

Human Biology

Course Syllabus

Instructor Information

Name: Michelle Carlson

Email: mcarlson@northidahostem.org



Course Description

Human Biology

1 semester (Fall)

1 credit

Grade 9-12

Human Biology course is college preparatory interdisciplinary exploration of the human organism, encompassing its structure and function. It covers topics ranging from genetics and physiology to development, and human health. This course is designed to provide a broad understanding of the human body and its systems.

Students will gain a comprehensive understanding of the human body's structure and function. They will be able to apply scientific principles to understand human health and disease. Students will develop an appreciation for the complexity and interconnectedness of human biology.

Curricular Information

Required Reading: Textbooks, scientific articles and laboratory instructions will be provided in class.

Recommended Resource: Anatomy and Physiology Coloring Book by Anatomy Academy
https://www.amazon.com/Anatomy-Physiology-Coloring-Book-Incredibly/dp/1914207041?ref_=ast_author_dp

Standards: The following link will take you to the Idaho State Standards for this course: [Idaho Content Standards for Science](#). Out of those standards, this course will cover the following standards:
HS-LS-1.1, HS-LS-1.2, HS-LS-1.3, HS-LS-1.4, HS-LS-1.7

Supplies Required for this Course:

Colored pencils, blue pen
Graph paper
3 ring binder

Gloves (optional paper masks)
Highlighters
Divider tabs

Notebook Checks:

The notebooks are for organizing materials for your reference. We will be using the notebook throughout the course. The notebook will be graded for this class. Emphasis will be placed upon notetaking techniques and will be the primary emphasis of notebook grades.

Notebook grading rubric:

Notebook should have tabs indicating different units, a table of contents, and each page should have a date and page number.

Notetaking Criteria	Excellent (4)	Good (3)	Needs Improvement (2)	Incomplete (1)
Notes Content and Detail	Notes are comprehensive, detailed, and accurate. All major concepts are covered.	Notes cover most major concepts but lack depth in some areas.	Notes are incomplete and miss major concepts.	Notes are minimal, incomplete, and lack clarity.
Notes Organization	Notes are well-organized with clear structure. Diagrams are relevant and well-labeled.	Notes are organized with some diagrams, but may lack clarity.	Notes are poorly organized or lack proper structure.	Notes are disorganized and hard to follow.
Use of Key Terms	All key terms and concepts are clearly defined and used correctly.	Most key terms and concepts are defined. A few are unclear.	Key terms are defined, but many are missing or used incorrectly.	Key terms are missing or used inaccurately.
Cue/Question Section	Thoughtful and relevant questions, accurately aligned with the notes.	Questions are relevant but may lack depth or clarity.	Questions are somewhat relevant, but may be unclear or too general.	No questions or questions are irrelevant.
Summary Section	Summary clearly captures the essence of the material and is well-written.	Summary is mostly clear but may miss some key points.	Summary lacks clarity and misses several important details.	No summary or summary is very vague.

Notebook Organization Criteria	Excellent (4)	Good (3)	Needs Improvement (2)	Incomplete (1)
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Missing Work	No sections of the notebook are missing.	One section of the notebook is missing items.	Two sections of the notebook are missing items.	Three or more sections of the notebook are missing items.
Headers/ Footers	No required header(s) and/or footer(s) are missing within the notebook.	One or two required header(s) and/or footer(s) are missing within the notebook.	Three or four required header(s) and/or footer(s) are missing within the notebook.	More than four required header(s) and/or footer(s) are missing within the notebook.
Organization	All assignments and/or notes are kept in a logical or numerical sequence.	One or two assignments and/or notes are not in a logical or numerical sequence.	Three or four assignments and/or notes are not in a logical or numerical sequence.	More than four assignments and/or notes are not in a logical or numerical sequence.
Neatness	Overall notebook is kept very neat.	Overall notebook is kept in a satisfactory condition.	Overall notebook is kept in a below satisfactory condition.	Overall notebook is unkept and very disorganized.

Daily Time and Effort Expectations:

The most common problems that students have is understanding that daily preparation and study are the key to success. Studying for classes involves more than just “cramming the night before a test.” Chapter reviews are provided at the end of each chapter and study resources are also posted on Google classroom for each section of material that we study.

One should expect a **minimum** of 2 hours of outside study per week on this course. Exams and quizzes require additional preparation times above and beyond that minimum.

Suggestions for Success:

The following are suggestions to help you to maintain or improve your grade in this course.

1. Show up on time to class EVERY DAY. Tardies and absences contribute to lost learning experiences that cannot be recovered just by making up assignments.
2. Bring all required materials and a good attitude.
3. Keep up from the get go. It is extremely difficult to get out of a hole later on.
4. Keep your handouts, lecture notes, and study questions organized in a notebook.

Course Schedule:

<u>Unit/ #Weeks</u>	<u>Topic(s) Covered</u>	<u>Labs/Projects</u>
Human Body Orientation 3 weeks	Notetaking and Organization Organization of the Human Body and Body Systems Anatomical Terminology	Body Systems Project
Cells and Membranes 2 weeks	Cellular Organelles Membrane Dynamics Microscope Techniques	Animal Cells Microscope Parts Observing Human Cheek Cells and Onion Root Tips
Integumentary System 2 weeks	Integumentary Structure Accessory Organs of the Skin	Skin Disorder Projects Integumentary System Structure and Sensitivity Laboratory
Muscular System 2 weeks	Muscle Anatomy Contraction Physiology Movement & Muscles	Muscles and Your Body Tour of the Muscular System Personal Trainer Project
Nervous System and Special Senses 3.5 weeks	Neural Physiology Brain and Divisions of the Nervous System Neurological Disorders Sensory Systems Optical Illusions	Nervous System Investigation Stations Neurological Disorders Project Sensory Experiment Project Virtual Cow Eye Dissection
Endocrine System 2 weeks	Endocrine System Glands and Functions Types of Hormones Case Studies in Endocrine Physiology	Endocrine Excitement Lab Two Endocrine Case Studies Glandular High School Yearbook Page
Immune System 2 weeks	Immune Functions, Organs and Disorders Immunity, Infectious Diseases and Defenses	Immunology Guided Practice Disease Reports
Semester End 1.5 weeks	Medical Procedures Research Project and Presentation	

Google Classroom:

Google classroom will be used primarily as a resource. Schedules for each unit will be found there that are hyperlinked to source material. There may be a few assignments completed online, but most work

will be done on paper. A printable calendar will be provided for every unit. Please feel free to print it out to review due dates and upcoming tests, projects, and quizzes.

Grading Scale

<i>Grade</i>	<i>Percentage</i>	<i>Proficiency descriptors</i>
A+	97-100	Assignments are fully completed in a timely manner and of excellent quality; the student shows superior level of initiative and seeks to <u>go beyond the minimum requirements</u> . Errors are rare or nonexistent.
A	93-96	
A-	90-92	
B+	87-89	Assignments are fully completed in a timely manner and typically of above average quality; the student is conscientious and meets all requirements with few errors.
B	83-86	
B-	80-82	
C+	77-79	Assignments are generally complete (met minimum requirements) and of good quality; assigned tasks have occasional errors.
C	73-76	
C-	70-72	
D+	67-69	Assignments are generally incomplete or of poor quality; the student makes frequent errors in work.
D	63-66	
D-	60-62	
F	0-59	Work is poorly done, if at all. Overall performance is inadequate to pass the course. Note: No name = No credit Illegible = No credit Late = No credit (will <u>STILL</u> complete and submit the assignment)

Course Evaluation:

The percentage breakdown for evaluation will be as follows:

Skills Practice	35%
Includes, but not limited to: Classwork, some labs (demonstrations), and homework	
Assessments	50%
Includes, but not limited to: Tests, quizzes, projects, and formal labs	
Cumulative Final Project or Exam:	15%

Classroom Policies and Expectations:

Students are expected to adhere to the classroom rules set by the teacher in their assigned classroom or grade level, as well as to set the example for others in accordance with the North Idaho STEM Charter Academy Student Handbook. Professional appearance and behavior should be demonstrated at all times by students serving in this role. Assigned mentor teacher(s) will include observations about appearance and behavior in their evaluations.

Academic Honesty Policy:

“On my honor, I will maintain the highest possible standards of honesty, integrity, and personal responsibility. This means I will not lie, cheat, or steal, and as a member of this academic community, I am committed to creating an environment of respect and mutual trust.”

Violations of this code include, but are not limited to:

- Copying another student’s work or allowing your work to be copied
- Allowing someone other than yourself to complete work in your name
- Using unauthorized assistance on an assessment
- Allowing someone other than yourself to take an assessment
- Falsifying or manipulating data
- Submitting the same work for multiple courses without instructor’s permission
- Giving answers to other students
- Lying to an instructor
- Plagiarism: direct copying is plagiarism. Only original work may be submitted for an academic course.
- Tampering with or destroying the work of another student

Consequences for Academic Dishonesty:

At the instructor’s discretion, the student **will** lose partial or full credit for the assignment. Student will be on notice that the incident will be recorded in the gradebook and parent will be informed. Future academic dishonesty incidents will result in a grade of zero for the assignment, a meeting with the principal, and possible loss of credit, suspension, or expulsion. Direct copying is plagiarism. Only original work may be submitted for this (and any other) academic course. If you have any questions about avoiding plagiarism, please visit the [OWL at Purdue's "Avoiding Plagiarism" web page.](#)