

**SUNY COLLEGE AT OLD WESTBURY
BIOLOGICAL SCIENCES PROGRAM**

Course: BS2100 Biology for Non-Science Majors Summer 2018 Room
Instructor: Dr. Chris Nahas Telephone Number: Email:
Office Hours: Wed. 12 p.m. – 1 p.m. by appointment
Class Meets Mon/Tues/Wed/Thurs from 1 p.m. – 3:30 p.m.

Course Description: A one-semester lecture/laboratory course in general biology for non-science majors. Surveys the major concepts and principles of biology, including cell structure and function, genetics, ecology, diversity and evolution. Topics related to the human experience are also discussed.

Course Objective: To acquire understanding of basic biological principles with an emphasis in the following areas: 1. The basis of life: cellular structure, function and chemistry. 2. The basis of inheritance: genetics, molecular genetics and reproduction. 3. Major organ systems of human body: digestion, circulation, blood, respiration and brain/nervous system. 4. Major concepts in evolution 5. Basic laboratory research skills.

Grading Policy

- 1. The final grade will be calculated based on the lecture (70%) and the laboratory (30%) grades.**
- 2. There will be four lecture exams, including the final. The lowest grade of the first three exams will be dropped. The final exam is comprehensive and cannot be dropped. In the event of a missed exam, it is up to the discretion of the instructor whether that exam may be dropped. In the event that you must miss an exam, you must inform the instructor before the scheduled exam time. McGraw-Hill Connect Assignments will be used for substantial extra credit.**
- 3. Attendance is expected in the Lectures. Please be on time as there will be occasional unannounced quizzes. In addition, there will be in-class extra credit assignments throughout the semester.**
- 4. Make up lecture exams will only be given for medical reasons. No make-up practical exams will be given.**
- 5. The laboratory grade will be calculated from two practical exams, lab quizzes, a written laboratory report and completion of lab exercises, including the lab summary questions. Late assignments will not be accepted. Unless you contact your instructor ahead of time, you will receive a zero on late assignments. You must receive a passing grade in lab in order to get credit for the course. Attendance is required in the laboratory. More than Two absences from lab for any reason will result in failure. Two latenesses will count as an absence.**
- 6. Withdrawal after first week will be given only for medical reasons.**

For the laboratory: You are required to have a laboratory notebook and colored pencils. You will use these to draw various slides and anatomical features that we will be examining. These notebooks will count towards your final laboratory grade. You should come to laboratory prepared to do the experiments, this means that you should review the laboratory exercise for each day before coming to lab.

**SUNY COLLEGE AT OLD WESTBURY
BIOLOGICAL SCIENCES DEPARTMENT
Summer 2018
BS2100 Biology: Non-Science Majors**

Course: BS2100 Biology for Non-Science Majors Summer 2018 Room NSB S- 107
Instructor: Dr. Chris Nahas Telephone Number Office Hours: Wed 12 p.m. – 1p.m. by appt.
Email: Class Meets Mon/Tues/Wed/Thurs from 1 p.m. – 3:30 p.m.

Textbook: S. Mader: Inquiry Into Life, Most Recent Old Westbury Edition With McGraw-Hill Connect for above text. It is expected that you will have familiarized yourself with the lecture topic before each scheduled lecture.

Class Dates

LECTURE TOPICS SCHEDULE

5/29/18	Orientation and Requirements - Study of Life Handout, 1-17
5/30/18	The Molecules of Cells (Basic Chemistry) The Molecules of Cells (Organic Molecules) Pages 19 – 29; 30 - 44
5/31/18	Cell Structure and Function Pages 45 - 66
6/4/18	Membrane Structure and Function / Review for Exam 67 - 80
6/5/18	****Exam I****
6/6/18	Metabolism: Energy & Enzymes Cellular Respiration Pages 99 – 112; 113 – 125
6/7/18	Cell Division Pages 81 – 98
6/11/18	Patterns of Gene Inheritance Chromosomal Bases of Inheritance Pages 469 – 486; 487 – 500
6/12/18	DNA Structure and Control of Gene Expression Biotechnology and Genomics / Review for Exam II Pages 501 – 524; 525 – 539
6/13/18	Begin 3rd Unit Material ---- Digestive System and Nutrition Pages 255 – 280 6/14/18
6/14/18	****Exam II****
6/18/18	Cardiovascular System Pages 213 - 234
6/19/18	Respiratory System / Review for Exam Pages 281 - 298
6/20/18	Begin 4th Unit Material ---- Nervous System Pages 315 – 344
6/21/18	****Exam III****
6/25/18	Reproductive System Pages 415 – 442
6/26/18	Evolution of Life Pages 541 – 568
6/27/18	Nature of Ecosystems / Review for Exam Pages 705 – 718
6/28/18	****Final Exam****

Please Note: Lab and Lecture times may be switched. Will be discussed first day of class.

**SUNY COLLEGE AT OLD WESTBURY
BIOLOGICAL SCIENCES DEPARTMENT
Summer 2018
BS2100 NON-SCIENCE MAJORS LAB**

Course: BS2100 Biology for Non-Science Majors Summer 2018 Room
Instructor: Dr. Chris Nahas Telephone Number: Office:
Office Hours: Wed 12 p.m. – 1 p.m. by appt. Email:
Class Meets on Tues/Thurs from 9:00 a.m. to 12:30 p.m.

Textbook: S. Mader: Inquiry Into Life, Lab Manual, Most Recent Old Westbury Edition Class

Dates	Topics	Lab
5/29/18	Orientation, Student Responsibilities Lab Safety/Metric Measurement and Microscopy	2
5/31/18	Chemical Composition of Cells	3
6/5/18	Cell Structure & Function / How Enzymes Function	4,6
6/7/18	Patterns of Inheritance & Human Genetics & DNA Biology and Technology/Review for practical	20,21,22 & Handout
6/12/18	LABORATORY PRACTICAL ***MIDTERM***	
6/14/18	Animal Organization & Basic Mammalian Anatomy I	11,13
6/19/18	Cardiovascular System & Nervous System and Senses	14,17
6/21/18	Basic Mammalian Anatomy II & Homeostasis	15,16
6/26/18	Evidences of Evolution and Sampling Ecosystems Review for Practical	23,30
6/28/18	LABORATORY PRACTICAL ***FINAL***	

ACCOMMODATIONS FOR STUDENTS WITH SPECIAL NEEDS: If you have or suspect you may have a physical, psychological, medical or learning disability that may impact your course work, please contact Stacey DeFelice, Director, The Office of Services for Students with Disabilities (OSSD), NAB, 2065, Phone: 516-628-5666, Fax (516) 876-3005, TTD: (516) 876-3083. E-mail: defelices@oldwestbury.edu. The office will help you determine if you qualify for accommodations and assist you with the process of accessing them. All support services are free and all contacts with the OSSD are strictly confidential. SUNY/Old Westbury is committed to assuring that all students have equal access to all learning activities and to social activities on campus.

SCHOOL OF ARTS AND SCIENCES POLICY ON ACADEMIC INTEGRITY

Plagiarism and cheating are condemned at all institutions of higher learning. These acts detract from the student's intellectual and personal growth by undermining the processes of studying, reading,

note-taking and struggling with one's own expression of ideas and information. Moreover, cheating inevitably involves secrecy and exploitation of others. See "Academic Integrity" and related topics in the Old Westbury Catalog, 20062008, p.46.

Plagiarizing means "presenting somebody else's words or ideas without acknowledging where those words and ideas come from" (Ann Raimes, Keys for Writers, 5th ed., p.188). Examples include:

- **copying material from the Internet or other sources and presenting it as your own**
- **using any author's words without quotation marks; using any quotation without credit**
- **changing any author's words slightly and presenting them as your own**
- **using ideas from any published sources (even in your own words) without exact credit. Note: This includes all material from the Internet or electronic databases.**
- **using long passages in a paper that have been written or rewritten by a friend or tutor**
- **turning in any assignment written by someone else**

However, using quotations or borrowed ideas while giving exact credit is good academic procedure.

Other types of academic dishonesty include unauthorized collaboration or copying of students' work (cheating); falsifying grades or evaluations; and others. They are treated as equivalent to plagiarism.

When detected and verified, plagiarism and other academic dishonesty will be punished severely. Normally, the first offense will result in a failure on the specific assignment; a second offense or a particularly flagrant first offense will result in failing the course. A second verified instance of plagiarism within the School of Arts and Sciences, after report of a first verified instance, will normally result in failing the course in which the second instance occurs. Know what plagiarism is and how to avoid it; for guidance see Raimes or any other college writing handbook. Please note: in this matter, ignorance is never an acceptable excuse.

Revised effective 5/20/08

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