**Bio 211 : Anatomy and Physiology I**

**Summer 2018**

***Instructors:***

Lecture Instructor :

Dr. Mark Garbrecht, Ph.D.

234 Pasteur Hall

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<http://course1.winona.edu/MGarbrecht/Bio211-Summer-new.htm>

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Lab Instructor:

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Phone: 457-5666

***Class Location and Time:***

Lecture: Mon-Thur 9:40-11:40am (Pasteur 229)

Lab: Mon-Thur 8:00-9:20am (Pasteur 301)

Course Description:

Bio 211 is the first course in a two-course sequence designed to give nursing, allied health, and education students (and anyone else interested) a functional understanding of human anatomy and physiology. Upon completion of the course sequence, students will have an understanding of basic the structure and function of human body at the cellular, organ, and system levels. This course involves one two hour lecture and one lab session (one hour and twenty minutes) per day Monday through Thursday (no lecture or lab on Friday). Laboratory exercises will include, but are not limited to, physiological experiments and measurements, computer tutorials, and examination of models and human tissues. NOTE: The examination and handling of human cadavers will be a part of the laboratory experience in order to fully appreciate and understand the complexity of human anatomy. Please contact Dr. Garbrecht or Dr. Larson as soon as possible if you have any concerns or questions concerning the use of human cadavers in this course.

Required Text:

***Textbook:*** Anatomy and Physiology: The Unity of Form and Function by Kenneth Saladin. Published by McGraw-Hill.

This semester we will be using the 8th edition of the Anatomy and Physiology textbook written by Kenneth Saladin. This semester the WSU bookstore will be selling a McGraw-Hill CONNECT access card for our class that can be purchased for approximately $100.00. This access card will give you access to the collection of learning tools, tutorials, practice quizzes, lab tutorials, AS WELL AS An E-BOOK Version of the Saladin textbook. However, if you wish to have a paper copy of the textbook you will have an option to purchase a loose-leaf copy of the book for an additional $30-40. The paper copy is NOT required, but some students like having a paper copy to use for highlighting, future reference, etc... The e-book version will be sufficient for this course. Once you purchase the access code you will register your scratch-off serial number found on the card at this website : <https://connect.mheducation.com/class/m-garbrecht-bio-211---summer-2019>

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***Gloves:*** Since this course involves examination/dissection of preserved tissues, ALL students are required to purchase a “PPE (personal protection equipment) Voucher” or coupon from the bookstore. This will cover the cost of gloves and any other protective equipment you might need for this course. This voucher will need to be turned in to the lab instructor before the end of the first week of lab. This will ensure that you will always have the proper size gloves available to you when you need them and you won’t have to carry your own box back and forth to lab every session.

About The Summer Course:

This section of Bio 211 will run 5 weeks in length. **We will be covering the SAME information that is normally covered in a 15 week regular semester, but at a much faster pace.** As a result, this class will pretty much be your full-time job for the next five weeks. Some students feel that the summer course is much more challenging than the regular semester length course, while others appreciate the fact that this is the only class you have to concern yourself with. The vast majority of students who have struggled with Bio 211 during the regular semester will find it difficult to improve their grade by taking the summer course unless significant changes to their study habits and approach to the class are made. Although each of you will learn differently and have different degrees of preparation, you should expect to invest several hours (probably more) of study outside of class each day in order to keep up. Simply attending class and lab will likely not suffice and will almost certainly guarantee you will struggle in this course. We will be having a lecture exam EACH WEEK THURSDAY and a laboratory exam AS NOTED ON THE SYLLABUS, so putting off studying until the evening before will make it VERY DIFFICULT to pass this class. Please contact me ASAP if you have questions regarding the material we cover.

Grading:

Grades in this course will be calculated numerically based on your performance on lecture, laboratory exams, and possible quizzes (dates would be announced in class). **In order to be fair to all students, there will be NO EXTRA CREDIT opportunities on an individual basis.** The grading scale for this course will be as follows : 90% or above = A, 89-80% = B, 79-70% = C, 69-60% = D, less than 60% = F. Since grades will be determined numerically based on the number of points you earn on each exam, quiz, or assignment, each of you has the ability to determine what your current grade is at any point in the semester.

For example: Let’s say you achieved a score of 40 out of 50 on Lecture Exam #1, 35 out of 50 on Lab Exam #1 and 9 out of 10 on a quiz. At this point you would have earned 84 out of a possible 110 points available. 84 divided by 110 = 76.36%. Therefore, at this point in the course you would be in the “C” range. Since you know how many points are still available in the semester, you always know where you stand and how many points you will need to earn in order to achieve the grade that you want. It is very important that you routinely monitor your standing in the class in order to prevent finding yourself unable to achieve your personal goals at the end of the semester.

Make-up exams: As a general rule, make-up exams will not be offered. Therefore, you must make every human effort to make it to class to take the exam. Obviously, exceptions will be made for extreme circumstances which are out of your control such as a death or hospitalization of an immediate family member (or yourself) that can be documented, military service, etc. Not feeling well, a previously scheduled dentist appointment, etc… are not acceptable excuses. If you anticipate that you will be unable to make it to an exam you need to contact me AS SOON AS POSSIBLE PRIOR TO EXAM TIME. This can be accomplished via an email or voicemail late at night or early in the morning, even if I don’t immediately respond, or a conversation prior to the start of the exam. It is important to note that make-up exams will NOT be the same exams that the rest of the class took. Make-up exams will most likely involve long-answer essay type questions, not just a different set of multiple choice questions. Please take this into account when deciding whether or not you really think you need to miss an exam.

Attendance and quizzes:

Attendance will not be recorded in this class and generally will not OFFICIALLY have a direct effect on your grade. That being said, it is important to show up for lecture. Getting the notes from someone else or reading up in the book will not substitute for physically being in class. Poor attendance at lecture will almost certainly make it difficult to absorb and comprehend all the material you will be responsible for in this accelerated class. Lectures will not necessarily include ALL the material from the book and will often include material that is not specifically covered in the book. As your instructor, I am always eager to help a hard-working student understand the required material. My office door is pretty much always open if you want to talk and I will do my best to arrange specific times to discuss class.

NOTE: Although I truly understand that this course takes place during the summer and many of you have previously scheduled trips, events, obligations, etc…It is very important to attend class. As previously noted, we will be covering a significant amount of information each day. That being said, if you currently are planning on missing more than one or two lectures this summer I would seriously consider taking this course at a different time.

Students with Disabilities:

It is the policy of both WSU and Drs. Garbrecht and Larson to accommodate the special needs and requirements of all students. Please contact Dr. Garbrecht or Dr. Larson as soon as possible if you have a documented disability and require special accommodations for lecture, lab, or test taking. In addition, you are encouraged to contact the Access Services office (314 Maxwell Hall) at [www.winona.edu/accessservices/](http://www.winona.edu/accessservices/) or 457-5878.

Hints and Tips:

Although this course does require the absorption of large amounts of information, simple memorization of terms and facts will not get you the grade that you want. To fully understand human anatomy and physiology, one must be able to integrate knowledge of structure and organization (anatomy) and understand how this relates to organ and system function (physiology). Obviously, each of you have different skills and will learn in many different ways, so no one method will work for everyone. Your job is to find a study method that you are comfortable with, fits your schedule and most importantly will help you get the grade that you want.

A few suggestions:

1. Study and read on a regular basis (i.e, every day). Trying to “cram” right before an exam is not only stressful, but will make it very difficult to do well on exams which cover a great deal of information.
2. Get help as soon as possible if you are struggling. Much of what we go over in lecture will be used as a foundation for later learning in class. So, if you fall behind early and don’t get help, you will almost certainly struggle later on.

Tentative Course Schedule: (Material covered each day is subject to minor changes, ***but exams will take place as scheduled***)

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| May 2019  **Bio 211 Schedule** | | | |
| Monday | Tuesday | Wednesday | Thursday |
| 13  Lab: Bones  **Bone Bins/Skeletons** | 14  Lab: Bones  **Bone Bins/Skeletons** | 15  Lab: Bones  **Bone Bins/Skeletons** | 16  Lab: **BONES LAB EXAM** |
| 20  Lab: Histology/Light microscope  **Microscopes/Slide boxes** | 21  Lab: Histology  **Microscopes/Slide boxes** | 22  Lab: Histology/Integument  **Microscopes/Slide boxes/Skin Models** | 23  Lab: Histology/Integument  **Microscopes/Slide boxes/Skin Models** |
| 27  **Memorial Day – No class/lab** | 28  Lab: Muscles  **Histology/Integument Lab Exam** | 29  Lab: Muscles and start histology/cytology  **Arm/Leg Models** | 30  Lab: Muscle Histology/cytology  **Arm/Leg Models/Muscle cell models** |
| June 3  Lab: Muscle Histology/cytology  **Arm/Leg Models/Muscle cell models** | June 4  Lab: Muscle Histology/cytology  **Arm/Leg Models/Muscle cell models** | June 5  Lab: **MUSCULAR SYSTEM LAB EXAM** | June 6  Lab: Nervous system/Eye and ear  Finish up Brain and Spinal Cord/Nerves  **Brain models/Preserved brains/Ventricle models** |
| JUNE 10  Lab: Nervous system/Eye and ear  **Spinal Cord Models** | JUNE 11  Lab: Nervous system/Eye and ear  **Spinal Cord Models/Eye/Ear models** | JUNE 12  Catch up and review for lab exam  **Spinal Cord Models/Eye/Ear models** | JUNE 13  Final Lecture Exam  **NERVOUS SYSTEM EYE/EAR LAB EXAM** |

# Winona State University Statement on Inclusive Excellence

Commitment to Inclusive Excellence: WSU recognizes that our individual differences can deepen our understanding of one another and the world around us, rather than divide us. In this class, people of all ethnicities, genders, religions, ages, sexual orientations, disabilities, socioeconomic backgrounds, regions, and nationalities are strongly encouraged to share their rich array of perspectives and experiences. If you feel your differences may in some way isolate you from WSU’s community or if you have a need of any specific accommodations, please speak with the instructor early in the semester about your concerns and what we can do together to help you become an active and engaged member of our class and community.

# Winona Campus Resources

* Student Support Services, Krueger Library 219, 457-5465 ([www.winona.edu/studentsupportservices/](http://www.winona.edu/studentsupportservices/))
* Inclusion and Diversity Office, Kryzsko Commons Room 122, 457-5595 ([www.winona.edu/culturaldiversity/](http://www.winona.edu/culturaldiversity/))
* Disability Services, Maxwell 314, 457-2391 ([www.winona.edu/disabilityservices/](http://www.winona.edu/disabilityservices/))
* Counseling Center, Integrated Wellness Center 222, 457-5330 ([www.winona.edu/counselingcenter/](http://www.winona.edu/counselingcenter/))
* Writing Center, Minné Hall 348, 457-5505 ([www.winona.edu/writingcenter/](http://www.winona.edu/writingcenter/))
* Math Achievement Center, Gildemeister 135, 457-5370

GLBTA Advocate, 457-5330 Advising/Retention, Maxwell 314, 457-5878 ([www.winona.edu/advising/](http://www.winona.edu/advising/)