

**NEOSHO COUNTY COMMUNITY COLLEGE  
MASTER COURSE SYLLABUS**

**COURSE IDENTIFICATION**

Course Code/Number: BIOL 111

Course Title: General Biology Lecture

KRSN: BIO 1011 – General Biology Lecture for Non-Majors  
(Kansas Regents Shared Number)

Please visit the Kansas Board of Regents website for more information.

Division:  Applied Science (AS)  Liberal Arts (LA)  Workforce Development (WD)  
 Health Care (HC)  Lifetime Learning (LL)  Nursing  Developmental

Credit Hour(s): Three (3)

Effective Date: Summer 2014

Assessment Goal Per Outcome: 70%

**COURSE DESCRIPTION**

This is an introductory biology class designed for non-majors or majors to fulfill an introductory biology requirement. Coursework includes the study of basic biological principles, plants, animals, microorganisms and the environment in which these organisms live. By studying these areas, the student is exposed to the major fields of biological study.

**MINIMUM REQUIREMENTS/PREREQUISITES AND/OR COREQUISITES**

COREQUISITES: BIOL 112 General Biology Laboratory

**TEXTS**

The official list of textbooks and materials for this course is found on *myNeosho*.

<http://www.neosho.edu/ProspectiveStudents/Registration/CourseSyllabi.aspx>

## **GENERAL EDUCATION OUTCOMES**

1. Practice Responsible Citizenship through:
  - identifying rights and responsibilities of citizenship,
  - identifying how human values and perceptions affect and are affected by social diversity,
  - identifying and interpreting artistic expression.
2. Live a healthy lifestyle (physical, intellectual, social) through:
  - listing factors associated with a healthy lifestyle and lifetime fitness,
  - identifying the importance of lifetime learning,
  - demonstrating self-discipline, respect for others, and the ability to work collaboratively as a team.
3. Communicate effectively through:
  - developing effective written communication skills,
  - developing effective oral communication and listening skills.
4. Think analytically through:
  - utilizing quantitative information in problem solving,
  - utilizing the principles of systematic inquiry,
  - utilizing various information resources including technology for research and data collection.

## **COURSE OUTCOMES/COMPETENCIES (as Required)**

The learning outcomes and competencies detailed in this course outline or syllabus meet or exceed the learning outcomes and competencies specified by the Kansas Core Outcomes Groups project for this course as approved by the Kansas Board of Regents.

Upon completion of this course, students will be able to

1. Demonstrate an understanding of the nature of science
  - a) Scientific processes
  - b) Scientific methods
2. Demonstrate an understanding of the levels of organization and emergent properties of life
  - a) Chemical
  - b) Cellular
  - c) Organ/organ system
  - d) Organismal
  - e) Ecological
3. Demonstrate an understanding of bioenergetics
  - a) Enzyme activity
  - b) Metabolism
  - c) Cellular respiration/photosynthesis
4. Demonstrate an understanding of the importance of reproduction in maintaining the continuity of life
  - a) Mitosis
  - b) Meiosis
  - c) Differentiation/development
  - d) Diversity of reproductive strategies
5. Demonstrate an understanding of applying the principles of genetics to unity and diversity of life

- a) Classical genetics
  - b) Molecular genetics
6. Demonstrate an understanding of discussing evolution as the mechanism of change in biology
- a) Natural selection
  - b) Speciation
  - c) Diversity of life/classification
7. Demonstrate an understanding of the principles of ecology
- a) Ecosystem organization
  - b) Ecological interactions
  - c) Environmental issues

### **MINIMUM COURSE CONTENT**

The following topics must be included in this course. Additional topics may also be included.

I: Understand the nature of science.

II: Understand the levels of organization and emergent properties of life.

III: Understand bioenergetics.

IV: Understand the importance of reproduction in maintaining the continuity of life.

V: Apply principles of genetics to unity and diversity of life.

VI: Discuss evolution as the mechanism of change in biology.

VII: Understand principles of ecology.

### **STUDENT REQUIREMENTS AND METHOD OF EVALUATION**

This is a three-hour course consisting of three hours of lecture per week. Examinations will be announced at least one week prior to their administration. Quizzes may be announced or unannounced at the discretion of the instructor. In addition to examinations and quizzes, other evaluative measures may include notebooks, projects, research papers and other graded assignments.

### **GRADING**

Grading Scale

90-100% A

80- 89.9% B

70- 79.9% C

60- 69.9% D

< 60% F

### **ASSESSMENT OF STUDENT GAIN**

The administrations of a comprehensive lecture final consisting of multiple choice, true/false, matching, essay, or other questions types.

## **Attendance Policy**

1. NCCC values interactive learning which promotes student engagement in the learning process. To be actively engaged, the student must be present in the learning environment.
2. Unless students are participating in a school activity or are excused by the instructor, they are expected to attend class. If a student's absences exceed one-eighth of the total course duration, (which equates to one hundred (100) minutes per credit hour in a face-to-face class) the instructor has the right, but is not required, to withdraw a student from the course. Once the student has been dropped for excessive absences, the registrar's office will send a letter to the student, stating that he or she has been dropped. A student may petition the chief academic officer for reinstatement by submitting a letter stating valid reasons for the absences within one week of the registrar's notification. If the student is reinstated into the class, the instructor and the registrar will be notified. Please refer to the Student Handbook/Academic Policies for more information
3. Absences that occur due to students participating in official college activities are excused except in those cases where outside bodies, such as the State Board of Nursing, have requirements for minimum class minutes for each student. Students who are excused will be given reasonable opportunity to make up any missed work or receive substitute assignments from the instructor and should not be penalized for the absence. Proper procedure should be followed in notifying faculty in advance of the student's planned participation in the event. Ultimately it is the student's responsibility to notify the instructor in advance of the planned absence.

## **ACADEMIC INTEGRITY**

NCCC expects every student to demonstrate ethical behavior with regard to academic pursuits. Academic integrity in coursework is a specific requirement. Definitions, examples, and possible consequences for violations of Academic Integrity, as well as the appeals process, can be found in the College Catalog, Student Handbook, and/or Code of Student Conduct and Discipline.

## **ELECTRONIC DEVICE POLICY**

Student cell phones and other personal electronic devices not being used for class activities must not be accessed during class times unless the instructor chooses to waive this policy.

## **NOTE**

Information and statements in this document are subject to change at the discretion of NCCC. Students will be notified of changes and where to find the most current approved documents.

## **ACCOMMODATIONS**

If you are a student with a disability who may need accommodation(s), in compliance with Section 504 of the Rehabilitation Act of 1973 and the Americans with Disabilities Act (ADA) of 1990, please notify the Dean of Student Services in the Student Services Office, Sanders Hall, 620-432-0304, on the Chanute Campus, or the Dean for the Ottawa and Online Campuses, 785-248-2798, on the Ottawa Campus as soon as possible. You will need to bring your documentation for review in order to determine reasonable accommodations, and then we can assist you in arranging any necessary accommodations.

## **NON-DISCRIMINATION POLICY**

The following link provides information related to the non-discrimination policy of NCCC, including persons with disabilities. Students are urged to review this policy.

<http://www.neosho.edu/Departments/NonDiscrimination.aspx>

## **SEXUAL MISCONDUCT POLICY (TITLE IX)**

At NCCC, it is the responsibility of an instructor to help create a safe learning environment in the classroom, including both physical and virtual classrooms. All instructors are considered mandatory reporters at NCCC, therefore any information regarding sexual misconduct that is shared by a student in one-on-one meetings with the instructor must be reported to appropriate personnel at the College. Instructors will keep the information private to the greatest extent possible, but it is not confidential. Generally, climate surveys, classroom writing assignments or discussions, human subjects research, or events such as Take Back the Night events do not provide notice that must be reported to the Coordinator by employees, unless the reporting party clearly indicates that they wish a report to be made.

The following link provides information related to the sexual misconduct policy of NCCC, including resources, reporting options, and student rights. Students are urged to review this policy.

<http://www.neosho.edu/TitleIX.aspx>

## **COURSE NOTES**