



## TENTATIVE—SUBJECT TO CHANGE

### BIOLOGY (BIOL) 2114: Anatomy and Physiology II

#### COURSE SYLLABUS

Lecture Tuesday Evening

Fall Semester 2020

#### COURSE INFORMATION

Credit Hours/Minutes: 3/2250

Class Location: HSA 902/903

Class Meets: Tuesday 5:00-6:30 in seat (**Hybrid** – 60% face-to-face; 40% online course work)

Course Reference Number (CRN): 20244

#### INSTRUCTOR CONTACT INFORMATION

Instructor Name: Dr. Erica M. Harrison

Office Location: Health Science Annex (HSA) – Building C, Room 901 (Vidalia)

Office Hours: Vidalia – M-R 8:00-10:30am by appointment only via WileyPLUS Conference

Email Address: [Erica Harrison eharrison@southeasterntech.edu](mailto:Erica.Harrison@southeasterntech.edu)

Phone: 912-538-3188

Fax Number: 912-538-3156

Tutoring Hours: By appointment only

**This course is taught in a hybrid format. Hybrid classes require students to complete a portion of the required contact hours traditionally by attending classes on campus (60%) while completing the remaining portion online (40%) at the student's convenience with respect to the instructor's requirements.**

#### SOUTHEASTERN TECHNICAL COLLEGE'S (STC) CATALOG AND STUDENT HANDBOOK

Students are responsible for all policies and procedures and all other information included in Southeastern Technical College's [Catalog and Student Handbook](http://www.southeasterntech.edu/student-affairs/catalog-handbook.php) (<http://www.southeasterntech.edu/student-affairs/catalog-handbook.php>).

#### REQUIRED TEXT

1. WileyPLUS package that comes with the looseleaf Principles of Anatomy and Physiology, Tortora and Derrickson, 15th edition (9781119492030). A hard copy of the text is not required but online access to WileyPLUS course suite is required.
2. Three-ring binder with notebook paper or composition notebook

#### REQUIRED SUPPLIES AND SOFTWARE

Ink pens, highlighters, etc. Come to class prepared. This is a hybrid course with online assignments. Internet access is required.

Note: Although students can use their smart phones and tablets to access their online course(s), exams,

discussions, assignments, and other graded activities should be performed on a personal computer. Neither WileyPLUS, Blackboard nor Georgia Virtual Technical Connection (GVTC) provide technical support for issues relating to the use of a smart phone or tablet so students are advised to not rely on these devices to take an online course.

**Students should not share login credentials with others and should change passwords periodically to maintain security.**

## **COURSE DESCRIPTION**

Continues the study of the human body. Topics include the endocrine system, cardiovascular system, blood and lymphatic system, immune system, respiratory system, digestive system, urinary system, and reproductive system. Students will complete all lecture and lab assignments online via WileyPLUS Next Gen before coming to class each week (except exams, lab activities, dissections, and hands-on assignments)

## **MAJOR COURSE COMPETENCIES**

1. The Endocrine System
2. The Cardiovascular System
3. The Blood and Lymphatic System
4. The Immune System
5. The Respiratory System
6. The Digestive System
7. The Urinary System
8. The Reproductive System

## **PREREQUISITE(S)**

BIOL 2113: Anatomy and Physiology

BIOL 2113L: Anatomy and Physiology Lab I

Co-requisites: Required

BIOL 2114L - Anatomy and Physiology Lab II

## **COURSE OUTLINE**

### **THE ENDOCRINE SYSTEM**

1. Discuss the functions of the endocrine system in maintaining homeostasis.
2. Contrast the endocrine and nervous systems.
3. Explain the general mechanisms by which hormones work.
4. Discuss the control of endocrine organs.
5. Describe the role of the hypothalamus in endocrine control.
6. Describe the location, hormones, and functions of the following endocrine glands: pituitary, thyroid, parathyroid, adrenal, pancreas, ovaries, testes, pineal, and thymus.
7. Describe endocrine disorders of hyposecretion and hypersecretion.

### **THE CARDIOVASCULAR SYSTEM**

1. Describe the anatomy of the heart and heart wall.
2. Describe the flow of blood through the heart including the pulmonary and systemic circuits.
3. Explain the structural and functional features of the conduction system of the heart and electrocardiogram (EKG) tracings.
4. Describe the principal events of the cardiac cycle.
5. Contrast the sounds of the heart and their clinical significance.
6. Calculate cardiac output and discuss factors that affect it.

7. List the risk factors involved in heart disease.
8. Contrast the structure and function of the various types of blood vessels.
9. Explain how the venous blood is returned to the heart.
10. Explain blood pressure and pulse.
11. Discuss the factors that affect blood pressure.
12. Contrast the clinical significance of systolic, diastolic, and pulse pressure.
13. Discuss the mechanism of capillary exchange.
14. Describe blood flow through systemic and pulmonary circuits. Identify the principal arteries and veins of the systemic, pulmonary, and hepatic portal circulations.
15. Describe unique aspects of fetal circulation.
16. Explain the effects of exercise on the cardiovascular system.
17. Describe significant cardiovascular diseases including coronary artery disease and congestive heart failure.

### **THE BLOOD AND LYMPHATIC SYSTEM**

1. Discuss the function and physical characteristics of blood, lymph, and interstitial fluid, and the lymphatic system.
2. List the components of plasma and their functions.
3. List the characteristics and functions of formed elements.
4. List the lymphoid cells including lymphocytes (T and B cells), plasma cells, macrophages and reticular cells.
5. Discuss lymphoid organs including lymph nodes, bone marrow, spleen, thymus, tonsils and nodule aggregates.
6. Identify the stages involved in hemostasis.
7. Explain the A, B, and O (ABO) and Rhesus (Rh) factor blood grouping systems.
8. Discuss causes of anemia.
9. Describe selected blood disorders and tests.

### **THE IMMUNE SYSTEM**

1. Discuss the basic properties of immunity
2. Discuss innate and adaptive immunity
3. Explain the process of cellular immunity and the role to T-cells.
4. Explain the process of humoral immunity and the role of B-cells and antibodies
5. Discuss the difference between primary and secondary responses
6. Describe types of active and passive immunity
7. Describe selected immune disorders

### **THE RESPIRATORY SYSTEM**

1. Identify the organs of the respiratory system and describe their functions
2. Contrast internal and external respiration and explain the role of the alveolar-capillary membrane.
3. Describe the events involved in pulmonary ventilation and discuss the significance of pleura
4. Explain the mechanism of oxygen and carbon dioxide transport in the blood
5. Describe the various factors that control the rate of respiration
6. Define selected disorders of the respiratory system

### **THE DIGESTIVE SYSTEM**

1. Identify the organs of the gastrointestinal tract and the accessory organs and their functions in the digestive system
2. Identify the general histological layers of the digestive organs and explain how the layers of modified to accommodate the function of each organ
3. Describe the mechanical movements of the GI tract
4. Identify the major digestive secretions and their functions
5. List the enzymes involved in the breakdown of fats, carbohydrates, and proteins

6. Describe the process of absorption of fats, carbohydrates, and proteins
7. Define the processes involved in the formation of feces and defecation
8. Describe common disorders of the digestive system
9. Discuss carbohydrate, fat, and protein metabolism.
10. Discuss metabolic rate and the role of the liver in metabolism
11. Describe the absorptive and post-absorptive states

### THE URINARY SYSTEM

1. Identify the external and internal gross anatomical features of the kidneys
2. Discuss the formation of urine explaining the microscopic anatomy of the nephron and its basic functions of filtration, reabsorption, and secretion
3. Discuss the role of the kidney in maintaining blood pressure and the function of the juxtaglomerular apparatus
4. Explain the role of key hormones on the kidney and their role in water and electrolyte balance
5. Discuss the role of the kidney in homeostasis of pH
6. Discuss the components of urine
7. Discuss the structure and physiology of the ureters, urinary bladder, and urethra
8. Describe disorders of the urinary system

### THE REPRODUCTIVE SYSTEM

1. Explain the structure and functions of the male reproductive organs and the pathway of sperm
2. Discuss the processes of spermatogenesis and spermatogenesis in the male
3. Describe the normal composition of semen and the role of the accessory sex glands in the production of semen
4. Discuss the role of hormones in the male reproductive system
5. Explain the structure and functions of the female reproductive organs and the egg/zygote
6. Discuss the process of oogenesis
7. Discuss the principal events of the menstrual and ovarian cycles and explain all hormones involved
8. Discuss the physiology of sexual intercourse
9. Discuss examples of male and female reproductive diseases

### GENERAL EDUCATION CORE COMPETENCIES

STC has identified the following general education core competencies that graduates will attain:

1. The ability to utilize standard written English.
2. The ability to solve practical mathematical problems.
3. The ability to read, analyze, and interpret information.

### STUDENT REQUIREMENTS

In order to be successful in this class, students should study a minimum of 2 hours per credit hour each week (minimum of 8 hours). Before arriving for class, students should read assigned chapters taking special note of bold-faced vocabulary terms and any study questions within the chapter. All online assignments and pre-lab work must be completed before the regularly scheduled class meeting on Tuesdays. Failure to comply with these suggestions will make it impossible to understand and follow the lecture material and will result in a student being unsuccessful in this course.

Students are responsible for the policies and procedures in the STC Catalog and Handbook. Additionally, during exams, students are to place all notebooks, bags, and other belongings on the floor or on the counters located in the back and sides of the classroom. Also during examinations students are to be seated with one empty chair between each student. No talking is permitted once the exams are handed out. **Students found with their cellphone or any other personal communication device (including smart watches) will be considered cheating and given a zero for the exam. This includes taking out a phone or similar device after**

**the student has completed the exam but while others in the classroom are still testing.**

Should classes be moved online (or students require online provisions specifically due to coronavirus), testing behavior and integrity should continue. Exams will proceed with the use of WileyPLUS. Respondus Lockdown Browser with Monitor is utilized. This will time and monitor students during online test taking. Any student found to be at fault with the system will be given a zero for the exam.

Students are expected to exhibit professional behavior at all times. Each student is to show respect and concern for fellow students and for the instructor. Insubordination will not be tolerated, and disciplinary measures will be enacted.

As students taking this course are striving to become healthcare professionals, they will be expected to follow certain healthcare program rules. This includes but is not limited to: proper dress (when in lab setting or other activities in class), no perfumes or strong fragrances, cleanliness (hands, clothes, hair), and effective communication skills.

Per STC policy no cell phones are allowed in hallways or in classrooms. If your phone must be with you it must be turned off and in a bag. In cases of emergency when a student needs his or her phone, he or she is expected to 1) notify the instructor before class begins and 2) leave the phone on silent (NO VIBRATE) while they are in the class (this excludes examination guidelines for phones). No personal calls are to be taken during class, regardless of the situation. This should be handled before or after class.

No eating or drinking is permitted in the lab or lecture classroom.

**COVID-19 MASK REQUIREMENT**

Masks or face coverings must be worn at all times while on the campus of Southeastern Technical College. This measure is being implemented to reduce COVID-19 related health risks for everyone engaged in the educational process. Masks or face coverings must be worn over the nose and mouth, in accordance with the Centers for Disease Control and Prevention (CDC). A student’s refusal to wear a mask or face covering will be considered a classroom disruption and the student may be asked to leave campus and/or receive further discipline.

**COVID-19 SIGNS AND SYMPTOMS**

We encourage individuals to monitor for the signs and symptoms of COVID-19 prior to coming on campus.

If you have experienced the symptoms listed below or have a body temperature 100.4°F or higher, we encourage you to self-quarantine at home and contact a primary care physician’s office, local urgent care facility, or health department for further direction. Please notify your instructor(s) by email and do not come on campus for any reason.

<b>COVID-19 Key Symptoms</b>
Fever or felt feverish
Cough: new or worsening, not attributed to another health condition
Shortness of breath, not attributed to another health condition
New loss of taste or smell
Chills; Repeated shaking with chills
Sore throat, not attributed to another health condition

## COVID-19 Key Symptoms

Muscle pain, not attributed to another health condition or exercise

Headache, not attributed to another health condition

Diarrhea (unless due to known cause)

**In the past 14 days, if you:**

Have had close contact with or are caring for an individual diagnosed with COVID-19 at home (not in healthcare setting), please do not come on campus and contact your instructor (s).

### COVID-19 SELF-REPORTING REQUIREMENT

Students, who test positive for COVID-19 or who have been exposed to a COVID-19 positive person, are required to self-report using the [COVID 19 Health Reporting Form](#). Report all positive cases of COVID-19 to your instructor and [Stephannie Waters](#), Exposure Control Coordinator, [swaters@southeasterntech.edu](mailto:swaters@southeasterntech.edu), 912-538-3195.

### ATTENDANCE GUIDELINES

Class attendance is a very important aspect of a student's success. Being absent from class prevents students from receiving the full benefit of a course and also interrupts the learning process. Southeastern Technical College considers both tardiness and leaving early as types of absenteeism. Responsibility for class attendance rests with the student. Regular and punctual attendance at all scheduled classes is required for student success. Students will be expected to complete all work required by the instructor as described in the individual course syllabus.

Instructors have the right to give unannounced quizzes/assignments. Students who miss an unannounced quiz or assignment will receive a grade of 0. Students who stop attending class, but do not formally withdraw, may receive a grade of "F" (Failing 0-59) and face financial aid repercussions in upcoming semesters.

Instructors are responsible for determining whether missed work may be made up and the content and dates for makeup work is at the discretion of the instructor.

Students will not be withdrawn by an instructor for attendance; however, all instructors will keep records of graded assignments and student participation in course activities. The completion dates of these activities will be used to determine a student's last date of attendance in the event a student withdraws, stops attending, or receives an "F" in a course.

### STUDENTS WITH DISABILITIES

Students with disabilities who believe that they may need accommodations in this class based on the impact of a disability are encouraged to contact the appropriate campus coordinator to request services.

**Swainsboro Campus:** [Macy Gay](#), ([mgay@southeasterntech.edu](mailto:mgay@southeasterntech.edu)), 478-289-2274, Building 1, Room 1208

**Vidalia Campus:** [Helen Thomas](#), ([hthomas@southeasterntech.edu](mailto:hthomas@southeasterntech.edu)), 912-538-3126, Building A, Room 108

### SPECIFIC ABSENCES

Provisions for Instructional Time missed because of documented absences due to jury duty, military duty, court duty, or required job training will be made at the discretion of the instructor.

### PREGNANCY

Southeastern Technical College does not discriminate on the basis of pregnancy. However, we can offer

accommodations to students who are pregnant that need special consideration to successfully complete the course. If you think you will need accommodations due to pregnancy, please make arrangements with the appropriate campus coordinator.

**Swainsboro Campus:** [Macy Gay, \(mgay@southeasterntech.edu\)](mailto:mgay@southeasterntech.edu), 478-289-2274, Building 1, Room 1208

**Vidalia Campus:** [Helen Thomas, \(hthomas@southeasterntech.edu\)](mailto:hthomas@southeasterntech.edu), 912-538-3126, Building A, Room 108

It is strongly encouraged that requests for consideration be made **PRIOR** to delivery and early enough in the pregnancy to ensure that all the required documentation is secured before the absence occurs. Requests made after delivery **MAY NOT** be accommodated. The coordinator will contact your instructor to discuss accommodations when all required documentation has been received. The instructor will then discuss a plan with you to make up missed assignments.

### **WITHDRAWAL PROCEDURE**

Students wishing to officially withdraw from a course(s) or all courses after the drop/add period and prior to the 65% point of the term in which student is enrolled (date will be posted on the school calendar) must speak with a Career Counselor in Student Affairs and complete a Student Withdrawal Form. A grade of "W" (Withdrawn) is assigned for the course(s) when the student completes the withdrawal form.

Important – Student-initiated withdrawals are not allowed after the 65% point. After the 65% point of the term in which the student is enrolled, the student has earned the right to a letter grade and will receive a grade for the course. Please note: Abandoning a course(s) instead of following official withdrawal procedures may result in a grade of "F" (Failing 0-59) being assigned.

Informing your instructor that you will not return to his/her course, does not satisfy the approved withdrawal procedure outlined above.

There is no refund for partial reduction of hours. Withdrawals may affect students' eligibility for financial aid for the current semester and in the future, so a student must also speak with a representative of the Financial Aid Office to determine any financial penalties that may be assessed due to the withdrawal. A grade of "W" will count in attempted hour calculations for the purpose of Financial Aid.

**Remember** - Informing your instructor that you will not return to his/her course does not satisfy the approved withdrawal procedure outlined above.

### **EVALUATION PROCEDURES**

To sit for the final exam in this course a student must maintain a Lecture Exam average of 70.0 or above prior to the date of the scheduled final exam. Exam averages of 69.9 will not be rounded up. If a student has below a 70.0 average, the student will be given a letter grade based on the exam average. There will be no drop grade for lecture or lab exams. **All lecture exams will take place Tuesdays in seat.**

#### **In case of emergency shutdown and shift to online examinations:**

The WileyPLUS testing format allows students a larger window of time to sit for an exam. However, students must pay close attention to the length of said exam (length of online exams vary based on the number of questions). If an exam is allotted 45 minutes, and the exam window closes at 11:45pm, students *must* log in to take the exam before 11 pm. The system will not allow a student to give themselves less than the overall testing time. If this occurs, students will not be permitted a makeup of the exam.

Additional notes concerning online examinations: issues with the exam (internet, freezing, etc.) must be taken to the instructor before the close of the test taking window. If you provide me with ample time and information to correct your testing issues, you will be able to take the exam after the close of the testing window. This system timestamps everything you do. Don't try to lie to me.

## **MAKEUP GUIDELINES**

Lecture examinations: Students will be allowed to make up one lecture examination (excluding the final exam), due to a documented, excused absence approved by the instructor. Any subsequently missed lecture exam will result in an automatic zero. Students that do not provide an excuse by makeup exam day will not be permitted to sit for his/her makeup exam.

Lecture assignments: Late assignments will be accepted but not for full credit. Assignments submitted after the due date will incur a 10% deduction per day late.

## **ASSIGNMENTS**

### **Learning Objectives**

Learning objective questions are provided on Wiley Plus and on the STC M-drive. These questions will be completed in various chapter sets, all with their own submission tab on Wiley Plus (see Lesson Plan and Wiley Plus calendar for due dates). All of these submission tabs are found in the "Learning Objectives" module in WileyPLUS. The first file is the blank set of Learning Objectives followed by every submission assignment for the term. It is advised that students download the Learning Objectives file and add to it each submission so that you have one complete file with which to study by the end of the semester.

### **Wiley Online Assignments**

Each chapter has several modules on Wiley that summarize that section and provide useful diagrams and animations to learn concepts in a variety of formats. At the end of these modules are Assessment Questions that students must complete. While completion of Modules is not required for access to the assessment questions, it would behoove students to review this information to be more successful in this course.

### **Group Project Presentation**

Students will work in small groups and give an educational presentation on a disease or disorder that affects certain body systems related to the chapters covered in this course. A list of topics, guidelines for arrangement, content, requirements, and a rubric can be found on the M-Drive and within the MODULES tab of the WileyPLUS Next Gen interface. Presentations should be 15-20 minutes long. Points will be deducted for going under or over the time limits. Students are required some type of visual aid. Informative videos or other media may be used if it will enhance the presentation. These video clips or other media are not to exceed 7 minutes of the presentation.

Group members should have equal participation in the completion of this project. A team rating scale will be provided for students to "grade" each other on the work they have done concerning their project. Additionally, students are encouraged to report team member failure to comply with scheduled meetings, discussions, emails, group texts, etc. Failure to correspond and communicate with group members will result in very different project grades.

The week prior to presentations (see course schedule), all presentations are to be submitted to the instructor, saved on the classroom computer's desktop from a jump drive, or downloaded from the web. Thus, no procrastination will be accepted.

## **ACADEMIC DISHONESTY POLICY**

The STC Academic Dishonesty Policy states All forms of academic dishonesty, including but not limited to cheating on tests, plagiarism, collusion, and falsification of information, will call for discipline. The policy can also be found in the STC Catalog and Student Handbook.

## **PROCEDURE FOR ACADEMIC MISCONDUCT**

The procedure for dealing with academic misconduct and dishonesty is as follows:



### 1. First Offense

Student will be assigned a grade of "0" for the test or assignment. Instructor keeps a record in course/program files and notes as first offense. The instructor will notify the student's program advisor, academic dean, and the Registrar at the student's home campus. The Registrar will input the incident into Banner for tracking purposes.

### 2. Second Offense

Student is given a grade of "WF" (Withdrawn failing) for the course in which offense occurs. The instructor will notify the student's program advisor, academic dean, and the Registrar at the student's home campus indicating a "WF" has been issued as a result of second offense. The Registrar will input the incident into Banner for tracking purposes.

### 3. Third Offense

Student is given a grade of "WF" for the course in which the offense occurs. The instructor will notify the student's program advisor, academic dean, and the Registrar at the student's home campus indicating a "WF" has been issued as a result of third offense. The Vice President for Student Affairs, or designee, will notify the student of suspension from college for a specified period of time. The Registrar will input the incident into Banner for tracking purposes.

## STATEMENT OF NON-DISCRIMINATION

The Technical College System of Georgia (TCSG) and its constituent Technical Colleges do not discriminate on the basis of race, color, creed, national or ethnic origin, gender, religion, disability, age, political affiliation or belief, genetic information, disabled veteran, veteran of the Vietnam Era, spouse of military member, or citizenship status (except in those special circumstances permitted or mandated by law). This nondiscrimination policy encompasses the operation of all technical college-administered programs, federally financed programs, educational programs and activities involving admissions, scholarships and loans, student life, and athletics. It also applies to the recruitment and employment of personnel and contracting for goods and services.

All work and campus environments shall be free from unlawful forms of discrimination, harassment and retaliation as outlined under Title IX of the Educational Amendments of 1972, Title VI and Title VII of the Civil Rights Act of 1964, as amended, the Age Discrimination in Employment Act of 1967, as amended, Executive Order 11246, as amended, the Vietnam Era Veterans Readjustment Act of 1974, as amended, Section 504 of the Rehabilitation Act of 1973, as amended, the Americans With Disabilities Act of 1990, as amended, the Equal Pay Act, Lilly Ledbetter Fair Pay Act of 2009, the Georgia Fair Employment Act of 1978, as amended, the Immigration Reform and Control Act of 1986, the Genetic Information Nondiscrimination Act of 2008, the Workforce Investment Act of 1998 and other related mandates under TCSG Policy, federal or state statutes. The Technical College System and Technical Colleges shall promote the realization of equal opportunity through a positive continuing program of specific practices designed to ensure the full realization of equal opportunity.

The following individuals have been designated to handle inquiries regarding the nondiscrimination policies:

<b>American With Disabilities Act (ADA)/Section 504 - Equity- Title IX (Students) – Office of Civil Rights (OCR) Compliance Officer</b>	<b>Title VI - Title IX (Employees) – Equal Employment Opportunity Commission (EEOC) Officer</b>
Helen Thomas, Special Needs Specialist Vidalia Campus 3001 East 1 <sup>st</sup> Street, Vidalia Office 165 Phone: 912-538-3126 Email: <a href="mailto:Helen.Thomas@tcsge.edu">Helen Thomas</a>	Blythe Wilcox, Director of Human Resources Vidalia Campus 3001 East 1 <sup>st</sup> Street, Vidalia Office 138B Phone: 912-538-3147 Email: <a href="mailto:Blythe.Wilcox@tcsge.edu">Blythe Wilcox</a>

<b>American With Disabilities Act (ADA)/Section 504 - Equity- Title IX (Students) – Office of Civil Rights (OCR) Compliance Officer</b>	<b>Title VI - Title IX (Employees) – Equal Employment Opportunity Commission (EEOC) Officer</b>
<a href="mailto:hthomas@southeasterntech.edu">hthomas@southeasterntech.edu</a>	<a href="mailto:bwilcox@southeasterntech.edu">bwilcox@southeasterntech.edu</a>

## ACCESSIBILITY STATEMENT

Southeastern Technical College is committed to making course content accessible to individuals to comply with the requirements of Section 508 of the Rehabilitation Act of Americans with Disabilities Act (ADA). If you find a problem that prevents access, please contact the course instructor.

## GRIEVANCE PROCEDURES

Grievance procedures can be found in the Catalog and Handbook located on Southeastern Technical College's website.

## ACCESS TO TECHNOLOGY

Students can now access Blackboard, Remote Lab Access, Student Email, Library Databases (Galileo), and BannerWeb via the mySTC portal or by clicking the Current Students link on the [Southeastern Technical College \(STC\) Website \(www.southeasterntech.edu\)](http://www.southeasterntech.edu).

## TECHNICAL COLLEGE SYSTEM OF GEORGIA (TCSG) GUARANTEE/WARRANTY STATEMENT

*The Technical College System of Georgia guarantees employers that graduates of State Technical Colleges shall possess skills and knowledge as prescribed by State Curriculum Standards. Should any graduate employee within two years of graduation be deemed lacking in said skills, that student shall be retrained in any State Technical College at no charge for instructional costs to either the student or the employer.*

## GRADING POLICY

Assessment/Assignment	Percentage
Lecture Exams	50%
Learning Objectives and Chapter Assessments	10%
Group Presentation	10%
Comprehensive Final	30%

## GRADING SCALE

Letter Grade	Range
A	90-100
B	80-89
C	70-79
D	60-69
F	0-59

## DISCLAIMER STATEMENT

**Instructor reserves the right to change the syllabus and/or lesson plan as necessary. The official copy of the syllabus is located on the STC M-Drive and will be discussed on the first day of class. The syllabus displayed in advance of the semester in any location is for planning purposes only.**

# BIOL 2114: Anatomy and Physiology II

## Fall Semester 2020 Lesson Plan

Subject to change at instructor's discretion

Date	Chapter/Lesson	Content	Tests, Assignments, & Due Dates	Competency Area
<b>Week 1</b> 08/18	Introduction to the Course Chapter 18	Introductions, Syllabus Review, WileyPLUS Orientation, Group Project Group Assignments <b>The Endocrine System</b> Review, discussion, and in-class assignments	<b>In seat:</b> <ul style="list-style-type: none"> <li>• Lecture Ch 18</li> <li>• Syllabus Quiz</li> <li>• File creation and group member information sheet</li> </ul> <b>Online assignments due by 08/24:</b> <ul style="list-style-type: none"> <li>• Ch18 Assessment (1)</li> </ul>	C: 1 G: a-c
<b>Week 2</b> 08/25	Chapter 19	<b>The Cardiovascular System: The Blood</b> Review, discussion, and in-class assignments	<b>In seat:</b> <ul style="list-style-type: none"> <li>• Lecture Ch 19</li> </ul> <b>Online assignments due by 08/31:</b> <ul style="list-style-type: none"> <li>• Ch19 Assessment (1)</li> <li>• LO's Ch 18-19</li> </ul>	C: 2 G: a-c
<b>Week 3</b> 09/01	Chapter 20	<b>The Cardiovascular System: The Heart</b> Review, discussion, and in-class assignments	<b>In seat:</b> <ul style="list-style-type: none"> <li>• Lect Exam 1 (Ch 18-19)</li> <li>• Lecture Ch 20</li> </ul> <b>Online assignments due by 09/07:</b> <ul style="list-style-type: none"> <li>• Ch20 Assessment (1)</li> </ul>	C: 2 G: a-c
<b>Week 4</b> 09/08	Chapter 21	<b>The Cardiovascular System: Blood Vessels and Hemodynamics</b> Review, discussion, and in-class assignments	<b>In seat:</b> <ul style="list-style-type: none"> <li>• Lecture Ch 21</li> </ul> <b>Online assignments due by 09/14:</b> <ul style="list-style-type: none"> <li>• Ch21 Assessment (1)</li> <li>• LO's Ch 20-21</li> </ul>	C: 3 G: a-c
<b>Week 5</b> 09/15	Chapter 22	<b>The Lymphatic System and Immunity</b> Review, discussion, and in-class assignments	<b>In seat:</b> <ul style="list-style-type: none"> <li>• Lect Exam 2 (Ch 20-21)</li> <li>• Lecture Ch 22</li> </ul> <b>Online assignments due by 09/21:</b> <ul style="list-style-type: none"> <li>• Ch22 Assessment (1)</li> </ul>	C: 3-4 G: a,c

<b>Date</b>	<b>Chapter/Lesson</b>	<b>Content</b>	<b>Tests, Assignments, &amp; Due Dates</b>	<b>Competency Area</b>
<b>Week 6</b> 09/22	Chapter 23	<b>The Respiratory System</b> Review, discussion, and in-class assignments	<b>In seat:</b> <ul style="list-style-type: none"> <li>Lecture Ch 23</li> </ul> <b>Online assignments due by 09/28:</b> <ul style="list-style-type: none"> <li>Ch23 Assessment (1)</li> <li>LO's Ch 22-23</li> </ul>	C: 5 G: a-c
<b>Week 7</b> 09/29	Chapter 24	<b>The Digestive System</b> Review, discussion, and in-class assignments	<b>In seat:</b> <ul style="list-style-type: none"> <li>Lect Exam 3 (Ch 22-23)</li> <li>Lecture Ch 24</li> </ul> <b>Online assignments due by 10/05:</b> <ul style="list-style-type: none"> <li>Ch24 Assessment(1)</li> </ul>	C: 6 G: a,c
<b>Week 8</b> 10/06	Chapter 25	<b>Metabolism and Nutrition</b> Review, discussion, and in-class assignments	<b>In seat:</b> <ul style="list-style-type: none"> <li>Lecture Ch 25</li> </ul> <b>Online assignments due by 10/12:</b> <ul style="list-style-type: none"> <li>Ch25 Assessment (1)</li> <li>LO's Ch 24</li> </ul>	C: 6 G: a-c
<b>Week 9</b> 10/13	Chapter 26	<b>The Urinary System</b> Review, discussion, and in-class assignments	<b>In seat:</b> <ul style="list-style-type: none"> <li>Lect Exam 4 (Ch 24-25)</li> <li>Lecture Ch 26</li> </ul> <b>Online assignments due by 10/19:</b> <ul style="list-style-type: none"> <li>Ch26 Assessment (1)</li> </ul>	C: 7 G: a-c
<b>Week 10</b> 10/20	Chapter 27	<b>Fluid, Electrolyte, and Acid-Base Homeostasis</b> Review, discussion, and in-class assignments	<b>In seat:</b> <ul style="list-style-type: none"> <li>Lecture Ch 27</li> </ul> <b>Online assignments due by 10/26:</b> <ul style="list-style-type: none"> <li>Ch27 Assessment (1)</li> </ul>	C: 1,3,7 G: a-c
<b>Week 11</b> 10/27	Chapter 28	<b>The Reproductive Systems</b> Review, discussion, and in-class assignments	<b>In seat:</b> <ul style="list-style-type: none"> <li>Lecture Ch 28</li> </ul> <b>Online assignments due by 11/02:</b> <ul style="list-style-type: none"> <li>Ch28 Assessment (1)</li> <li>LO's Ch26, 28</li> </ul>	C: 8 G: a,c
<b>Week 12</b> 11/03	<b>Lecture Exam 5</b>		<b>In seat:</b> <ul style="list-style-type: none"> <li>Lect Exam 5 (Ch 26-28)</li> </ul>	C: 1-8 G: a-c
<b>Week 13</b> 11/10		Presentations Day 1		C: 1-8 G: a-c

Date	Chapter/Lesson	Content	Tests, Assignments, & Due Dates	Competency Area
<b>Week 14</b> 11/17		Presentations Day 2		C: 1-8 G: a-c
<b>Week 15</b> 11/24	Chapters 18-28	Final exam review Lab Notebook checkoffs		C: 1-8 G: a-c
<b>Week 16</b> 12/01	Make-Up Exams	See Syllabus	Only those students with make-up exams attend	C: 1-8 G: a-c
05/04	Chapters 18-28	<b>Comprehensive Lecture Final Exam</b>	Case Study Assignments Due <i>b</i>	C: 1-8 G: a-c

#### COMPETENCY AREAS (C)

1. The Endocrine System
2. The Cardiovascular System
3. The Blood and Lymphatic System
4. The Immune System
5. The Respiratory System
6. The Digestive System
7. The Urinary System
8. The Reproductive System

#### GENERAL CORE EDUCATIONAL COMPETENCIES (G)

- a) The ability to utilize standard written English.
- b) The ability to solve practical mathematical problems.
- c) The ability to read, analyze, and interpret information.

## Group Project Presentation Evaluation

**PRESENTATION TOPIC:**

**GROUP MEMBERS:**

### GROUP PROJECT PRESENTATION RUBRIC

Students must adhere to rubric to outline presentation

Section/Points Possible	Criteria	Comments	Points Earned
<b>Introduction/Background 20 points possible</b>	Topic was introduced with factual information about its discovery, pathology, and prevalence.		
<b>Diagnosis and Treatment 20 points possible</b>	Adequate information was provided concerning symptoms, diagnosis, treatment and risk factors of treatment.		
<b>Ongoing Research 20 points possible</b>	Current efforts to improve prevention methods, diagnosis and treatments was adequately summarized.		
<b>Group Participation 20 points possible</b>	All group members had equal participation which includes but is not limited to: in and out of class meeting attendance, timely correspondence and communication, and provision of pertinent information on assigned portions of project.		
<b>Overall Presentation Quality 20 points possible</b>	The preparation, delivery, use of visual aids and video clips were classroom appropriate, interesting, and informative. The presentation met the time limits for the assignment. Students followed instructions for the organization of the presentation.		