[BS108] Biology for Living Syllabus

# Course Overview

Adjunct Instructor

Heather Knuth

Scott County Central (SCC) High School - Room H9

573.471.2001

hknuth@scottcentral.k12.mo.us

Office Hours: M-F 10:35-11:30am or 3-4pm

Grading

8 Exams - 35%

Quizzes - 30%

Homework

& Activities - 35%

Grade Scale

90-100% A

80-89% B

70-79% C

60-69% D

0-59% F

To acquaint students with and help them to understand some of the fundamental biological process and problems which come from living organisms. Lecture/Discussion. (3 credit hours).

# Class Meeting Times

Lecture: M-F 12:58-1:48 at SCC, Room H9

# Required Text

*The Living World,* Johnson (8th edition)

# Student Learning Objectives:

1. Demonstrate knowledge of science as a sway of addressing questions about the natural world.
2. Demonstrate the ability to gather and communicate scientific knowledge about an issue of societal interest.
3. Identify and critically analyze evidence for human impact on the natural world.

**CLASS POLICIES**

**Attendance and Absences**

You are expected to be punctual and attend every class. If you are absent, check the ‘Absent Work Bin’ for your class folder and work labeled with your name. If an assessment or activity was missed, you must sign up on the ‘Make Up Work’ clipboard. Per SCC Student Handbook, students will have one day per absence to complete missed assignments, until the maximum days of absence has been reached. At which time, no credit will be given for the missed assignments, assessments, or activities.

**Late Work Policy**

1 day late = 50% reduction

2 days late or more= zero credit (SCC office referral)

**Handouts**

All handouts and papers are given to you for your own personal use for this course. They are not to be distributed to any third person or posted on-line on any additional website. Classes may not be recorded without the permission of the instructor. If permission if granted, it is done so for your own personal use. No recordings of this course should be posted on any website or distributed to a third party.

**UNIVERISTY POLICIES**

**Academic Policy Statement**

Students will be expected to abide by the University Policy for Academic Honesty regarding plagiarism and academic honesty. Refer to:<http://www6.semo.edu/judaffairs/code.html>.

*Any act of plagiarism will result in a zero for that assignment for all people involved.*

**Questions, Comments, and Concerns**

Questions, comments, or requests regarding this course or program should be taken to your instructor. Unanswered questions or unresolved issues involving this class may be taken to Dr. James Champine (Chair of Biology at Southeast Missouri State University). Contact at jchampine@semo.edu or 573.651.2170.

**Students with Disabilities Statement**

If a student has a special need addressed by the Americans with Disabilities Act (ADA) and requires materials in an alternative format, please notify the instructor at the beginning of the course. Reasonable efforts will be made to accommodate special needs.

**Civility Statement**

“Every student at Southeast is obligated at all times to assume responsibility for his/her actions, to respect constituted authority, to be truthful, and to respect the rights of others as well as to respect private and public property. In their academic activities, students are expected to maintain high standards of honesty and integrity and abide by the University’s Policy on Academic Honesty. Alleged violations of the Code of Student Conduct are adjudicated in accordance with the established procedures of the judicial system.” [From the preamble of the Statement of Student Rights and Code of Student Conduct, revised January 8, 2004, Southeast Missouri State University]

**Course Content**

1. Nature of Science
	1. Scientific Investigations
	2. Experimental Design and Probability
	3. Qualities of Life
2. Demand for Energy
	1. Biochemistry
	2. Cellular Respiration, Photosynthesis, and Fermentation
	3. Metabolism
	4. Nutrient Cycling
3. Reproduction
	1. Asexual Reproduction
	2. Sexual Reproduction
	3. Reproduction and the effect on populations
4. Heredity and Change
	1. Replication, Transcription, and Translation
	2. Chromosomes and Cell Division
	3. Mendelian Genetics
	4. Gene Regulation
5. Ecology
	1. Abiotic and Biotic Factors
	2. Interconnectedness and Interdependence
	3. Population Dynamics

# Exam Schedule

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| Date | Subject |
| September 14, 2018 | First Quarter Midterm |
| October 12, 2018 | First Quarter Exam |
| November 9, 2018 | Second Quarter Midterm |
| December 18, 2018 | Second Quarter Exam |
| February 1, 2019 | Third Quarter Midterm |
| March 8, 2019 | Third Quarter Exam |
| April 5, 2019 | Fourth Quarter Midterm |
| May 7, 2019 | Final Exam |
| \*All exams will take place at SCC during regular class hours. |