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 11-12, T 9-10  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.

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.
Describe reproduction and development.

Methods of Evaluating Student Progress (subject to minor changes)

Lecture
Study guide Assignments over each of 4 exams 80 points
Chapter quizzes, attendance (variable points) 20 points
4 Exams (100 points each) 400 points
Lecture total 500 points

Lab: (you pass the lab portion (60% of lab grade) to pass the course)
Lab homework (4 points each or less) 40 points
Lab exercises (3 points each) 30 points
Lab quizzes (4 points each or less) 40 points
Written assignments 30 points
Lab total 150 points

Lecture = 75% of grade and Lab = 25% of grade
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%

Final grade: 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. Lecture is worth 75% of your overall grade and lab is
worth 25%. You must pass both the lab and lecture to pass the course. Departmental policy states that attendance and proper completion of the exercises count towards your lab grade. If you have more than one UNEXCUSED lab session (without solid documentation for illness, etc.), 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. See the lab syllabus for more details on excused and unexcused absences.

Course Requirements
1. Attendance and punctuality are required. If absent, obtain additional notes from another student/textbook.
2. All electronic devices must be turned off/silenced & out of sight. If using a laptop computer for note taking, only note-taking or lecture slides may be accessed. Do not browse the internet.
3. Reading of the textbook, lecture notes, & supplementary material is required. Course information, notes are on the WesternOnline course account, through the homepage. When available, bring a copy of notes to class. Take notes during lecture and lab, follow along with the slides & textbook. Contact UTech www.wiu.edu/university_technology for computing issues. Go to http://www.wiu.edu/guava to activate/update your account.
4. Exams will be multiple choice (require 2HB pencils), fill-in-the-blanks, short- & long-answer questions, drawing & labeling, and/or short essay. Exams are generally not cumulative covering both lecture and lab material however previous topics may be revisited and knowledge of prior terms/concepts will be expected.
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 - “In accordance with University policy and the Americans with Disabilities Act (ADA), academic accommodations may be made for any student who notifies the instructor of the need for an accommodation. For the instructor to provide the proper accommodation(s) you must obtain documentation of the need for an accommodation through Disability Resource Center (DRC) and provide it to the instructor. It is imperative that you take the initiative to bring such needs to the instructor's attention, as he/she is not legally permitted to inquire about such particular needs of students. Students who may require special assistance in emergency evacuations (i.e. fire, tornado, etc.) should contact the instructor as to the most appropriate procedures to follow in such an emergency. Contact Disability Resource Center (DRC) at 298-2512 for additional services.”
The syllabus and schedule below is subject to change, including additional assignments, quizzes, etc.

8/25  Chapter 1 - Course Introduction, Biology Today
8/27  Chapter 1 - Biology Today
8/29  Chapter 2 - Essential Chemistry for Biology

9/1  Labor Day Holiday
9/3  Chapter 2 - Essential Chemistry for Biology
9/5  Chapter 3 – Molecules of Life

9/8  Chapter 3 – Molecules of Life
9/10 Chapter 26 - Reproduction and Development
9/12 Chapter 26 - Reproduction and Development

9/15 Chapter 4 – Tour of the Cell
9/17 Chapter 4 – Tour of the Cell
9/19 Chapter 5 - Transport across the Membrane

9/22 Chapter 8 - Cell Reproduction
9/24 Chapter 8 - Cell Reproduction, Mitosis, Cancer
9/26 Exams 1 – Chapters 1, 2, 26, 3

9/29 Chapter 8 - Cell Reproduction: Meiosis
10/1 Chapter 8 - Cell Reproduction: Meiosis
10/3 Chapter 9 - Patterns of Inheritance

10/6 Chapter 9 - Patterns of Inheritance
10/8 Chapter 10 - DNA Structure
10/10 Fall Break – No classes

10/13 Chapter 10 - DNA Replication Chapter
10/15 Chapter 10 - DNA Function: Transcription
10/17 10 - DNA Function: Transcription

10/20 Chapter 11 - How Genes are Controlled
10/22 Chapter 11 - How Genes are Controlled
10/24 Exam 2 – Chapters 4, 5, 6, 7, 8, 9

10/27 Chapter 12 – DNA Technology
10/29 Chapter 12 – DNA Technology
10/31 Chapter 13 – How Populations Evolve

11/3 Chapter 13 – How Populations Evolve
11/5 Chapter 14 – How Biological Diversity Evolves
11/7 Chapter 14 – How Biological Diversity Evolves

11/10 Chapter 15 – Origin of Life
11/12 Chapter 17 – Human Evolution
11/14 Chapter 18 – Ecology and the Biosphere

11/17 Chapter 18 – Ecology and the Biosphere
11/19 Exam 3 – Chapters 10, 11, 12, 13, 14
11/21 Chapter 19 – Population Ecology

11/24, 11/26, 11/28 – No classes, Thanksgiving break
<table>
<thead>
<tr>
<th>Date</th>
<th>Subject</th>
<th>Notes</th>
</tr>
</thead>
<tbody>
<tr>
<td>12/3</td>
<td>Chapter 20 – Communities and Ecosystems</td>
<td>Growth III</td>
</tr>
<tr>
<td>12/5</td>
<td>Chapter 20 – Communities and Ecosystems</td>
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<tr>
<td>12/8</td>
<td>Animal Behavior</td>
<td>Lab week 15 – Animal Behavior</td>
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<tr>
<td>12/10</td>
<td>Animal Behavior</td>
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<tr>
<td>12/12</td>
<td>Review for final exam</td>
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**12/15 Monday** – **Final exam at 10:00-11:50 PM (1 hour 50 minutes)** – Chapters 15, 17, 18, 19, 20, Animal Behavior