

## **BIO201 & 202: Anatomy and Physiology I and II**

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### **ASU Transfer Information:**

- Bio201: BIO 201, Natural Science - General (SG),
- Bio202: BIO 202

### **Lecture Format:**

- Power Point is used during every lecture period to present lecture material.
- Students are expected to take additional notes during lecture (lectures may be recorded).
- Power Point notes are available on-line up to one week prior to coverage.
- Weekly 10-point quizzes are given (only 7 count towards final grade).
- Some in-class short writing assignments.

### **Laboratory Format:**

- 10-30% computer based (ADAM) self-instruction.
- Students are expected to come to lab prepared with all necessary notes (available on-line).
- Activities include exposure to cadavers and other preserved human specimens.
- Activities include exposure to preserved sheep eyes, brains and hearts.
- Activities include data acquisition and analysis assignments.
- Each student is expected to demonstrate proficiency at operating lab equipment.

### **Examination and Quiz Format:**

- Weekly in-class multiple-choice quizzes (up to 12; only seven count towards final grade).
- Five in-class examinations (exams include multiple choice, true/false, matching, short answer, and essay type questions).
- Optional cumulative final (multiple choice, true/false, matching, short answer, and essay type questions).

### **Assignments:**

- Readings in chapters of textbook (students may choose textbook from selected list).
- On-line study guides are available and recommended.
- Two written essays based upon popular media articles.

### **Attendance:**

- Attendance is required and is recorded in both lecture and laboratory.

**Prerequisites:**

- High school biology with a grade of C or better; BIO 156 or BIO 181 is highly recommended.
- BIO 201 is a prerequisite for BIO 202.
- Students are expected to have a basic understanding of the following:
  1. Cell structure
  2. Membrane structure
  3. Membrane function
  4. DNA replication
  5. Protein synthesis
  6. Enzymes
  7. Metabolism
  8. Cell respiration
  9. Cell reproduction
  10. Mendelian genetics
  11. Chemistry of solutions
  12. pH, acids, bases, and buffers
  13. Osmosis and diffusion

**Skills that help students succeed in this course:**

- Ability to understand written and verbal instructions is essential.
- Strong study habits and time management skills are essential.
- College level reading and writing abilities are important.
- High School Algebra skills are important.
- Basic computer literacy is important (navigating the internet, using search engines and searching library data bases).