Department of Biology

3601 Stillman Boulevard
Tuscaloosa, AL 35217

Course Number	BIO 131-D		
Course Title	Life Science		
Class Times & Location	Lecture: MWF	11:00-11:50 a.m.	STIN room 200
Credit hours	3 Credit hours (3 hour lecture)		
Prerequisites	None		
Textbook	*Campbell Biology, 10th Edition.* 2013		
Instructor	Dr. LorraBelle Hill		
Office	220 Stinson Hall		
Office Hours	9:00-10:00 am 12:00- 1:00 pm and 2:00-3:00 pm MWF By appointment only on T &TH		
E-mail address	lhill@stillman.edu		
Telephone number	205-349-4240 ex 8898		

Course Description

Life Science is the basic course for beginning college students that are non-science majors. The course deals with basic life processes and how the contemporary issues of health and environment impact the living organisms. The course provides information and knowledge on the scientific approach to interpreting and solving contemporary problems.

Course Objectives

After completing this course the student should be able to:

1. Understand the scientific method and be able to develop and test one or more hypotheses.

2. Explain how to care for and use a compound light microscope.

3. Define an element, atom, molecule, ion, isotope, and a compound.

4. Explain the differences among covalent, ionic, and hydrogen bonds.

5. State the cell theory.

6. Summarize the processes of photosynthesis and oxidation of glucose.

7. Describe the processes of mitosis and meiosis.

7. Perform one factor and two factor genetic crosses.

9. Describe the structure of RNA and DNA.

10. Explain the process of protein synthesis.

11. Understand the dynamic connections between living organisms.

12. Relate biological concepts to our everyday lives.

Text and Course Materials

Campbell Biology, 10th Edition. 2013. Jane B. Reece, Steven A. Wasserman, Lisa A. Urry, Peter V. Minorsky, Michael L. Cain. and Robert B, Jackson. Pearson Education.

Lecture Examination

There will be a total of 3 lecture examinations and 1 final. (Lecture exams accounts for 50% of your grade.)

Examination Format

The format of all exams will include but are not limited to, multiple choice, true/false, matching, and ordering, identification, fill in the blank, and short answer.

Class Assignments

Students are required to complete assignments in and outside of class. These can include but are not limited to: class projects, written scientific papers, reports, worksheets, models, and online activities. **Some exam questions will be based on these assignments**. Students are responsible for knowing when all assignments are due and submitting them to the instructor *on time*. (Class Assignments account for 50% of your grade.)

Internet

Important resources will be posted on Canvas. Students are encouraged to download and print out this material. Internet access is available in most libraries and in the campus computer rooms if you do not have web access at home.

Attendance

Students are expected to attend *all* scheduled classes. If a student is unable to attend it is his/her responsibility to get the information that was missed from another student. Students who are unable to attend class regularly regardless of the reason or circumstance should withdraw from the class. Withdrawal from class can affect eligibility for federal financial aid. As such, please inquire in advance if you cannot attend.

Make- up Policy

Students are permitted to make- up 1 exam only after being granted prior permission from the professor. Students must present a written Doctor's excuse. Students are required to make-up exams no more than 2 days after the test was given.

Grade Determination

Course Requirements	**Percentage**	**Points**
Lecture Exam 1	10%	100
Lecture Exam 2	10%	100
Lecture Exam 3	10%	100
Lecture Final Exam	20%	200
Assignment 1	10%	100
Assignment 2	10%	100
Assignment 3	10%	100
Assignment 4	10%	100
Assignment 5	10%	100
TOTAL	100%	1000

Grading Scale

Percent of Points	Number of Points	Grade
90% to 100%	900 to 1000	A
80% to 89%	800 to 899	B
70% to 79%	700 to 799	C
60% to 69%	600 to 699	D
Less than 60%	Less than 600	F

Student Discrimination/Harassment

Stillman College is dedicated to providing a safe learning environment free from the threat of harassment and discrimination based on race, color, gender, religion, nationality, national origin, age, or disability. Any violation of the State Board of Education policy for harassment or discrimination will not be tolerated.

Service for Persons with Disabilities

Stillman College provides environmental and programmatic access for persons with documented disabilities as defined in Section 504 of the Rehabilitation Act of 1973 and the Americans with disabilities Act of 1990. Any student who desires information or assistance in arranging needed services for disabling conditions should contact the ADA Accommodations Office for an appointment.

Academic Honesty Policy

Students are expected to comply with the Stillman College Academic Honesty Policy, which states that students must sustain integrity in all academic performances. As such, any student demonstrating fraudulent behavior e.g. cheating or submitting plagiarized work will be charged with a violation of this policy. The Academic Honesty Policy will be strictly enforced.

Lecture Schedule

Date	Lecture Topics		Lecture Exams
Wed.-Fri. 8/19-8/21	Intro to Principles of Biology Course Ch. 1: Organization of life & Scientific Method		
Mon.-Fri. 8/24-1/28	Ch. 2: Basic Chemistry, Atoms & Molecules		
Mon.-Fri. 8/31-9/4	Ch. 3: Water & Life		
Wed.-Fri. 9/9-9/11	Ch. 4 &5: Biological Molecules		**Lecture Exam 1**
Mon.-Fri. 9/14-9/18	Ch. 6: The Cell		
Mon.-Fri. 9/21-9/25	Ch. 7: Membrane Structure & Function		
Mon.-Fri. 9/28-10/2	Ch. 8: Metabolism		
Mon.-Fri. 10/5-10/9	Ch. 9: Cellular Respiration/ Fermentation		**Lecture Exam 2**
Mon.-Fri. 10/12-10/16	Ch. 10: Photosynthesis		
Mon.-Fri. 10/19-10/23	Ch. 12: The Cell Cycle Ch. 13: Mitosis & Meiosis		
Mon-Fri. 10/26-11/30	Online Classes: Research Project		**Lecture Exam 3**
Mon.-Fri. 11/2-11/6	Ch. 14: Genetics Ch. 15: Chromosomes & Inheritance		
Mon.-Fri. 11/9-11/13	Chapter 17: Gene Expression		
Mon.-Wed. 11/23-11/25	Ch. 16: DNA Structure & Function Give Final Study Guide Lecture Review		
Mon.-Wed. 12/7-12/9			**Lecture Final Exam**

NOTE: Dates of topics and exams are tentative and are subject to change at the instructor's discretion