BIOL-1010: Introduction to Biology I (Online | Fall 2019)

Instructor Information

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Course Information

Course Description
This course is the first of a two-semester science course for non-science majors. Students will study the characteristics of life, characteristics of science, the chemical organization of life and the cell – its structure, function and reproductive processes. After reviewing cellular concepts, students will then review genetics, DNA-RNA-protein synthesis, tissues and human organ systems. There are no prerequisites.

Student Learning Objectives
Course Objectives:
The objective of this course is to familiarize students with scientific theories, concepts, facts and formulas fundamental to science. It is part of a program devised to reinforce general education competencies. Students should be able to demonstrate a thorough knowledge of these subjects on both lecture and laboratory examinations.

Goals:

Issues in today’s world require scientific information and a scientific approach to informed decision making. Therefore, the goal of the Natural Science requirement is to guide students toward becoming scientifically literate. This scientific understanding gained in these courses enhances students’ ability to define and solve problems, reason with an open mind, think critically and creatively, suspend judgment, and make decisions that may have local or global significance.

Learning Outcomes:

Students will be able to demonstrate the ability to…. 1. Conduct an experiment, collect and analyze data, and interpret results in a laboratory setting. 2. Analyze, evaluate and test a scientific hypothesis. 3. Use basic scientific language and processes, and be able to distinguish between scientific and non-scientific explanations. 4. Identify unifying principles and repeatable patterns in nature, the values of natural diversity, and apply them to problems or issues of a scientific nature. 5. Analyze and discuss the impact of scientific discovery on human thought and behavior.

Prerequisites

There are no prerequisites.

Corequisites

There are no corequisites

Specific Course Requirements

This is a fully online course and you are expected to begin with the "Getting Started" module. You are expected to complete all your assignments in the discussion, dropbox, and quiz area in a timely manner as set in the course calendar.

Textbooks, Supplementary Materials, Hardware, and Software Requirements
**Required Text**


**Supplementary Materials**

The lab manual for this course is a workbook that is located in the "Getting Started" module. This is a PDF file and is provided to you free of charge.

**Hardware Requirements**

If this course requires the use of a computer, these are general recommendations for accessing any of the services that Southwest offers on the Web (e.g. My.Southwest, etc.).

- minimum Pentium IV or higher processor (recommended)
- SVGA monitor, minimum resolution 800x600 (1024x768 strongly recommended)
- CD-ROM or DVD drive
- floppy drive, zip drive, or CD-RW drive
- Mouse or compatible pointing device
- at least 512 MB of RAM (recommended)
- (optional) printer

**Software Requirements**

Microsoft Word is required for this course.

The software listed below is recommended for any student accessing Southwest services through the Internet. Your course may have specific software requirements.

- Windows 10 or 7
- Mac OS X (up to 10.12) (OS 10.14 recommended)
- Firefox (latest)
- Microsoft Edge
- Chrome (latest)
- Internet Explorer: DO NOT USE WITH PAWS
- Current Anti-Virus protection
- Reliable Internet connection (broadband recommended but not required)
Many instructors may require assignments to be submitted using Microsoft Excel or Microsoft Word. To learn how to obtain discounted software from Microsoft, visit http://southwest.tn.onthehub.com.

**Assessment and Grading**

**Method of Evaluation**

Your grade will be determined by the following methods:

- 4 Lecture Exams: 100 Points Each
- 1 Comprehensive Final Exam: 100 Points
- 16 Vocabulary Dropbox Assignments: 5 Points Each
- 7 Discussion Assignments: 3 Points Each
- 8 Lab Dropbox Assignments: 10 Points Each

**Grading Scale**

- A=90%-100%
- B=80%-89%
- C=70%-79%
- D=60%-69%
- F<60%

**Guidelines for Communications**

**Email Guidelines**

Each student has been provided a Southwest email account. Please do not email your classmates unless the topic relates specifically to this course. Emails that contain advertisements, solicitations, personal interests, etc. are strictly forbidden. Below are a few guidelines that you should keep in mind when sending email:

- Always include a subject line.
- Typing in all CAPS is considered SHOUTING in Cyberspace. So please use upper and lower case characters when sending emails.
• Remember, without facial expressions some comments may be taken the wrong way. Be careful in wording your emails and use good Netiquette
• Use standard fonts.
• Do not send large attachments without permission.
• Respect the privacy of other class members.

**Online instructors will respond to all emails within 48 hours.**

**Discussion Guidelines**
Below are a few guidelines that should be adhered to when using the Discussion forum. Messages that contain advertisements, solicitations, personal interests, etc. are strictly forbidden.

• Review the discussion threads thoroughly before entering the discussion.
• Please try to maintain threads by using the "Reply" button rather starting a new topic.
• Do not make insulting or inflammatory statements to other members of the class. Be respectful of others' ideas.
• Be patient and read the comments of other group members thoroughly before entering your remarks.
• Be positive and constructive in group discussions.
• Respond in a thoughtful and timely manner.

**Technical Support**

**Technical Support**

*My.Southwest:* Submit a *Student Technical Support Request.* Please provide a full detailed explanation of the problem.

*PAWS:* For course related questions, contact your instructor. For technical issues with the PAWS website, contact the College Helpdesk at (901) 333-4357 or Digital Learning at (901) 333-4612.

**Course Topics**

**Tentative Schedule**
Module 1--Study of life
Module 2--The Molecules of cells

Module 3--Cell structure and function

Module 4--Membrane structure and function

**Lecture test 1**

Module 5--Metabolism: energy and enzymes

Module 6--Cellular respiration

Module 7--Photosynthesis

Module 8--Cell division

**Lecture test 2**

Module 9--Patterns of gene inheritance

Module 10--Chromosomal basis of inheritance

Module 11--DNA structure and control of gene expression

Module 12--Biotechnology and genomics

**Lecture test 3**

Module 13--Human organization

Module 14--Cardiovascular system

Module 15--Respiratory system

Module 16--Digestive system

**Lecture test 4**

Specific test dates are given on course calendar.

Final exam is listed on course calendar.
Student Services

Embedded Librarian Service
This service may be found inside PAWS courses.

Two Southwest Librarians are assigned to work with you and your instructor throughout the course for the entire semester. The Librarians will suggest library resources and answer questions sent to "Ask A Librarian."

To contact a Librarian by email, go to the Classlist and select "Ask A Librarian."

Student Services Links
- Academic Support Centers / Tutoring
- Advising
- Campuses, Centers, and Site
- Student Disability Services Southwest Tennessee Community College is committed to serving all students, including students with disabilities, and adheres to the guidelines set forth in Title II of the Americans with Disabilities Act (ADA).
- Additional Links: Student Information & Services

Academic Support
The Academic Support Center (ASC) provides free services and resources to help Southwest students successfully reach their academic and career goals. These services include tutoring by peer and master tutors, computer labs, success workshops, academic coaching, early alerts from your instructors and areas for individual or group study at numerous locations. The ASC also provides Supplemental Instruction in some of our general education classes and the Center is also responsible for Academic Progress Reporting so that you will be aware of your academic standing during the 5th-6th week of the semester. Online tutoring services are offered through Smarthinking 24 hours a day, 7 days a week. Simply login to your PAWS to access this online tutoring resource.

Additional Information

Drop/Withdrawal Dates
See the current official college academic catalog for the withdrawal policies. Important semester drop and withdrawal dates can be found on the Cashier's Office Important Dates page.

**Academic Misconduct**

Plagiarism, cheating, and other forms of academic dishonesty are prohibited. A student guilty of academic misconduct, either directly or indirectly, through participation or assistance, is immediately responsible to the instructor of the class. The instructor has the authority to assign an "F" grade or a zero for the exercise or examination, or to assign an "F" for the course. College sanctions for academic misconduct may include suspension or dismissal from the College. Please see the section in the current Catalog on Academic Misconduct.

**Classroom Behavior:** Any student engaged in disruptive conduct or conduct violating the general rules or regulations of the College may be ordered to temporarily leave the classroom. Extended or permanent exclusion from the classroom can be achieved only through appropriate procedures of the College.

**Open Labs**

**Macon Cove Campus**

- Bert Bornblum Library: Available during library hours
- Farris Building, Room 2131: Monday-Thursday 8 a.m.-5:30 p.m., Friday 8 a.m.-4:30 p.m.

**Union Avenue Campus**

- Jess Parrish Library - Available during library hours
- M Building, Room 105, 8 a.m.-6:30 p.m.

**Gill Center**

- Computer Lab, Room 101 (Please note this room is available when classes are not scheduled. Schedule fluctuates each semester.)
- Library - Available during library hours

**Maxine A. Smith Center**

- Open Lab, Room 101
- Library - Available during library hours

**Whitehaven Center**
Syllabus Updates

The instructor reserves the right to make changes as necessary to this syllabus. If changes are necessitated during the term of the course, the instructor will immediately notify students of such changes.