**SYLLABUS FOR GENERAL BIOLOGY**

LIFE SCIENCE AND PHYSICAL EDUCATION DIVISION, CROWDER COLLEGE, Fall 2016

COURSE TITLE & NUMBER: General Biology, BIOL 101 02 NEO, Biology 101

CREDIT HOURS: 5 PREREQUISITES: None

COURSE DESCRIPTION:

General Biology is an introduction to biology and will cover important principles in biology ranging from the chemical basis of life to the interactions of living organisms with one another and their environment. Areas of study will include: chemistry in living organisms, cell structure, cellular metabolism, genetics, a survey of living organisms based on accepted classification systems, and ecology. A practical laboratory component supporting lecture material will emphasize scientific observation and investigation. This is a general education course in biology for non-majors.

COURSE OBJECTIVES:

A clear understanding of the contents of this course will help all students make informed decisions regarding personal health and environmental issues. An intended goal of this biology course is to increase interest in, and to provide a solid basis for understanding recent developments in biological science. Successful completion of this course will lay the foundation for understanding the chemical and cellular basis of life, provide knowledge of the many different kinds of living organisms, and lead to recognition of the importance of a healthy environment and the interdependence of all living organisms.

TEXT: Symbiosis: Biological Sciences, Pearson Custom Library

Pearson Learning Solutions, Boston Massachusetts, 2011

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INSTRUCTOR: Ben Reuter

EMAIL: breuter@cassville.k12.mo.us

EVALUATION

Grades will be based on:

* 12 unit exams, 100 points each, 60% of grade
* laboratory exercises, 20% of grade
* 12 Reviews 20%
* Crowder grade will be average of 1st and 2nd semester grade

Final exam will be comprehensive.

Cassville High School grades will follow the handbook

Crowder Grading: 90-100% A; 80-89% B; 70-79% C; 60-69% D; below 60% failing.

No cell phone use during lecture, lab, or exams.

COURSE OUTLINE:

First quarter

Unit 1 Introduction, scientific method; Chapter 1, Basic chemistry; Chapter 2

Unit 2 Biomolecules and enzymes; Chapter 3 and Chapter 6

Unit 3 Cell structure and the Plasma Membrane; Chapter 4 and Chapter 5

Second quarter

Unit 4 Cell division; Chapter 9 and 10

Unit 5 DNA and Molecular Genetics; Chapter 13 and Chapter 14

Unit 6 Microbiology and Fungi, Chapters 19 and 20

Final

Third quarter

Unit 7 Genetics, Chapters 11 and 12

Unit 8 Evolution, Chapters 17 and 18

Unit 9 Principles of cellular respiration and photosynthesis; Chapters 7 and Chapter 8

Fourth quarter

Unit 10 Animal diversity chapter 21

Unit 11 Plant survey, Plant form and function; Chapter 22 and Chapter 23

Unit 12 Ecology and energy flow Chapters 30 and 31

Final

*Crowder College makes every reasonable effort to accommodate students with disabilities. If you are a student with a disability and require accommodation for this class, please contact Christy Manning, Office of Disability Services, 417-455-5733. Please make these arrangements at the start of the semester and notify your instructor of your needs.*