**Course Title:** Living Systems

**Course Number:** NRE 111

**Course description:** This course is designed to equip students to observe and create their own questions, test them, and continue the process of scientific inquiry related to living systems. Issues of current importance related to growth in human population and the depletion of natural resources, and the remedies that science and technology may provide will be discussed.

**Required Text:** Biology for the Informed Citizen

Press. ISBN: 978-0-19-538198-6

Author: Donna Bozzone; Douglas Green

Publisher: Oxford University Press

**Location:** WAEC 2235 (both lecture and lab)

**Time:** SEC 101: Lecture MWF 10-10:50am, Lab M 8-9:50am

SEC 102: Lecture MWF 10-10:50am, Lab W 8-9:50am

SEC 103: Lecture MWF 11-11:50am, Lab M 12-1:50am

SEC 104: Lecture MWF 11-11:50am, Lab W 12-1:50am

SEC 105: Lecture MW 2-3:15pm, Lab M 3:30-5:20pm

SEC 106: Lecture MW 2-3:15pm, Lab W 3:30-5:20pm

**Instructor:** Mandee Wilson

**Office:** WAEC 2219

**Phone:** 304-696-6484

**Email:** [m.wilson@marshall.edu](mailto:m.wilson@marshall.edu)

**Office Hours:** by appointment

**University Policies:** By enrolling in this course, you agree to the University Policies listed below. Please read the full text of each policy by going to www.marshall.edu/academic-affairs and clicking on “Marshall University Policies.” Or, you can access the policies directly by going to www.marshall.edu/academic-affairs/policies/. Academic Dishonesty/Excused Absence Policy for Undergraduates/Computing Services Acceptable Use/Inclement Weather/Dead Week/Students with Disabilities/Academic Forgiveness/Academic Probation and Suspension/Academic Rights and Responsibilities of Students/Affirmative Action/Sexual Harassment.

**Policy for Students with Disabilities**: Marshall University is committed to equal opportunity education for all students, including those with physical, learning and psychological disabilities. University policy states that it is the responsibility of students with disabilities to contact the Office of Disability Services (ODS) in Prichard Hall 117 (304.696.2467) to provide documentation of their disability. Following this, the ODS Coordinator will send a letter to each of the student’s instructors outlining the academic accommodation he/she will need to ensure equality in classroom experiences, outside assignment, testing, and grading. The instructor and student will meet to discuss how the accommodation(s) requested will be provided. For more information, access the website for the Office of Disabled Student Services: http://www.marshall.edu/disabled

**Attendance Policy:** Attendance is viewed as an individual student responsibility. Students are expected to attend class and to complete all assignments on time. In the case of an absence, the student is responsible for collecting notes from others in class and turning in assignments on time. There will be no makeup quizzes/labs unless a university approved excuse is provided.

**Grading:** The class has a total of 1,000 points possible (additionally, 60 points extra credit possible)

Labs – 15 labs, 20 points each, totaling 300 points

\*Lab grade consists of attendance, participation, and quality of work.

Quizzes – 10 quizzes, 40 points each, totaling 400 points

Presentation – 100 points (10 points of extra credit for class attendance will be given each day during presentations)

Midterm – 100 points

Final – 100 points

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| **Weekly Topics** | **Weekly Labs** |
| Chapter 1, Quiz, current events | Lab 1: Hypothesis Derivation |
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| Chapter 2, Quiz, current events | Lab 2: Toxicants/Stats |
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| Chapter 4, Quiz, current events | Lab 3: Disposal Journal |
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| Chapter 5, Quiz, current events | Lab 4: Multicellular Organisms & Compound Microscope |
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| Chapter 7, Quiz, current events | Lab 5: Genetics |
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| Chapter 8, Quiz, current events | Lab 6: Evolution: Leaf Adaptations |
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| Chapter 9, Midterm | Lab 7: Evolution: Bacterial Resistance |
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| Chapter 10, Quiz, current events | Lab 8: Dichotomous Key & Dissecting Microscope |
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| Chapter 11, Quiz, current events | Lab 9: Population |
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| Chapter 12, Quiz, current events | Lab 10: Community |
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| Chapter 13, Quiz, discuss presentations | Lab 11: Ecosystem: Food Webs |
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| Class Presentations | Lab 12: Unhealthy Ecosystems |
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| Class Presentations | Lab 13: Point & Nonpoint Source Pollution |
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| Thanksgiving Break | Thanksgiving Break |
| Discuss Collapse, current events | Lab 14: Water Chemistry |
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| Discuss Collapse, current events | Lab 15: to be announced |
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