Course Description
A laboratory course recommended for nonscience majors, relating reproduction, heredity, evolution, ecology, and behavior to human life and the problems of society. This general education curriculum course does not count toward a major or minor in biology. IAI: L1 900L. 4 credit hours. No prerequisites or corequisites.

Required Text

Contact: sm-hum-musser@wiu.edu       WG 352 Office Hours: M W F 10-11AM; Th 9-10AM 309 298 3191
I may be in lab (WG 354/276). If you cannot find me and need to meet with me, please make an appointment.

Peer mentor: Mr. Jeffrey Liles       JP-Liles@wiu.edu

Lecture Course Objectives
Describe the science of biology including cell structure and division.
Describe the scientific method and develop critical thinking in data/information analysis.
Explain what genes are and how they work.
Describe evolution, natural selection, and community and behavioral ecology.
Explain cycles in ecosystems.
Describe reproduction and development.

Methods of Evaluating Student Progress
Lecture (~600 points):
Assignments, quizzes, attendance (variable points) 120 points
3 co-curricular activity written reports 30 points
3 Exams (100 points each) 300 points
Final Exam (150 points) 150 points

Lab (~154 points)
Lab homework (~ 4 points each) 56 points
Lab exercises (3 points each) 42 points
Lab quizzes (~ 4 points each) 56 points

Course grade: Lecture = 75% of grade and Lab = 25% of grade
+/- Grade system: A = 93-100%  A- = 90-92%
B+ = 87-89%  B = 83-86%  B- = 80-82%
C+ = 77-79%  C = 73-76%  C- = 70-72%
D+ = 67-69%  D = 63-66%  D- = 60-62%
F = 0 – 59%

Multiply your earned lecture percentage by 0.75, multiply your lab percentage by 0.25, and add these scores together for your overall course grade. You must pass the both the lab and lecture sections separately to pass the course. Departmental policy states that attendance and proper completion of the exercises count towards your lab grade. An absence is Excused if solid documentation is provided for: e.g. illness (your own),
death in the immediate family (sibling, parent, grandparent, child, spouse), and official university trips, military service obligations). Documentation will be required within 2 weeks of the absence for it to be considered an EXCUSED absence. For illness, you must provide a note from your physician. If you decide not to see your physician when you are ill, your absence will be counted as an Unexcused absence. You cannot make up a missed lab. If you have more than one UNEXCUSED lab session or more than three TOTAL lab absences, this will result in a final grade of “F” for the entire course, regardless of your points in lecture.

Course Requirements
1. Attendance and punctuality is required. If absent, obtain additional notes from another student/textbook.
2. All cell phones and laptops must be turned off/silenced & out of sight.
3. Reading of the textbook, lecture notes, & supplementary material is required. Course information, notes are on WesternOnline http://westernonline.wiu.edu When available, bring a copy of notes to class. Take notes during lecture and lab, follow along with the slides & textbook.
4. Exams will be multiple choice (require 2HB pencils), fill-in-the-blanks, short- & long-answer questions, drawing & labeling, and/or short essay. Exams will cover both lecture and lab material but will focus on material covered since the previous exam. Knowledge of prior terms/concepts will be expected & will not be redefined.
5. Unannounced quizzes will be given. There are no makeup exam/quiz/assignments
6. Keep backup copies of your assignments.
7. All course rules & policies, exam dates, & grading scale apply to all students equally.
8. Course information in available through WesternOnline, or through the students’ WIU e-mail accounts.
9. Academic honesty is required. Cheating or plagiarism will result in 0 points for that exam/quiz/assignment. Students will conduct themselves with personal integrity & honesty. You should be familiar with & abide by the regulations in the WIU Policy manual, this syllabus and the Code of Student Conduct & the Student Rights & Responsibilities, & Student Academic Integrity Policy (http://www.wiu.edu/provost/policies/). You are expected to do your own work, be honest, do not be disruptive, be respectful of others, & actively participate. Breach of policy will be dealt with severely following the direction of the University & the instructor's discretion.
10. The time to be concerned about your grade is the first 14 weeks of class, not the last 2 weeks.

Learning is a group activity. The behavior of each person in class affects the learning outcomes of others.

Definition of Plagiarism: “Plagiarism is the theft of someone else’s words, work, or ideas. It includes such acts as (1) turning in a friend’s paper & saying it is yours; (2) using another person’s data or ideas without acknowledgement; (3) copying an author’s exact words & putting them in your paper without quotation marks; & (4) using wording that is very similar to that of the original source but passing it off as entirely your own even while acknowledging the source.” V. E. McMillan in Writing Papers in the Biological Sciences (Bedford/St.Martin’s Press, New York, pg 16). This includes information in written or audio information from online websites, textbooks or laboratory manuals, honors & masters theses, all writing assignments, & images.

Academic Accommodations - Notify the instructor for an accommodation requirement. Contact Disability Support Services at 298-2512 for special assistance in emergency evacuations (fire, tornado, etc.).

The syllabus and schedule is subject to change, including additional assignments, quizzes, etc.

Co-curricular activities require Dr. Hum-Musser's prior approval and may require proof of attendance.
1/18 Chapter 1 - Course Introduction, Science of Biology
1/20 Chapter 1, 2 Science of Biology, Molecules of Life
1/23 Chapter 2 - Science of Biology, Molecules of Life
1/25 Chapter 26 - Reproduction and Development
1/27 Chapter 26 - Reproduction and Development
1/30 Chapter 3 - Cells and Subcellular Structures
2/1 Chapter 3 - Cells and Subcellular Structures
2/3 Chapter 4 – Energy & Transport Across Cell Membranes

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2/6 Chapter 4 – Energy & Transport Across Cell Membranes  Lab week 3 – Reproduction and Development
2/8 Chapter 8 - Cell Division: Meiosis
2/10 Chapter 8 - Cell Division: Meiosis

2/13 Lincoln’s birthday – no classes
2/15 Exam 1 – Chapters 1, 2, 26, 3, 4  Lab week 4 – Cell Structure
2/17 Chapter 6 – DNA and Genes, Replication (#1 Co-curricular activity report due) and Function

2/20 Chapter 6 - DNA and Genes, Replication  Lab week 5 – Cell Division
2/22 Chapter 7 - Translation
2/24 Chapter 7 - Translation

2/27 Chapter 9 - Inheritance  Lab week 6 - Genetics
2/29 Chapter 9 - Inheritance
3/2 Chapter 10 – Biotechnology, Genetic Engineering

3/5 Chapter 10 – Biotechnology, Genetic Engineering  Lab week 7 – Genetics Exercises
3/7 Exam 2 – Chapters 6, 7, 8, 9
3/9 Cell Technology and Stem Cells

3/12, 3/14, 3/16 – Spring Break

3/19 Cell Technology and Stem Cells  Lab week 8 – Human Heredity
3/21 Chapter 11 - Evolution
3/23 Chapter 11 - Evolution

3/26 Chapter 12 – Processes of Evolution, Trait variation  Lab week 10 – Molecular Genetics and Evolution
3/28 Chapter 12 – Processes of Evolution, Trait variation
3/30 Chapter 13 – Early Life Forms

4/4 Chapter 15 - Human Evolution and Notion of Races
4/6 Chapter 15 - Human Evolution and Notion of Races

4/11 Exam 3 – Chapters 10, 11, 12, 13
4/13 Chapter 16 – Population Ecology

4/16 Chapter 17 – Communities and Ecosystems  Lab week 13 – Population Ecology
4/18 Chapter 17 – Communities and Ecosystems
4/20 Chapter 18 – Biosphere and Human Impact on the Biosphere

4/23 Chapter 18 – Biosphere and Human Impact on the Biosphere  Lab week 12 - Migration
4/25 Biodiversity and Conservation
4/27 Biodiversity and Conservation

4/30 Behavioral Biology (#3 Co-curricular activity report due)  Lab week 14 - Behavior
5/2 Behavioral Biology
5/4 Review for final exam

5/9 Wednesday – Final exam at 10:00-11:50 AM (1 hour 50 minutes) – Chapters 15, 16, 17, 18 Biodiversity, Behavior