

BL 101 BIOLOGY, Sec. A
DONNELLY COLLEGE
Spring 2018
Lecture: MTWF, 1:00 to 1:50 PM
Room: 408
4.0 Credit

INSTRUCTOR INFORMATION:

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TUTORING (ACE): *is available upon request.*

COURSE DESCRIPTION:

This science course deals with the processes and principles common to all living systems and with the diversity generated by evolution. Major emphasis is placed on cell biology, genetics, plants and animal diversity, and vertebrate structure and functions.

PREREQUISITES:

Placement into College Level Courses; Co requisite: BL 101.1 Laboratory

REQUIRED TEXTBOOK & SUPPLIES:

Sylvia S. Mader, Michael Windelspecht, Inquiry into Life, 15th Ed., New York, NY; McGraw Hill, 2014.

PHILOSOPHY OF GENERAL EDUCATION:

Donnelly College has consistently maintained a strong commitment to the liberal arts and sciences as a foundation for a complete education. The faculty strongly believes that the liberal arts and sciences provide the context through which students can engage with the larger questions about students' place in the world and their pursuit of truth. Therefore, the College's general education requirements are designed to ensure that liberal arts and sciences graduates develop a breadth of content knowledge and the skills and abilities which will enable them to become educated participants in a diverse global community.

DONNELLY COLLEGE LEARNING OUTCOMES:

The Donnelly College faculty has articulated seven student-learning outcomes that constitute the foundation of the College's general education.

1. Communication Skills: Students will communicate effectively in writing and speaking.
2. Technology and Information Literacy Skills: Students will demonstrate proficiency in information literacy skills.
3. Symbolic Problem Solving: Students will demonstrate competency in qualitative and quantitative problem solving.
4. Analytical Thinking: Students will employ reflective thinking to evaluate diverse ideas in the search for truth.
5. Personal and Interpersonal Skills: Students will develop an understanding across cultural differences locally, nationally, and internationally.
6. Academic Inquiry: Students will engage independently and effectively in lifelong learning.
7. Values: Students will demonstrate moral and ethical behavior in keeping with our Catholic identity.

PROGRAM LEARNING OUTCOMES

In addition to the general education learning outcomes – communication skills, technology and information literacy skills, symbolic problem solving, analytical thinking, personal and interpersonal skills, academic inquiry, and values – upon successful completion of the Associate of Science in Liberal Arts degree, students will demonstrate:

1. Proficiency and creativity in written and verbal communication.
2. Effective use of current technology in support of academic work.
3. Proficient use of qualitative and quantitative methods in problem solving.
4. Critical and Analytic thinking across a range of disciplines.
5. A commitment to ethics and integrity in academic and professional relationships, within the community and the environment.
6. Use of the scientific method.

STUDENT LEARNING OUTCOMES:

1. Students will have the ability to explain the scientific method.
2. Student will have the ability to recognize biological structure and function at all levels: molecular, cellular, and organism.
3. Students will have the ability to explain major concepts in the biological sciences.
4. Students will have the ability to effectively communicate using the vocabulary of the biological sciences.
5. Students will have the ability to analyze tables, charts and graphic data of the biological sciences.

Donnelly College Learning Outcomes	Program Learning Outcomes	Student Learning Outcomes	Application and Assessment
Students will communicate effectively in writing and speaking.	Students will demonstrate proficiency and creativity in written and verbal communication.	Students will have the ability to effectively communicate using the vocabulary of the biological sciences. Students will have the ability to explain major concepts in the biological sciences.	Students will demonstrate vocabulary comprehension with 75% accuracy.
Students will demonstrate proficiency in information literacy skills.	Students will demonstrate effective use of current technology in support of academic work.		
Students will demonstrate competency in qualitative and quantitative problem solving.	Students will demonstrate proficient use of qualitative and quantitative methods in problem solving. Students will demonstrate critical and	Student will have the ability to recognize biological structure and function at all levels: molecular, cellular, and organism. Students will have the ability to analyze tables,	

	analytic thinking across a range of disciplines.	charts and graphic data of the biological sciences.	
Students will employ reflective thinking to evaluate diverse ideas in the search for truth.			
Students will develop an understanding across cultural differences locally, nationally, and internationally.	Students will demonstrate a commitment to ethics and integrity in academic and professional relationships, within the community and the environment.		
Students will engage independently and effectively in lifelong learning.	Students will demonstrate the ability to use the scientific method	Students will have the ability to explain the scientific method.	
Students will demonstrate moral and ethical behavior in keeping with our Catholic identity.	Students will demonstrate a commitment to ethics and integrity in academic and professional relationships, within the community and the environment.		

COURSE REQUIREMENTS:

		Total Points
7 Unit Exam	7 x (100 pts each)	700
1 Comprehensive Final Exam	100	100
Attendance	100	100
Vocabulary Quizzes	15 x (10 pts each)	150
		1050

GRADING SCALE:

Course Points			
945 to 1050	-----	90 – 100%	A
840 to 944	-----	80 – 89%	B
735 to 839	-----	70 – 79%	C
630 to 734	-----	60 – 69%	D
< 629	-----	< 60%	F

7 Unit Exams	67% of grade
1 Final Exam	9% of grade
15 Vocabulary quizzes	15% of grade
1 Attendance	9% of grade

1. The student is to come to class prepared. Students are responsible for bringing everything he/she will need during the class period, i.e. paper, pen or pencil, lab book, textbooks, and assignments.
2. Attendance is required.
3. Quizzes may be given in class over the previous lab material. No make up quizzes will be given.
4. There is no opportunity to make up missed lab exams unless students have an excused absence.
5. No eating is allowed in lecture or lab classes.
6. A final comprehensive exam is required.
7. **All cell phones must be turned off** unless the instructor gives permission.

ACADEMIC INTEGRITY:

“...Academic integrity is to be maintained at all times to insure genuine educational growth. Cheating and plagiarism in all forms, therefore, will be subject to disciplinary action. An ad hoc committee, appointed by the appropriate dean, will review serious infractions. Appropriate sanctions will be imposed.”

PLAGIARISM:

Plagiarism-the appropriation or imitation of the language or ideas of another person and presenting them as one's original work-sometimes occurs through carelessness or ignorance. Students who are uncertain about proper documentation of sources should consult their instructors.

ACCOMMODATIONS:

In compliance with the Americans with Disabilities Act, Donnelly College will make every attempt to provide equal access for persons with disabilities. Students in need of accommodations must request them in writing from the Vice President of Academic Affairs.

CIVILITY & DECORUM:

As noted in its Code of Conduct, Donnelly College is committed to maintaining an overall atmosphere of civility and respect. Civility and decorum both inside and outside the classroom are fundamental foundations of the values at Donnelly College. Classroom discussions and interactions outside the classroom will at all times be focused on the learning process and should always be respectful of both students and faculty. In open discussions of ideas and issues, disagreements should focus on ideas and facts. Name-calling and assaults (either in person or on-line) will not be tolerated. Should any problems occur, the instructor should be notified immediately? Those who do not comply with civility and decorum requirements may be subject to a grade reduction and/or other sanctions up to and including dismissal from Donnelly College.

ELECTRONIC DEVICES:

With the exception of watches, electronic devices such as cell phones, smart phones, iPads, iPods and other MP3 players are to be turned completely off and put out of sight and out of easy reach. "Out of Sight" extends to paraphernalia as ear buds, headphones, and Bluetooth earpieces. Students will be contacted through the Donnelly "Moodle" email system, in the appropriate amount of time, when it's required by the instructor to convey necessary information to the students.

ATTENDANCE POLICY:

The student is expected to attend class and participate in their own education. Students are responsible for all materials and information presented in class and it is the responsibility of each student to acquire, complete and return any missed assignments due to absences. If the student has more than 5 unexcused absences or tardys faculty may initiate an administrative withdrawal on the basis of nonattendance. **Daily attendance at all classes and labs is expected of each student. Tardiness is not acceptable.** Students will be requires to show doctors excuse for any absence to gain an excused absence. Students are responsible for all materials and information presented in class. It is the responsibility of each student to obtain these materials and information if absent from class.

1. Except in cases of rare emergency, tests are to be taken on the announced date. Make-up tests must be taken before the normal class day following the scheduled time of the missed examination.
2. Work must be neat and orderly or it will not be accepted.
3. Absolutely no late assignments will be accepted

WITHDRAWAL FROM COURSES OR FROM SCHOOL:

It is the responsibility of the student to withdraw from class. If a student decides to withdraw from a class, ideally, they should see an advisor and the financial aid staff before taking the withdrawal form to the Registrar's office for processing. However, any verifiable contact (e-mail, fax, phone, mail, etc.) with authorized college personnel expressing the student's intent to withdraw from a class will be honored. If students withdraw before they have earned their financial aid, they will owe Donnelly College a debt for the unearned portion of the financial aid as well as for any unpaid balances (subject to the College's refund policy). Not attending class is not a withdrawal from class.

Donnelly College reserves the right to withdraw a student from class (es) if the student does not meet their financial obligations, including two missing or incomplete payments, or loss of financial aid.

Faculty may initiate an administrative withdrawal on the basis of non-attendance. In extreme circumstances (i.e. a disciplinary problem), the Vice President of Academic Affairs may initiate an administrative withdrawal. The student remains responsible for the tuition owed in this instance.

The deadlines for withdrawing from classes are as follows:

14 to 16 weeks	3 weeks before the end of the class
6 to 8 weeks	7 weekdays before the end of class
4 to 5 weeks	4 weekdays before the end of class
Less than 4 weeks	Withdrawals are not allowed

Withdrawal deadline dates will be published in the academic calendar.

BIOLOGY
TENTATIVE LECTURE COURSE CALENDAR:

Class Meeting/ Week	Classroom/Laboratory Protocol	Assignments
1	Intro. "The Study of Life" The Molecules of Cells (Biochemistry)	Read Chapter 1 (pg. 1) Start Chapter 2 (pg. 18) Atomic worksheet, Pre-Vocabulary Test
2	The Molecules of Cells (Biochemistry)	Chapter 2, Vocabulary quiz 1
3	Organic Molecules	Finish Chapter 2, Vocabulary quiz 2
4	Unit Exam 1 Cell Structure and Function (Cell)	Read Chapter 3(pg. 43), Vocabulary quiz 3
5	Membrane Structure and Function (Membrane)	Read Chapter 4(pg. 63), Vocabulary quiz 4
6	Cell Division (Mitosis & Meiosis) Metabolism: Energy, Enzymes Unit Exam 2	Read Chapter 5 (pg. 79) Read Chapter 6 (pg. 99) Vocabulary quiz 5
7	DNA Structure and Gene Expression Patterns of Gene Inheritance	Read Chapter 23 (pg. 462) DNA worksheet, Vocabulary quiz 6
8	Chromosomal Basis of Inheritance Unit Exam 3	Chapter 24 (pg. 480), Vocabulary quiz 7
9	Human Organization (Tissues) Epithelial, Connective, Nervous and Muscle Unit Exam 4	Read Chapter 11 (pg.189) Read Chapter 19 and 17 (pg. 360,310) Vocabulary quiz 8
10	Digestive System and Nutrition	Read Chapter 14 (pg. 252), Vocabulary quiz 9
11	Respiratory System Unit Exam 5	Read Chapter 15 (pg. 277) Vocabulary quiz 10
12	Cardiovascular System	Read Chapter 12 (pg.209), Vocabulary quiz 11
13	Lymphatic System Unit Exam 6	Read Chapter 13 (pg. 231), Vocabulary quiz 12
14	Urinary System and Excretion	Read Chapter 16 (pg. 295), Vocabulary quiz 13
15	Reproductive System Unit Exam 7	Read Chapter 21 (pg. 408), Vocabulary quiz 14
16	Final Review	Vocabulary quiz 15
	Final Exam (Comprehensive)	Post-Vocabulary Test

