

**BIO 2870: Anatomy and Physiology**  
**Lecture Syllabus, Spring/Summer 2021**

5 credits with the lab

4:30 pm – 6:00 pm; Mondays and Wednesdays

**Welcome to Biology 2870!**

In this document, you will find all the information you need regarding the course structure, the content of the course, grading policies, quizzes and exam dates, and other important information. By registering for the class, you agree to follow all of the policies listed in the syllabus and those that are mandated by the University. Therefore, **I highly recommend that you read the syllabus in a great detail.** I look forward to a fun and exciting semester with all of you!

Dr. Turchyn

**COURSE DESCRIPTION**

This course serves to introduce structure and function of organ systems to undergraduate students majoring in the Biological Sciences or other science majors, including science education, pre-allied health, and all students seeking introductory knowledge of human body.

The lecture portion of the class provides a comprehensive study of the structure and function of the human body including cells, tissues, and organs of the following systems: integumentary, skeletal, muscular, nervous, endocrine, cardiovascular, and respiratory. Emphasis is on interrelationships among systems and regulation of physiological functions involved in maintaining homeostasis. The laboratory portion of the class primarily focuses on identification of the structures that make up the human body.

The information learned from this course will provide students with a solid foundation to explore careers in the health and fitness industries. The lectures will include materials provided from the textbook as well as supplemental materials from outside resources, including videos and scientific journals.

**STUDENT LEARNING OUTCOMES**

Upon successful completion of the course, students should be able to:

1. Develop a vocabulary of appropriate terminology to effectively communicate information related to anatomy and physiology.

2. Recognize the anatomical structures and explain the physiological functions of body systems.
3. Recognize and explain the interrelationships within and between anatomical and physiological systems of the human body.
4. Explain the concept of homeostasis, its regulation within each organ system, and know the consequences of loss of homeostasis resulting in disease or death.
5. Synthesize ideas to make a connection between knowledge of anatomy and physiology and real-world situations.

### **COURSE PREREQUISITE**

**Students are required to have completed BIO 1510 with a final grade of C- or better.** Students who managed to enroll in this course without satisfying this prerequisite are not likely to succeed in the course and for this reason will be required to drop it. Students who have questions about these prerequisites should contact the Biology Department's Undergraduate Advisor during the first week of class.

### **FIRST DAY INCLUSIVE ACCESS COURSE MATERIAL**

BIO 2870 is participating in a pilot for the spring/summer semester of the course material access and affordability program called First Day Inclusive Access. This program will make eText **Essentials of Anatomy & Physiology + Mastering Courseware, 8<sup>th</sup> edition by Martini and Bartholomew** available to you on or before the first day of class in the [Course Materials](#) on Canvas and usually at a discounted price. **A direct charge for the course material is placed against your student account and is visible on your tuition bill.** Participation in the First Day program is optional. Opting-out will result in a refund placed against your WSU student account, which will be disbursed in accordance with the Office of the BURSAR, Student Accounts Receivables Policies. For information regarding the First Day Inclusive Access course material pilot including price discounts, please visit [studentservices.wayne.edu/bookstore/inclusive-access](https://studentservices.wayne.edu/bookstore/inclusive-access) or the Barnes & Noble College First Day Inclusive Access FAQ page at <https://customercare.bncollege.com>.

#### **Things to consider before opting out:**

- The material through this program is priced at market value or lower.
- Market value is defined as the price you would pay if you purchased the exact same material

and format directly from the publisher.

- The opt-out window for your course is **05/24/2021**.
- You may opt-out or back in as many times as you want through 05/24/2021.
- Regardless of your opt-out status, your access to the content will remain through 05/24/2021.
- If your final status is opt-out at the end of the opt-out period, you will **NO** longer have access to the course material eText and courseware shortly after the opt-out date.
- If you opt-out, you will need to purchase the required course material independently either through the campus bookstore, publisher website, or your favorite textbook provider.

### **ADD/DROP INFORMATION**

Students can enroll in the class until **May 23<sup>rd</sup>**. If a student signs up for the class and decides to drop it before **May 23<sup>rd</sup>**, the tuition for the class will be cancelled, the student will be reimbursed, and the class will not show on his/her transcript. However, if the student drops the class between **May 24<sup>th</sup>** and **July 18<sup>th</sup>**, the tuition will not be reimbursed and a final grade of “WP” (withdrawal with a passing grade, if average of all lecture exam scores earned to date is greater than or equal to 60%), “WF” (withdrawal with a failing grade, if average of all lecture exam scores earned to date is less than 60%), or “WN” (withdrawal never attended) will be shown on his/her transcript. **All withdrawals must be requested through Academics and they will not be granted after July 18<sup>th</sup>**. If the student signs up for the class, stops attending lectures, and fails to withdraw, he/she will receive a failing grade “F” for the course. **Please note that “incomplete” grades will not be issued to students in poor standing who are seeking an alternative to a late drop.**

### **STUDENT CODE OF CONDUCT**

All participants in the course are bound by the Student Code of Conduct that can be found at <https://doso.wayne.edu/conduct/academic-misconduct>. The University is aware that students often use WhatsApp and/or other group messaging apps for the purposes of cheating on their classwork. Be aware that using group messaging apps in this manner is indeed a violation of the academic integrity honor code and can come with consequences. **Students who knowingly or intentionally conduct or help another student engage in dishonest conduct, acts of cheating, or plagiarism will receive a grade of “F” for the course and may be expelled from the University.**

## OFFICE HOURS AND COMMUNICATION

**Any questions/comments regarding the lecture** portion of the course should be directed to:

Dr. Nataliya Turchyn

**E-mail:** [ai7380@wayne.edu](mailto:ai7380@wayne.edu)

**Virtual Office Hours:** 6:15 pm – 7:30 pm on Mondays and Wednesdays or by appointment

If you have any questions related to the lecture material or assignments, please post them on the [Canvas Discussions](#). I will do my best to reply to your question(s) within 24 hours. You can also ask me questions in real time during my virtual office hours on [Canvas Zoom](#).

**I will NOT reply to e-mails when the answer can be found in the syllabus or on Canvas. In addition, I will NOT reply to e-mail questions that have already been answered on the [Canvas Discussions](#).**

If you have a question about your lecture grade, please send me an e-mail containing the scores you have in your records and I will check them with my records. I will do my best to reply to your email within 24 hours.

**Any questions regarding the lab** portion of the course should be directed to a student's lab teaching assistant (TA) or lab coordinator, Ms. Krystyn Purvis, e-mail: [Krystyn@wayne.edu](mailto:Krystyn@wayne.edu).

When e-mailing me, Ms. Purvis, or TA, please use professional style with your course number in the subject, a proper greeting (e.g., "Dr. Turchyn, Ms. Purvis, or Ms/Mr/Mrs. Teaching assistant"), and correct punctuation including capitalization and no texting abbreviations. E-mails that do not follow these rules may take longer to get a reply or may be returned for correction.

In addition to that, the Academic Success Center offers individual **tutoring** and **group workshops** to the students, which are free of charge. You should schedule appointments or request for group sessions early in the semester. Use <https://success.wayne.edu/pal/csg> for the group request and <https://wams.wayne.edu/tutoring> for individual tutoring appointments.

## VIRTUAL ATTENDANCE

The lectures will be conducted live using [Canvas Zoom](#) at the given class time, on Mondays and Wednesdays from 4:30 pm – 6:00 pm. Considering the course is deemed challenging by many students, I highly recommend not to skip any lectures. You should also attend my virtual office hours to ask questions and get further guidance and support, if something is unclear to you.

## INFORMATION ABOUT QUIZZES

Students are expected to take an active role in their learning by attending lectures, going over PowerPoint slides, doing practice problems, reading the textbook, and taking online quizzes through [MyLab and Mastering](#). Questions will be drawn from recently discussed lecture material. **All quizzes will be timed and posted for 48 hours from Thursdays (4:00 pm) to Saturdays (4:00 pm), except quiz#8. If you miss the quiz deadline, you will lose the points associated with it** (see SCHEDULE OF LECTURES, QUIZZES, AND EXAMS on the last two pages). It will be the responsibility of the student to regularly check the [MyLab and Mastering](#) calendar for upcoming quizzes. **You will have a chance to earn more than 90 points for completing all 10 quizzes, but only 75 points will count toward your final grade. All official quiz scores will be posted in the [Canvas Grades](#) and also be available in [MyLab and Mastering](#) gradebook.**

## INFORMATION ABOUT EXAMS

**There will be three regular exams given during the semester and one final, cumulative exam (four exams total).** The regular and final exams will consist of 40 and 50 multiple choice and true/false questions, respectively. Some questions will have images. **All exams are closed book and are related to the material covered in the lecture and assigned in reading of the textbook.** The regular and final exams will be worth 100 and 125 points, respectively.

**Every student must take the final exam and it cannot be dropped.** If the percentage of your final exam score is higher than the percentage of your lowest semester exam score, your lowest semester exam score will be replaced.

For example, if you score on exam #2 75 out of 100 points, then your exam #2 would be 75% ( $75/100 \times 100\%$ ). If you score on the final exam 105 out of 125 points, then your final percentage would be 84% ( $105/125 \times 100\%$ ). Your exam #2 score would be recalculated using the 84.0% you received on the final exam and your new exam #2 score would be 84 points ( $84/100 \times 100$  points).

**The FINAL EXAM is scheduled for Monday, August 2<sup>ND</sup> at 4:30 PM to 6:00 PM. All exams will be administered online through [Canvas Quizzes](#) using Respondus LockDown Browser and Monitor that requires a webcam to ensure academic integrity.** Respondus LockDown Browser is compatible with Microsoft Windows 10 (includes x86 32 and 64bit processors and ARM 64bit processors using x86 emulation), 8 or 7, MacOS 10.12 or higher, iOS: 11.0+ (iPad only), and most Wayne State-managed Chromebooks. However, it is **NOT** compatible with personally owned Chromebooks, Microsoft 10S or Android. To download LockDown Browser in Canvas, click **Help** and then [Students: Links and Downloads](#). For more information, please visit the Respondus Student Resources web page at [web.respondus.com/student-help/](http://web.respondus.com/student-help/).

**Each regular exam will take place on specified Monday or Wednesday at 4:30 pm to 5:40 pm (see SCHEDULE OF LECTURES, QUIZZES, AND EXAMS on the last two pages). Students will have only a single attempt at the exam itself. Although one question will be shown at a time, you will be able to review all your responses before submitting your exams.**

**There are no make-up exams. If a student misses a regular exam for ANY reason, the percentage the student receives on the final exam will be used as the percentage for the missed exam.**

For example, if you score on the final exam 115 out of 125 points, then your percentage on the final exam would be 92% ( $115/125 \times 100\%$ ). So, if you missed exam #2 for any reason, your percentage on exam #2 would be 92%, which is 92 points.

The final exam is scheduled as designated in the Schedule of Classes for this term. No other time for the final exam will be available, and no exception will be made for conflicts such as student travel plans or other exams the same day. **Once you have finished answering the questions, click the Submit button at the bottom of the exam. When the time is up and you have not submitted your answers, a pop-up window will ask you to submit your answers or Canvas will force your submission. No extra time will be given to those students who start working on their exam too late.**

If more than 75% of the class answers an exam question incorrectly, everyone will receive credit for that question.

## CALCULATING GRADES

A total of 900 points are available to be earned in this course: 500 from lecture and 400 from the laboratory. There are no opportunities for extra credit or alternative assignments **under any circumstances**. All exam scores will be posted in the [Canvas Grades](#). **Exams will not be given in advance.**

Exam I	100
Exam II	100
Exam III	100
Quizzes	75
Final Exam	125
<u>Lab</u>	<u>400</u>
<b>Total</b>	<b>900</b>

**Final grades will be assigned based on the following percentage:**

A	93 – 100%	C	73 – 75.99%
A-	90 – 92.99%	C-	70– 72.99%
B+	86 –89.99%	D+	66 – 69.99%
B	83 –85.99%	D	63 – 65.99%
B-	80 – 82.99%	D-	60 – 62.99%
C+	76 – 79.99%	F	≤ 59.99%

## GRADE DISPUTES

Students will have one (1) week after the return of an exam to challenge a grade for any question. Failure to challenge the grade within this period indicates a willingness to accept the grade as is. The challenge should consist of a written description of why the answer is correct based on lecture PowerPoint slides and textbook. It is not an opportunity to complain.

## EXAM TIME CONFLICTS

Students are not required to take more than two final exams in one day. A student with more than two scheduled final exams on one day may (not must) contact the instructor of the course with the lowest number of students enrolled to arrange an alternate time for the final exam. Such petitions

must be made at least one week prior to the scheduled date of the exam. Our class has ~90 students.

### **RELIGIOUS HOLIDAY CONFLICTS**

Students who have a conflict with any of the scheduled exam times due to religious reasons must notify me in writing by class time on **Monday, May 24<sup>th</sup>**. **Accommodations will not be provided unless I am notified in writing by this date.**

### **STUDENTS WITH DISABILITIES**

If you have a documented disability that requires accommodations, you will need to register with Student Disability Services for coordination of your academic accommodations. The Student Disability Services (SDS) office is located at 1600 David Adamany Undergraduate Library in the Student Academic Success Services department. The SDS telephone number is 313-577-1851 or 313-202-4216 for videophone use. Once you have your accommodations in place, please send me an email discussing your special needs. Student Disability Services' mission is to assist the university in creating an accessible community where students with disabilities have an equal opportunity to fully participate in their educational experience at Wayne State University. You can learn more about the disability office at [www.studentdisability.wayne.edu](http://www.studentdisability.wayne.edu).

To register with Student Disability Services, complete the online registration form at: <https://wayne-accommodate.symphlicity.com/public-accommodation/>.

### **HOW TO SUCCEED IN BIO 2870?**

In order to succeed in BIO 2870, you would need to do the following:

1. Try not to skip any lectures. You are encouraged to take notes on each lecture if you want.
2. Study the ppt slides with your notes afterwards, paying attention to the images.
3. **Re-listen to the lecture one or more times AFTER studying.** If there is something that you still do not understand, post your questions on [Canvas Discussions](#) and/or ask me during my virtual office hours on [Canvas Zoom](#).
4. Read the textbook and do the questions within and at the end of each chapter to test your knowledge on the material. Always go over my practice questions, which can be found at the end of each PowerPoint presentation and quizzes before an actual exam. If you are



struggling on those, it means that you are not prepared to take the exam and you have to study more.

5. Request weekly study groups at <https://success.wayne.edu/pal/csg> and/or schedule individual tutoring appointments at <https://wams.wayne.edu/tutoring>.
6. Try to study for this class at least 8 hours per week by understanding, critical thinking, and being able to apply what you have learned.

## SCHEDULE OF LECTURES, QUIZZES, AND EXAMS

The PowerPoint slides with my notes, study guides, old exams with answer keys, animations, and syllabus can be found on [Canvas Homepage](#). All lectures will be recorded and posted in the Cloud Recordings on [Canvas Zoom](#). If there are any issues with Canvas or LockDown Browser, please contact **Computing & Information Technology (C& IT)** at (313) 577-4778 or [helpdesk@wayne.edu](mailto:helpdesk@wayne.edu).

Here is the schedule indicating what chapters you have to study, and the due dates for the exams and quizzes.

Topics and Assignments	Chapter(s)	Date(s)
Course Introduction		5/10
An introduction to anatomy and physiology	1	5/10 and 5/12
The tissue level of organization	4	5/12, 5/17, and 5/19
<b>Quiz #1</b>	<b>1</b>	<b>5/15</b>
The integumentary system	5	5/19 and 5/24
<b>Quiz #2</b>	<b>4</b>	<b>5/22</b>
The skeletal system	6	5/26, 6/2, and 6/4
<b>Quiz #3</b>	<b>5</b>	<b>5/29</b>
<b>NO CLASS — MEMORIAL DAY</b>		<b>5/31</b>
<b>Quiz #4</b>	<b>6</b>	<b>6/5</b>
<b>Exam #1</b>	<b>1 &amp; 4-6</b>	<b>6/7</b>
The muscular system metabolism	7	6/9, 6/14/ and 6/16
<b>Quiz #5</b>	<b>7</b>	<b>6/19</b>
The nervous system	8	6/21, 6/23/ and 6/28
<b>Quiz #6</b>	<b>8</b>	<b>6/26</b>
The endocrine system	10	6/30, 7/7, and 7/9
<b>Quiz #7</b>	<b>8 (the rest) &amp; 10</b>	<b>7/3</b>
<b>NO CLASS — INDEPENDENCE DAY</b>		<b>7/5</b>
The cardiovascular system: blood	11	7/9/ and 7/14
<b>Quiz #8</b>	<b>10 (the rest)</b>	<b>7/11</b>
<b>Exam #2</b>	<b>7, 8 &amp; 10</b>	<b>7/12</b>
The cardiovascular system: heart	12	7/14, 7/19, and 7/21
<b>Quiz #9</b>	<b>11</b>	<b>7/17</b>

<b>Topics and Assignments</b>	<b>Chapter(s)</b>	<b>Date(s)</b>
The respiratory system	15	7/21 and 7/26
<b>Quiz #10</b>	<b>12 &amp; 15</b>	<b>7/24</b>
<b>Exam #3</b>	<b>11, 12 &amp; 15</b>	<b>7/28</b>
<b>Final Exam</b>	<b>All topics covered</b>	<b>8/2</b>