

SOUTHWESTERN COLLEGE
Spring 2019
MW 5:30-9:45 ROOM 323
Bio 260-61

PROFESSOR: Greg Brulte, D.D.S.
MAILBOX:
Email: gbrulte@swccd.edu
Webpage: www.cuyamaca.edu/people/greg-brulte

BIOLOGY 260 —4 Units HUMAN ANATOMY

I. Course Description

Emphasizes a systematic study of fundamental principles of human anatomy at cellular, tissue, organ, and organ system levels of organization. Introduces precise terminology, structural-functional relationships, scientific method, dissection of preserved animal specimens, and appreciation of related human diseases. [D; CSU; UC; CAN-BIOL 10 BIOL 260+ BIOL 261= CAN-BIOL SEQ B]

A combined lecture and laboratory course (4 units credit) requiring three hours of lecture and six hours of laboratory attendance per week.

II. Course Objectives

- A. You will describe and analyze the anatomy and basic functions of the major systems of the human body.
- B. You will identify and describe cell structure and cellular organelles.
- C. You will identify and describe the four basic tissues in the adult human body and further classify specific types of these tissues.
- D. You will identify and describe anatomical structures and specimens using histology slides, anatomical charts and models.
- E. You will identify and describe various anatomical structures by participating in the dissection of preserved cats and specimens such as sheep hearts, sheep brains, and sheep eyes.

III. Student Learning Outcomes:

Upon completion of this course, the student will be able to:

- A. Use appropriate vocabulary and terminology to effectively communicate information related to anatomy, and demonstrate information literacy skills to assess, evaluate, and use resources in order to stay current in the field of anatomy.
- B. Communicate clearly and in a way that reflects knowledge and understanding of the human body and demonstrates the ability to adapt information to different audiences and applications.
- C. Approach and examine issues related to anatomy from an evidence-based perspective.

- IV. **Prerequisites:**
BIOL 100 and 101, or equivalent.
- V. **Recommended Preparation:**
ENGL 115 or equivalent;
RDG 158 or the equivalent skill level as determined by the Southwestern College Reading Assessment or equivalent
- VI. **Methods of Instruction:**
- A. Lecture presentations
 - B. Assigned reading in textbook and use of references.
 - C. Laboratory dissections (anatomical insights gained from dissecting preserved cats, sheep brains, sheep hearts, and sheep eyes.)
 - D. Microscope slide study (the histological approach to anatomy).
 - E. Photomicrograph presentations (gross and microscopic anatomy).
 - F. Study of anatomical charts and models.
 - G. Human specimen and cadaver observation.
- VII. **Required Texts:**
- Lecture: Martini - "Human Anatomy", 9th ed.
 - Lab: Choice "A" or "B" below.
 - (A). Marieb "Human Anatomy w/ Cat Dissection"--7th ed.
- OR all of the following 3 references:
- (B).
 - Gilbert--*Pictorial Anatomy of the Cat*
 - Leboffe, Mike --*A Photographic Atlas of Histology*
 - Van De Graaff, et. al. --*A Photographic Atlas for the Anatomy and Physiology Lab*
- VIII. **Supplementary Texts (Optional):**
- *Van De Graaff, et. al. --*A Photographic Atlas for the Anatomy and Physiology Lab*
 - *Leboffe, Mike -*A Photographic Atlas of Histology*
 - *Morton & Perry -*Photo Atlas for A&P*
 - Krieger, Paul -*A Visual Analogy Guide to Human Anatomy*
 - Rust--*A Guide to Anatomy and Physiology Lab* (out of print, but can find used)
 - Eder-*Laboratory Atlas of Anatomy and Physiology*

- *Gilbert, S.- *Pictorial Anatomy of the Cat*, 2000
- Difore- *Atlas of Human Histology*
- Wheater, et al.- *Functional Histology*
- Kapit; Elson- *Anatomy Coloring Book*
- Alcarno, Edward. - *Anatomy and Physiology The EasyWay*, 1996.
- Van De Graff and Rhee -*Theory and Problems of Human Anatomy and Physiology*, 2nd ed.

IX. Materials Needed for Course:

- a. 1/8" paint brush
- b. Dissecting kit
- c. Safety glasses
- d. Lab coat, shirt, or apron
- e. Nitrile gloves (not latex)
- f. Pillow case — (one per 3 students)

X. Evaluation:

A. EXAMS -

- The final grade will be based on six lecture exams accompanied by six lab practical exams. Each exam will be worth 100 points for a total of 1200 possible points. The best 11 exams of the 12 total will be counted. Exam dates are listed on the class schedules.

- You must take all unit exams to receive a grade of "C" or better in the course. To receive an "A" in the course, you must pass both exams in the last unit.

- Lecture exams will cover information from both the lecture and laboratory meetings and consist of objective, short answer, and essay questions.

- Lab practical exams will involve the identification of anatomical structures on models, charts, slides and preserved specimens and will emphasize precise terminology, including correct spelling.

B. MAKE-UP EXAMS

•**There are no Lab exam make-ups!**

- You may make up a lecture exam, if you are ill and notify the instructor in advance. You must make up a lecture exam the day you return to class. These are the only circumstances under which a make-up exam will be allowed. You are allowed to drop your lowest exam score without penalty as only the top 11 scores are counted toward your final class grade.

C. DISSECTION GRADE -

•Students will work in a dissection group and will receive a possible 100 points each for their dissections.

D. QUIZZES—and Other Assignments – At the discretion of the Instructor, short quizzes will be given at the beginning of class—so don't be tardy! There are No Make-Up Quizzes. These quizzes will cover the current material being discussed and will consist of Multiple Choice, fill-in, and short answer questions. The total points from these will be added into your cumulative grade total.

E. GRADES -

Total possible points counted = 1100 points from exams plus an additional 100 points from dissections for a total of 1200* points.
*Additional points will be included from quizzes and other possible assignments, the number of such assignments is variable.

GRADING SCALE FOR COURSE:

A 90% (or greater) of top *cumulative score

B 80% (or greater) of top *cumulative score

C 70% (or greater) of top *cumulative score

D 60% (or greater) of top *cumulative score

F less than 60% of top *cumulative score

*(or 94% of total points, whichever is higher)

-Please record (in the table that follows) all exam scores to stay informed of your current status in the course.

-Students who are on a borderline between two grades at the end of the semester will be subjectively evaluated on their attendance, class participation and attitude, improvement in scores, and quality and completion of dissections.

F. ACADEMIC DISHONESTY –

ACADEMIC DISHONESTY IS NOT TOLERATED in this class. Examples of academic dishonesty include, but are not limited to: using “cheat notes” during an exam, copying answers of another student, allowing another student to copy your work, either inside or outside of class; using work from previous semesters, copying from a book, magazine, or brochure when writing a paper, without giving credit to the source, etc.

Work revealing academic dishonesty will receive a zero "0", and may lead to dismissal from the class with an "F". Disciplinary action as determined by school policy will be instituted.

Note: Instructor may make changes to schedule and grading policy.

G. COURTESY -

Please be considerate of your instructors, tutors, and fellow classmates. Courtesy is very important in maintaining a good learning environment. Do not come to class late or "pack up" your books and possessions when getting ready to leave during the last few minutes of class. When a student is asking a question, please refrain from talking while the question is being addressed. These behaviors are disruptive and rude.

In this class **all phones must be put on vibrate and put away off the desktop unless following along with the PowerPoint.** If you have an unusual circumstance, please explain it to me before class starts, and special arrangements can be made. If you are using a laptop computer during lecture please use it only for activities related to the class such as following lecture notes or taking notes. No web surfing or email, etc. during lecture!

A student engaging in disruptive behavior, such as side conversations while the instructor is lecturing, cell phone issues, excessive noise, or any other behavior that obviously interferes with the learning environment, will be warned on the first offense. If the behavior continues the student(s) will be asked to leave the classroom and a disruptive student report will be filed.

This is a laboratory environment, and there is **No Eating** in the classroom. This is a safety issue, so please make an extra effort to comply.

XI. Attendance Requirements

Attendance is required. You may be dropped from this course if you exceed four absences.

XII. Tardiness

Excessive tardiness is defined as arriving late for class or required class activity more than THREE TIMES after the first two weeks of the semester. You will be warned either verbally or in writing concerning this activity. If tardiness continues you can be dropped from the class. PLEASE BE ON TIME FOR CLASS!

XIII. Withdrawal Deadlines

- **Check course catalogue** *the deadline for you to drop this class without receiving a "W" on your transcript. A "W" is not calculated in your GPA, but it is counted as an attempt for the course.*
- **Check course catalogue** for the last day you can withdraw from course and receive a "W" grade. *If you are still enrolled after this date, you will receive an evaluative letter grade (A, B, C, D, F or Cr/NC) based on work completed in the course. Work not submitted will be counted as zeros. If you stop participating after this time you probably will fail the class. You are limited to three attempts at the course (W, D, F).*
It is your responsibility to withdraw from the course.

XIV. **Students with Disabilities** who may need academic accommodations should discuss options with their professors during the first two weeks of class. An alternate form of this syllabus and other class handouts is available upon request.

XV. **Students who are pregnant or who become pregnant during this course** should identify themselves to the instructor. The student should consult and follow the advice of her obstetrician regarding exposure to preservatives during dissection exercises in the anatomy lab. If attendance is not advised, she should be encouraged to enroll in the laboratory after her pregnancy. She will need written approval from her physician to participate in anatomy laboratory. The following precautions are recommended if continuing in this class:

- Wear a respirator.
- Double glove when dissecting.
- Dissect no longer than an hour at a time and take 15 min breaks each hour to decrease continuous exposure time

XVI. **OFFICE HOURS (COME FOR HELP):** by appointment. I'm usually in class 30 early on Mondays and Wednesdays.

email: www.gbrulte@swccd.edu

webpage: www.cuyamaca.edu/people/greg-brulte

XVII. **OPEN LABS**

Most students find it rewarding to attend extra lab hours to study slides, models, charts, dissections, etc. Open Lab hours will be posted as to the availability of the anatomy laboratory for extra hours of study with the aid of an Anatomy Tutor. Students are strongly encouraged to take advantage of this time. The Open Lab hours are to be used for extra study time, NOT as a substitute for

your regularly scheduled lab hours. Please be courteous to our Anatomy Tutors. They are there to help you be successful in the class, not to tell you answers. There are no children allowed in the open labs, and please take your cell phone conversations outside.

Write Open Lab Hours Here: 5:00 to 5:30 MW in room 323

XVIII. Tutorial Assistance: Academic Success Center Referral

To further your success, reinforce concepts, and achieve the stated learning objectives for this course, I refer you to the Academic Success Center learning assistance services. Upon request for tutorial services, you will be automatically enrolled in NC 3: Supervised Tutoring, a free noncredit course that does not appear on your transcripts.

Services are located in the ASC (420), the Writing Center (420D), the Reading Center (420), Math Center (426), the Library/LRC Interdisciplinary Tutoring Lab, MESA, specialized on-campus School tutoring labs, the Higher Education Center, and the San Ysidro Education Center. Online learning materials and Online Writing Lab (OWL) are available at www.swccd.edu/~asc.

XIX. Student responsibilities

At the end of each lab period, students are expected to put away models/slides/specimens/microscopes to their proper locations. Tables should be cleaned with the cleaning solutions provided. Cats should be wet with the preservative provided and returned to their pillow case and sealed in their plastic bags. Sinks, counters and trays should be cleaned before leaving the room.

XX. General Safety

One of the most important lessons in this class involves safety in the laboratory. You will wear gloves, glasses or goggles at all times when dissecting. No open-toed shoes are allowed on dissection day.

Note: Grading policy and schedule subject to change at instructor's discretion.

XXI. RECORD OF EXAM SCORES

	My Score	High Score		My Score	High Score
LAB1	_____	_____	LEC 1	_____	_____
LAB 2	_____	_____	LEC 2	_____	_____
LAB 3	_____	_____	LEC 3	_____	_____
LAB 4	_____	_____	LEC 4	_____	_____
LAB 5	_____	_____	LEC 5	_____	_____
LAB 6	_____	_____	LEC 6	_____	_____

Fall Schedule 2019 Bio260 (Brulte)

Introduction to Anatomy	Ch. 1
Cells, Tissues	Ch. 2, 3
Tissues	Ch. 3
Integumentary System	Ch. 4
Review	

2/11 Lecture & Lab Exam 1 (Chapters 1, 2, 3, 4)

Intro to Anatomy and Skeletal System	Ch. 1, 5
Skeletal System (Axial),	Ch. 6
Skeletal System (Appendicular)	Ch. 7
Skeletal System (Articulations and Joints)	Ch. 8

2/27 Lecture & Lab Exam 2 (Chapters 1 (Partial) 5, 6, 7, 8)

Nervous System (Intro, Spinal Cord, Spinal Nerves)	Ch. 13, 14
Nervous System (Brain, Cranial Nerves)	Ch. 14, 15
Nervous System (Brain, Autonomic), Q5	Ch. 15, 17
Senses	Ch. 18
Senses, Endocrine Handout*	Ch. 18, 1

3/18 Lecture and Lab Exam 3 (Chapters 13, 14, 15, 17, 18)

Muscular System (Intro) Skin Cat: Bring Dissection Kit, Gloves, Pillow Case, Lab Coat & Safety Glasses	Ch. 9
Muscular System	Ch. 9
Muscular System (Axial)	Ch. 10
Muscular System (Appendicular)	Ch. 11, 12

4/15 Lecture & Lab Exam 4 (Chapters 9, 10, 11, 12)

Digestive System	Ch. 25
Urinary System	Ch. 26
Reproductive System	Ch. 27
Reproductive System, Endocrine Handout*	Ch. 27, 19

05/01 Lecture & Lab Exam 5 (Chapters 25, 26, 27, 19*)

Cardiovascular System	Ch. 20, 21
Cardiovascular System	Ch. 22
Lymphatic System, Respiratory System	Ch. 23, 24
Respiratory System	Ch. 24

5/20 Lecture and Lab Exam 6

**Tests are at 5:30 P.M., but may sometimes start at 6:00 P.M due to set up.
Grading and policy subject to change at professor's discretion.**