find other resources such as power points, videos, and weekly assignments including modules and homework.

***Materials and
Supplies Needed:***

- Notebook (three-ring binder)
 - Notebook paper
 - Dividers
 - Black pens
 - Pencils
 - Colored pencils
 - 1 container of Clorox wipes
 - 1 box Kleenex
 - 1 hand sanitizer or hand soap
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- It is highly suggested to purchase a Daily Planner if you do not already have one. This will be used to assist you in staying organized to keep up with assignments for this course, and assistance with time management between this course, other courses, and extracurricular activities.

Laptops

Concerning laptop utilization: 1. Student laptops should not be hard-wired to the network or have print capabilities. 2. Use of discs, flash drives, jump drives, or other USB devices will not be allowed on Madison City computers. 3. Neither the teacher, nor the school is responsible for broken, stolen, or lost laptops. 4. Laptops and other electronic devices will be used at the individual discretion of the teacher.

***Turnitin Notice
(English Courses)***

The majority of writing assignments in this course will be submitted to Turnitin via the Schoology learning platform. Turnitin generates a report on the originality of student writing by comparing it with a database of periodicals, books, online content, student papers, and other published work. This program will help students discern when they are using sources fairly, citing properly, and paraphrasing effectively - skills essential to all academic work.

Students will have the opportunity to review their Turnitin originality report and will have the opportunity to make revisions before submitting their work for grading. Once their work is submitted, teachers have the opportunity to view the student/s originality report and grade accordingly.

Accommodations

Requests for accommodations for this course or any school event are welcomed from students and parents.

18 – WEEK PLAN*	
Week 1	Introduction to Anatomy & Physiology/Medical Terminology
Week 2	Body Planes and Directional Terms
Week 3	Cells and Body Tissues
Week 4	Integumentary System
Week 5	Skeletal System
Week 6	Muscular System
Week 7	Nervous System
Week 8	Cardiovascular System
Week 9	Digestive System
Week 10	Respiratory System
Week 11	Reproductive System
Week 12	Urinary System
Week 13	Endocrine System
Week 14	Immune System



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Week 15	Lymphatic System
Week 16	Fetal Pig Dissection
Week 17	Project Presentations
Week 18	Review Semester Exam

***This is a tentative plan and may change at the discretion of the teacher.**
