

General Biology: diversity; physiology; ecology- BIOL 119 (01), CRN# 20426
MW 11:30-12:45, Instructors: Drs. O'Donnell and Briggs
Course Outline, Fall 2019

Day/Lecture	Date	Chapters	Instructor
1	26-Aug-2019	Ch. 18 – The Evolution of Invertebrate Diversity	Dr. O'Donnell
2	28-Aug-2019	Ch. 18 – The Evolution of Invertebrate Diversity Ch. 19 – The Evolution of Vertebrate Diversity (only 19.1-19.8)	“
3	4-Sep-2019	Ch. 19 – The Evolution of Vertebrate Diversity (only 19.1-19.8)	“
4	9-Sep-2019	Ch. 20 – Unifying Concepts of Animal Structure and Function	“
5	11-Sep-2019	Ch. 21 – Nutrition and Digestion	“
6	16-Sep-2019	Ch. 21 – Nutrition and Digestion Ch. 22 – Gas Exchange	“
7	18-Sep-2019	Ch. 22 – Gas Exchange Ch. 23 – Circulation	“
8	23-Sep-2019	Exam I (18-22)	“
9	25-Sep-2019	Ch. 23 – Circulation Ch. 24 – The Immune System	“
10	30-Sep-2019	Ch. 24 – The Immune System Ch. 25 – Control of Body Temperature and Water Balance	“
11	2-Oct-2019	Ch. 25 – Control of Body Temperature and Water Balance Ch. 26– Hormones and the Endocrine System	“
12	7-Oct-2019	Ch. 26– Hormones and the Endocrine System Ch. 27 – Reproduction and Embryonic Development	“
13	9-Oct-2019	Ch. 27 – Reproduction and Embryonic Development Ch. 28 – Nervous Systems (only 28.1- 28.14)	“
14	16-Oct-2019	Ch. 29 – The Senses (only 29.1-29.3 and 29.7-29.10) Ch. 30 – How Animals Move	“
15	21-Oct-2019	Exam II (23-30)	“
16	23-Oct-2019	Ch. 17 – The Evolution of Plant and Fungal Diversity	Dr. Briggs
17	28-Oct-2019	Ch. 31- Plant Structure, Growth and Reproduction	“
18	30-Oct-2019	Ch. 31- Plant Structure, Growth and Reproduction	“
19	4-Nov-2019	Ch. 32 – Plant Nutrition and Transport <u>Last Day to Withdraw</u>	“
20	6-Nov-2019	Ch. 32 – Plant Nutrition and Transport	“
21	11-Nov-2019	Ch. 33 – Control Systems in Plants	“
22	13-Nov-2019	Exam III	“
23	18-Nov-2019	Ch. 34 – The Biosphere	“
24	20-Nov-2019	Ch. 35 – Behavioral Adaptations to the Environment	“
25	25-Nov-2019	Ch. 36 – Population Ecology	“
26	2-Dec-2019	Ch. 36 – Population Ecology	“
27	4-Dec-2019	Ch. 37 – Communities and Ecosystems	“
28	9-Dec-2019	Ch. 38 – Conservation Biology	“
29	16-Dec-2019	Exam IV (Monday 8:00-10:30) ISC 115	“

A. PREREQUISITES

Biol 117

B. REQUIRED TEXT

Campbell Biology: Concepts and Connections

Authors: Taylor, Simon, Dickey and Reece

Publisher: PEARSON

Edition: 9/e

ISBN: 9780134610184, Modified Mastering Biology with Pearson eText, online, \$95.95

C. COURSE MATERIALS: course materials will be available within the Course Management System, **CANVAS**. There is also an information section of new student help guides on their website at:

<https://wiki.geneseo.edu/display/cit/Canvas+Tips+for+Geneseo+Students>

D. INSTRUCTORS: Dr. Robert W. O'Donnell Dr. George

Briggs

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Office hours: M-F, 9:30 to 10:30 T/R 8-10, W 9:30 to 11

other times by appointment other times by appointment

E. ASSIGNMENTS: Topics will be covered as listed in the course outline. The reading assignments should be skimmed before the topic is covered in lecture. This means that you are not expected to have understood all the material in the reading, but you should be familiar with the major themes and vocabulary. Material from both the lectures and readings will be tested on the exams. Associated with each chapter are assignments in Mastering Biology that are not graded but will prepare you for the quizzes to be taken in Canvas. The calendar in Canvas will list when a quiz opens and when it closes. Quizzes must be completed during the scheduled time.

F. GRADING:

Exams 1-3 and grades on Mastering Assignments and Quizzes on Mastering Assignments, top three will be counted = 67.5% of your grade (100 points per exam and 100 points from Mastering Assignments and Quizzes on Mastering Assignments)

Exam 4 = 22.5% of your grade (100 points)

Top Hat participation points = 5% of your grade (1 point per day)

Top Hat accuracy points = 5% of your grade (1 point per day)

Total =100%

Exams 1-3 and Quizzes on Mastering Assignments will account for 67.5% of your final grade. We will drop the lowest of the three exams or Quizzes on Mastering Assignments score. **There will be no make-up exams. If you miss an exam that will be the grade that is dropped.** For example, if a student earns 75% on Exam I, 80% on Exam II, 80% on Exam III, and 90% on the Mastering Assignments and Quizzes on Mastering Assignments, we will drop the 75% score from Exam I. Each exam will cover roughly one-quarter of the course and consist of roughly 50 multiple-choice questions and 10 free response questions. The first three exams will be during

class time (see syllabus). The fourth exam is non-cumulative and will be given during the final exam period and will cover only the fourth quarter material; the score of that exam cannot be dropped. Top Hat points will be worth 10% of your final grade and will be based on participation and the accuracy of your answers. One Top Hat participation score will be dropped each half (i.e. one could miss one Top Hat participation each half semester and still receive full marks) and the lowest one-third of your Top Hat accuracy scores in each quarter will be dropped. A current average of your Top Hat points will be kept for you in Canvas. Because your grades will be posted in Canvas (including your overall average) it will be your responsibility to check how you are doing in the course as the semester progresses.

G. THE USE AND GRADING POLICY OF “EMBEDDED CLASS QUESTIONS USING TOP HAT”:

A Top Hat account will be provided to you at no cost. You will just need a phone or computer to answer questions when you are in class. Within the Top Hat grading, two Top Hat classes can be missed with no detrimental effect on Top Hat participation points. Because the lowest third of Top Hat accuracy points are not incorporated in the calculation for Top Hat accuracy. Students who miss classes generally do poorly in spite of the fact that the Top Hat scores are not strongly affected.

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H. GRADING SCALE

Letter grades will be awarded based on the following point distribution:

A 92.5-100%	B+ 86.5-89.49	C+ 76.5-79.49	D 59.5-69.49
A- 89.5- 92.49	B 82.5- 86.49	C 72.5- 76.49	E <59.5
	B- 79.5-82.49	C- 69.5-72.49	

I. **TUTORS:** Undergraduate tutors (Biology Majors) are available to help students with the course material. For more information see the Biology Tutoring web page at: <http://www.geneseo.edu/biology/tutoring>. Supplemental instruction (SI) will also be available for this class and information will be provided during the first week of class by the SI leader.

J. LEARNING OUTCOMES FOR BIOL. 119

Upon completion of this course students will be able to:

1. Describe the diversity and unity of organisms: identifying characteristics that unify major taxa and recognizing the relationships among major taxa.
2. Describe the basic structure of the major groups of organisms and how this structure develops.
3. Describe the structures and processes that allow organisms to perpetuate their lives and eventually reproduce.
4. Discuss the basic nutritional needs of organisms and the diverse ways that these needs are met.

5. Demonstrate understanding of the levels of biological organization of living things above the level of cells including: tissues, organs, organ systems, organisms, populations, communities, and ecosystems.
6. Discuss factors that determine the distribution and abundance of organisms.
7. Apply knowledge of biological systems to solve novel problems in case studies in and outside of class.

K. QUIZZES ON MASTERING ASSIGNMENTS (DR. O'DONNELL)

The homework quiz opens in Canvas at 1:00 pm on the first date listed. The quiz must be completed by 11:30 am the next morning.

Weeks of Aug. 26 – Sep. 4 (Quiz Sep. 3- Sep. 4)

Chapters 18: available within **Mastering Biology**

Weeks of Sep. 9 – Sep. 18 (Quiz Sep. 17-18)

Chapters 19-22: available within **Mastering Biology**

Weeks of Sep. 25 – Oct. 7 (Quiz Oct. 6 -7)

Chapters 23-26: available within **Mastering Biology**

Weeks of Oct. 7 – Oct. 16 (Quiz Oct. 17 - Oct. 18)

Chapters 27 - 28 available within **Mastering Biology**

L. QUIZZES ON MASTERING ASSIGNMENTS (DR. BRIGGS)

The homework quiz opens in Canvas at 1:00 pm on the first date listed. The quiz must be completed by 11:30 am the next morning.

Weeks of Oct. 23 – Oct. 28 (Quiz Oct. 29-30)

Chapters 17, 31: available within **Mastering Biology**

Weeks of Nov. 4 – Nov. 11 (Quiz Nov. 12-13)

Chapters 31, 32: available within **Mastering Biology**

Weeks of Nov. 11 – Nov. 25 (Quiz Dec. 3-4)

Chapters 34, 35: available within **Mastering Biology**

Week of Dec. 2 - Dec. 9 (Quiz Dec. 10-11)

Chapters 36, 37: available within **Mastering Biology**

M. Additional Information and Resources

Geneseo Mission and Values

SUNY Geneseo has several core documents that articulate our shared commitments and learning objectives. These include:

- SUNY Geneseo Mission, Vision and Values: <https://www.geneseo.edu/about/mission-vision-and-values>
- Community Commitment to Diversity, Equity, and Inclusion: <https://www.geneseo.edu/diversity/commitment>
- Geneseo Learning Outcomes for Baccalaureate Education: <https://www.geneseo.edu/provost/globe-geneseo-learning-outcomes-baccalaureate-education>

Bias-Related Incidents

"We are here to listen, to learn, to teach, to debate, to change, to grow. We should all be safe to pursue these goals at SUNY Geneseo while being who we are. Together, we commit ourselves to pluralism, cultivating a community that respects difference and promotes a sense of inclusion and belonging."

As this excerpt from our Community Commitment to Diversity, Equity, and Inclusion states, here at SUNY Geneseo, we want to provide a space where everyone feels welcome to learn and grow in their identities as well as in their role as students, faculty, and staff. If in the unfortunate instance you experience an incident of bias, we encourage you to reach out to the Chief Diversity Officer (routenberg@geneseo.edu) and/or our University Police Department. In trying to create an environment that facilitates growth through diverse thoughts and ideas, reporting incidents of bias - including threats, vandalism, and microaggressive behaviors - can help bring a better understanding of our campus climate as well as provide opportunities for learning and restoring harm.

Disability Accommodations

SUNY Geneseo will make reasonable accommodations for persons with documented physical, emotional, or cognitive disabilities. Accommodations will be made for medical conditions related to pregnancy or parenting. Requests for accommodations including letters or review of existing accommodations should be directed to the Office of Disability Services in Erwin Hall 22 or disabilityservices@geneseo.edu or 585-245-5112. Students with letters of accommodations should submit a letter to each faculty member at the beginning of the semester and discuss specific arrangements. Additional information on the Office of Disability Services is available at www.geneseo.edu/dean_office/disability_services.

Well-Being

Prioritizing well-being can support the achievement of academic goals and alleviate stress. Eating nutritious foods, getting enough sleep, exercising, avoiding drugs and alcohol, maintaining healthy relationships, and building in time to relax all help promote a healthy lifestyle and general well-being.

Concerns about academic performance, health situations, family health and wellness (including the loss of a loved one), interpersonal relationships and commitments, and other factors can contribute to stress. Students are strongly encouraged to communicate their needs to faculty and staff and seek support if they are experiencing unmanageable stress or are having difficulties with daily functioning. The Dean of Students (585-245-5706) can assist and provide direction to appropriate campus resources. For more information, see www.geneseo.edu/dean_students.

Mental Health

As a student, you may experience a range of challenges that can impact your mental health and thus impact your learning; common examples include increased anxiety, shifts in mood, strained relationships, difficulties related to substance use, trouble concentrating, and lack of motivation, among many others. These experiences may reduce your ability to participate fully in daily activities and affect your academic performance.

SUNY Geneseo offers free, confidential counseling for students at the Lauderdale Center for Student Health and Counseling, and seeking support for your mental health can be key to your success at college. You can learn more about the various mental health services available on campus at health.geneseo.edu.

Academic Support Services

The campus provides a range of support services to help students thrive in their classes. These services include:

- Tutoring, both drop-in and by-appointment, with student tutors in the Writing Learning Center, the Math Learning Center, and a range of department-based tutoring centers
- Online tutoring through the SUNY-wide STAR-NY system (www.starny.org/tutoring_schedule)
- Supplemental Instruction, in which trained student assistants review lecture material from specific classes

Information on times and locations is available through the Center for Academic Excellence website at www.geneseo.edu/library/center-academic-excellence.

Library Research Help

Milne Library has an award-winning staff trained in finding the best information. They have created online research guides, self-help databases, and are available for individual consultation. Research Librarians are available for walk-in consultations and students may request appointments with staff experts in particular fields. Full information on Milne Library research resources, hours, and consultation options is available at www.geneseo.edu/library/ask-us.

Academic Integrity and Plagiarism

Milne Library offers frequent workshops to help students understand how to paraphrase, quote, and cite outside sources properly. These sessions are meant to educate about the importance of using original ideas and language, and how to incorporate paraphrases and quotes into writing. The complete list of library workshops can be found at www.geneseo.edu/library/library-workshops.

Academic dishonesty includes cheating, knowingly providing false information, plagiarizing, and any other form of academic misrepresentation. College policies and procedures regarding academic dishonesty are available at www.geneseo.edu/handbook/academic-dishonesty-policy.

Computer and Technology Support

For assistance with your computer or mobile device, visit the CIT HelpDesk in Milne Library. CIT provides self help guides on a range of computer issues, including access to the campus network, Canvas, printing, software guides, and other resources. The CIT Self Help Guides at wiki.geneseo.edu/display/cit/CIT+Self+Help can be helpful in finding quick solutions to basic technology issues.

CIT also provides free access to over 7,500 online tutorials for software, digital tools, web development, programming, and design through lynda.com training resources available at wiki.geneseo.edu/display/cit/Lynda.com+Training+Library.

Food Security for SUNY Geneseo Students

SUNY Geneseo students who find themselves in a position of food insecurity and do not have the financial resources to support their food and nutrition needs can access the Geneseo Groveland Food Pantry located at the First Presbyterian Church, 31 Center Street in Geneseo. Students can utilize the pantry once with no referral or contact with the College. At this visit they will be provided items that will address their basic needs for several days. If a student continues to face difficulties providing for their own nutritional needs beyond their first visit to the pantry they should connect with Susan Romano, Director of Financial Aid to receive a brief letter that they will present to the staff at the pantry that verifies their need. If students do not have a FAFSA on file for any reason they should contact Dr. Leonard Sancilio, Dean of Students, to discuss their particular situation and options. The Geneseo Groveland Food Pantry is open on the following days and times:

Tuesday: 10 AM - 2 PM

Wednesday: 4 PM - 6:30 PM

Thursday: 10 AM - 2 PM

If you have any questions please contact Dr. Leonard Sancilio, Dean of Students at: sancilio@geneseo.edu or 585-245-5706.