TENTATIVE—SUBJECT TO CHANGE

BIOLOGY (BIOL) 1111L: Biology I

COURSE SYLLABUS
Lab
Fall Semester 2022

COURSE INFORMATION

Credit Hours/Minutes: 1/2250
Class Location: Vidalia Campus/Health Sciences Annex (HSA) Building C: Room 902
Class Meets: W, TH 11:45am-1:00pm
Course Reference Number (CRN): 20072

INSTRUCTOR CONTACT INFORMATION

Instructor Name: Sherry C. Sturgis
Professional Bio: I received my B.S. and M.S. in Biology from Georgia Southern University, with an emphasis in Ecology. I am an Ecologist, Conservationist, and Environmental/Nature Educator. I have taught many courses in Science, especially Biology in the field of higher education. I love all aspects of Biology, especially Anatomy & Physiology and Microbiology. I also enjoy teaching Forensic Science.
Office Location: Vidalia Campus/Health Sciences Annex (HSA) – Building C: Room 901
Office Hours: M-W 8:30am-11:30am & TH 8:00am-9:00am
Email Address: ssturgis@southeasterntech.edu
Office Phone: (912) 538-3188
Cell: (912)-531-4543, please text me first, and do not use this number unless you really need to reach me. I do not mind you contacting me by cell phone, just don't abuse the privilege.
Fax Number: NA
Tutoring Hours: By appointment only, I will be glad to set up a tutoring session during office hours.

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).

REQUIRED TEXT

1. Biology, Mader & Windelspecht, 12th edition, McGraw Hill
2. Laboratory Manual to accompany Biology, Mader, 12th edition, McGraw Hill

REQUIRED SUPPLIES AND SOFTWARE

3 hole binder, clear front report cover (make sure it is sturdy and can hold 100 pages or more), colored pencils, ink pens, highlighter, and any other supplies deemed necessary by instructor.
Ink pens, highlighters, and any other supplies deemed necessary by the instructor.

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 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

Provides an introduction to basic biological concepts with a focus on living cells. Topics include chemical principles related to cells, cell structure and function, energy and metabolism, cell division, protein synthesis, genetics, and biotechnology.

MAJOR COURSE DESCRIPTION/COMPETENCIES

1. Lab Safety
2. Microscope use and microscopic observation
3. Organization and Chemical Basis of Life
4. Cell Structure and Function
5. Metabolism
6. Cell Division
7. Protein Synthesis
8. Central Dogma of Biology
9. Genetics
10. Biotechnology
11. Evolutionary concepts

PREREQUISITE(S)

Regular Admission
Co-requisites: All Required
BIOL 1111

COURSE OUTLINE

LABORATORY SAFETY

1. Discuss and apply laboratory exercises encompassing the appropriate practice of laboratory precautions and laboratory safety

MICROSCOPE USE AND MICROSCOPIC OBSERVATION

2. Perform and apply laboratory exercises encompassing proper use of the microscope for microscopic observations

ORGANIZATION AND CHEMICAL BASIS OF LIFE

3. Perform and apply laboratory exercises encompassing organization and the chemical basis of life

CELL STRUCTURE & FUNCTION

4. Perform and apply laboratory exercises encompassing the cell and cell function

METABOLISM

5. Perform and apply laboratory exercises encompassing metabolism

CELL DIVISION

6. Perform and apply laboratory exercises encompassing cell division

PROTEIN SYNTHESIS

7. Perform and apply laboratory exercises encompassing protein synthesis

THE CENTRAL DOGMA OF BIOLOGY

8. Perform and apply laboratory exercises encompassing the central dogma of biology

GENETICS

9. Perform and apply laboratory exercises encompassing genetics

BIOTECHNOLOGY

10. Perform and apply laboratory exercises encompassing biotechnology

EVOLUTIONARY CONCEPTS

11. Perform and apply laboratory exercises encompassing evolutionary concepts

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 we have covered in the lecture course and be familiar with the topics. The instructor will also review lab topics with you prior to the labs being covered. All lab assignments must be completed and turned in by the due date. It is important to keep up with your work and not get behind. It is important that you show up for lab, labs will not be repeated. If you miss a lab, you will not receive credit.

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 are not allowed to leave the room during an exam (with their cell phone). Students need to go to the bathroom prior to the exam. The instructor will make an exception for emergencies. **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.**

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. Water is allowed if it is in a spill-proof container and must be kept under the desk or on the sides of the classroom.

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 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), 478-289-2274, Building 1, Room 1210
Vidalia Campus: Helen Thomas, (hthomas@southeasterntech.edu), 912-538-3126, Building A, Room 165

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), 478-289-2274, Building 1, Room 1210
Vidalia Campus: Helen Thomas, (hthomas@southeasterntech.edu), 912-538-3126, Building A, Room 165

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 (March 12) must speak with a Career Counselor in Student Affairs and complete a Student Withdrawal Form. A grade of "W" is assigned for the course(s) when the student completes the withdrawal form.

Students who are dropped from courses due to attendance after drop/add until the 65% point of the semester will receive a "W" for the course.

Important – Student-initiated withdrawals are not allowed after the 65% point. Only instructors can drop students after the 65% point for violating the attendance procedure of the course. Students who are dropped from courses due to attendance after the 65% point will receive either a "WP" or "WF" for the semester. 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 accessed 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

In order to sit for the final exam in this course a student must maintain a Lecture Exam and Lab 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 in seat.**

MAKEUP GUIDELINES

There will be a day at the end of the semester for lecture & lab make-up exams, this is the only day you can make-up an exam. There is no exception to this rule!

Lab 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.

Lab assignments: There will not be time set aside for making up labs. It is too time consuming to set up a lab again for one or two students. If you miss a lab, be prepared to take a zero. If you have a documented, excused absence approved by instructor, she may give an alternative assignment.

Individual/group project: If you do not show up on the day for your presentation, you will receive a zero. There is no make-up regarding this assignment. If you have a documented, excused absence approved by instructor, she may give you an opportunity to present the entire presentation at a different time.

ASSIGNMENTS

Students will be asked to bring a three prong notebook for lab class. This is for your lab activities, lab reports & related assignments. All lab related work, lab reports and assignments should be completed on the due date and kept in the notebook. Any new work or related lab material given by the instructor should also be kept in this notebook. Your work should be organized, neat and easy to read. You must attend the labs and complete the required work to receive credit for labs.

GROUP PROJECT PRESENTATION

Students will work in small groups and give an educational presentation on a topic in Biology. Your instructor will provide the class with a list of possible topics. The topic must be approved by the instructor. Presentations should be 10-15 minutes long. The presentation should consist of 15 slides. Students are required to use 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. Please see the rubric at the end of the syllabus.

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 deadline for the 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 prior to the day of the presentations. 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:

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

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).

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
Lab Exams	40%
Labs, Lab Assignments & Lab Reports (in class & homework)	30%
Group Presentation (Topic in Biology)	10%
Comprehensive Final	20%

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 1111L: Biology Lab

Fall Semester 2022 Lesson Plan

Subject to change at instructor's discretion

Date	Chapter/Lesson	Content	Tests, Assignments, & Due Dates	Competency Area
Week of 08/15	Introduction to the Course, syllabus review, outline, regulation, etc. 1: A View of Life & Ecology 2: Basic Chemistry	Introductions, Syllabus Review, Group Project Group Assignments, File creations, Intro to Biology Basic Chemistry **Lab 1-**Biology Quiz Lab Safety Microscope parts Microscope introduction Ecology-Species	Read the chapters for each week before coming to class and complete the learning objectives weekly (found on the M-Drive & in Blackboard. **Note:** Lab Reports should be placed in your notebook after competition weekly. Notebooks will be checked every two weeks in lab class.	C: 1-11 G: a-c
08/22	2: Basic Chemistry 3: The Chemistry of Organic Molecules	Basic Chemistry The Chemistry of Organic Molecules Macromolecules **Lab 2-** PH (acids & bases) Scientific Method Ecology-Species	Weekly lab report	C: 1,2,3 G: a-c
08/29	3: The Chemistry of Organic Molecules 4: Cell Structure and Function	The Cellular Level of Organization The Cell Prokaryote & eukaryote Functioning parts of cells **Lab 3-** Types of cells & cheek cell lab	Weekly lab report	C: 1-4 G: a-c

Date	Chapter/Lesson	Content	Tests, Assignments, & Due Dates	Competency Area
09/05 **09/05 Labor Day Holiday- No class on Monday for all STC classes**	5: Membrane Structure and Function	Cell membrane Osmosis & diffusion How the cell membrane functions **Lab 4**-Diffusion Ecology-Species	Weekly lab report Review for Lab Exam 1	C: 3-5 G: a, c
09/12	5: Membrane Structure and Function 6: Energy and Enzymes	What is energy, ATP Energy cycles Metabolism Proteins & enzymes **Lab 5-**ATP (Muscle use) Enzymes-Ripening of fruit	**Lab Exam 1 (All labs & lab content up to this date)** Weekly lab report	C: 5-7 G: a, c
09/19	7: Photosynthesis	What is photosynthesis What organisms use this process? How it works? **Lab 6-**Outdoor Botany & Photosynthesis	Weekly lab report	C: 4-5 G: a-c
09/26	7: Photosynthesis 8: Cellular Respiration	How photosynthesis works? What is cellular respiration? How it works? How the two processes are interrelated **Lab 7-** Stomata & Plant species	Weekly lab report	C: 4-5 G: a, c
10/03	8: Cellular Respiration	What is cellular respiration? How it works? How the two processes are interrelated **Lab 8- Plant video**	Weekly lab report Review for Lab Exam 2	C: 5-7 G: a-c

Date	Chapter/Lesson	Content	Tests, Assignments, & Due Dates	Competency Area
10/10	9: The Cell Cycle and Cellular Reproduction	What is the cell cycle? How the cycle functions? How cells reproduce and why? **Lab 9-**Mitosis microscopic slides	**Lab Exam 2 (All labs & lab content up to this date)** Weekly lab report	C: 6-7 G: a-c
10/17	10: Meiosis and Sexual Reproduction	Mitosis vs meiosis What is meiosis? **Lab 10-** Forensics lab 1 (fingerprints, hair, fibers, & handwriting)	Weekly lab report	C: 6-7 G: a-c
10/24 **10/24 Last day for students to withdraw without academic penalty**	11: Mendelian Patterns of Inheritance 12: Molecular Biology of the Gene	Research for Presentation **Lab 11-** Forensics lab 2 (bones, blood, blood typing, & other)	**Topic in Biology for Presentation** Weekly lab report	C: 8-9 G: a, c
10/31	Continuing work on Mendelian genetics problems 13: Regulation of Gene Expression	Research for Presentation Genetics Gene expression **Lab 12-** DNA & Genetics lab Research topic for Presentation	**Presentations** Review for Lab Exam 3 Weekly lab report	C:8-9 G:a-c
11/07	**Presentations** 14: Biotechnology and Genomics 15: Darwin and Evolution 16: How Populations Evolve	**Presentations** Biotechnology **Lab13**-Microbiology lab DNA, & Biotechnology Darwin & the theory of evolution	**Lab Exam 3 (All labs & lab content up to this date)** **Presentations** Weekly lab report	C: 9-10 G: a-c

Date	Chapter/Lesson	Content	Tests, Assignments, & Due Dates	Competency Area
11/14	**Presentations** 17: Speciation and Macroevolution 18: Origin and the History of Life Alternatives to the Theory of Evolution	**Presentations** Final Exam Review Speciation Darwin and the theory of evolution	**Presentations** **Lab reports must be complete & checked off**	C: 10-11 G: a-c
11/21 **11/21-11/24 Thanksgiving Holidays**	n/a	n/a	n/a	n/a
11/28	17: Speciation and Macroevolution 18: Origin and the History of Life Alternatives to the Theory of Evolution **Presentations** **Review for Finals**	**Presentations** Student study day **Review for Final Lab Exam** Make-Up Exams	**All Presentations must be completed by this date**	C: 1-11 G: a-c
Last day of class 12/06 Finals 12/07 & 08	**Final Lab Exam**	**Final Lab Exam**-all labs & lab material covered in course	n/a	C: 1-11 G: a-c

MAJOR COURSE COMPETENCIES

1. Lab Safety
2. Microscope use and microscopic observation
3. Organization and Chemical Basis of Life
4. Cell Structure and Function
5. Metabolism
6. Cell Division
7. Protein Synthesis
8. Central Dogma of Biology
9. Genetics
10. Biotechnology
11. Evolutionary concepts

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 Topic Instructions:

The instructor will provide an array of topics from which your group will select. These topics will apply to content in which we are studying throughout the semester. Some past topics have included the following:

Past Topic Examples:

Gopher tortoise populations in Georgia
Melanoma
Select an invasive species of Georgia
Gene therapy
Tuberculosis
Infertility
Bioterrorism
Speciation
Touch DNA
The 3 groups of fungi
Select a microbe or pathogen
Plant Pathology
Arsenic Poisoning
Macromolecules
Select a game species in Georgia
Gene therapy

Instructions:

Once your group has a topic, you will research the topic and concentrate on organizing your information for a presentation. This presentation should consist of 15 slides for a presentation. Your group should work out the work load and flow amongst yourselves. You should concentrate on organization and following the rubric below. The instructor will review this in class as well. A good organized guideline is as follows. This is only an example.

If your topic is Ovarian Cancer, a good organization would be;

a. Title page
b. What is ovarian cancer?
c. What groups are affected? What ages? Why are these groups mostly at risk?
d. How does ovarian cancer affect the body? Symptoms
e. How is this cancer treated? Is it treatable?
f. What is the outcome for someone with this type of cancer?
g. What are treatment options and why?
h. Who is doing the latest research on ovarian cancer? What college or organization? What researcher or doctor? What are they doing?
i. Conclusion

Biology 1111L
Group Project Rubrics

Students will work in small groups (2-3 people/group) and give an educational presentation on a topic in Biology. Each member will participate in the research process, presentation and discussion.

EVALUATIONS

Selected Topic in Biology: _____

Group Members: _____

Possible Points/Section	Criteria for each section	Instructor Comments	Points Earned
Introduction/Background (25 points possible)	The presenter(s) introduced the topic by providing an adequate introduction of the topic. This includes any background information.		
The topic was addressed in detail (25 points possible)	The presenter(s) provided in-depth information on the topic and explain it in detail, including examples.		
Ongoing Research (25 points possible)	The presenter addressed the following; How this topic is important, and how it applies in the discipline of Biology. The presenter also addressed the latest research on the topic selected.		
Overall Presentation Quality & Group Participation (25 points)	All group members appeared to have contributed equally. The group's preparation, delivery, and use of visual aids all were both interesting and informative. The presentation was organized and professional. The presenter addressed the audience, and did not "just read from the presentation slides."		
			Total Points: