



Course Syllabus Information:  
**Human Biology** Fall/Spring 2019-20  
Instructor: Jane K. Leick, MS

### **Course Information:**

<i>Course Prefix/No.</i>	<i>Course Name</i>	<i>Credits</i>
BIO 157	Human Biology	4.0

### **Course Description:**

Human Biology is designed for non-science majors or as a pre-requisite for higher-level anatomy and physiology courses. It focuses on the following areas: the molecular and cellular basis of human life; the integration of humans and the biosphere; the structure and function of human tissues, organs and organ systems; and the principles of genetics and human development. Laboratory areas complement each area of study.

### **Required Textbooks:**

Michael D Johnson *Human Biology Concepts and Current Issues* 8th edition. Pearson Higher Ed.  
ISBN: 978-0-13-404243-5

Michael D Johnson *Human Biology: Laboratory Manual* 8<sup>th</sup> Edition. Pearson Higher Ed  
ISBN: 978-0-134-28381-4

### **Course Learning Objectives:**

*Upon successful completion of this course, the student should be able to demonstrate the following:*

1. Describe the science of biology and how humans fit into the natural world.
2. Explain the basis of human life from the chemical to the organ level.
3. Identify the major selected structures of the integumentary, skeletal, muscular, nervous, endocrine, cardiovascular, lymphatic, immune, respiratory, digestive, urinary, and reproductive systems as well as the special senses. Describe the functions of each significant organ and explain how these structures work together to perform the overall function of that system in maintaining homeostasis.
4. Explain the transfer of information from cell to cell and generation to generation, the effect of cancer on cells, and the current technology issues associated with each.
5. Describe the processes of development and aging.

### **Course Practices:**

Classroom and Laboratory attendance is essential for the successful completion of any college level class.

- The student is responsible for all lecture material, assignments, and assigned readings in the textbook.
- If a student misses lecture, he/she must obtain copies of notes, handouts, etc. from peers.
- In-class activities cannot be made up.
- If a student leaves lab early, his/her daily lab grade may be affected.

*Standards for written work:*

- Any TYPED homework should adhere to the following guidelines:  
Times New Roman font                      12 size print                      1" margins for all sides (standard default)

- Any HANDWRITTEN homework should adhere to the following guidelines:  
No colored ink besides black or blue.

#### *Late papers and assignments:*

- Late work will not be accepted for credit. Work assigned is due by the date and method described by the instructor and will not be accepted by other means without **prior** permission.

#### *Extra Credit:*

- There is NO extra credit offered in this class. If you feel your grade needs extra credit, you should seek help from the instructor, tutors, or fellow students. DO NOT WAIT until you are failing to seek help.

#### Classroom Rules and Expectations:

1. Treat others like you want to be treated.
2. Respect the teacher as well as your classmates.
3. Come prepared to class with all materials that you need. You will not be allowed to return to your locker during class.
4. Keep all cell phones put away during class. Any cell phone seen or heard will be confiscated and turned over to the principal's office. In addition, misuse of technology during class will result in the loss of the privilege during class time. (exa – if you're chatting during class or on sites not instructed by me, you will not be using your laptop during class, the duration is my discretion.)

#### **Instructional Techniques and Practices:**

Instructional methods for the lecture portion will include self-teaching methods, lecture capture podcasts, and student-participated discussion. The lab portion will include hands on learning and student-participated laboratory procedures.

#### **Safety Practices and Policies:**

Lab safety will be covered in the first day of lab. Any student that misses the first day of lab is expected to adhere to and follow the safety procedures.

- No food or drink is allowed in the lab
- Report any allergies you may have in the lab setting to the instructor
- Appropriate clothing must be worn including
  - NO open toed shoes or sandals
  - NO baggy clothes (including pants)
- Long-sleeved shirts must be pulled back and secured
- Safety goggles must be worn when instructed
- Hair must be pulled back
- Do not attempt to use the equipment or reagents until instructed
- Cover all openings or abrasions on your hands with bandages or gloves
- Nothing in your mouth during lab
- Report all broken glass and/or equipment
- Report any spills to the instructor immediately

- Wash off any dangerous material that comes in contact with your skin or clothing
- Report all safety concerns
- Treat all solutions carefully
- Treat all samples and models carefully
- **Practice safe hand washing techniques regularly**

### **Classroom Assessment Techniques:**

Students will be assessed using exams, quizzes, homework/application assignments, and lab reports.

### **Grading:**

Student Exams will consist of any/all of the following formats:

Essay	True-False	Fill-in-the-blank
Short Answer	Multiple Choice	Matching

2. The final exam will be a comprehensive final comprised of specific parts from each system covered in the course.

3. Quizzes: Quizzes will be completed in class and/or online.

Student Quizzes will mainly consist of the following formats:

Short Answer	Multiple Choice
True-False	Fill-in-the-blank

4. Participation: Classroom and Laboratory participation is essential for the successful completion of any college level class.

- Students may be asked to participate in group discussion/case-study learning during lecture. If a student does not participate (not in class or does not contribute to discussion), any points given through the completion of a learning activity cannot be made up.
- All students are required to participate in the case-study learning and laboratory setting by collaborating with fellow students when asked, completing his/her share of the lab experiment, viewing specimens under the microscope when instructed, and using models to facilitate his/her learning.

5. Lab Reports:

- Concluding each lab exercise, students must check his/her work with the instructor. The instructor will record points for the work completed and attendance at the conclusion of the lab period. If a student must leave lab early, he/she must check out with the instructor before leaving and will not receive full credit for the lab. If a student does not check out after completing the lab, points will not be awarded resulting in a missed lab.

## 6. Collaborative/team assignments:

- During the lab you may be working in small groups to obtain data and solve problems. It is necessary that each individual completes his/her own lab report individually using his/her own words. (See academic honesty policy.)
- All students **must participate in the lab dissections** by either physically cutting the specimens or assisting in preparation and/or clean-up. All students will be responsible for identifying structures on the dissected specimens.

## 7. Calculating grades:

- This course will be graded on a points system.

**Exams, Comprehensive Final, Quizzes points, Lab Reports , Lab Practicals, Pearson Modules/Assignments**

### **Grading Scale:**

A	90 – 100%
B	80 – 89%
C	70 – 79%
D	60 – 69%
F	< 60%

Iowa Western Community College uses the following grading scale:

A – indicates superior work and excellent progress

B – indicates work and progress above the average standard

C – indicates work and progress which meets the average standard

D – indicates work and progress below the average standard

F – indicates work and progress below the minimum standard