

**BIOL 2302 HUMAN ANATOMY AND PHYSIOLOGY II LECTURE (3 credit hours)**  
**SRSU Syllabus Course Information Spring 2022**

**Instructor:** Ms. Anne Marie Hilscher  
**Office:** WSB 220  
**Phone:** 432.837.8820  
**Class time:** TR 9:30-10:45 WSB 301

**Office hours:** MWF 8:30-9:00 & 10-11:30; M 1:00-3:00;  
TR 2-3:00; & by appt. in WSB 220  
**Email:** [ahilscher@sulross.edu](mailto:ahilscher@sulross.edu)  
(Type "BIOL 2302" in subject line and sign your emails)

- **Optional Textbook:** *Anatomy Physiology-The Unity of Form and Function*, 8<sup>th</sup> Edition, Saladin, McGraw-Hill. or another comparable A&P text
- **Free online open-source textbook:** <https://openstax.org/details/books/anatomy-and-physiology>  
*The important thing is for you to have a textbook that is useful to you personally.*

**Course Description:** The purpose of this course is to introduce students to the importance of the human body and its various organ systems. It is designed as the second semester of a two-semester course and will cover internal organ systems, such as cardiovascular, digestive, endocrine, lymphatic, respiratory, reproductive, and urinary. Students should come away with an understanding of the above systems, how they are anatomically structured, and how that structure aids in each system's functionality.

**Student Learning Objectives for this Course:**

- 1) Students will illustrate knowledge of internal organ systems.
- 2) Students will diagram the location of the internal organs and blood flow.
- 3) Students will define the physiological responses to different chemical situations.
- 4) Students will demonstrate an understanding of the mechanics of ion movement.
- 5) Students will apply principles learned in the first term of this course toward organ functionality.

**Grading:**

Lecture Exams (3 @ 100 pt ea)	300
Assignments (3 @ 40 pt ea)	120
Final Exam	100
<b>TOTAL</b>	<b>520</b>

**Attendance and Makeup Exams.** If you arrive for an exam after other students have completed and turned in their exams, you will not be allowed to take the exam.

- Missing any exam without notifying me in advance will result in a zero for that exam grade—no exceptions.
- You'll have five days (including weekends) from the test date to make up the missed exam; often the makeup exam will be different from the original exam.
- If you fail to appear—or appear late—for your scheduled makeup exam, you will receive a zero.
- Finally, if you miss a class, it is your responsibility to get notes and other important information from a classmate.

WEEK	DATE	TR 9:30-10:45
<b>1 ONLINE</b>	T Jan 11	Introduction (and Intro to Circulatory System)
	R Jan 13	Blood
<b>2</b>	T Jan 18	Blood, cont.
	R Jan 20	Blood Vessels
<b>3</b>	T Jan 25	Blood Vessels, cont.
	R Jan 27	Heart
<b>4</b>	T Feb 01	Heart, cont.
	R Feb 03	Heart, cont.; <b>A#1 due</b>
<b>5</b>	<b>T Feb 08</b>	<b>EXAM I</b>
	R Feb 10	Balance
<b>6</b>	T Feb 15	Balance, cont.
	R Feb 17	Lymphatic System
<b>7</b>	T Feb 22	Lymphatic System, cont.
	R Feb 24	Respiratory System
<b>8</b>	T Mar 01	Respiratory System, cont.
	R Mar 03	Intro to Digestive System
<b>9</b>	<b>NO CLASSES – SPRING BREAK MARCH 07-11</b>	
<b>10</b>	T Mar 15	Digestive System, cont.
	R Mar 17	Digestive System, cont.; <b>A#2 due</b>
<b>11</b>	<b>T Mar 22</b>	<b>EXAM II</b>
	R Mar 24	Urinary System
<b>12</b>	T Mar 29	Urinary System, cont.
	R Mar 31	Endocrine System
<b>13</b>	T Apr 05	Endocrine System, cont.
	R Apr 07	Reproduction System
<b>14</b>	T Apr 12	Reproduction System, cont.
	R Apr 14	Nutrition; <b>A#3 due</b>
<b>15</b>	<b>T Apr 19</b>	<b>EXAM III</b>
	R Apr 21	Case Studies
<b>16</b>	T Apr 26	Case Studies
	<b>R Apr 28</b>	<b>NO CLASSES—STUDY DAY</b>
<b>17</b>	<b><i>Final Exam Monday, 02 May, 8:00am-10:00am (IN PERSON)</i></b>	

**Note** – This outline is subject to change. The exams will be administered on the dates given unless material relevant for a given exam has not been covered.

### **STUDENT LEARNING OUTCOMES (SLOs)**

The graduating biology student graduating with a BS in Biology should be able to:

- 1) The student will be able to demonstrate an understanding of basic biological concepts, including but not limited to evolution via natural selection, cell theory, and the role and function of DNA.
- 2) The student will be able to demonstrate utilization of various field techniques toward addressing scientific questions in the specific discipline. These field techniques can include, but are not limited to, plant collection and processing, various animal collection techniques, ecological surveying and sampling, and biodiversity indexing.
- 3) The student will be able to use biological instrumentation to solve biological problems using standard observational strategies.
- 4) The student will develop writing skills by summarizing and critiquing recent relevant biological literature.

**SUGGESTION.** Per SRSU policy, students shall be dropped from the class with an F if they miss 20% (6 lectures) over the course of the semester. If you are unable to attend lecture, please notify me by either e-mail, phone, or in person so that you will not be unnecessarily dropped from the course. Although supplemental material for this course will be provided on-line, previous experience indicates that periodic attendance tends to hurt grades. Some material is only presented during the lecture, with this material typically included on exams to add depth to the tests.

**CORE OBJECTIVES:**

- 1) Communication Skills – Students will effectively communicate the results of scientific investigations, using oral, written, and visual communication, either in group discussions or on written exams.
- 2) Critical Thinking Skills – Students will include creative thinking, innovation, inquiry, and analysis required to relate new information with previous information in a way that demonstrates the diversity and similarity due to evolutionary ancestry.
- 3) Empirical and Quantitative Skills – Students will use basic math skills to solve problems (e.g., related to genetic outcomes, cellular energy production, and probability) resulting in informed conclusions.
- 4) Teamwork Skills – Students will work effectively with others to support a shared goal during lab sessions on activities, such as dissections, problem solving, and other experimental procedures.

**MARKETABLE SKILLS:** A student getting a degree in the biological sciences would be expected to acquire the following marketable skills by graduation.

- 1) Students will be able to organize, analyze, and interpret data.
- 2) Students will be proficient at using presentation software.
- 3) Students will acquire experience in managing time and meeting deadlines.
- 4) Students will gain the ability to speak effectively and write concisely about scientific topics.
- 5) Students will acquire experience and guidance in the development of professional email correspondence.

**ADA Statement:** Any student who because of a disability, may require special arrangements to meet the course requirements should contact the instructor as soon as possible to make necessary arrangements. If an accommodation is needed, students must present their accommodation letter, obtained from Accessibility Services, as soon as possible. Please note that instructors are not permitted to provide classroom accommodations to a student until the appropriate verification has been received. Accessibility Services is in Ferguson Hall room 112. You can make an appointment by calling Mary Schwartze Grisham at 432 837-8203.

**SRSU Library Services.** The Sul Ross Library offers FREE resources and services to the entire SRSU community. Access and borrow books, articles, and more by visiting the library's website, [library.sulross.edu](http://library.sulross.edu). Off-campus access requires your LoboID and password. Check out materials using your photo ID. Librarians are a tremendous resource for your coursework and can be reached in person, by email ([srsulibrary@sulross.edu](mailto:srsulibrary@sulross.edu)), or phone (432-837-8123).

**Academic Integrity.** Students in this class are expected to demonstrate scholarly behavior and academic honesty in the use of intellectual property. A scholar is expected to be punctual, prepared, and focused; meaningful and pertinent participation is appreciated. Examples of academic dishonesty include but are not limited to: Turning in work as original that was used in whole or part for another course and/or professor; turning in another person's work as one's own; copying from professional works or internet sites without citation; collaborating on a course assignment, examination, or quiz when collaboration is forbidden.