

ANAT M01: HUMAN ANATOMY

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Originator

achen

College

Moorpark College

Discipline (CB01A)

ANAT - Anatomy

Course Number (CB01B)

M01

Course Title (CB02)

Human Anatomy

Banner/Short Title

Human Anatomy

Credit Type

Credit

Catalog Course Description

Examines the anatomy of human organs and organ systems from a functional perspective that focuses on an understanding of the design of the human body. Teaches, in the laboratory setting, how to distinguish tissue types through histological specimens. Studies the three-dimensional relationship of body structures through required non-human mammalian dissection. Demonstrates, using human cadavers, the gross anatomy of the human body.

Taxonomy of Programs (TOP) Code (CB03)

0410.00 - Anatomy and Physiology

Course Credit Status (CB04)

D (Credit - Degree Applicable)

Course Transfer Status (CB05) (select one only)

A (Transferable to both UC and CSU)

Course Basic Skills Status (CB08)

N - The Course is Not a Basic Skills Course

SAM Priority Code (CB09)

E - Non-Occupational

Course Cooperative Work Experience Education Status (CB10)

N - Is Not Part of a Cooperative Work Experience Education Program

Course Classification Status (CB11)

Y - Credit Course

Educational Assistance Class Instruction (Approved Special Class) (CB13)

N - The Course is Not an Approved Special Class

Course Prior to Transfer Level (CB21)

Y - Not Applicable

Course Noncredit Category (CB22)

Y - Credit Course

Funding Agency Category (CB23)

Y - Not Applicable (Funding Not Used)

Course Program Status (CB24)

1 - Program Applicable

General Education Status (CB25)

Y - Not Applicable

Support Course Status (CB26)

N - Course is not a support course

Field trips

May be required

Grading method

(L) Letter Graded

Alternate grading methods

(O) Student Option- Letter/Pass

(P) Pass/No Pass Grading

Does this course require an instructional materials fee?

No

Repeatable for Credit

No

Is this course part of a family?

No

Units and Hours

Carnegie Unit Override

No

In-Class

Lecture

Minimum Contact/In-Class Lecture Hours

35

Maximum Contact/In-Class Lecture Hours

35

Activity

Laboratory

Minimum Contact/In-Class Laboratory Hours

105

Maximum Contact/In-Class Laboratory Hours

105

Total in-Class

Total in-Class

Total Minimum Contact/In-Class Hours

140

Total Maximum Contact/In-Class Hours

140

Outside-of-Class

Internship/Cooperative Work Experience

Paid

Unpaid

Total Outside-of-Class

Total Outside-of-Class

Minimum Outside-of-Class Hours

70

Maximum Outside-of-Class Hours

70

Total Student Learning

Total Student Learning

Total Minimum Student Learning Hours

210

Total Maximum Student Learning Hours

210

Minimum Units (CB07)

4

Maximum Units (CB06)

4

Advisories on Recommended Preparation

BIOL M01 or BIOL M02A or BIOL M02AH and ENGL M02 and MATH M03

Student Learning Outcomes (CSLOs)

Upon satisfactory completion of the course, students will be able to:

- 1 identify key structures of the human body and correlate the relationship between form and function of these structures.

Course Objectives

Upon satisfactory completion of the course, students will be able to:

- 1 use anatomical terminology appropriately to describe position, structure and function of anatomical systems.
- 2 identify the major mammalian organs and organ systems, their structural parts and features.
- 3 relate the structure of cells and tissues to the structure and function of organs and organ systems.
- 4 classify anatomical parts of an organ or organ system according to structure and function.
- 5 describe the organization of the organ systems.
- 6 describe the relationship of the different anatomical parts to each other and to the whole organism.
- 7 describe how anatomical features change over the lifespan of an individual.
- 8 distinguish healthy from diseased or abnormal tissue both macroscopically and microscopically.
- 9 identify different tissue types histologically.
- 10 identify anatomical features in a dissected mammal and a human cadaver.
- 11 demonstrate appropriate dissection techniques.

Course Content

Lecture/Course Content

- 4% Anatomical terminology
- 5% Endocrine system
- 8% Sensory systems
- 10% Nervous system
- 6% Reproductive system
- 6% Urinary system
- 6% Digestive system
- 5% Respiratory system
- 4% Lymphatic system
- 12% Cardiovascular system
 - Blood composition
- 12% Muscular system
- 12% Skeletal system
 - Joints
- 6% Integumentary system
- 4% Basic histology

Laboratory or Activity Content

- 4% The human body: an orientation
- 5% The endocrine system
- 10% The nervous system
- 6% The reproductive system
- 6% The urinary system
- 6% The digestive system
- 5% The respiratory system
- 4% The lymphatic system
- 12% The circulatory system: blood, heart, and blood vessels
- 15% The muscular system
- 15% Skeletal systems and joints
- 6% Integumentary system and body membranes
- 6% Histology: basic tissues of the body

Methods of Evaluation

Methods of Evaluation may include, but are not limited to, the following typical classroom assessment techniques/required assignments (check as many as are deemed appropriate):

- Essay exams
- Objective exams
- Problem-solving exams
- Skills demonstrations
- Other (specify)
- Classroom Discussion
- Projects
- Participation
- Reports/Papers/Journals

Other

- Fetal pig dissection techniques

Instructional Methodology

Specify the methods of instruction that may be employed in this course

- Audio-visual presentations
- Computer-aided presentations
- Distance Education

Guest speakers
Other (specify)

Specify other method of instruction

Group projects
Seminar
Museum exhibits

Representative Course Assignments

Writing Assignments

write a report describing the steps a surgeon will follow during a colectomy of the proximal third of the transverse colon.

write an evaluation of information from on-site laboratory activities or computer lab simulations.

use the colors, blue for venous blood, red for arterial blood, and green for lymph, to color code the structures presented in a histological drawing of the liver.

use online resources given by the instructor to provide a detailed description of the features of the liver that are not addressed in the textbook.

Critical Thinking Assignments

research a case study of disease involving anatomical structure.

use the online resources provided by the instructor to complete a study guide to discuss the important features of the heart that dictates the heart pump capabilities.

identify organs and structures on medical images such as X-rays, MRIs, or CT scans.

compare the fetal pig to the adult human and list 10 anatomical differences, explaining how these differences relate to differences between adult and fetus and between species.

compare and discuss the human skeleton vs. great ape skeleton.

analyze and compare various joints.

Outside Assignments

Representative Outside Assignments

review and memorize specific organs found in each abdominal region.

review the name and the purpose of surgical procedures that are used to correct digestive system conditions, appendectomy and colectomy.

participate in cooperative group work addressing dissections.

survey popular press for articles relating to anatomy.

research using appropriate scientific literature from libraries and the Internet.

memorize definitions of the following heart anatomy-related clinical terms: mitral stenosis, aortic insufficiency, and pericarditis.

Articulation

C-ID Descriptor Number

BIOL 110B

Status

Approved

Equivalent Courses at 4 year institutions

University	Course ID	Course Title	Units
California State University, Northridge	BIOL 211 and 212	Human Anatomy and Laboratory Studies in Human Anatomy	2;1
UC Los Angeles	PHYSICI 13	Introduction to Human Anatomy	5
University of California, Irvine	BIO SCI D170	Applied Human Anatomy	6
California State University, Long Beach	BIOL 208	Human Anatomy	4

Comparable Courses within the VCCCD

ANAT R101 - General Human Anatomy
ANAT V01 - Human Anatomy

District General Education

A. Natural Sciences

A1. Biological Science

Approved

B. Social and Behavioral Sciences

C. Humanities

D. Language and Rationality

E. Health and Physical Education/Kinesiology

F. Ethnic Studies/Gender Studies

Course is CSU transferable

Yes

CSU Baccalaureate List effective term:

F1995

CSU GE-Breadth

Area A: English Language Communication and Critical Thinking

Area B: Scientific Inquiry and Quantitative Reasoning

B2 Life Science

Approved

B3 Laboratory Activity

Approved

Area C: Arts and Humanities

Area D: Social Sciences

Area E: Lifelong Learning and Self-Development

Area F: Ethnic Studies

CSU Graduation Requirement in U.S. History, Constitution and American Ideals:

UC TCA

UC TCA

Approved

IGETC**Area 1: English Communication****Area 2A: Mathematical Concepts & Quantitative Reasoning****Area 3: Arts and Humanities****Area 4: Social and Behavioral Sciences****Area 5: Physical and Biological Sciences****Area 5B: Biological Science**

Approved

Area 5C: Laboratory Science

Approved

Area 6: Languages Other than English (LOTE)**Textbooks and Lab Manuals****Resource Type**

Textbook

DescriptionMarieb, Elaine, et al (2017). *Human Anatomy* (8th). - Pearson.**Resource Type**

Textbook

DescriptionAmerman, Erin (2016). *Exploring Anatomy in the Laboratory*. Morton. 9781617314896**Resource Type**

Textbook

DescriptionShargo, Eric (2017). *Laboratory Manual for Anatomy 1 - Fetal Pig* (5th). Sunshine . 9789997262011**Resource Type**

Other Resource Type

DescriptionKrieger, Paul. *A Visual Guide to Human Anatomy*. 4th ed. Morton, 2017..**Library Resources****Assignments requiring library resources**

Research, using the Library's print and online resources, the etiology, epidemiology, diagnosis, and treatment for a disease, condition, or injury such as diabetes mellitus or traumatic brain injury. These same resources will also be essential to providing current events in the field of anatomy.

Sufficient Library Resources exist

Yes

Distance Education Addendum

Definitions

Distance Education Modalities

Hybrid (1%–50% online)
 Hybrid (51%–99% online)
 100% online

Faculty Certifications

Faculty assigned to teach Hybrid or Fully Online sections of this course will receive training in how to satisfy the Federal and state regulations governing regular effective/substantive contact for distance education. The training will include common elements in the district-supported learning management system (LMS), online teaching methods, regular effective/substantive contact, and best practices.

Yes

Faculty assigned to teach Hybrid or Fully Online sections of this course will meet with the EAC Alternate Media Specialist to ensure that the course content meets the required Federal and state accessibility standards for access by students with disabilities. Common areas for discussion include accessibility of PDF files, images, captioning of videos, Power Point presentations, math and scientific notation, and ensuring the use of style mark-up in Word documents.

Yes

Regular Effective/Substantive Contact

Hybrid (1%–50% online) Modality:

Method of Instruction	Document typical activities or assignments for each method of instruction
Other DE (e.g., recorded lectures)	Recorded lectures will provide students with the same experience as in a traditional lecture class. Online practice exams and quizzes will provide the opportunity for asynchronous review of material.
E-mail	Email, class announcements and tools such as “Message Students Who” and “Assignment Comments” in Canvas will be used to regularly communicate with all students to clarify class content, remind of upcoming assignments, and provide immediate feedback to students on coursework to facilitate student learning outcomes. Students will be given multiple ways to email instructor through Canvas inbox and faculty provided email account through their own canvas email and school email.
Asynchronous Dialog (e.g., discussion board)	Regular Asynchronous discussion boards will be used to encourage discussion among students where they can compare and contrast/discuss /identify and analyze elements of course outcomes. Other Discussion boards will also be used for Q&A and general class discussion by students and instructor to facilitate student learning outcomes.
Face to Face (by student request; cannot be required)	Labs will be face to face with practical (identification) quizzes and exams. Lab time will offer student-student interaction and time to ask question of the instructor.

Hybrid (51%–99% online) Modality:

Method of Instruction	Document typical activities or assignments for each method of instruction
Other DE (e.g., recorded lectures)	Recorded lectures will provide students with the same experience as in a traditional lecture class. Online practice exams and quizzes will provide the opportunity for asynchronous review of material.

E-mail	Email, class announcements and tools such as “Message Students Who” and “Assignment Comments” in Canvas will be used to regularly communicate with all students to clarify class content, remind of upcoming assignments, and provide immediate feedback to students on coursework to facilitate student learning outcomes. Students will be given multiple ways to email instructor through Canvas inbox and faculty provided email account through their own canvas email and school email.
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Face to Face (by student request; cannot be required)	Labs will be face to face with practical (identification) quizzes and exams. Lab time will offer student-student interaction and time to ask question of the instructor.

100% online Modality:**Method of Instruction****Document typical activities or assignments for each method of instruction**

Other DE (e.g., recorded lectures)	Recorded lectures will provide students with the same experience as in a traditional lecture class. Online practice exams and quizzes will provide the opportunity for asynchronous review of material.
E-mail	Email, class announcements and tools such as “Message Students Who” and “Assignment Comments” in Canvas will be used to regularly communicate with all students to clarify class content, remind of upcoming assignments, and provide immediate feedback to students on coursework to facilitate student learning outcomes. Students will be given multiple ways to email instructor through Canvas inbox and faculty provided email account through their own canvas email and school email.
Asynchronous Dialog (e.g., discussion board)	Regular Asynchronous discussion boards will be used to encourage discussion among students where they can compare and contrast/discuss /identify and analyze elements of course outcomes. Other Discussion boards will also be used for Q&A and general class discussion by students and instructor to facilitate student learning outcomes.

Examinations**Hybrid (1%–50% online) Modality**

On campus

Online

Hybrid (51%–99% online) Modality

On campus

Online

Primary Minimum Qualification

BIOLOGICAL SCIENCES

Review and Approval Dates**Department Chair**

MM/DD/YYYY

Dean

MM/DD/YYYY

Technical Review

MM/DD/YYYY

Curriculum Committee

MM/DD/YYYY

DTRW-I

MM/DD/YYYY

Curriculum Committee

MM/DD/YYYY

Board

MM/DD/YYYY

CCCCO

MM/DD/YYYY

Control Number

CCC000427754

DOE/accreditation approval date

MM/DD/YYYY