

Hagerstown Community College

Master Syllabus

COURSE: BIO 111 Contemporary Issues in Biology, 3 credits **DATE:** Fall 2017

INSTRUCTOR: Varies based on semester

COURSE DESCRIPTION: This is a lecture/discussion course that focuses on specific biological topics of current interest. Topics vary each time the course is offered and may include medical genetics, topics in physiology or environmental issues. The online format may be used for this course periodically. Total of 45 hours of lecture.

TEXTBOOK: Varies depending on topic

STUDENT LEARNING OUTCOMES:

- Students will access, process, analyze and synthesize scientific information.
- Students will apply knowledge of specific course content to build an understanding of environmental issues.
- Students will apply the scientific method and critical thinking skills in order to draw logical conclusions based on the analysis of scientific data.
- Students will use technology by applying computer and information literacy skills to access online learning materials and conduct online research.
- Students will use verbal and writing skills to discuss their personal ethical values, and present factual information which can be used to justify their philosophical positions on controversial issues.

COURSE CONTENT OBJECTIVES:

These will vary based on the semester and topic. For Environmental Science, the specific content related objectives are at the beginning of each chapter for the text used. For Biotechnology & Society the learning objectives are:

- Utilize fundamental vocabulary related to biotechnology.
- Identify and describe basic concepts of biotechnology and related scientific principles.
- Discuss applications of biotechnology and their use and impact in society, including but not limited to economics, law, health/medicine and diversity.
- Discuss ethical issues related to biotechnology in society, including pros & cons and basic concepts needed for citizens to develop informed opinions.

MINIMUM CLOCK HOURS REQUIRED FOR THIS COURSE

This course may be offered in the traditional face-to-face modality or online. Therefore, each has a separate table.

Traditional Face-to-Face 15 week semester

	DIRECT Faculty Instruction In-class 37.5 h required	Student Work Out of Classroom 75 h required
In-class "lecture"	37.5 h (either 1.25 hours 2x week or 2.75 hours once a week)	
Reading chapters & preparing for class		30 Hours (2 hours per week)
Quizzes & Homework (minimum of 10 in any combination)	Included in lecture time	15 hours minimum (1.5 hour per activity minimum)
Research project		10 h
Lecture Exams (2 minimum)	4 hours minimum (2 hours per exam in class or in the testing center)	10 h minimum prep (5 hours per exam min)
Cumulative final exam (Academic Testing Center)	Included in lecture time	10 h exam prep
Total Hours	37.5 h	75 h

Online 15-week

	DIRECT Faculty Instruction Online 37.5 h required	Student Work Out of Classroom 75 h required
Reading PowerPoints, reviewing videos/lectures, animations etc. to include reading chapters in text	45 hours (3 hours minimum per week)	45 Hours (3 hours per week)
Quizzes & Homework/ Discussions (minimum of 10 in any combination)		15 hours minimum (1.5 hour per activity minimum)
Research project &/or online presentation		10 h minimum
Lecture Exams (2 minimum – in Academic Testing Center)	4 hours minimum (2 hours per exam in the testing center)	10 h minimum prep (5 hours per exam min)
Cumulative final exam (Academic Testing Center)	2 hours (in the Testing Center)	10 h exam prep
Total Hours	50+ h	90 h

Online 10-week

	DIRECT Faculty Instruction Online 37.5 h required	Student Work Out of Classroom 75 h required
Reading PowerPoints, reviewing videos/lectures, animations etc. to include reading chapters in text	45 hours (4.5 hours minimum per week)	45 Hours (4.5+ hours per week)
Quizzes & Homework/ Discussions (minimum of 10 in any combination)		15 hours minimum (1.5 hour per activity minimum)
Research project &/or online presentation		10 h minimum
Lecture Exams (2 minimum – in Academic Testing Center)	4 hours minimum (2 hours per exam in the testing center)	10 h minimum prep (5 hours per exam min)
Cumulative final exam (Academic Testing Center)	2 hours (in the Testing Center)	10 h exam prep
Total Hours	50+ h	90 h

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.