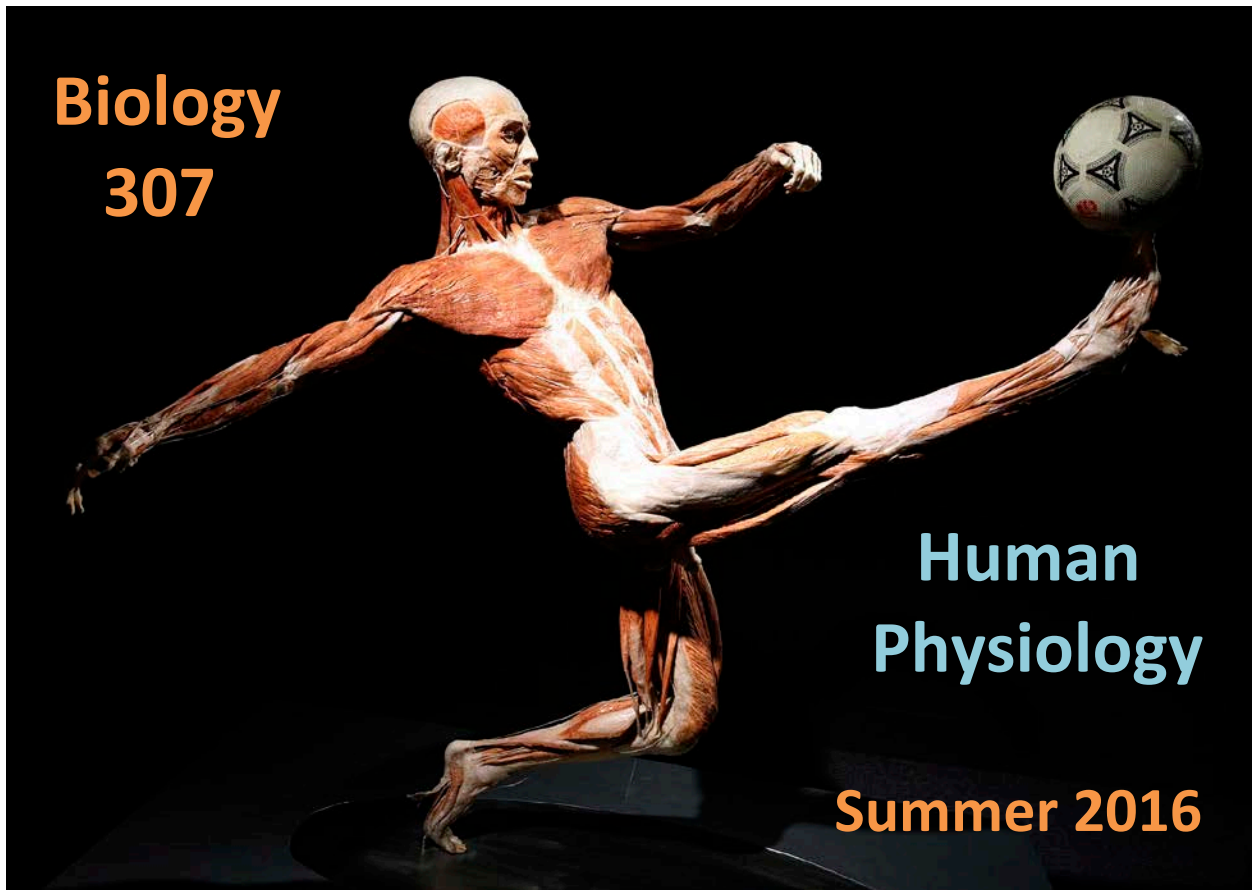


**Biology
307**



**Human
Physiology**

Summer 2016

WHY ARE WE HERE? | Course Objectives

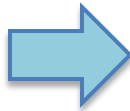
The purpose of this course is to help you:

- Understand the basic **concepts** and **processes** of physiological regulation in humans, from cellular to organ to organismal
- Apply the above concepts to understand some major human **diseases and illnesses**
- Develop an integrated “**picture in your head**” of how the human body works, especially learning to “think in arrows” as a physiologist or physician does
- Prepare for settings in the health professions in which you will apply your physiological understanding to **specific** clinical situations in a **team** of professionals

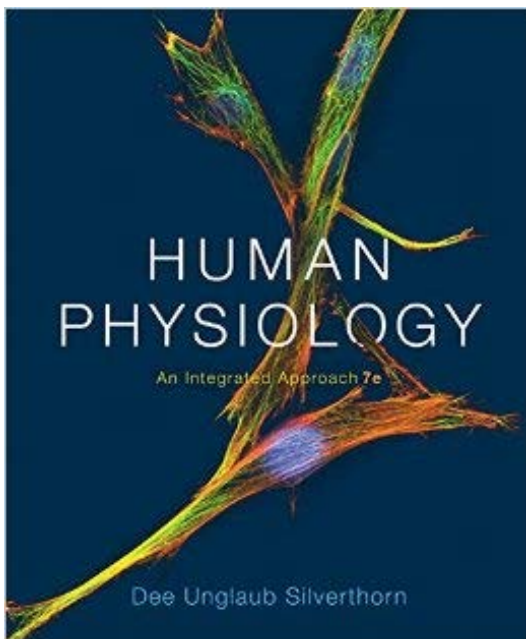
HOW WILL WE DO THAT? | Course Activities

Working in your **awesome teams**, your activities will follow this sequence:

- 1) **Read the book!** Fun times. My **goal sheets** will help you know what to focus on.
- 2) **Take a reading quiz** (RAT), then take it again with your team!



My **Goal Sheets** tell you **exactly** what to study for the RAT!



IMMEDIATE FEEDBACK ASSESSMENT TECHNIQUE

Name _____

Subject _____

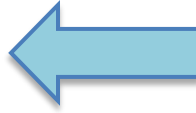
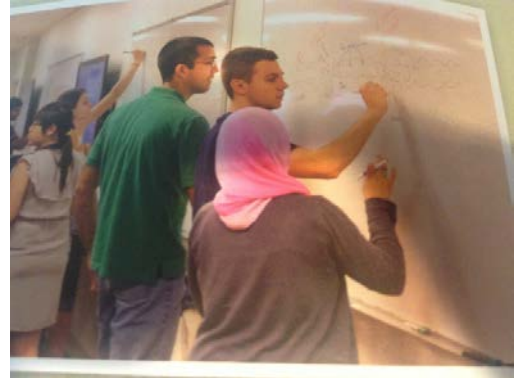
SCRATCH OFF COATING TO EXPOSE

	A	B	C	D	E
1.					
2.					
3.					
4.					
5.					
6.					

4) **Take a test** or quiz to find out how much **awesome physiology** you learned.



questions and challenges you work on with your team!



3) Practice the **chapters' hardest goals** with
Then the cycle repeats.

CLASS SCHEDULE

WEEK	TUESDAY	WEDNESDAY	THURSDAY
May 30	Intro to physiology; team formation; transport (Ch 5)	RAT 1 Signaling and Hormones (Chs 6 and 7) Signaling and Hormones	Hormones, continued; Neurons (8)
June 6	Quiz (Ch 5-7) + Neurons (8), continued	RAT 2 The Nervous System (Chs 9-11) CNS (9); Senses (10)	The Senses (10) + Autonomic Nervous System (11)
June 13	Test 1 (Chapters 5-11)	RAT 3 Muscles and Cardiovascular System (Chs 12 & 14) Muscle (12)	Cardiovascular System (14)
June 20	Quiz (Ch 12+14) + Blood Pressure (15)	RAT 4 Respiration (Ch 17 & 18) Breathing (17)	Gas Exchange (18)
June 27	Test 2 (Chapters 12, 14, 15, 17, 18)	RAT 5 Urinary Physiology and Digestion (Chs 19, 20 and 21) Urinary System (19)	Fluid Balance (20) + Digestion (21)
July 4	Immune (24)	Catch Up and Review	Final Exam ("Comprehensive Lite")

The Details

Class Meeting Time: Tuesday, Wednesday and Thursday 10:00 a.m.-12:00 noon

Instructor: Sarah Leupen

Office #: BS 467

Office Hours: I'm usually available after class for at least a while, usually close to an hour. I know that's pretty minimal, but it's just because people don't tend to use office hours in the summer; if you want to meet, I'm happy to! Just tell me and we'll find a good time that works for both of us.

Email: leupen@umbc.edu

Office Phone #: 455-2249 (Email is a better way to contact me, though).

Text: Human Physiology, by Silverthorn, 7th edition. Pearson, 2013.

Grading: Your grade is a weighted average of the following grade components:

- Individual RATs (4 of 5, lowest dropped) 10%
- Team RATs (4 of 5, lowest dropped) 10%
- Quizzes (2) 15%
- Tests (2) 30%
- Final Exam 25%
- Peer Evaluation 10%

Grades are assigned on a straight 90/80/70/60 basis with no curving, so your grade is dependent on YOUR understanding of the material, not other people's, and there's no limit on the number of good grades-- everyone can do well by achieving chapter goals through hard work and focus. It also means that I'm "on your team" and **want** you to get an A!

Attendance and Late Work Policies: If you miss a class, you miss whatever your team did and whatever else happened. Most teams, in real life and here, will forgive a single absence for which you have a good reason, and be **less forgiving** of multiple or casual absences; these judgments come out on the peer evaluation. Remember, you come to this class not just for yourself, but also for your team members. (And in the summer, missing one class is like missing TWO regular classes!) If you show up late for a test, you start late. If you show up late for a RAT (anytime after the first person has finished), you miss the RAT. If you miss a RAT, that's the one that gets dropped. If you miss two or more, you lose those points; RATs (both iRAT and tRAT) can't be made up because everyone instantly sees what the right answers are in class.

Support is Available! UMBC is committed to eliminating discriminatory obstacles that disadvantage students based on disability. **Student Support Services (SSS)** is designated to receive and maintain confidential files of disability-related documentation, certify eligibility for services, and determine reasonable accommodations. If you have a disability and want to request accommodations, contact SSS in the Math/Psych Bldg., room 213 or at 410-455-2459. If you require accommodations for this class, make an appointment to meet with me to discuss your SSS-approved accommodations, or any other concerns that you have.

Note: **Students cannot use both BIOL 305 and BIOL 307 as Column A electives for the BIOL BS degree. Nor can you get credit toward the major for both BIOL 252 and BIOL 307.** All three of these courses (252, 305 and 307) cover many of the same organ systems, limiting their validity as truly separate sets of concepts.