



## NVCC COURSE SYLLABUS

### BIO 211 HUMAN ANATOMY & PHYSIOLOGY I CRN: 3121 (M-W 4 credits) Fall 2021

**\*\*Subject to change; CDC and BOR recommendations**

*When on any NVCC campus, students must wear a mask that covers their mouth and nose AT ALL TIMES. Those with underlying medical conditions and have been advised by a certified medical professional not to wear a mask or other personal protective equipment (PPE) shall not come to campus without prior approval. Approval to be on any NVCC campus without a mask or other PPE may be obtained by contacting Disability Services and presenting official documentation from a certified medical professional. In addition, when indoors on campus, you must maintain Social Distancing of 3 feet at all times.*

*Update COVID-19 Vaccination Requirement: Please find the CSCU's latest vaccine guidance here: <https://www.ct.edu/covid19#faqs>*

#### PREREQUISITES:

Grade of C or better in BIO 105 or BIO 115, or the successful completion of the BIO 105 Waiver Exam (for students who have completed a high school Biology course with a lab) or by permission of the Instructor or the Division Director or by presenting proof to both the instructor and the Counseling Center of having earned a score of 3 or better on the Biology High School Advanced Placement or you obtain permission from both the Instructor and the STEM Director.

#### COURSE DAYS and TIMES:

**Mondays** 2:00-4:30 PM (Lecture) Room E440  
**Wednesdays** 2:00-4:40 PM (Lab) Room E-633 or E-438

*Lab rooms will be announced in advance. Rooms are topic/exercise-specific for this section.*

#### LEARNING MODALITY:

Traditional: Classes taught live on-campus (both Lecture and Lab)  
Interactive: Assignments, homework and projects.

[www.LawrenceGAltman.com](http://www.LawrenceGAltman.com)

**CAMPUS LOCATION:** Waterbury, CT

**CLASS LOCATION:** Ekstrom Hall

## INSTRUCTOR INFORMATION:

<b>Name:</b> Lawrence G. Altman, Ph.D.	<b>NVCC e-mail:</b> <a href="mailto:LAltman@nv.edu">LAltman@nv.edu</a>
<b>NVCC phone:</b> 203-596-8715 <b>LEAST</b> effective. <b>E-mail</b> is Definitely preferred.	<b>NVCC office:</b> Ekstrom E-427
<b>Office Hours:</b>	Monday 4:45 – 5:45 PM Room E-427 Tuesday 4:45 – 5:45 PM Room E-427 Wednesday 4:45 – 5:45 PM Room E-427 ☺ Thursday 4:45 – 5:45 PM Room E-427 : Some evenings and weekends. Online by arrangement.

## COURSE DESCRIPTION:

This is the first semester of a two-semester comprehensive course designed for those students who plan to continue in the science field or science-related areas. Major topic areas include molecular biology, cells, tissues and the integumentary, skeletal, muscular and nervous systems of the human body. Laboratory normally includes organ dissection(s). Alternative approaches will be assigned, as needed.

## REQUIRED TEXTBOOKS and RESOURCES:

An online [access code](#) for a program called **CONNECT** (McGraw-Hill) is [required](#).

*Note: If you bought these course materials within the past year for A&P I, your access code should still be active. Depending on when you activated your code, you may not need to purchase a new code for this course.*

*The Fall 2021 Course URL for your Monday/Wednesday A&P section is:*

<https://connect.mheducation.com/class/l-altman-olc-aligned-course-configuration-2022>

**REQUIRED:** An online **CONNECT** access code (required for all students) with a custom NVCC laboratory manual is available via campus bookstore or online as a single purchase. This option provides the required course resources to students at a *significantly* reduced price.

ISBN for this **bundle** is **97812065348144**. This package will also be used for **BIO 212 A&P II**.

**Register/purchase.** If you wish, you can do this *before* our first meeting. This is actually preferable. There is no need to go to the Bookstore.

Follow this link for *general* CONNECT info on YouTube:

<https://www.youtube.com/watch?v=E85ZXgBw6yQ>

**Completely optional spiral-bound Laboratory Manual:** Terry Martin. Laboratory Manual to accompany Human Anatomy & Physiology. Book options will be discussed during the first day of class. If you want a paper copy for the Lab manual, there may can be a small surcharge for the CONNECT package (approximately \$40).

**REQUIRED:** OpenStax textbook; a **free download**. Bill & Melissa Gates Foundation. *Very cool.*

<https://openstax.org/details/anatomy-and-physiology>

*Optional* hard copy (approximately \$50.00) is not required). Personal choice.

Most do not purchase the hard-copy text. You will, however, find it to be helpful as a reference.

**REQUIRED:** *A very good Photo Atlas. CONNECT does come with a Practice Atlas.*

An example of an atlas that has been well-received:

Morton, D. and Perry, J., *Photo Atlas for Anatomy and Physiology*.

Buy this used, any edition! Wadsworth Publishing Company, New York, NY, 1998 (ISBN = 0-534-51716-1)

**HELPFUL USED TEXTBOOKS: (not required).**

David Shier, Jackie Butler, and Ricki Lewis. Hole's Human Anatomy & Physiology, any edition, McGraw-Hill, 2016. Buy any edition. Purchase the least expensive editions 2010- ISBN 978-0-07-802429-0 If you can find it cheaper, you may save significantly with an older edition (*The 10th edition is very good for the Lab manual.*) Remember, the CONNECT bundle **does** come with an online textbook. Hard copies (loose-leaf) are available for an additional cost.

**Note:** Older Elaine Marieb A&P texts (Pearson) are **EXCELLENT** as a supplemental reference. Don't spend more than \$14 - 25. Some students like Marieb's Human A&P 5<sup>th</sup> edition

**STUDENT LEARNING OUTCOMES:**

Provide the student with following knowledge and skills:

The objective of this course is to familiarize students with basic concepts in molecular biology, cells, tissues and the integumentary, skeletal, muscular and nervous systems of the human body.

*By the end of this course, a student should be able to:*

- a. Use and understand descriptive anatomical and directional terminology.
- b. Understand the basic principles of biochemistry as they apply to cellular activities.
- c. Identify major cellular structures and explain their respective functions.
- d. Understand and discuss cellular activities such as cell division, cellular respiration and protein synthesis.
- e. Describe the basic tissues of the body, their location and their functions.
- f. Describe the structure and functions of the components of the integumentary system.
- g. Identify and describe the major components of the skeletal system and explain their functions.
- h. Identify and describe the major components of the muscular system and explain their role in body activities.
- i. Understand muscle physiology on both a cellular and molecular level.
- j. Describe the major components of the nervous system and explain their functional roles in communication.
- k. Identify and describe the special sense vision, hearing and equilibrium, smell and taste.

At the end of the course the student will:

Demonstrate mastery of materials presented in lecture and laboratory instruction.

The ability to integrate scientific principles and concepts will be emphasized throughout the course while emphasizing organizational and critical thinking skills beyond rote memory.

A strong foundation in these abilities will aid in the preparation of student for careers in the Allied Health fields.

## INSTRUCTIONAL METHODOLOGY

Highly interactive style of teaching based upon the Socratic method, whenever possible. Use of Power-point handouts integrating publisher and instructor's notes and diagrams,  
See [www.LawrenceGaltman.com](http://www.LawrenceGaltman.com)

## COURSE DELIVERY

See [www.LawrenceGaltman.com](http://www.LawrenceGaltman.com). Fall 2021: Both Lecture and Lab will be covered in-person. (Traditional)

Commnet will be used in limited ways. Also, CONNECT and [LawrenceGaltman.com](http://www.LawrenceGaltman.com) platforms.

## EVALUATION and GRADING:

Final grades will be based on the total number of points accumulated throughout the semester. The point distribution will be as follows:

### **LECTURE: (400 points)**

#### **Best 400 out of the following 500 points:**

4 Lecture Exams      400 points

1 Cumulative Final    100 points

### **LAB: (350 points)**

#### **Best 350 out of 400 Lab points:**

4 Lab Exams      400 points

Lowest Lab grade    Adjust to X/50 points

### **BONUS POINTS: (20 pts)**

#### **Completion of CONNECT chapters before Lecture Exams**

(7 pts. per exam): 28 Bonus points possible; excludes the Final.

The course grade will be *calculated on a percentage basis out of 750 points. In light of this grading policy, there are no makeups.*

For the purpose of computing numerical credit point averages, grades are evaluated as follows for each semester hour of credit. Grades on exams, papers, and quizzes, will be based on this grading system.

Letter Grade	Grade Scale	GPA Equivalency	Description
A	93-100	4.0	Distinguished achievement in all phases of the course or assignment
A-	90-92	3.7	
B+	87-89	3.3	
B	83-86	3.0	High level of achievement in some phases of the course or assignment
B-	80-82	2.7	
C+	77-79	2.3	
C	73-76	2.0	Basic understanding of the subject of the course or assignment
C-	70-72	1.7	
D+	67-69	1.3	
D	63-66	1.0	Minimal performance in the course of on the assignment
D-	60-62	0.7	
F	0-59	0.0	Failure

Final course grades are computed to a whole number. A grade at or above 0.50 truncated will be rounded up to the next whole number; any grade at or below 0.49 truncated will be rounded down to the whole number.

**Examples:**

Final Course Grade = 72.49 =

72 = C-Final Course Grade =

72.50 = 73 =

## COURSE OUTLINE and READINGS:

See the two *Binder Summary sheets* at end of this syllabus for approximate topics/dates for your section. Additional helpful websites and readings, grouped by topics may be found at [www.LawrenceGAltman.com](http://www.LawrenceGAltman.com). This schedule may be modified at the discretion of the instructor to accommodate changing needs, and the instructor will notify the students when doing so, but students are responsible for being aware of any changes.

## ACADEMIC ENGAGEMENT POLICY:

NVCC students are expected to actively engage in learning. Current CSU policy requires that students who do NOT begin participation in each class by a certain date be dropped from the class(es) in which there is no evidence of active participation. Logging into Blackboard alone does not prove engagement. Changes in enrollment may impact financial aid eligibility. For more information see this link: [1.19 Policy on Grades, Notations, and Academic Engagement.pdf \(ct.edu\)](#).

## STUDENT CONSENT to CLASS RECORDING:

In general, class sessions are not recorded. Some may, however, be recorded with advanced notice and permission.

Class sessions may be recorded and uploaded to Blackboard and shall be used for the purpose of completing course assignments only. Unless prior permission is obtained or reasonable accommodation granted, students are not permitted to record classes. Students participating in the virtual classroom should refrain from sharing personally identifiable information from education records. Additionally, U.S. Copyright Law, Connecticut State law, or relevant collective bargaining agreements protect the intellectual property of the faculty member, CSCU or Naugatuck Valley Community College, which may include, but is not limited to: lectures, demonstrations, or performances. Any redistribution of recordings without the faculty's or the institution's prior approval constitutes academic misconduct and may result in disciplinary sanctions. CSCU or (insert name of institution) reserves the right to delete the class recordings pursuant to CT State law retention requirements after the period of instruction is over.

**A consent statement to be given to you through Blackboard: (subject to modification.) TBA**

*I hereby authorize the faculty and staff at Naugatuck Valley Community College, and those acting pursuant to its authority to: (a) Record my likeness and voice on a video, audio, photographic, digital, electronic or any other medium. (b) Use my name in connection with these recordings. (c) Use, reproduce, exhibit or distribute solely in the college's Learning Management System (Blackboard). I release the College and those acting pursuant to its authority from liability for any violation of any personal or proprietary right I may have in connection with such use. I understand that all such recordings, in Blackboard, shall remain the property of the Naugatuck Valley Community College.*

## INCOMPLETE GRADE:

An Incomplete may be assigned at the instructor's discretion when a student requests it. It is a temporary grade that is assigned when extenuating circumstances lead to missing coursework or an inability to complete all assignments; it may not be used for excessive absences and the majority of the coursework should have been completed before the request is made. ***Please note that this grade is rarely used in this course.***

The student must agree to complete the requirements in the timeframe specified by the instructor. A faculty member who assigns an Incomplete must file a system report form. If the "I" is not changed, it must file a system report form. If a legitimate letter grade has not been earned by the end of the following semester, the "I" automatically converts to an "F."

## WITHDRAWAL POLICY: Fall 2021 withdrawal deadline: **Tuesday, November 19, 2021.**

Withdrawing from a course can affect students' academic progress as well as their financial aid. If a student is considering withdrawing, they should first talk to their instructors about their current progress and explore alternatives. If students are on financial aid, talk to that office to understand any consequences. If students decide to withdraw, they must submit a written withdrawal request to the Office of the Registrar by the appropriate deadline. **NOTE:** *Students are responsible for completing appropriate withdrawal paperwork; instructors do not withdraw students from their classes.* For more information, see this link on the website:

<https://www.nv.edu/Admissions-and-Aid/Paying-for-College/Financial-Aid/Withdrawing-from-a-class>

## BLACKBOARD LEARN:

This course makes moderate use of Blackboard Learn, the digital teaching and learning platform for Connecticut Community Colleges. Ongoing grades will only be posted here. No exceptions via email etc. The course syllabus will be posted at [www.LawrenceGaltman.com](http://www.LawrenceGaltman.com) and within Blackboard.

Students will need access to the Internet; you can use our open computer labs, our library, and the ACE. the digital teaching and learning platform for Connecticut Community Colleges. Ongoing grades will only be AnIncomplete may be assigned at the instructor's discretion when a student requests it. It is a temporary grade that is assigned when extenuating circumstances lead to missing coursework or an inability to complete all assignments; it may not be used for excessive absences and the majority of the coursework should have been completed before the request is made. The student must agree to complete the requirements in the timeframe specified by the instructor. The faculty member who assigns an Incomplete must file a system report form. If the "I" is not changed to a legitimate letter grade by the end of the following semester, the "I" automatically converts to an "F." No exceptions.

A copy of this syllabus, class handouts, and assignments are available at [www.LawrenceGaltman.com](http://www.LawrenceGaltman.com). Students will need access to the Internet; you can use our open computer labs, our library, and the ACE.

While mobile devices provide convenient access to check in and read information about courses, students should not try to take tests, quizzes, complete assignments, or submit substantive discussion posts in that way because Blackboard Learn is not fully supported on mobile devices at this time. If students have any problem using Blackboard Learn Mobile, they should contact Distance Learning at **203-575-8182** [dl@nv.edu](mailto:dl@nv.edu).

## TECHNICAL HELP:

For **CONNECT** issues, please do not call the instructor. McGraw Hill Higher Education DOES have support: See <https://www.mheducation.com/support.html> Also, phone support is often provided.

Other: During off-hours please visit our *Connecticut Community Colleges Online Help Desk* <https://cscu.edusupportcenter.com> and search "Blackboard Mobile Learn" or call **860-723-0221** available 24/7/365. If these resources are not available, please use a desktop/laptop computer for all course viewing and activity. Students and Faculty can access Blackboard Learn through our myCommNet portal <http://my.commmnet.edu> or through our Blackboard Learn App. While mobile devices provide convenient access to check in and read information about courses, students should not try to take tests, quizzes, complete assignments, or submit substantive discussion posts in that way because Blackboard Learn is **not** fully supported on mobile devices at this time. If students have any problem using Blackboard Learn Mobile, they should contact Distance Learning at **203-575-8182** [dl@nv.edu](mailto:dl@nv.edu).

During off-hours please visit our *Connecticut Community Colleges Online Help Desk* <https://cscu.edusupportcenter.com> and search "Blackboard Mobile Learn" or call **860-723-0221** available 24/7/365. If these resources are not available, please use a desktop/laptop computer for all course viewing and activity. Students and Faculty can access Blackboard Learn through our myCommNet portal <http://my.commmnet.edu> or through our Blackboard Learn App by referring to the help article entitled "Can I use Blackboard on my Smartphone or Tablet?" [https://cscu.edusupportcenter.com/sims/helpcenter/common/layout/SelfhelpArticleView.seam?inst\\_name=cscu](https://cscu.edusupportcenter.com/sims/helpcenter/common/layout/SelfhelpArticleView.seam?inst_name=cscu)



[&article\\_id=1912-1463992](#), or directly at <https://ctccs.blackboard.com>.

## **TUTORING RESOURCES:**



The Academic Center for Excellence (ACE). Our goal at the ACE is to continue to provide the greatest possible flexibility to our students and continue to support you in completing your assignments and allowing you to advance in your academic program. In order to protect our staff and students, we are shifting the ACE in-person tutoring and academic support services to online tutoring and support. ACE tutors are trained and prepared to help in these ways. To reach our ACE Tutors, [click here](#). We will get back to you within 24 hours.

## **LIBRARY RESOURCES:**

NVCC's Max R. Traurig Library provides print and online resources such as books, journals, films, and other learning resources on both the Waterbury and Danbury campuses. In order to access the library catalog search, visit the library website at <http://www.nv.edu/library>. On this page you can also chat with a librarian, read E-books, watch streaming videos, and request print books for pick up.

Students can also make online or phone appointments with a librarian via the library website. In the appointment, the librarian will show you how to find research articles for your assignments and how to cite the articles you plan to use.

A limited number of computers appointments will also be available. Please check the library website for the latest hours and information. The library also loans textbooks, laptops and Chromebooks, Wi-Fi hotspots, graphing calculators, USBs, guitars and drums, and sports equipment. Due to the COVID-19 pandemic, you will need to request an item via email, chat, or by placing a hold on the library website. You will be contacted when the item is available for you. The library also loans textbooks, laptops and Chromebooks, Wi-Fi hotspots, graphing calculators, USBs, guitars and drums, and sports equipment. Due to the COVID-19 pandemic, you will need to request an item via email, chat, or by placing a hold on the library website. You will be contacted when the item is available for you to pick up. Items will be loaned for the entire fall semester, but can be requested by another user after 3 wks.

In addition, library items may not be immediately available as they will be quarantined for 72 hours before becoming available again. Please contact the library staff with questions via

- live chat box on our website,
- text at (203) 951-8189, or
- email at [library@nv.edu](mailto:library@nv.edu)

### **Chat Hours:**

Monday - Thursday	8 am – 8 pm
Friday	8 am – 4:30 pm
Saturday & Sunday	10 am – 2 pm



## DEAN of ACADEMIC AFFAIRS:

Dr. H. Justin Moore

Kinney Hall – K719

[nv-academicaffairs@nv.edu](mailto:nv-academicaffairs@nv.edu)

203-575-8046 or 8231

## NVCC ABSENCES and ATTENDANCE GUIDELINES:

- The Faculty expects that each student will exercise personal responsibility regarding class attendance.
- All students are expected to attend every class session of each course for which they are registered.
- Students are responsible for all that transpires in class whether or not they are in attendance, even if absences are the result of late registration or add/drop activity at the beginning of a term as permitted by college policy.
- The Faculty defines excessive absence or lateness as more than the equivalent of one week of class meetings during the semester. Distance Learning courses will use criteria established by the Instructor. When presence counts towards a class participation grade, excessive absence or lateness may, at the discretion of the instructor, lower a student's course grade.
- Instructors will maintain class participation records.

If extenuating circumstances arise at any point during the semester, contact me

*Remember that **you are responsible** for what goes on in a class you have missed.*

***To that end, you may want to write down several of your peers' phone numbers and e-mail addresses.***

***Do not ask the instructor.***

## CLASS CANCELLATIONS:

If a class is cancelled or delayed because of weather or other unforeseen event, instructors may plan for a qualified substitute instructor or plan make-up assignments for any class time missed. Faculty can plan for make-up assignments through a variety of ways including, but not limited to, the use of reading days, extended class time, or online/additional class assignments. **Cancellation or delay of classes due to inclement weather is made only by the Chief Executive Officer (CEO) of the College. To learn about these cancellations or delays promptly, please sign-up for MyCommNetAlert for immediate notifications.**

## STUDENTS with SPECIAL NEEDS- ADA:

Students with Disabilities (including short-term impairments): If you are a student with a documented disability and you believe you will need accommodations or academic adjustments for this class, it is your responsibility to contact Terry Latella in Disability Services at 203-596-8608 or by email at [tlatella@nv.edu](mailto:tlatella@nv.edu). To avoid any delay in receipt of accommodations or academic adjustments, you should contact Disability Services as soon as possible. In response to your request, Disability Services may ask you to provide supporting medical documentation, diagnostic test results or professional prescriptions to evaluate your request for the accommodations or academic adjustments. Disability Services may also obtain its own professional determination of whether specific requested accommodations or academic adjustments are necessary. Please

note that accommodations or academic adjustments cannot be provided until approved and an accommodation letter from Disability Services has been received by faculty and student. If you experience a temporary impairment, medical condition, or are pregnant, and it interferes with your schoolwork, call Terry Latella in Disability Services at 203-596-8608 or by email at [tlatella@nv.edu](mailto:tlatella@nv.edu).

After providing documentation and completing the disability disclosure process, students are then encouraged to meet with their instructor(s) within the first two weeks of the semester to discuss any adjustments approved by the appropriate disabilities contact and to complete the Adjustments Agreement Form. Adjustments are not retroactive. Instructors, in conjunction with appropriate college personnel, will provide assistance and/or adjustments only to those students who have completed the disability disclosure and academic adjustments process.

## **ACADEMIC MISCONDUCT:**

At NVCC we expect the highest standards of academic honesty. Academic misconduct is prohibited in accordance with the Board of Regents *Student Code of Conduct* (Part D. Prohibited Conduct, 1. academic misconduct). This policy prohibits cheating on examinations, unauthorized collaboration on assignments, unauthorized access to examinations or course materials, plagiarism, and other proscribed activities. Academic misconduct extends to any student who aids in another's student's cheating. Plagiarism is defined as the use of another's idea(s) or phrase(s) and representing that/those idea(s) as your own, either intentionally or unintentionally.

The first offense of academic misconduct may result in a grade of "F" or "0" for the assignment and/or failure in the course at the discretion of the instructor. (Please see the Student Handbook on the College website link for more information: <https://nv.edu/portals/0/documents/student-services/student-handbook.pdf>.) Any subsequent instances of academic misconduct will require the student to meet with the Dean of Academic Affairs. The Dean, in collaboration with the instructor, will determine the consequence for the subsequent instances of academic misconduct. In addition, as academic misconduct is a violation of the Student Code of Conduct, referral will be made to the Dean of Student Services and addressed as appropriate.

A student may not obtain a transcript notation of "W" in a course if there exists substantial reason to believe the student has engaged in academic misconduct in the course. A transcript notation of "W" will only be permitted for such students when the final resolution results in finding the student did not commit academic misconduct.

## **OFFICIAL STUDENT EMAIL:**

NVCC students are given an official college-issued student email address, which is the primary way to receive any communications from the college. It is the students' responsibility to check their college-issued e-mail for all communications from their instructors and the college. Emails will no longer be sent to personal email accounts. Visit [nv.edu/email](https://nv.edu/email) for details on setting up an account or for help, call or visit IT: **203-575-8092** or [nv.edu/IT](https://nv.edu/IT). NVCC gives free access to web applications of Microsoft Word, Excel, PowerPoint and OneNote.

## STUDENT & FACULTY COMMUNICATION and PROCESSES:

Good communication between students and their instructors can make a big difference in academic experiences. If a student has a question or problem with the course or an assignment, they should always try to talk to their instructor first.

It is the College's policy to provide a mechanism and process whereby a student may formally appeal faculty decisions. When a student uses the appeals procedure, all parties should endeavor to resolve the dispute amicably at the earliest possible stage.

A student has the right to appeal any decision of a full-time or adjunct faculty member, staff member, program director, clinical coordinator or employee of the college. An academic appeal is defined as an allegation by a student that an employee of the college has violated federal or state laws and regulations, college or department policies, accreditation standards or the faculty member's own stated policy relating to the student's assignment of grades or other academic evaluation. The Student Academic Appeals Process and forms are available beginning on page 36 of the Student Handbook:

Academic Appeals Process and forms are available beginning on page 36 of the Student Handbook:  
<https://nv.edu/portals/0/documents/student-services/studenthandbook.pdf>

## STUDENT HANDBOOK:

Please see the *Student Handbook* on the College website (found under Student Resources) for more information on these and other policies and procedures such as all Code of Conduct violations, cell phone use in class, children on campus, smoking policy, and more.

<https://nv.edu/portals/0/documents/student-services/studenthandbook.pdf>

## NVCC SMOKE-FREE CAMPUS POLICY:

Section 19a-342 of the General Statutes of Connecticut prohibits smoking in any building or portion of a building owned or leased by the state. Smoking is also prohibited in any vehicles owned or leased by the state or any political subdivision thereof (this policy does not apply to personal vehicles). ***Smoking shall also be prohibited in all outdoor areas of Naugatuck Valley Community College campus property, including but not limited to parking lots, paths, fields, and sports/recreational areas.***

See page 43 of the Student Handbook.

## **CONTINUING NOTICE of NONDISCRIMINATION:**

**Continuing Notice of Nondiscrimination:** Naugatuck Valley Community College does not discriminate on the basis of race, color, religious creed, age, sex, national origin, marital status, ancestry, disability, including but not limited to present or past history of mental disorder, learning disability or physical disability, sexual orientation, gender identity or expression or genetic information in treatment or employment at the College, in admission or access to the College, or in any other aspect of its programs and activities. In addition, the College does not discriminate in employment on the additional basis of veteran status or criminal record. The College is required by Title VI of the Civil Rights Act of 1964 (Title VI), Section 504 of the Rehabilitation Act of 1973 (Section 504), Title II of the Americans with Disabilities Act of 1990 (Title II), Title IX of the Education Amendments of 1972 (Title IX), the Age Discrimination Act of 1975 (Age Act), and their respective implementing regulations at 28 C.F.R. Part 35 and 34 C.F.R. Parts 100, 104, 106 and 110, not to discriminate on the basis of race, color, or national origin (Title VI); disability (Section 504/Title II); sex (Title IX); or age (Age Act). Inquiries concerning the application of each of the aforementioned statutes and their implementing regulations to the College may be referred to the U.S. Department of Education, Office for Civil Rights, at (617) 289-0111 or 5 Post Office Square, 8<sup>th</sup> Floor, Boston, MA 02109-3921, or to contact Leah Glende, Director of Diversity and Inclusion/AA/EEO/Title IX/Section 504/ADA Compliance, Connecticut State Colleges and Universities, 61 Woodland Street, Hartford, Connecticut 06105, [GlendeL@ct.edu](mailto:GlendeL@ct.edu), 860-723-0727 (Rev 8/11/20).

LGA

First Draft: August 25, 2021

# **BINDER SUMMARY M/W**

www.LawrenceGAltman.com

**CRN: 3121**

## **BIO. 211: ANATOMY & PHYSIOLOGY I FALL 2021 COURSE OVERVIEW SHEET**

Ch. 01 Introduction to Human A&P.  
Ch. 02 Chemical Basis of Life  
Ch. 03 Cells (*selected topics; in Lab*)  
Ch. 04 Cellular Metabolism  
Ch. 05 Tissues (*selected topics; in Lab*)  
Ch. 06 Skin/Integumentary system

Ch. 07 Skeletal system  
Ch. 08 Joints of the Skeletal system  
Ch. 09 Muscular system  
Ch. 10 Nervous system I; Basic  
Ch. 11 Nervous system II; Divisions  
Ch. 12 Sensory (*selected topics; in Lab*)

**REQUIRED MATERIALS for BIO 211** See syllabus.

*Copies of this syllabus with books etc. may be found at LawrenceGAltman.com*

### **EXAMINATION DATES**

**E-Mail:** Fall '21: Email is **BEST**.  
LAltman@nv.edu

#### **OFFICE HOURS:**

4:45 pm – 5:45 pm Mondays and Wednesdays  
4:45 pm – 5:45 pm Tuesdays and Thursdays  
*Other times by appointment*  
*Subject to change during Fall 2021*

#### **EVALUATION and GRADING:**

##### **LECTURE:**

Best 400 out of 500 pts:  
4 Lecture Exam 400 points  
1 Cumulative Final 100 points

##### **LAB:**

4 Lab Exams: 400 pts.  
Best 350 out of Lab 400pts.  
Lowest Lab grade adjusted to X/50 pts.

##### **BONUS**

Meet CONNECT deadlines  
5 points total prior to each  
of the 4 Lecture tests.

<b>SEP 22</b>	<b>LAB TEST 01 100 points</b> See weeks 01-02-03
<b>SEP 27</b>	<b>LECTURE TEST 01 100 points</b> Chapters 01, 02 + Language of Anatomy
<b>OCT 06</b>	<b>LAB TEST 02 100 points</b> See weeks 04-05
<b>OCT 18</b>	<b>LECTURE TEST 02 100 points</b> Chapters 04 & 06
<b>OCT 27</b>	<b>LAB TEST 03 100 points</b> See weeks 07-08-09
<b>NOV 22</b>	<b>LECTURE TEST 03 100 points</b> Chapters 07-08-09
<b>NOV 17</b>	<b>LAB TEST 04 100 points</b> See weeks 10-11-12
<b>DEC 06</b>	<b>LECTURE TEST 04 100 points</b> Chapters 10 and 11
<b>DEC 13</b>	<b>FINAL EXAM 100 points</b> Lecture: cumulative

**BIO. 211: ANATOMY & PHYSIOLOGY I**  
**LECTURE SCHEDULE**  
**FALL 2021**

**Monday**  
**LECTURES**

**CRN: 3121**

<b>01</b>	AUG 30	Ch 01 A&P Intro	Assign 3 wks. Language of Anatomy Intro to Course Tour: Class website,	PPT PPT
<b>02</b>	SEP 06	-----	Labor Day (holiday, no class)	
<b>03</b>	SEP 13	Ch. 02	Chemical Basis of Life	PPT
<b>04</b>	SEP 20	Ch. 02	Chemical Basis of Life	PPT
<b>05</b>	SEP 27	<b>TEST</b> Ch. 04	<b>LECTURE TEST 01; Chapters 01-02 + Terminology</b> Cellular Metabolism	PPT
<b>06</b>	OCT 04	Ch. 04 Ch. 06	Cellular Metabolism Assign: Skin and Integumentary	PPT PPT
<b>07</b>	OCT 11	Ch. 04 Ch. 07	Cellular Metabolism (if needed) Skeletal system	PPT PPT
<b>08</b>	OCT 18	<b>TEST</b> Ch. 07	<b>LECTURE TEST 02; Chapters 4 &amp; 6</b> Skeletal system	PPT
<b>09</b>	OCT 25	Ch. 08	Joints of the Skeletal system	PPT
<b>10</b>	NOV 01	Ch. 09	Muscular system	PPT
<b>11</b>	NOV 08	Ch. 09	Muscular system	PPT
<b>12</b>	NOV 15	Ch. 10	Nervous system I; Basic <u>Note:</u> Nov. 24: last Day to apply for a "W"	PPT
<b>13</b>	NOV 22 NOV 24-25	<b>TEST</b> Ch. 10	<b>LECTURE TEST 03; Chapters 07-08-09</b> Nervous system I; Basic Thanksgiving Recess	PPT
<b>14</b>	NOV 29	Ch.11	Nervous system II Divisions	PPT
<b>15</b>	DEC 01	Ch.11	Nervous system II; Divisions	PPT
<b>16</b>	DEC 06	<b>TEST</b>	<b>LECTURE TEST 04; Chapters 10 - 11</b>	
<b>17</b>	DEC 1	<b>Cumulative FINAL EXAM</b> (optional) After test: Final Exam strategies Final Exam will contain a very small number of lab topics TBA		

**BIO. 211: ANATOMY & PHYSIOLOGY I**  
**LABORATORY SCHEDULE**  
**FALL 2021**

**Wednesday**  
**LABORATORIES**

**CRN: 3121**

Hole's 16th edition Lab manual pagination  
 (Any lab manual OK; see me)

# LAB

<u>Week:</u>	<u>Date:</u>	<u>REFERENCE:</u>	<u>TOPICS:</u>
01.	SEP 01	Introduction to A&P Exercise 02 (p.17) Exercise 04 (p. 29)	First Day, Intro to Course website, LawrenceGAltman.com Assign 3 wks. Language of Anatomy <b>PPT</b> Care and Use of the Microscope
02.	SEP 08 :	Exercise 05 (p.43) Exercise 06 (p.47)	Assign: Cellular Structure + membranes Movements thru Cell Membranes <b>PPT</b>
03.	SEP 15	Exercise 07 (p.55)	Cell Cycle <b>PPT</b> + Anat. Terminology <b>PPT</b>
04.	SEP 22	<b>LAB TEST 1</b> 100 points Exercise 08: (p.63)	<b>Lab weeks (see first column 01-02-03)</b> Epithelium, Histology <b>PPT</b>
05.	SEP 29	Exercise 09: Connective Tissue (p.67)	Connective Tissue, Histology <b>PPT</b>
06.	OCT 06 Begin Student Interviews	<b>LAB TEST 2</b> 100 points Exercise 12 (p. 85) Exercise 13 (p. 91) Exercise 14 (p. 97)	<b>Lab weeks: see first column 04-05</b> Bone Structure and Classification <b>PPT</b> Organization of the Skeleton <b>PPT</b> The Skull <b>PPT</b>
07	OCT 13	Exercise 15 (p. 109) Student Interviews	Vertebral Column <b>PPT</b> Thoracic Cage <b>PPT</b>
08	OCT 20	Exercise 16 (p. 117) Exercise 17 (p. 127)	Pectoral Girdle and Upper Limb Pelvic Girdle and Lower Limb <b>PPT</b>
09.	OCT 27	<b>LAB TEST 3</b> 100 points Exercise 32 (p. 249) Lab model	<b>Lab weeks (see first column) 06-07-08</b> Ear and Hearing (column + film clip) <b>PPT</b> Assign Muscles +Interactive model <b>PPT</b>
10.	NOV 03	Exercise 28 (p. 221) Exercise 27 (p. 219)	Meninges/Spinal Cord (Cadaver Video) Sheep Brain + human models <b>PPT</b>
11.	NOV 10	Exercise 34 (p. 249) Exercise 35 (p. 275)	The Eye (Models + charts+ reflex) <b>PPT</b> Visual Tests and Demonstrations
12.	NOV 17	<b>LAB TEST 4</b> 100 points	<b>Lab weeks (see first column) 09-10-11</b>