

**Department of Biological Sciences  
Florida International University  
BSC 1010L – General Biology I Lab  
Fall 2013  
Syllabus**

**Course Description:** This lab is designed to reinforce the concepts of BSC 1010 lecture. Students will be exposed to the basic principles of biology including biochemistry, enzyme kinetics, cellular energetics, molecular biology and the characteristics of populations.

**Course Goals:** The course will present the fundamental principles and concepts of biology, reinforcing the concepts learned in General Biology I (BSC 1010) lecture. In the laboratory, students will learn and use the fundamental concepts of biology draw conclusions from data, to develop prediction and hypotheses to explain observations, and to design experiments to test hypotheses and predictions.

**Course Objectives:** Upon completion of this course, the student will:

- Understand and be able to apply the scientific method
- Know the elements of and be able to construct a scientific paper
- Know how to properly use a microscope to study organisms and their cells
- Know the function of organelles and understand the structure and function of cell membranes
- Understand how enzymes catalyze reactions and how they are important to life
- Understand how cells harvest energy from chemical structures
- Understand the connection between cell division and the principles of inheritance genetics
- Analyze basic crime scene evidence
- Know how to induce and detect successful transformation of bacteria
- Recognize and test the properties of major classes of biological molecules
- Understand and apply the basic principles of evolution and population genetics.
- Be able to perform basic laboratory skills

**The contact information of the Head TA is listed below. The contact information for your section's lab section is list on the lab website. The Lab website is:** <http://bioserv.fiu.edu/~biolab/labs/1010/index.htm>

**Head TA:** Jose Alberte  
**e-mail:** [jalberte@fiu.edu](mailto:jalberte@fiu.edu)  
**Office:** OE 296  
**Office Phone:** 305-348-3511  
**Office Hours:** by appointment only

**Reading Assignments:** You are required to read each lab assignment before the lab period. You must read the assigned readings from the lab manual as well as any supplemental material that must be printed from the laboratory website. This is essential for you to fully understand the procedures, complete the tasks, and answer the questions for each assignment. Weekly quizzes will be based on the assigned readings and the application of previous lab material.

**Required Lab Supplies:** The following supplies are available at the FIU Campus Bookstore and are **MANDATORY** for admission to the lab:

General Biology I Lab Manual, 2<sup>nd</sup> Edition; McGraw-Hill Publishing  
Jose Alberte, Thomas Pitzer, Kristy Calero

1. Lab coat (**Long sleeve shirts or sweaters are not acceptable**)
2. Closed-toe shoes
3. Lab goggles/glasses
4. Lab Manual

**\* You will NOT be allowed in the lab unless you bring your lab manual & are wearing your lab coat and closed-toe shoes- NO EXCEPTIONS!\***

**Shoe apparel:** You must wear closed-toe shoes in every lab. Keep in mind, this is for YOUR SAFETY in lab. You should wear shoes that cover your entire foot and avoid cloth-based shoes. **You cannot wear Crocs to lab – no exceptions.**

# Fiu Biology 1 Lab

**Karin Nielsen-Saines**



## **Fiu Biology 1 Lab:**

**Catalog** Florida International University,1992      **Homestead Air Force Base (AFB), Disposal and Reuse** ,1994  
Final Supplemental Environmental Impact Statement: Comments on the draft SEIS United States. Department of the Air Force,2000      *University Curricula in the Marine Sciences and Related Fields* ,1979      The Complete Book of Colleges 2021 The Princeton Review,2020-07 The mega guide to 1 349 colleges and universities by the staff of the Princeton Review including detailed information on admissions financial aid cost and more Cover      **The Complete Book of Colleges, 2013 Edition** Princeton Review,2012-08-07 Profiles every four year college in the United States providing detailed information on academic programs admissions requirements financial aid services housing athletics contact names and campus life  
**Journal of Crustacean Biology** ,1984      The Complete Book of Colleges, 2018 Edition Princeton Review,2017-07 Includes information on admissions cost financial aid required and recommended admissions criteria cost breakdowns and types of financial aid for 1 355 colleges and universities      **Catalog of Copyright Entries. Part 1. [B] Group 2. Pamphlets, Etc. New Series** Library of Congress. Copyright Office,1928      **General Acts, Resolutions, and Memorials Adopted by the ... Legislature of Florida Under the Constitution as Revised in 1968** Florida,2011      **Complete Book of Colleges, 2005 Edition** Princeton Review (Firm),2004-07-20 Up to date information on 1 780 colleges and universities      *Chelonian Conservation and Biology* ,2007      **Small Animal Care & Management** Dean Marvin Warren,2010 Small Animal Care and Management 3rd Edition is a comprehensive text that provides the skills and knowledge needed for students interested in working with small animals This highly researched text covers numerous species detailed by scientific names as well as the history and the domestication of animals including information on safety nutrition and careers      **Conference Proceedings** ,1981      **Complete Book of Colleges** Princeton Review (Firm),2009-08-04 Target the schools that best match your interests and goals TheComplete Book of Collegesprofiles all of the four year colleges in the U S more than 1 600 and is the key to a successful college search Complete Book of Collegesis packed with all of the information that prospective applicants need to know including the details on Academics Admissions requirements Application procedures Tuition and fees Transferring options Housing Financial Aid Athletics and much much more Fully updated for 2010 theComplete Book of Collegescontains all of the latest information about each school Its unique Admissions Wizard questionnaire is designed to help you find schools that meet your individual needs With competition for college admission at an all time high count on The Princeton Review to provide you with the most thorough and accurate guidance on the market      **Medical School Admission Requirements (Msar) 2011-2012** Aamc,Association of American Medical Colleges,2010-03      2005 Joint Assembly American Geophysical Union. Joint Assembly,2005      **Research Centers Directory** ,2010 Research institutes foundations centers bureaus laboratories experiment stations and other similar nonprofit facilities organizations and activities in the United States and Canada Entry gives identifying and descriptive

information of staff and work Institutional research centers and subject indexes 5th ed 5491 entries 6th ed 6268 entries

**The Complete Book of Colleges** ,2007 *Catalogue of Title-entries of Books and Other Articles Entered in the Office of the Librarian of Congress, at Washington, Under the Copyright Law ... Wherein the Copyright Has Been Completed by the Deposit of Two Copies in the Office Library of Congress. Copyright Office,1928*

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