

RAPPAHANNOCK COMMUNITY COLLEGE

SYLLABUS FOR Foundations of Biology BIOLOGY 01 John Kinzie, Instructor WARSAW and GLENNS (Interactive Video) FALL 2010

COURSE DESCRIPTION:

Foundations of Biology, BIO 01: Develops a basic understanding of plant and animal form, function, and relationships. Prepares students who have a deficiency in high school biology, may be repeated for credit.

PURPOSE OF COURSE:

This course is designed for the student who has not had, or needs to review, basic concepts of biological science as would usually be covered in a high-school level course. Completing this course should help prepare the student for success in BIO 101, NAS 161, the Practical Nursing program, and other courses that require high-school biology or the equivalent. This course will not satisfy Science credit requirements in any degree or transfer programs.

COURSE PREREQUISITES:

Completion of ENG 01, ENG 04, MTH 02 or higher by coursework or placement tests.

COURSE CREDITS:

3 Lecture hours, 3 Semester Credit hours

MEETING TIMES:

Lecture: Tuesdays 6-8:40 PM Glenns and Warsaw (Interactive Video)

COURSE OBJECTIVES:

Students successfully completing BIO 01 should:

- Know the characteristics that define life, and distinguish between living and non-living things
- Describe basic chemistry of life, including energy pathways
- Understand and be able to apply basic principles of genetics and heredity
- Define and describe biological evolution
- Discuss the forces that result in biological evolution
- Define biological populations, communities, and ecosystems, and describe the forces affecting them
- List and define the characteristics of each kingdoms/domains of life, and be able to classify organisms by kingdom/domain
- Appreciate the world around them and be able to view it from a more informed perspective

METHODS OF INSTRUCTION:

Lecture, discussion, and text readings are the primary methods of instruction. Computer simulations and tutorials, worksheets, and other assignments may all be used to help the student master the course information. Additional materials may be provided by the instructor during class or at the Blackboard site for this course. The textbook publisher also provides learning tools at the textbook site, www.mhhe.com/enger13e.

In this course, the student is expected to read the assigned text material prior to attending class, and *take detailed notes* from both text and lecture to maximize the learning process. Homework practice problems/questions may be assigned during class, and should be completed prior to attending the next period. Pertinent questions and discussion during class meetings are encouraged.

The student is advised to keep up with assignments and lecture material. Students should consult with the instructor as needed by email or after class for supplemental help on course material, or with the counseling center for help on specific issues such as study skills, time management or test anxiety.

INSTRUCTIONAL MATERIALS:

Text: *Concepts in Biology*, by Enger, Ross and Bailey, 13th edition ISBN: 978 0 07 340343 4

Textbook website at www.mhhe.com/enger13e

In class or other assignment materials may be provided by the instructor during class periods. Additional materials posted on Blackboard.

INSTRUCTOR AVAILABILITY:

Email: jkinzie@rappahannock.edu. Please use your RCC student (***@email.vccs.edu) account when corresponding about the course.

Instructor absence: If the instructor will be absent and class cancelled, this information will be posted as soon as possible as an Announcement at the class Blackboard site, along with any required assignment(s).

BLACKBOARD SYSTEM USE:

All students have RCC-assigned Email accounts and access to RCC's on-line Blackboard web site. This may be accessed from the RCC Home page, www.rappahannock.edu, then clicking MyVCCS and choosing your Blackboard link. [An alternate path to enter Blackboard is <http://learn.vccs.edu>.] Announcements will be posted at the Blackboard Web Site for this course.

Computers are available on both RCC Campuses in the Success Labs, libraries and other sites.

GRADING:

Announced quizzes will be given at the beginning of class covering the chapters presented during the previous weeks. There will be no make-up quizzes as the answers will be provided soon afterwards. If a graded quiz is missed, the grade will be a 0. These quizzes will account for 25 % of the final grade. Additionally, three tests will be assigned throughout the course, and the average of the tests will be the basis for 42% of the course evaluation. The final exam will be cumulative, with emphasis on the material covered since the last test, and will account for 33% of the final grade.

At the end of the course, one of the following grades will have been earned:

- S: Satisfactory completion of the course. (grade of at least 70%)
- R: Re-enroll. The student does not qualify for an S grade (60-69%)
- U: Unsatisfactory. (grade below 60%)

LATE WORK:

If a student finds he/she will be unable to attend class or complete an assignment or test on time, he/she should contact the instructor to discuss the situation.

Any Unit Test or Final Exam not taken on or before the required date and time will receive a grade of 0%. The instructor reserves the right to waive this policy in extraordinary circumstances only. If a late test or exam is allowed, a grade penalty may be assessed.

STUDENT CONDUCT:

College students are expected to show respect for college faculty, staff, and fellow students, as addressed in the Student Handbook. This includes conduct in the classroom. The instructor and students have the right to expect certain behaviors from each other. Among other things, these include:

- arriving on time for class
- being prepared for class-work
- turning off cell phones, pagers, music players, etc. (Recording of lectures is permitted.)
- using a personal computer for immediate class work only
- refraining from eating, drinking or smoking in class
- facilitating rather than disrupting the learning process
- showing courtesy and respect for all

Students who are disruptive repeatedly will be asked to leave, and may face college disciplinary action.

ATTENDANCE AND WITHDRAWAL:

Attendance and participation are required in all courses at Rappahannock Community College. It is the responsibility of the student to withdraw from a course before the withdrawal deadline if he/she has missed sufficient material that he/she is unable to pass the course. The instructor will invoke administrative withdrawal of any student who misses 20% or more of class meetings before the W date. Last day to add/drop courses with a refund: 9/08/10. Last day to withdraw with a W grade: 11/01/10.

Other than the required administrative withdrawal policy, there is no direct grade penalty in this class for poor attendance. However, students who are successful do attend regularly. The instructor will attempt to contact and counsel students in obvious academic difficult. Students may be referred to the counseling center for assistance.

FACULTY REPORTING OF NO-SHOWS AND WITHDRAWAL FOR NONATTENDANCE:

Students who are registered for a course, but do not attend or make contact with the instructor during the drop/add period must be reported to the Admissions and Records Office. The “no show” students will be dropped from the course roster by the Admissions and Records Office.

Up until the withdrawal date for the semester, students who stop attending a course, miss more than 20 percent of the class, or fail to maintain contact with the instructor must be withdrawn by the course instructor. In this course, more than 20% would equate to missing class on four separate days.

STUDENT WITHDRAWAL FROM THE COURSE:

A student may withdraw from a course without academic penalty before the W date and receive a grade of “W.” For withdrawals after the W date, the student will receive a grade of “U” except under mitigating, unavoidable circumstances which must be documented.

ACADEMIC INTEGRITY:

Rappahannock Community College has an Honor System, with the purpose of strengthening the student’s foundations for academic achievement by establishing guidelines for personal conduct. It is the responsibility of students to be aware of the rules and to monitor the activities of their peers with respect to the Honor Code and report any violations thereof. Plagiarism and giving or receiving aid on exams or quizzes are contrary to the RCC Student Honor Code as described in the Student Handbook. Such conduct is subject to penalties up to removal from the college.

BASIS FOR EVALUATION AND REVISION OF THE COURSE:

Students will be provided with an anonymous survey questionnaire at the end of the course that will ask each student to evaluate the instructor and the course and make comments and suggestions. Survey results will be used to revise and improve the course.

EMERGENCY EVACUATION PLAN:

In each classroom, laboratory or other places where students are assembled for the purpose of instruction, a fire evacuation plan will be posted indicating the direction of travel from the room in the event it becomes necessary to evacuate the building as a result of fire or other emergency. This plan will be posted in a conspicuous place near the exit from the room.

Whenever the fire alarm sounds, the building will be evacuated. The instructor will ensure the fire door is closed upon leaving the area (doors with automatic closures on them). Instructors are also responsible for assisting disabled students.

If a classroom does not have an evacuation plan posted, the student or instructor should notify the academic dean.

SPECIAL REQUESTS:

It is important to RCC that all students have a learning environment that is conducive to their needs. Therefore, any student who feels that they may need some type of accommodation in order to make this class a successful setting, should go to the Counseling Office on either campus for information about applying for services and accommodations. You will need to provide current documentation of your disability and recommended accommodation for that disability. For additional information refer to “Student Services” on the RCC website and look for “Students with Disabilities.”

COLLEGE CLOSING INFORMATION:

The College will be open unless an official closing is announced. If it is necessary to cancel or delay the opening of the college, the decision will be announced over radio and television stations serving the college region, and on the college phone system and website. For information on any schedule changes due to college closings, check Blackboard Announcements in the event of a closing.

CLASS SCHEDULE, BIOLOGY 01, Fall, 2010

John Kinzie, Instructor

Note: This schedule is provided for the convenience of the student. The instructor reserves the right to alter it as necessary.

Class date	Tests, Breaks	Enger, 13th ed.	Topics	Pages
August 24		Chapters 1,2,3	Intro., Chemical Basis of Life	1-68
August 31	Quiz 1, Ch. 1-3	Chapter 4	Cell Structure and Function	69-98
September 7		Chapter 5	Enzymes & Energy	99-114
September 14	Test I, Ch. 1-5	Chapters 6,7	Cell Respiration & Photosynthesis	115-150
September 21		Chapter 8	DNA & RNA and Heredity	151-170
September 28	Quiz 2, Chapters 6-8	Chapter 9	Cell Division	171-198
October 5		Chapters 10,11	Inheritance and Biotechnology	199-246
October 19	Test II, Ch. 6-11	Chapters 12,13,14	Diversity and Evolution	247-310
October 26		Chapters 15,16	Ecosystems: Dynamics and Interactions	311-372
November 2	Quiz 3, Chapters 12-16	Chapters 17, 18	Population Ecology and Behavior	373-416
November 9		Chapters 19,20	Origin, Evolution and Classification	417-458
November 16	Test III, Chapters 15-20	Chapter 21	Microorganisms	459-482
November 23		Chapter 22	The Plant Kingdom	483-506
November 30	Quiz 4, Chapters 21,22	Chapter 23	The Animal Kingdom	507-536
December 7	Instructor Choice, Exam Review	Review, Chapters 1-23 and Lecture and Other Notes	Exam Review	1-536
December 14	Final Exam, Chapters 1-23			
	OTHER IMPORTANT DATES			
September 08	Last date to	withdraw and receive a	refund.	
November 01	Last date to	withdraw and receive a	grade of W.	
October 11-12	Fall Break			
November 24-27	Thanksgiving Holiday			