BIOLOGY 10: Introduction to Life Science Online
Spring 2020
Instructor: Ms. Smith Bush
E-mail: bethany.bush@reedleycollege.edu
Lecture: Thursday 5:30-8:20pm; FEM 3
Office Hours: Monday & Wednesday 3:00-5:00pm LFS 13; Friday 2:00-3:00pm via email.

I. COURSE DESCRIPTION

A. Title: Biology 10 – Introduction to Life Science

B. Prerequisite: None - Just the desire to learn.

C. Summary: This lecture course is recommended for the non-biological science and pre-education majors. This is an introductory course using biological concepts. The organismal structure, function, inheritance, evolution, and ecology are covered. Students needing a life science lab must enroll in Biology 10L in addition to Biology 10. Not open to students with credit in Biology 3.

D. Biology 10 is a 3 unit lecture class.

II. COURSE CONTENT

Student Learning Outcomes:

Upon completion of this course, students will be able to:

1. Evaluate current scientific literature and examine how the scientific method is employed in biological research.
2. Identify levels of biological organization and apply these concepts to living systems.
    1. By examining anatomical and physiological features.
    2. By investigating chemical and energy relationships.
3. Assess human impacts on natural systems and critically evaluate solutions to environmental problems.
4. Explore the cellular basis of life.
5. Apply the principles of Mendelian genetics to evolutionary theory and human medicine.
6. Recognize the function of DNA and how its discovery has impacted modern science.
7. Classify the wide range of living organisms and identify the evolutionary mechanisms that have impacted this diversity.
8. Recognize the chemical basis of life.

III. REQUIRED MATERIALS:

1. Text: Mader, S. Essentials of Biology, custom, 4th edition McGraw Hill. ***With active Learnsmart access code.***
2. E-mail address. This can be obtained free through the school

IV. ATTENDANCE:

You must attend class to pass. I will drop any student who fails to attend the first day of class. I will also drop any student who misses 6 hours of class within the first 9 weeks of the semester.

I will also drop students who do not purchase and use an active Learnsmart access code by the end of the second week of class.

V. TESTS AND EVALUATIONS:

A. Grading

Description	Points Possible
29 Learnsmart assignments (10 pts. each)	290
5 Exams (100 pts. each)	500
Research Paper	140
Approximate Total Points =	930

B. Grading scale:

90% = A 80% = B 70% = C 60% = D 59% and below = F

At any point you can check your grades on our Canvas site through the Reedley College homepage: ***www.reedleycollege.edu***
Choose the gradebook link on the left hand side of the Canvas screen. You are encouraged to check this site regularly and keep track of your own grades!

C. *Exams* will include multiple choice questions, true/false, matching and essay questions. Many times these essays will be the main objectives of each chapter. **Policy for missed exams:** You will have one week to make up the missed exam. ***Your exam score will have 10 percentage points deducted as a penalty for late work.*** If you have a medical excuse you will be exempt for the point deduction

D. *Learnsmart assignments:* will be assigned for each chapter covered in the textbook. You will need an active Learnsmart access code purchased through the publisher. No late assignments will be accepted unless prior approval is given by the instructor.

E. Research Paper will be completed on a species of your choice. Paper will be submitted through Turnitin. More information will follow.

VI. Other information:

Drops: You have until half way through the semester to drop. If you elect to do so, be sure to drop yourself. Do not assume you have been automatically dropped. This is very important, as after the half way point a grade must be given, by state law, whether you attend class or not.

Extra Credit: Extra credit is recommended if you feel that you are a borderline

grade and that you need 25 points to get you over the hump. Extra credit should be viewed like an insurance policy. You're never quite sure when it may be needed. All extra credit is due the last week of the semester. You only qualify for extra credit if you have not missed more than 4 classes.

VII. Help:

If you should have difficulty grasping the material presented during the course be sure to talk to your instructor at the first sign of trouble. Often, a few minutes can clear up many problems! If you are having trouble studying, perhaps you need a few study hints or a tutor at the Tutorial Center. Please go in for help!

Always keep in mind that this is a three-unit course. As a general rule, each hour of lecture requires two hours of additional study outside of the classroom each week. Do your planning accordingly. Success comes before work only in the dictionary. Overall, I hope you have a fun semester and learn Biology along the way. Good Luck.

VIII. Academic Dishonesty

Students at Reedley College are entitled to the best education that the college can make available to them, and they, their instructors, and their fellow students share the responsibility to ensure this education is honestly attained. Because cheating, plagiarism, and collusion in dishonest activities erode the integrity of the college, each student is expected to exert an entire honest effort in all academic endeavors. Academic dishonesty in any form is a very serious offense and will incur serious consequences. See college catalog for details.

IX. Accommodations

If you have a verified need for an academic accommodation or material in alternate media (i.e. Braille, large print, electronic text, etc.) per the Americans with Disabilities Act (ADA) or Section 504 of the Rehabilitation Act, please contact me as soon as possible.

Lecture Schedule
Biology 10 – Spring 2020

Learnsmart chapters are due Friday @11:59pm

Lecture & Exams	Text readings	Assignments
Week #1: 1/16		
Orientation, Grading, Goals, Attendance	Syllabus,Schedule	Learnsmart Ch.1
A View of Life	Ch. 1	
Week #2: 1/23		Learnsmart Ch.2 & 3
Chemistry	Ch. 2	***Save the World Topic***
Organic Molecules	Ch. 3	***Choice***

Week #3: 1/30		
Inside the Cell	Ch. 4	Learnsmart Ch.4 & 5
Dynamic Cell	Ch. 5	
Week #4: 2/6		
Cell Reproduction	Ch. 8	Learnsmart Ch.8
Week #5: 2/13		
Cellular respiration/Fermentation	Ch. 7	Learnsmart Ch.7
Exam #1 (ch.1-5,7,8)		
Week #6: 2/20		
Photosynthesis	Ch. 6	Learnsmart Ch.6 & 11
DNA &	Ch. 11	
Protein synthesis		
Week #7: 2/27		
Sexual Reproduction	Ch. 9	Learnsmart Ch.9 & 10
Patterns of Inheritance	Ch. 10	
Week #8: 3/5		
Genetic Counseling	Ch. 13	Learnsmart Ch.13
Exam #2 (ch.6,9-11,13)		
Week #9: 3/12		Learnsmart Ch.14 & 15
Evolution	Ch. 14	***Save the World Rough Draft due Friday @***
Microevolution	Ch. 15	***11:59pm***
Week #10: 3/19		Learnsmart Ch.16 & 17
Macroevolution & Classification	Ch. 16	
Viruses	Ch. 17	***Save the World Peer Due Friday @ 11:59***
Week #11: 3/26		
Prokaryotes	Ch. 17	Learnsmart Ch.17pt 1
Exam #3 (Ch.14-17)		
Week #12: 4/2		Learnsmart Ch.17pt2 &
Protists	Ch. 17	Ch.18pt1
Fungi	Ch. 18	
Spring Break 4/9		
Week #13: 4/16		Learnsmart Ch.18pt2 ***Save the World Final***
Plants	Ch. 18	**Proposal due Friday** ***at 11:59pm***
Week #14: 4/23		
Animals	Ch. 19	Learnsmart Ch.19
Week #15: 4/30		
Exam #4 (Ch.17-19)		Learnsmart Ch.30
Ecology of Populations	Ch. 30	
Week #16: 5/7		

Ecosystems Biomes	Ch. 31	Learnsmart Ch.31
Week #17: 5/14		
Human Impacts Conservation Biology **Extra Credit due Friday @ 11:59pm**	Ch. 32	Learnsmart Ch.32
Week #18: 5/21 **Exam #5 (ch.30-32)**		