

Term Information

Effective Term Autumn 2025

General Information

Course Bulletin Listing/Subject Area Anatomy
Fiscal Unit/Academic Org Biomedical Education & Anatomy - D2502
College/Academic Group The College of Medicine
Level/Career Undergraduate
Course Number/Catalog 2150
Course Title Pop Culture Anatomy and Physiology
Transcript Abbreviation PopCulture Anatomy
Course Description Pop culture includes icons from movies, TV shows, books, & comics. Often, pop culture showcases anatomy and medicine through inaccurate depictions or anatomical modifications are justified as "fantasy elements" and not explained using current anatomic knowledge. The Pop Culture Anatomy course is a 3 CH course that teaches systemic human anatomy and physiology using characters from pop culture.
Semester Credit Hours/Units Fixed: 3

Offering Information

Length Of Course 14 Week, 12 Week, 8 Week
Flexibly Scheduled Course Never
Does any section of this course have a distance education component? No
Grading Basis Letter Grade
Repeatable No
Course Components Lecture
Grade Roster Component Lecture
Credit Available by Exam No
Admission Condition Course No
Off Campus Never
Campus of Offering Columbus, Lima, Mansfield, Marion, Newark

Prerequisites and Exclusions

Prerequisites/Corequisites None
Exclusions None
Electronically Enforced No

Cross-Listings

Cross-Listings

Subject/CIP Code

Subject/CIP Code 26.0403
Subsidy Level Baccalaureate Course
Intended Rank Freshman, Sophomore, Junior, Senior

Requirement/Elective Designation

Health and Well-being

Course Details

Course goals or learning objectives/outcomes

- Successful students will analyze an important topic or idea at a more advanced and in-depth level than in the Foundations component.
- Successful students will integrate approaches to the theme by making connections to out-of-classroom experiences with academic knowledge or across disciplines and/or to work they have done in previous classes and that they anticipate in the future.
- Students will explore and analyze health and wellbeing through attention to at least two dimensions of wellbeing. (e.g., physical, mental, emotional, career, environmental, spiritual, intellectual, creative, financial, etc.)
- By the end of this course, students will be able to: 1. Develop a vocabulary of anatomical terminology
- By the end of this course, students will be able to: Explain how anatomical structures relate to functions
- By the end of this course, students will be able to: Name and describe the basic systems of the human body, including their function and structure
- By the end of this course, students will be able to: Evaluate material in pop culture (anatomy, physiology, medicine) and determine if it is feasible, or how it could become possible in the future
- By the end of this course, students will be able to: Apply knowledge of the human body to medicine, health, and personal wellbeing.
- By the end of this course, students will be able to: Synthesize and present anatomic knowledge in a concise, effective manner.

Content Topic List Sought Concurrence

- Anatomy, Physiology, Pop Culture
- No

Attachments

- Anatomy 2150 syllabus submitted.pdf
(Syllabus. Owner: Barton, Melody A)
- GE Theme course submission worksheet- Health & Wellbeing.pdf
(Other Supporting Documentation. Owner: Barton, Melody A)

Comments

Workflow Information

Status	User(s)	Date/Time	Step
Submitted	Barton, Melody A	06/18/2024 03:23 PM	Submitted for Approval
Approved	Clinchot, Daniel Michael	06/18/2024 03:26 PM	Unit Approval
Approved	Clinchot, Daniel Michael	06/18/2024 03:26 PM	College Approval
Pending Approval	Jenkins, Mary Ellen Bigler Hanlin, Deborah Kay Hilty, Michael Neff, Jennifer Vankeerbergen, Bernadette Chantal Steele, Rachel Lea	06/18/2024 03:26 PM	ASCCAO Approval

Anatomy 2150 – Pop Culture Anatomy & Physiology

AU 2025, 3 credits

Instructor: Madeline Parker, PhD

Email: parker.801@osu.edu

Office Hours: by appointment only

Description / Rationale

Lecture Meetings: 55 minute lecture, 3 days a week

Lecture location: TBD

Course Overview

Description / Rationale

Pop culture includes icons from movies, television shows, books, and comics. Frequently, pop culture showcases anatomy and medicine through inaccurate dramatizations or anatomical modifications are justified as “fantasy elements” and not explained using current anatomic knowledge. The Pop Culture Anatomy course is a three-credit hour course that teaches systemic human anatomy and physiology using characters from pop culture. The lectures will introduce normal human anatomy and physiology and then examine characters in pop culture or medical shows, with discussions on what is possible either through biological adaptation or technology.

Course Format

This course is taught in-person with 55-minute lectures three times a week. The first half of each lecture will introduce the anatomy and physiology. The second half of each lecture will introduce the pop culture characters and discussion.

Credit Hours and Work Expectations

This is a 3-credit-hour course. According to Ohio State policy, students should expect around 3 hours per week of time spent on direct lecture instruction (lecture content and activities), and about 6 hours of homework (reading and other assignments, preparation, etc.) to receive a grade of (C) average. More time invested generally corresponds to a higher grade.

Prerequisites

There are no course prerequisites.

Course Organization

The course is divided into five units, each of which covers different systems of the human body.

Unit 1: General Terminology, General Chemistry and Biology, Tissues, Molecular Biology

Unit 2: Musculoskeletal System

Unit 3: Nervous System

Unit 4: Lymphatic, Endocrine, Integumentary, Respiratory, and Cardiovascular Systems

Unit 5: Digestive, Urinary, and Reproductive Systems, Human Health and Medicine, Special Topics

Course Objectives

By the end of this course, students will be able to:

1. Develop a vocabulary of anatomical terminology
2. Explain how anatomical structures relate to functions
3. Name and describe the basic systems of the human body, including their function and structure
4. Evaluate material in pop culture (anatomy, physiology, medicine) and determine if it is feasible, or how it could become possible in the future
5. Apply knowledge of the human body to medicine, health, and personal wellbeing.
6. Synthesize and present anatomic knowledge in a concise, effective manner.

This course fulfills a GE Theme: Health and Wellbeing requirement.

New General Education (GEN) Goals and ELOs (as of AU 2022):

Theme: Health and Wellbeing	
Goals	Expected Learning Outcomes
GOAL 1: Successful students will analyze an important topic or idea at a more advanced and in-depth level than in the Foundations component.	Successful students are able to ...
	1.1 Engage in critical and logical thinking about the topic or idea of the theme. 1.2 Engage in advanced, in-depth, scholarly exploration of the topic or idea of the theme.
GOAL 2: Successful students will integrate approaches to the theme by making connections to out-of-classroom experiences with academic knowledge or across disciplines and/or to work they have done in previous classes and that they anticipate doing in future.	2.1 Demonstrate a developing sense of self as a learner through reflection, self-assessment, and creative work, building on prior experiences to respond to new and challenging contexts.
	2.2 Demonstrate a developing sense of self as a learner through reflection, self-assessment, and creative work, building on prior experiences to respond to new and challenging contexts.
GOAL 3: Students will explore and analyze health and wellbeing through attention to at least two dimensions of wellbeing. (e.g., physical, mental, emotional, career, environmental, spiritual, intellectual, creative, financial, etc.)	3.1 Explore and analyze health and wellbeing from theoretical, socio-economic, scientific, historical, cultural, technological, policy, and/or personal perspectives.
	3.2 Identify, reflect on, or apply strategies for promoting health and wellbeing.

In Pop Culture Anatomy, students meet the GE Learning Objectives in multiple ways. Students gain an understanding of the foundations of human anatomy and physiology. They then will pick a topic and explore an aspect of anatomy in further detail through their final paper. Students will critically think about anatomy by analyzing characters in pop culture and explaining their 'superhuman' or abnormal anatomy during exams, lecture discussions, and the final paper. Students will learn about the basics of disease and anatomical abnormalities, discuss methods to improve health to prevent diseases, and learn how to critically evaluate outside resources. Through the final paper, students will develop a sense of

self as a learner, learn how to give and receive critiques, and learn how to successfully utilize constructive criticism.

Course Materials

Required

All required readings will be available through Carmen.

Recommended but not required

There will be no required readings or textbook-based assignments for this class, but it may be helpful to have a textbook to reference. Students are recommended to have access to at least one of these texts. Class lectures will closely follow the Marieb text.

- *Essentials of Human Anatomy & Physiology, 13th Edition* (2022); Marieb and Keller.
ISBN-13: 978-0137375561
ISBN-10: 0137375565
- *Netter's Essential Systems-Based Anatomy, 1st Edition* (2022); Virginia T Lyons.
ISBN-13: 978-0323694971
ISBN-10: 9780323-694971

Note: This book can be found for free through *Clinical Key* on the Prior Health Sciences Library's website: <https://hsl.osu.edu>

Course Requirements/Evaluation

Grades

Assignment / Category	Points / %
Beginning of course Pre-Quiz	15 pts/ 3%
Attendance/Participation (5 pts each, 20 highest)	100 pts/22 %
Unit quizzes (5 Unit quizzes, 25 pts each)	125 pts/ 28%
Cumulative Final Exam	50 pts/ 11%
Final Paper (All components)	130 pts / 29%
Final Paper Topic	10 pts/ 2%
Final Paper Draft	35 pts/ 8%
Final Paper Peer Review	25 pts/ 6%
Final Paper	60 pts/ 13%
Paper Presentation	30 pts/ 7%
TOTAL	450 pts/100%

See below for assignment descriptions and due dates.

Late Assignments

- There are NO makeup assignments for class attendance or participation.
- Students can make up a missed quiz or exam within 2 weeks of the original due-date. Missed quizzes and exams can be made up for full credit in extreme cases with documentation. If there is no documentation or it is an unexcused absence, then students will automatically lose 20% of credit off their score.

- The final paper can be submitted late, but students will lose 5% off their score for each day late (i.e., if the paper is 4 days late, the student will lose 20% of their final paper grade.)
- The paper presentation cannot be made up unless there are extreme extenuating circumstances, at the instructor's discretion.

Grading Scale

93–100: A
90–92.9: A-
87–89.9: B+
83–86.9: B
80–82.9: B-
77–79.9: C+
73–76.9: C
70–72.9: C-
67–69.9: D+
60–66.9: D
Below 60: E

Assignment Descriptions

Beginning of Course Pre-Quiz

- This multiple-choice quiz will be a pre-test of material that will be taught during the semester. It will be used to gauge prior knowledge that students have before the class.
- This quiz will be graded based on completion, not accuracy.
- The quiz will be administered on Carmen during the first lecture period. It will only be open during class time.

Attendance/Participation

- Attendance will be taken every lecture.
- The highest 20 attendance scores will be counted towards the grade. Any additional scores will be dropped (approximately 6, but this may change based on the semester's schedule).
- This class relies on student discussion and participation. Students will receive 5 points for attending class, being on time, and participating either using the online quizzes (administered through Menti) or by speaking up in class. Points will be deducted for tardiness, not participating, or being disruptive.

Unit Quizzes

- At the end of each unit, there will be a 25-point quiz. This quiz will be primarily multiple choice and matching questions. These quizzes will be administered using Carmen and Respondus LockDown Browser, during class time.
- These quizzes will cover normal human anatomy and physiology, as well as using normal anatomy to explain characters in pop culture. Quizzes will only cover material in the current unit – they will not be cumulative.

Final Exam

- There will be an in-class final exam administered during the last lecture period of the semester using Carmen and Respondus LockDown Browser..
- This exam will be cumulative, with questions similar to the Pre-Quiz and the Unit Quizzes.

Final Paper

- The final paper must be written individually, WITHOUT the use of generative AI. You MAY utilize the Writing Center for assistance, but all ideas and sentences should be your own.
- **Topic: Choose one superpower or character from pop culture and write a 4-5 page paper explaining and synthesizing the anatomy and physiology behind that specific power/character.**
 - The paper should be written as if someone who is not in this class is reading it – meaning you should explain the topics and points enough for anyone to understand it.
- Content of the paper should include:
 - Describing how the organs vary from a normal human and any systems that work differently than a normal human.
 - Explain how the changes work (using comparative anatomy, various genetic mutations, technology, or creative ideas that can explain the powers).
 - Explain what issues would arise in a normal human from these powers (ion deficiencies, effects on various systems, structure sizes, etc.)
 - Explaining how you believe this power can be obtained (if not naturally born with the power).
 - Provide background information on the character / superpower you are writing about. If doing a superpower, please refer to certain heroes that are known to have this power. If relevant, explain how they obtained the power.
 - All requirements that are on the rubric located on Carmen.
- Cite any sources in APA format, including in-text citations and a reference list.
 - Books, articles, etc. that have been posted on Carmen or used in this course are fair to be used for this paper, but a major portion of this paper is seeing what ideas you can come up with based on what has been taught in the class. Creativity and originality are important for this paper.
- You do NOT need an abstract, keywords, or table of contents (common sections in APA style papers).
- Important notes: Examine systems beyond the most obvious system for your super power / character. For example, if you are studying super speed, you should talk about more than just adjustments to the musculoskeletal system. You should go into detail about other aspects of the powers like the nervous system, digestive system, cardiovascular system, respiratory system, etc.
- More details will be released later in the semester.
- For the paper, there will be 3 other assignments leading up to this:
 - **Paper Topic**
 - Here you will submit the topic for your paper.
 - **Paper Draft**
 - Submit a draft of your paper online to allow the instructor and a peer to give feedback on what you have submitted so far. Your paper does not need to be fully completed, but it should include at least ½ of the paper and a detailed

outline for the rest of the paper (including major points and subpoints, along with sources).

- **Peer Review**
 - Here each person will leave feedback on your assigned peer's paper. This should include things you would like to see added, changed, expanded on, grammar, etc. This is also a place to ask questions on each other's topics – either asking more questions about their explanations or asking for explanations for certain things. Remember – this is constructive criticism, so be polite, but helpful.
- **Final Paper**
 - You will submit your completed final paper onto Carmen. It should include all necessary features and requirements listed in the syllabus, on the assignment page on Carmen, and described in the rubric on Carmen.

Paper Presentation

- Students will create a 10-minute powerpoint presentation on their paper, to be presented during the last week of class.
- Presentations will include:
 - Overview of their pop culture character / superpower
 - Explanation of changes necessary to create this character / power
- Rubric and additional assignment instructions will be posted to Carmen.

Course Policies

Communication

The university's official mode of communication is via university email. Students should use their buckeyemail when emailing their professor, and faculty will use their OSU email when emailing students.

The following are my expectations for how we should communicate as a class. Above all, please remember to be respectful and thoughtful.

- **Writing style:** While there is no need to participate in class discussions as if you were writing a research paper, you should remember to write using good grammar, spelling, and punctuation. Informality (including an occasional emoticon) is fine for non-academic topics.
- **Tone and civility:** Let's maintain a supportive learning community where everyone feels safe and where people can disagree amicably. Remember that sarcasm doesn't always come across online.
- **Citing your sources:** When we have academic discussions, please cite your sources to back up what you say. (For the textbook or other course materials, list at least the title and page numbers. For online sources, include a link.)
- **Backing up your work:** Consider composing your academic posts in a word processor, where you can save your work, and then copying into the Carmen discussion.

Response Times: I am providing the following list to give you an idea of my intended availability throughout the course. (Remember that you can call **614-688-HELP** or use 8help@osu.edu at any time if you have a technical problem.)

- **Grading and feedback:** For large weekly assignments, you can generally expect feedback within **7 days**.
- **E-mail:** I will reply to e-mails within **24 hours on school days**. Emails sent on Friday after 12:00PM (noon) will be replied to on the following Mondays. Be aware that questions sent at the last minute or late at night may not be answered in time to help you.
- **Discussion board:** I will check and reply to messages in the discussion boards every **24 hours on school days**.

Netiquette

As a member of a community of learners, it is your responsibility to exhibit professional behavior and decorum in all modes of communication. Following the rules of etiquette on the Internet (netiquette) helps improve the readability of your messages, keeps conversations focused, increases trust, and creates a more positive experience for all participants. Netiquette includes, but is not limited to, the following guidelines:

- Honor people's rights to their opinions; respect the right for people to disagree.
- Be professional; use language that is not considered foul or abusive.
- Respond to peers honestly but thoughtfully, respectfully, and constructively.
- Avoid writing in all caps – it conveys shouting and anger.
- Avoid colors like red and green for accessibility reasons; avoid font styles, colors, and sizes that are difficult to read.
- Address the ideas, not the person, when responding to messages or discussions.
- Be careful when using sarcasm or humor – without social cues like facial expressions or body language, a remark meant to be humorous could come across as offensive or hurtful.
- Don't distribute copyrighted materials, such as articles and images (most things online are not licensed as "fair use"). Share links to those materials instead and be sure to properly cite all sources to avoid unintentional plagiarism.

Technology

For help with your password, university e-mail, Carmen, or any other technology issues, questions, or requests, contact the OSU IT Service Desk. Standard support hours are available at <https://ocio.osu.edu/help/hours>, and support for urgent issues is available 24x7.

- **Self-Service and Chat support:** <http://ocio.osu.edu/selfservice>
- **Phone:** 614-688-HELP (4357)
- **Email:** 8help@osu.edu
- **TTY:** 614-688-8743

Technology necessary for this course:

- Computer or ipad with high-speed internet connection, webcam, and microphone
- Microsoft Office 365: All Ohio State students are now eligible for free Microsoft Office 365 ProPlus through Microsoft's Student Advantage program. Full instructions for downloading and installation can be found at go.osu.edu/office365help.
- **Respondus Lockdown Browser**

LockDown Browser Requirement

This course requires the use of LockDown Browser for online exams. Watch this video to get a basic understanding of LockDown Browser: <https://www.respondus.com/products/lockdown-browser/student-movie.shtml>

Download Instructions

Download and install LockDown Browser from this link:

<https://download.respondus.com/lockdown/download.php?id=462913331>

Once Installed

- Start LockDown Browser
- Log into to Canvas
- Navigate to the exam

Note: You won't be able to access an exam that requires LockDown Browser with a standard web browser. If this is tried, an error message will indicate that the test requires the use of LockDown Browser. Simply start LockDown Browser and navigate back to the exam to continue.

Getting Help

Several resources are available if you encounter problems with LockDown Browser:

- The Windows and Mac versions of LockDown Browser have a "Help Center" button located on the toolbar. Use the "System & Network Check" to troubleshoot issues.
- Respondus has a Knowledge Base available from support.respondus.com. Select "LockDown Browser & Respondus Monitor" as the product to view helpful articles.
- If you're still unable to resolve a technical issue with LockDown Browser, go to support.respondus.com and select "Submit a Ticket". Provide detailed information about your problem and what steps you took to resolve it.

Division of Anatomy Statement Regarding Cadaveric Material Usage

Remember to respect the donor that will teach you over the course of the semester. Your cadaver is not merely an educational tool, but a rare gift. They were someone's mother, father, spouse, grandparent, etc., and it was their choice to enhance your learning experience by giving their body to you. Treating them with the utmost care and respect at all times is not only required of you by the Division of Anatomy, but is expected of you as a fellow, compassionate human being. If you have questions about the process of body donation, please speak with your course instructor. If you wish to explore your feelings about death and/or your cadaver, please contact Imani Jones, Department of Chaplaincy at Imani.Jones@osumc.edu. Her office is located in the Chaplaincy, S594 Rhodes Hall.

Prior to your first laboratory session, you are required view the e-module the Anatomy Orientation Presentation and complete the Quiz associated with this presentation. Additionally you must read, sign, and return the Body Donor Program Access Disclosure Form. These forms will be kept in the Division of Anatomy as part of a permanent record of your access to and acceptance of The Ohio State University Body Donor Program and its policies. All policies extend to images and/or video material formally prepared for and presented in conjunction with your online course. Failure to adhere to these policies or any professional misconduct towards the donor on or off campus or through any social media sites may result in expulsion from the anatomy course with a failing grade, and/or referral to further disciplinary actions and/or criminal charges, if applicable.

No cell phones and/or cameras are allowed in the laboratory. Recording or photographing the human anatomical material is strictly prohibited without the prior consent of The Ohio State University Body Donor Program Advisory Council, including but not limited to any images considered for publication or other distribution, even for studying.

Institutional Policies

Academic Integrity

It is the responsibility of the Committee on Academic Misconduct to investigate or establish procedures for the investigation of all reported cases of student academic misconduct. The term "academic misconduct" includes all forms of student academic misconduct wherever committed; illustrated by, but not limited to, cases of plagiarism and dishonest practices in connection with examinations. Instructors shall report all instances of alleged academic misconduct to the committee (Faculty Rule 3335-5-487). For additional information, see the Code of Student Conduct <http://studentlife.osu.edu/csc/>.

If I suspect that a student has committed academic misconduct in this course, I am obligated by University Rules to report my suspicions to the Committee on Academic Misconduct. If COAM determines that you have violated the University's *Code of Student Conduct* (i.e., committed academic misconduct), the sanctions for the misconduct could include a failing grade in this course and suspension or dismissal from the University.

If you have any questions about the above policy or what constitutes academic misconduct in this course, please contact me. Other sources of information on academic misconduct (integrity) to which you can refer include:

- The Committee on Academic Misconduct web pages ([COAM Home](#))
- *Ten Suggestions for Preserving Academic Integrity* ([Ten Suggestions](#))

Religious Accommodations

Our inclusive environment allows for religious expression. Students requesting accommodations based on faith, religious or a spiritual belief system in regard to examinations, other academic requirements or absences, are required to provide the instructor with written notice of specific dates for which the student requests alternative accommodations at the earliest possible date. For more information about religious accommodations at Ohio State, visit odi.osu.edu/religious-accommodations.

Accessibility Accommodations

The University strives to make all learning experiences as accessible as possible. In light of the current pandemic, students seeking to request COVID-related accommodations may do so through the university's request process, managed by Student Life Disability Services. If you anticipate or experience academic barriers based on your disability (including mental health, chronic or temporary medical conditions), please let me know immediately so that we can privately discuss options. To establish reasonable accommodations, I may request that you register with Student Life Disability Services. After registration, make arrangements with me as soon as possible to discuss your accommodations so that they may be implemented in a timely fashion. SLDS contact information: slds@osu.edu; 614-292-3307; slds.osu.edu; 098 Baker Hall, 113 W. 12th Avenue. SLDS contact information for Newark: nwk-studentlifedisabilityservices@osu.edu; 740-755-7768; 226 Warner Library, 1219 University Drive.

Accessibility of course technology: This course requires use of Carmen (Ohio State's learning management system) and other online communication and multimedia tools. If you need additional services to use these technologies, please request accommodations with your instructor. [Carmen \(Canvas\) accessibility documentation](#).

Grievances

According to University Policies, available from the Division of Student Affairs, if you have a problem with this class, "You should seek to resolve a grievance concerning a grade or academic practice by **speaking first with the instructor or professor**. Then, if necessary, with the department chairperson, college dean, and provost, in that order. Specific procedures are outlined in Faculty Rule 3335-7-23, which is available from the Office of Student Life, 208 Ohio Union."

Weather or other short-term closing

To determine if the campus is closed, you may listen to the radio or call the Campus Severe Weather Information number (740) 366-9216. See also <https://newark.osu.edu/faculty-and-staff/campus-departments/public-safety/emergency-closing-information.html>. I will notify the class via CarmenCanvas Announcement if class is cancelled or moved to a CarmenZoom classroom during our regularly scheduled time.

Copyright Disclaimer

The materials used in connection with this course may be subject to copyright protection and are only for the use of students officially enrolled in the course for the educational purposes associated with the course. Copyright law must be considered before copying, retaining, or disseminating materials outside of the course.

- **Course Audio and Video Recording:** Video or audio recording of classes without the explicit written permission of the instructor/professor is a violation of the Code of Student Conduct or Students who wish to record their classes must first obtain written permission of the instructor/professor. Otherwise, such recording constitutes a violation of the Code of Student Conduct.
- **Student Generated materials:** Any materials generated by a student(s) is copyrighted. Permission must be obtained to use these materials other than the intended purpose inside the course.
- **Course materials:** These materials are copyrighted and are owned by the author. Copyrights have been secured or they are considered fair use inside/for the course but this does not apply to uses outside of the course.

Student Wellness Statement

As a student you may experience a range of issues that can cause barriers to learning, such as strained relationships, increased anxiety, alcohol/drug problems, feeling down, difficulty concentrating and/or lack of motivation. These mental health concerns or stressful events may lead to diminished academic performance or reduce a student's ability to participate in daily activities. The Ohio State University offers services to assist you with addressing these and other concerns you may be experiencing. If you or someone you know are suffering from any of the aforementioned conditions, you can learn more about the broad range of confidential mental health services available on campus via the Office of Student Life's Counseling and Consultation Service (CCS) by visiting ccs.osu.edu or calling [614-292-5766](tel:6142925766). CCS is located on the 4th Floor of the Younkin Success Center and 10th Floor of Lincoln Tower. You can reach an on call counselor when CCS is closed at [614-292-5766](tel:6142925766) and 24 hour emergency help is also available 24/7 by dialing 988 to reach the Suicide and Crisis Lifeline.

Diversity Statement

The College of Medicine affirms the importance and value of diversity in the student body. Our programs and curricula reflect our multicultural society and global economy and seek to provide opportunities for students to learn more about persons who are different as age, color, disability, gender identity or expression, national origin, race, religion, sex, sexual orientation, or veteran status, is prohibited,

The College of Medicine is committed to maintaining a community that recognizes and values the inherent worth and dignity of every person; fosters sensitivity, understanding, and mutual respect among its members; and encourages each individual to strive to reach his or her own potential. In pursuit of its goal of academic excellence, the College seeks to develop and nurture diversity, believing that it strengthens the organization, stimulates creativity, promotes the exchange of ideas, and enriches of the University's community on the basis of race, religion, color, sex, age, national origin or ancestry, marital status, parental status, gender identity, sexual orientation, ability status, health status, health status, or veteran status.

Statement on Title IX: Title IX makes it clear that violence and harassment based on sex and gender are Civil Rights offenses subject to the same kinds of accountability and the same kinds of support applied to offenses against other protected categories (e.g., race). If you or someone you know has been sexually harassed or assaulted, you may find the appropriate resources at <http://titleix.osu.edu> or by contacting the Ohio State Title IX Coordinator at titleix@osu.edu

Course Schedule

WEEK/ UNIT	DATE(S)	TOPIC(S)	LEARNING OBJECTIVE(S)	READING(S) & ACTIVITIES	ASSIGNMENTS & ASSESSMENTS
1	M	Syllabus Overview Intro to Course	1	Marieb CH 1	
	W	Intro to Pop Culture Intro to A&P	1	Marieb CH 1	
	F	Basic Chemistry	1, 3, 4	Marieb CH 2	
2	M	Cells and Tissues	1, 2, 3, 4	Marieb CH 3	
	W	Genetics	1, 2, 3, 4		
	F	Embryology	1, 2, 3, 4		
3	M	Intro to musculoskeletal system			Unit 1 Quiz
	W	Musculoskeletal System – Bone Tissue	1, 2, 3, 4	Marieb CH 5	
	F	Musculoskeletal System – Bone and Cartilage	1, 2, 3, 4	Marieb CH 5	
4	M	Musculoskeletal System – Muscle Tissue	1, 2, 3, 4	Marieb CH 5	
	W	Musculoskeletal System – Axial Skeleton and Trunk	1, 2, 3, 4	Marieb CH 5	
	F	Musculoskeletal System – Upper limbs	1, 2, 3, 4	Marieb CH 6	
5	M	Musculoskeletal System – Lower Limbs	1, 2, 3, 4	Marieb CH 6	
	W	Musculoskeletal System - Joints	1, 2, 3, 4	Marieb CH 6	
	F	Intro Nervous System			Unit 2 Quiz
6	M	Nervous System – Brain	1, 2, 3, 4	Marieb CH 7	
	W	Nervous System – Brain	1, 2, 3, 4	Marieb CH 7	
	F	Nervous System – Somatic Nervous System	1, 2, 3, 4	Marieb CH 7	Paper Topic Due
7	M	Nervous System – Autonomic Nervous System	1, 2, 3, 4	Marieb CH 7	
	W	Special Senses – Vision and Eyes	1, 2, 3, 4	Marieb CH 8	
	F	Special Senses – Special Senses	1, 2, 3, 4	Marieb CH 8	
8	M	Lab Fieldtrip 1 (if possible)			Unit 3 Quiz
	W	Integumentary System	1, 2, 3, 4	Marieb CH 4	
	F	Endocrine System	1, 2, 3, 4	Marieb CH 9	
9	M	Endocrine System	1, 2, 3, 4	Marieb CH 9	
	W	Cardiovascular System	1, 2, 3, 4	Marieb CH 10	
	F	Cardiovascular System	1, 2, 3, 4	Marieb CH 11	
10	M	Lymphatic System	1, 2, 3, 4	Marieb CH 12	Paper Draft Due
	W	Respiratory System	1, 2, 3, 4	Marieb CH 13	
	F	Respiratory System	1, 2, 3, 4	Marieb CH 13	
11	M	Lab Fieldtrip 2 or In-class work on papers			Unit 4 Quiz
	W	Digestive System	1, 2, 3, 4	Marieb CH 14	

	F	Metabolism	1, 2, 3, 4	Marieb CH 14	
12	M	Urinary System	1, 2, 3, 4	Marieb CH 15	Peer Review Due
	W	Reproductive Systems	1, 2, 3, 4	Marieb CH 16	
	F	Health and Medicine	5		
13	M	Health and Medicine	5		
	W	Special Topics	1, 2, 3, 4		
	F	Review, Final Discussions	1, 2, 3, 4, 5		Unit 5 Quiz
14	M	Cumulative Final Exam			
	W	Paper Presentations	6		Final Paper Due
	F	Paper Presentations	6		
Finals		Paper Presentations	6		

The schedule above is subject to change based on course and participant needs. Any changes in schedule will be posted in Carmen (or in class).

GE Theme course submission worksheet: Health & Wellbeing

Overview

Courses in the GE Themes aim to provide students with opportunities to explore big picture ideas and problems within the specific practice and expertise of a discipline or department. Although many Theme courses serve within disciplinary majors or minors, by requesting inclusion in the General Education, programs are committing to the incorporation of the goals of the focal theme and the success and participation of students from outside of their program.

Each category of the GE has specific learning goals and Expected Learning Outcomes (ELOs) that connect to the big picture goals of the program. ELOs describe the knowledge or skills students should have by the end of the course. Courses in the GE Themes must meet the ELOs common for **all** GE Themes and those specific to the Theme, in addition to any ELOs the instructor has developed specific to that course. All courses in the GE must indicate that they are part of the GE and include the Goals and ELOs of their GE category on their syllabus.

The prompts in this form elicit information about how this course meets the expectations of the GE Themes. The form will be reviewed by a group of content experts (the Theme Advisory) and by a group of curriculum experts (the Theme Panel), with the latter having responsibility for the ELOs and Goals common to all themes (those things that make a course appropriate for the GE Themes) and the former having responsibility for the ELOs and Goals specific to the topic of **this** Theme.

Briefly describe how this course connects to or exemplifies the concept of this Theme (Health & Wellbeing)

In a sentence or two, explain how this class “fits’ within the focal Theme. This will help reviewers understand the intended frame of reference for the course-specific activities described below.

This course explores Health and Wellbeing by studying anatomy and physiology through the framework of characters within pop culture, such as superheroes. Students will learn the basics of anatomy and physiology and apply that to fantastical characters in books, tv, and movies. They will then explore how medicine and personal wellbeing is portrayed in pop culture, using the A&P basics they developed in the beginning of the course. Using pop culture as a model system to examine important biological questions provides a unique opportunity to get students excited about anatomy and science in general through superheros and fictional characters they are already familiar with. It also allows them an opportunity to see something familiar in a “different light” giving them the opportunity to experience the joy of scientific discovery through the course of the semester.

Connect this course to the Goals and ELOs shared by *all* Themes

Below are the Goals and ELOs common to all Themes. In the accompanying table, for each ELO, describe the activities (discussions, readings, lectures, assignments) that provide opportunities for students to achieve those outcomes. The answer should be concise and use language accessible to colleagues outside of the submitting department or discipline. The specifics of the activities matter—listing “readings” without a reference to the topic of those readings will not allow the reviewers to understand how the ELO will be met. However, the panel evaluating the fit of the course to the Theme will review this form in conjunction with the syllabus, so if

readings, lecture/discussion topics, or other specifics are provided on the syllabus, it is not necessary to reiterate them within this form. The ELOs are expected to vary in their “coverage” in terms of number of activities or emphasis within the course. Examples from successful courses are shared on the next page.

Goal 1: Successful students will analyze an important topic or idea at a more advanced and in-depth level than the foundations. In this context, “advanced” refers to courses that are e.g., synthetic, rely on research or cutting-edge findings, or deeply engage with the subject matter, among other possibilities.

Goal 2: Successful students will integrate approaches to the theme by making connections to out-of-classroom experiences with academic knowledge or across disciplines and/or to work they have done in previous classes and that they anticipate doing in future.

	Course activities and assignments to meet these ELOs
ELO 1.1 Engage in critical and logical thinking.	<p>Students will critically analyze anatomic/physiological modifications in characters from pop culture. Lectures will present the basics of the anatomy and physiology of a body system - students will then engage in discussion by applying those concepts to characters. Discussion will initially be guided by instructors (here is a character, how do you think their anatomy is different to make their superpowers possible), but students will be encouraged to think of their own characters that could suit the lecture.</p> <p>Students will have 5 Unit quizzes and a final exam, where they will answer questions about basic anatomy and physiology concepts and analyze the modified anatomy of pop culture characters.</p> <p>Students will complete a paper for the course where they pick a pop culture character and explain how their anatomy/physiology is abnormal. They will have to critically think and logically present their argument to explain how the pop culture character could exist.</p>
ELO 1.2 Engage in an advanced, in-depth, scholarly exploration of the topic or ideas within this theme.	<p>Lectures will give students the basics of anatomy and physiology that they can then apply to more complex concepts.</p> <p>Additionally, students will be encouraged to think about “what if” scenarios. What if muscle structure is modified – how could it be modified to create super strength (like Superman). How would the inner structure of an eye be modified in order to increase vision (like in an elf). These scenarios will be presented during class discussions. Some scenarios will be presented by the instructor, but students will be encouraged to create their own scenarios and ideas about how anatomy would have to be modified. This will require students to think critically about why anatomical structures are shaped they way they are in order to perform a certain function.</p> <p>The final student paper will be an in-depth analysis of a character or trait of their choice. Students will be coached on how to do deeper research into anatomy and physiology in order to complete their papers. They will then use critical thinking skills to expand upon a ‘what if’ scenario and explain how anatomy could be modified to create the character they chose.</p>
ELO 2.1 Identify, describe, and synthesize approaches or experiences.	<p>Every lecture will have time for discussion at the end of class. During these discussions, the instructor will present ‘what if’ scenarios where pop culture icons are analyzed for their anatomic modifications. One or two characters will be presented by the instructor, but students will be encouraged to present their own characters based on their interests. For instance, the instructor may focus on Marvel Superheroes, but the students could talk about characters from their favorite Anime. The final paper will also allow students to make connections to their own experiences and interests.</p>

	<p>There are three lecture days reserved for “health and medicine” and “special topics”. During these days, the instructor will highlight the difference in the way an anatomist thinks, versus the way a clinician thinks and approaches the human body. Students will analyze medical dramas and see how TV and pop culture present medicine, versus how a hospital actually works. This will help students recognize that there are multiple ways to examine the human body, and that each approach has its own methodology, terminology, and pros/cons.</p>
<p>ELO 2.2 Demonstrate a developing sense of self as a learner through reflection, self-assessment, and creative work, building on prior experiences to respond to new and challenging contexts.</p>	<p>Students will take a pre-quiz on the first day of class. This quiz will be for completion points, not graded on accuracy, and will examine the pre-existing knowledge students have about anatomy and physiology. The quiz will also ask students what they look forward to learning and what their pop-culture interests are (sci-fi, DC/Marvel superheroes, high fantasy, etc.) and how they access pop culture (tv shows, movies, books, comics, etc.) The information on student interests will be utilized to tailor the course. The pre-quiz questions will be incorporated into the final exam, to show students how much they have learned (and grown) over the course of the semester.</p> <p>Students will participate in a scaffolded final paper. Every step of the process will include instructor and peer feedback. Students will propose a topic, then submit a draft for both instructor and peer review. Commentary will then be used in the final paper. The peer review process will allow students to help one another write better papers and find the flaws in their arguments. It will also allow students to incorporate their personal views into their work.</p>

Goals and ELOs unique to Health & Wellbeing

Below are the Goals and ELOs specific to this Theme. As above, in the accompanying Table, for each ELO, describe the activities (discussions, readings, lectures, assignments) that provide opportunities for students to achieve those outcomes. The answer should be concise and use language accessible to colleagues outside of the submitting department or discipline. The ELOs are expected to vary in their “coverage” in terms of number of activities or emphasis within the course. Examples from successful courses are shared on the next page.

GOAL 3: Students will explore and analyze health and wellbeing through attention to at least two dimensions of wellbeing. (Ex: physical, mental, emotional, career, environmental, spiritual, intellectual, creative, financial, etc.).

	Course activities and assignments to meet these ELOs
<p>ELO 3.1 Explore and analyze health and wellbeing from theoretical, socio-economic, scientific, historical, cultural, technological, policy, and/or personal perspectives.</p>	<p>There are three lecture days reserved for “health and medicine” and “special topics”. During these days, the instructor will highlight the difference in the way an anatomist thinks, versus the way a nurse or doctor thinks and approaches the human body. Students will analyze medical dramas and see how TV and pop culture present medicine, versus how a hospital actually works.</p> <p>Students will have the opportunity to discuss mental health and wellbeing during the nervous system unit. For example, what anger management techniques can the Hulk utilize? How does deep breathing help calm the body? Other aspects of personal health will be brought up during other lectures. How does aerobic exercise improve cardiovascular health, and what does</p>

	that actually mean? What is physically changing in the body? We will discuss personal health choices, as well as analyze how pop culture characters take care of themselves (or ways they could improve).
ELO 3.2 Identify, reflect on, or apply strategies for promoting health and well-being.	During class discussions and their final paper, students will be encouraged to identify ways pop culture characters could improve their health, or ways that the characters are succeeding at managing health problems. During the Health and Medicine lectures, we will discuss basic self-care mechanisms and resources for additional help that are available locally or through campus.