



Human Anatomy & Physiology Course Syllabus 2026-2027

Instructor: Mr. Spykstra

Email: seth.spykstra@dc.ascentcolorado.org

Room: Lab 1, room 263

Textbook: Human Anatomy & Physiology Elaine N. Marieb 11th Edition

Prerequisites: Biology, Chemistry, and Physics

ACC Equivalent Course: BIO 1004: Biology: A Human Approach: SC1

Course Description

Develops a basic knowledge of the structure and function of the human body by studying the body's structure as a series of interrelated systems. Includes cardiovascular, respiratory, digestive, lymphatic, musculoskeletal, nervous, endocrine, reproductive and urinary systems, and genetics. Emphasizes disease prevention and wellness. This course includes laboratory experience. This is a statewide Guaranteed Transfer course in the GT-SC1 category.

Required Course Learning Outcomes (Competencies)

1. Describe homeostasis and the interrelatedness of the body systems.
2. Identify the major body systems and their function(s).
3. Identify the components and their function of the major body systems.
4. Identify the basic components of disease prevention and wellness of each body system.
5. Describe the basic role of genetics in health and disease.

Topical Outline

1. Scientific method
2. Levels of biological organization
3. Anatomical terms, directions, cavities, and position
4. Homeostasis and disease
5. Basic chemistry
6. Introduction to cells
7. Histology
8. Integumentary system
9. Digestive system

10. Metabolism and nutrition
11. Cardiovascular system
12. Lymphatic system
13. Immune system
14. Urinary system
15. Muscular system
16. Skeletal system and articulations
17. Endocrine system
18. Senses
19. Nervous system (Central, Autonomic, Peripheral)
20. Reproductive system
21. Development and genetics

Human Anatomy & Physiology Units:

Fall Semester	Spring Semester
Unit 1: Organization of the Body <i>Ch. 1 Human Body Orientation</i> <i>Ch. 2 Organic Chemistry Overview</i> <i>Ch. 3 Cells</i> <i>Ch. 4 Tissues</i> Unit 2: Covering, Support, and Movement of the body <i>Ch. 5 Integumentary System</i> <i>Ch. 6 – 8 Skeletal System and joints</i> <i>Ch. 9 – 10 Muscular System</i> Unit 3: Regulation and Integration of the Body <i>Ch. 11 Fundamentals of Nervous System</i> <i>Ch. 15 Special Senses</i>	<i>Ch. 16 The Endocrine System</i> Unit 4: Maintenance of the Body <i>Ch. 18 Cardiovascular System</i> <i>Ch. 20 Lymphatic System</i> <i>Ch. 21 The Immune System</i> <i>Ch. 22 The Respiratory System</i> <i>Ch. 23 The Digestive System</i> <i>Ch. 25 The Urinary System</i> <i>Ch. 27 The Reproductive System</i> <i>Ch. 29 Heredity</i>

Grading Policy for Quarters:

Scholarship **15%**

Formative Assessment **30%**

Summative Assessment **55%**

Grading Policy for Semesters:

Fall Semester:

Quarter 1 **40%**

Quarter 2 **40%**

Midterm **20%**

Spring Semester:

Quarter 3 **40%**
Quarter 4 **40%**
Final **20%**

Additional Grading Notes:

- Spelling and grammar count. If I cannot read or understand something, I cannot grade it, and it will receive a zero..

Grading Scale in all cases:

As	Bs	Cs	Ds/F
A = 94.0 – 100+%	B+ = 87.0 – 89.9%	C+ = 77.0 – 79.9%	D+ = 67.0 – 69.9%
A- = 90.0 – 93.9%	B = 84.0 – 86.9 %	C = 74.0 – 76.9 %	D = 64.0 – 66.9 %
	B- = 80.0 – 83.9 %	C- = 70.0 – 73.9 %	D- = 60.0 – 63.9 %
			F = 0.0 – 59.9%

Late Homework

All assignments are expected to be turned in on time. One of the responsibilities of homework is to teach students responsibility and accountability. In order to accomplish this, and to ensure students do not fall behind on their schoolwork, it is essential that students complete their work on time. Students who have an excused absence will have the number of days equal to the number of days absent to make up class and homework without penalty up to 7 days. Homework will not be sent home nor will credit be awarded for any work done during periods of unexcused absence.

In the Upper School, homework submitted one day late will receive 75% credit and two days late will receive 50% credit. Homework submitted more than two days late will not receive credit. (Policy AP-14.0 Board Policies Handbook)

Labs (this is a hands-on lab course):

Students will conduct numerous labs to bolster science literacy and complement the textbook assignments, classroom activities, and projects. Overall class behavior determines the number of labs versus teacher demonstrations. The goal of a lab is to enhance instruction, not to play. These labs enable students to master science concepts, develop scientific reasoning, and work as a team. Lab work is offered as subject matter and health requirements permit. Most labs CANNOT be made up. If you miss a graded experiment, either an **alternative assignment** will be offered, or no grade will be applied for the student. Some labs will be graded based on completion and others based on correctness.

Absences

If a student is absent for class, it is always the responsibility of the student to find out what material was missed and work with the instructor to determine when missed work is due.

Students have one day for each day they missed to inquire about, complete, and submit missing work. For example, if a student misses Tuesday, he should ask about missed assignments on Wednesday and turn that work in on Thursday. Assignments turned in on Friday would not receive credit (Policy SE1.0, Attendance, Board Policies Handbook).

Academic Honesty

Cheating, plagiarism, and other forms of academic dishonesty will not be tolerated. Any instance of plagiarism discovered in a submitted work will result in disciplinary action and a failing grade on the relevant assignment. The use of artificial intelligence is strictly forbidden.

Class Discipline

To maintain an orderly and disciplined learning environment, teachers will implement the following progression when addressing Level 1 classroom behaviors:

- 1. Verbal Warning**

"[Student Name], please stop talking out of turn."

- 2. Written Warning**

"[Student Name], your name is going on the board for being disruptive to the learning environment."

- 3. Strike Issued**

"[Student Name], please report to the Dean of Upper School's office. I am issuing you a strike."

Any student who is directed to report to Mr. Blaha or Mr. Spykstra's office for a Level 1 classroom behavior will be issued a strike.

For a student's **first Level 1 strike each semester**, the classroom teacher will notify the student's parent(s) by email and copy Mr. Blaha and Mr. Spykstra.

For a student's **second and subsequent Level 1 strikes** during the semester, Mr. Blaha and/or Mr. Spykstra will contact the student's parent(s) by phone.

Students who accumulate three strikes will be placed on the school's Escalation Policy in accordance with the Upper School discipline procedures.

For additional information regarding the discipline policy, including definitions of Level 1 and higher-level behaviors, please contact the Dean of Upper School, Mr. Blaha.

Teacher Website

I have created a teacher website primarily for parent and student use. The website includes information about me, contact information, important links, and the weekly class schedule,

including homework assignments. This website will serve as my primary form of weekly communication for the class.

The link to the website can be found on the school website under my teacher profile. You may also access it directly here: <https://sites.google.com/dc.ascentcolorado.org/mr-spykstra/home>

Syllabus Acknowledgement – Human Anatomy and Physiology (12th Grade)

Student, please sign below, turn in for Mr. Spykstra to sign, and upon return **KEEP** in your notebook for the entire year to refer to.

I have read this syllabus and clearly understand student expectations regarding academics and classroom procedures. This document also serves as my written confirmation of the expectations of academic integrity and the consequences of academic dishonesty.

STUDENT:

Name (Printed): _____

Signature: _____

Date: _____

PARENT / GUARDIAN:

Name (Printed): _____

Signature: _____

Date: _____

TEACHER: (teacher will fill out this section and hand back to the student)

Name (Printed): _____

Signature: _____

Date: _____