

Hagerstown Community College
MASTER SYLLABUS

COURSE: Principles of Biology II BIO113
DATE: Spring 2018
INSTRUCTOR: R. Nickerson, K. Lennon

COURSE DESCRIPTION

This is the first semester of a two-semester biology sequence, with laboratory, intended for biology and all other science majors in transfer programs. The course includes the structure and function of biomolecules, cell structure and function, cell energetics and metabolism, classical and human genetics, gene expression, and an introduction to biotechnology. Biology majors should continue the sequence with [BIO 114](#). Laboratory fee required. 45 hours of lecture and 45 hours of lab. Semester Offered: Fall, Spring.

TEXTBOOK / MATERIALS REQUIRED

- Internet access / Bio113 Moodle website
- Campbell Biology in Focus, 2nd edition, Reece et al., Copyright 2016 Pearson Education ISBN 978-013-425-0618
- Mastering Biology (www.masteringbiology.com)
- Biology 113 Lab fee payable upon registration

STUDENT LEARNING OUTCOMES

- Students will demonstrate scientific literacy by effectively locating, evaluating, and communicating scientific information in oral, written, and/or visual formats.
- Students will demonstrate familiarity with fundamental experimental design, laboratory technique, and data analysis.
- Students will apply critical thinking skills to solve scientific problems.
- Students will demonstrate a fundamental understanding of biological concepts including: the scientific method of inquiry, biological chemistry, bioenergetics, cellular and molecular biology, and genetics.

MINIMUM CLOCK HOURS REQUIRED FOR THIS COURSE

To earn one academic credit at HCC, students are required to complete a minimum of 37.5 clock hours (45 fifty-minute “academic” hours) of coursework per semester. Those hours of coursework may be completed through a combination of hours within the classroom and hours outside the classroom. Certain courses may require more than the 37.5 minimum hours of coursework per credit.

For most classes, students should expect to do at least 2 hours of coursework outside of class for each hour of in-class coursework.

COURSE ACTIVITY	HOURS REQUIRED
In class attendance:	
Lecture	45
Laboratory	45
Outside of class:	
Reading	15
Homework Assignments	15
Quizzes	15
Exams	5
Pre-Lab	15
Lab Assignments	30
Total	185

Hybrid courses require the same number of hours. Lecture time for hybrid classes includes viewing media resources that instruct and clarify content and engaging in online class discussions and projects. Attend lab in person.

SERVICES FOR STUDENTS WITH DISABILITIES

Students may receive reasonable accommodations if they have a diagnosed disability and present appropriate documentation. Students seeking accommodations are required to contact the Disability Support Services (DSS) office as early as possible. Students may contact a DSS staff member for an appointment at dss@hagerstowncc.edu or at 240-500-2530.