

Honors Courses in North Carolina: Science
Honors Science Portfolio Documentation Guide

**North Carolina Honors Science
 Portfolio Documentation Guide**

This form should be completed and additional requested material attached. The form should be submitted to appropriate administrators for approval as required by the LEA.

General Course Information	Course code:	30214
	Course title:	Honors Anatomy and Physiology
	Recommended maximum enrollment:	24
	Recommended hours of instruction:	
<p>Course Description</p> <p>Copy the appropriate course description from the Honors Science Document and paste into the gray area. Add the course description information from the <i>Standard Course of Study</i> for the course.</p> <p>For other honors science courses (e.g. anatomy and physiology) it is a local responsibility to write the course description.</p>	<p>This course is for students who are interested in a more detailed study of the structures and functions of the human body. Class lectures will include the study of cells, biochemistry, and molecular biology and provide an understanding of the cardiovascular, respiratory, lymphatic, immune, digestive, urinary and reproductive systems in the human body. Metabolism, nutrition, body heat regulation, body fluid regulation, human growth and development, and heredity are studied in this course as well. Laboratory dissection is used to complement the lectures, discussions, and demonstrations.</p>	

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<p>(Area will expand to needed size. Insert any further locally established requirements, if any.</p>	
<p>Course Goals and Objectives</p> <p>Refer to Science Standard Course of Study; Develop locally for electives which do not have a Standard Course of Study on the NCDPI web site.</p>	<p>Upon completion of this course, the student will be able to:</p> <ol style="list-style-type: none"> 1. Use appropriate anatomical terminology as it relates to regions, directions, body planes, and cavities of the body. 2. Understand homeostasis and how it is controlled in the human body. 3. Understand the basic concept of chemistry such as atomic and molecular structure. 4. Understand the anatomy and physiology of a cell. 5. Understand the different types of tissues and their significance to the human body. 6. Understand the anatomy and physiology of the human body systems: skeletal, integumentary, muscular, nervous, endocrine, circulatory, lymphatic, respiratory, digestive, urinary, and reproductive systems. 7. Understand the special senses of the human body. 8. Be able to solve clinical and laboratory problems verbally and effectively through writing. 9. Be able to use technology to research information on human anatomy and physiology. 10. Be able to work in laboratory and group situations to complete assignments.
<p>Concepts</p> <p>Identify main concepts for learning selected from the suggested enrichment topics.</p>	<p>See course goals and objectives.</p>
<p>Issues Particular to the Course</p> <p>List issues</p>	<p>? Enforce lab safety before dissection</p> <p>? Alternatives to dissection if a student is unable to participate in the actual class dissection.</p> <p>? Insufficient funds for appropriate laboratory models and equipment to supplement student learning.</p>

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<p>particular to this course and discuss how you plan to deal with them.</p>	<p>? Adequate time during the semester for students to conduct individual research on selected body systems disorders.</p>
<p>Expectations of Performance</p> <p>Explain how expectations of performance are appropriate for an honors course.</p>	<p>? Demonstrate knowledge of body systems by independently completing case studies pertaining to the body system being studied.</p> <p>? Demonstrate knowledge of course information by solving clinical application problems.</p> <p>? Demonstrate knowledge of medical terminology by correctly using them in conversations and explanations of the various course topics.</p>
<p>Assignments</p> <p>Provide selected assignments and explain how they are appropriate for an honors course.</p>	<p>? Vocabulary quizzes- to reinforce terminology that is used in the medical field.</p> <p>? Study Guides- to help students review material and study for a test.</p> <p>? Clinical Case Studies- Present the student with a patient’s history, a patient’s family history, and the results of a patient’s physical examination that will lead the student to making a diagnosis and then providing support and research on their diagnosis.</p> <p>? Dissections w/lab practicums- to familiarize the students with the major organs, the arteries, veins, and other structures of the human body.</p> <p>? Clinical Application questions from textbook- presents the student with a real life scenario for the student to diagnose the patient based upon his/her symptoms.</p> <p>? Systems Disorders presentations- students will select a disorder for every system of the body studied to research and present to the class.</p> <p>? Textbook chapter review questions</p>
<p>Timetables and Deadlines; Pacing Guide</p>	<p>Course Syllabus attached.</p>
<p>Assessments</p> <p>Explain how students will be assessed in the course and attach selected assessments</p>	<p>? Chapter Vocabulary Quizzes</p> <p>? Written Chapter Tests</p> <p>? Clinical Application Questions from textbook</p> <p>? Case Studies for each body system</p> <p>? Oral communication of course topics</p> <p>? Chapter worksheets and assignments</p> <p>? Chapter Review Questions</p>

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and rubrics.	
System for Grading	Grading System included in course syllabus.
Instructional Materials, Equipment, and Technologies List texts, materials and technology needed for the course.	? Textbook: <i>Essentials of Human Anatomy & Physiology</i> by Elaine Marieb. ? Textbook companion website ? <i>Essentials of Human Anatomy & Physiology</i> Instructor's Guide ? <i>Essentials of Human Anatomy & Physiology</i> Test Bank ? <i>Essentials of Human Anatomy & Physiology</i> Media Files and CDs. ? Internet sites ? Skeleton Model ? Internet Sites ? Videos covering major body systems and diseases ? Laptops ? Overhead projector ? Lab equipment

Submitted _____
Teacher signature *Date*

Approved _____
Administrator signature *Date*

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