Warren County Community College

BIO 163 Biology II

Course Master Syllabus

catalog description: As a continuation of BIO 162 – General Biology I, this course presents an evolutionary-based, systematic study of the diversity microbes, fungi, plants, animals and animal behavior. This course is required for biology option science majors.

Prerequisite(s): BIO 162 – General Biology I

Corequisite(s): I

Credits: 4

Hours: 3 lecture 3 lab

Required Text(s): MindTap Biology for Russell/Hertz/McMillan's Biology: The Dynamic Science

eBook Lab Manual: Majors General Biology

Supplemental Materials:

Instructor Information:

Office Hours:

Program Goals:

1. Apply the scientific method in experimentation and data analysis.
2. Analyze complex scientific problems, perform calculations, and evaluate solutions.
3. Communicate scientific information clearly through both oral and written communication.
4. Critically analyze problems through gathering data from multiple sources and apply findings to new scenarios.
5. Describe fundamental biological, chemical, and physical principles, including, but not limited to, molecular and cellular functions, anatomy and physiological function, inheritance, and both organic and inorganic chemical reactions.
6. Interpret results from experimentation that utilizes modern laboratory techniques and instrumentation.

LEARNING GOALS: The following general education learning goals apply and are assessed in this course: Communicate effectively in both speech and writing, Apply appropriate mathematical and statistical concepts and operations to interpret data to solve problems; Use scientific method of inquiry, through the acquisition of scientific knowledge; Use computer systems or other appropriate forms of technology to achieve educational and personal goals; Address an information need by locating, evaluating and effectively using information.

LEARNING ASSESSMENT	
Student Learning Outcomes:	***Suggested Means of Assessment:***
Apply the scientific method	Lab exercises, exams, research paper
Understand and apply evolutionary mechanisms and outcomes	Lab exercises, exams
Relate those outcomes of evolution and phylogeny to the recognized taxa	Lab exercises, exams
Relate evolution to structure and function	Lab exercises, exams, lab practical exam
Demonstrate effective communication skills	Lab exercises, current event presentations, research paper

GRADING SYSTEM:					
A	=	90 < 100	C+	=	77 < 80
B+	=	87 < 90	C	=	70 < 77
B	=	80 < 87	D	=	60< 70
			F	=	Below 60

Disability Services

https://www.warren.edu/admissions/disability-services/

Statement and Policy on Cheating, Plagiarism, and Academic Conduct

https://www.warren.edu/wp-content/uploads/2025/01/Policy-304-304.3-Student-Rights-Responsibilites-and-Academic-Conduct.pdf

Students are required to perform all the work specified by the instructor and are responsible for the content and integrity of all academic work submitted. A violation of academic integrity will occur if a student: (1) knowingly represents work of others as one's own, (2) uses or obtains unauthorized assistance in any academic work, (3) gives fraudulent assistance to another student, or (4) furnishes false information or other misuse of college documents.

Unauthorized use of Artificial Intelligence (AI) is prohibited unless the instructor explicitly permits it in the syllabus or assignments. If tools such as ChatGPT are permitted by an instructor to be used for an assignment, they should be used with caution and with proper citation. In all such cases, you may only use the specific tools identified as acceptable and you must adhere to the College's standards for attribution, validation, and transparency.

In cases of suspected violation of academic integrity, the incident is to be reported to the Office of Academics. A student found guilty of violating the rule of academic integrity by the Vice President of Academics will be considered to have failed in personal obligation to the College; such failure will be subject to disciplinary action by the College. Unless otherwise notified, the instructor will allow students who are pending disciplinary action to attend class.

Tutoring and Testing at the Instructional Support Center (ISC)

https://www.warren.edu/academics/tutoring-and-testing/

WCCC Library Services

https://warren.libguides.com/library/WCCCStudents

Citation Styles and Formatting

Work submitted for any Warren County Community College course must conform to the required formatting and citation style that are specified by the instructor. The Library and Instructional Support Center can assist students with formatting and citations for assignments and papers.

WCCC Attendance Expectations

The College expects students to attend and participate in all classes. This involves sharing discussions and lectures in class, as well as interacting with other students. Grades are based on the quality of work students complete in meeting the requirements for a particular course, as stated in the course syllabus and catalog description. Attendance, among other factors, may be an additional criterion for assigning grades. Students should realize that they are responsible for all class meetings and that work missed because of absences may affect their grades. Attendance in online classes is determined by the completion of assignments/ tests. Students who have not completed any assignments or tests will be considered non-attending and receive an NF grade in online classes.

Class Attendance Expectations

Topical Outline

- Evolution
- Microbiology
- Mycology
- Plants
- Animals

Grading Methods

Itinerary